



**CONESTOGA-ROVERS  
& ASSOCIATES**

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## TRANSMITTAL

DATE: February 14, 2013 REFERENCE NO.: 240523

PROJECT NAME: 4212 First Street, Pleasanton

TO: Jerry Wickham

Alameda County Environmental Health

1131 Harbor Bay Parkway, Suite 250

Alameda, California 94502-6577

**RECEIVED**

*By Alameda County Environmental Health at 1:41 pm, Feb 14, 2013*

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

QUANTITY	DESCRIPTION
1	Groundwater Monitoring Report - Fourth Quarter 2012

As Requested  For Review and Comment  
 For Your Use

**COMMENTS:**

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

Copy to: Denis Brown, Shell Oil Products US (electronic copy)  
 Douglas E. & Mary M. Safreno (property owners), 1627 Vineyard Avenue, Pleasanton, CA 94566-6389  
 Danielle Stefani, Livermore-Pleasanton Fire Department, 3560 Nevada Street, Pleasanton, CA 94566-6267  
 Clint Mercer (lessee), SC Fuels, 1800 West Katella Avenue, Orange, CA 92867  
 Cheryl Dizon, Zone 7 Water Agency (electronic copy)  
 Aaron O'Brien, Tamalpais Environmental Consultants (electronic copy)

Completed by: Peter Schaefer Signed: *Peter Schaefer*

Filing: **Correspondence File**



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

**Denis L. Brown**  
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20945 S. Wilmington Ave.  
Carson, CA 90810-1039  
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Email [denis.l.brown@shell.com](mailto:denis.l.brown@shell.com)

Re: Shell-branded Service Station  
4212 First Street  
Pleasanton, California  
SAP Code 135782  
Incident No. 98995840  
ACEH Case No. RO0000360

Dear Mr. Wickham:

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Denis L. Brown", is located below the "Sincerely," text.

Denis L. Brown  
Senior Program Manager



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

**SHELL-BRANDED SERVICE STATION  
4212 FIRST STREET  
PLEASANTON, CALIFORNIA**

**SAP CODE           135782  
INCIDENT NO.      98995840  
AGENCY NO.        RO0000360**

**FEBRUARY 14, 2013  
REF. NO. 240523 (18)**

This report is printed on recycled paper.

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

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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	4212 First Street, Pleasanton
Site Use	Shell-branded Service Station
Shell Project Manager	Denis Brown
CRA Project Manager	Peter Schaefer
Lead Agency and Contact	ACEH, Jerry Wickham
Agency Case No.	RO0000360
Shell SAP Code	135782
Shell Incident No.	98995840

Date of most recent agency correspondence was December 13, 2012.

## 2.0 SITE ACTIVITIES, FINDINGS, AND DISCUSSION

### 2.1 CURRENT QUARTER'S ACTIVITIES

Blaine Tech Services, Inc. (Blaine) gauged and sampled wells MW-1 through MW-4 and MW-1B on November 13, 2012 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 for the November 13, 2012 sampling event; for developing or redeveloping wells AS-1, EW-1, EW-2, P-1, P-2, MW-1, MW-4, and OBS-1 in August and September 2012; and for sampling wells MW-1 through MW-4, MW-1B, AS-1, EW-1, EW-2, P-1, P-2, and SVE-5 on September 7, 2012 are presented in Appendix A, and the laboratory report for the November 13, 2012 sampling event is presented in Appendix B.

CRA submitted a *Subsurface Investigation Report* on October 3, 2012 presenting the results of our August and September 2012 soil vapor investigation. On October 30, 2012 CRA submitted an *Air Sparge and Soil Vapor Extraction and Dual-Phase Extraction Pilot Test*

*Report*, which included well installation details, groundwater data for the new wells from our August 31, 2012 monitoring and sampling event, and pilot test data.

## **2.2            CURRENT QUARTER'S FINDINGS**

Groundwater Flow Direction	Northeasterly
Hydraulic Gradient	0.06
Depth to Water	33.35 to 102.33 feet below top of well casing

## **2.3            PROPOSED ACTIVITIES**

Blaine will gauge and sample wells MW-1 through MW-4 and MW-1B according to the established monitoring program for this site. This site is monitored semiannually during the second and fourth quarters, and CRA will issue groundwater monitoring reports semiannually following the sampling events.

Alameda County Environmental Health's (ACEH's) December 13, 2012 letter requested additional delineation of soil and groundwater impacts and submittal of a corrective action plan (CAP). As discussed in Shell's and CRA's meeting with ACEH on January 23, 2013, CRA will submit a work plan for a petroleum hydrocarbon mass removal event using air sparging and soil vapor extraction in lieu of a CAP by March 7, 2013. We will determine if further delineation is warranted following completion of the mass removal event.

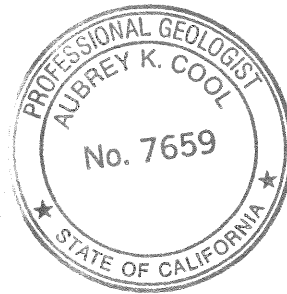
All of Which is Respectfully Submitted,  
CONESTOGA-ROVERS & ASSOCIATES



Peter Schaefer, CHG, CEG



Aubrey K. Cool, PG





FIGURES

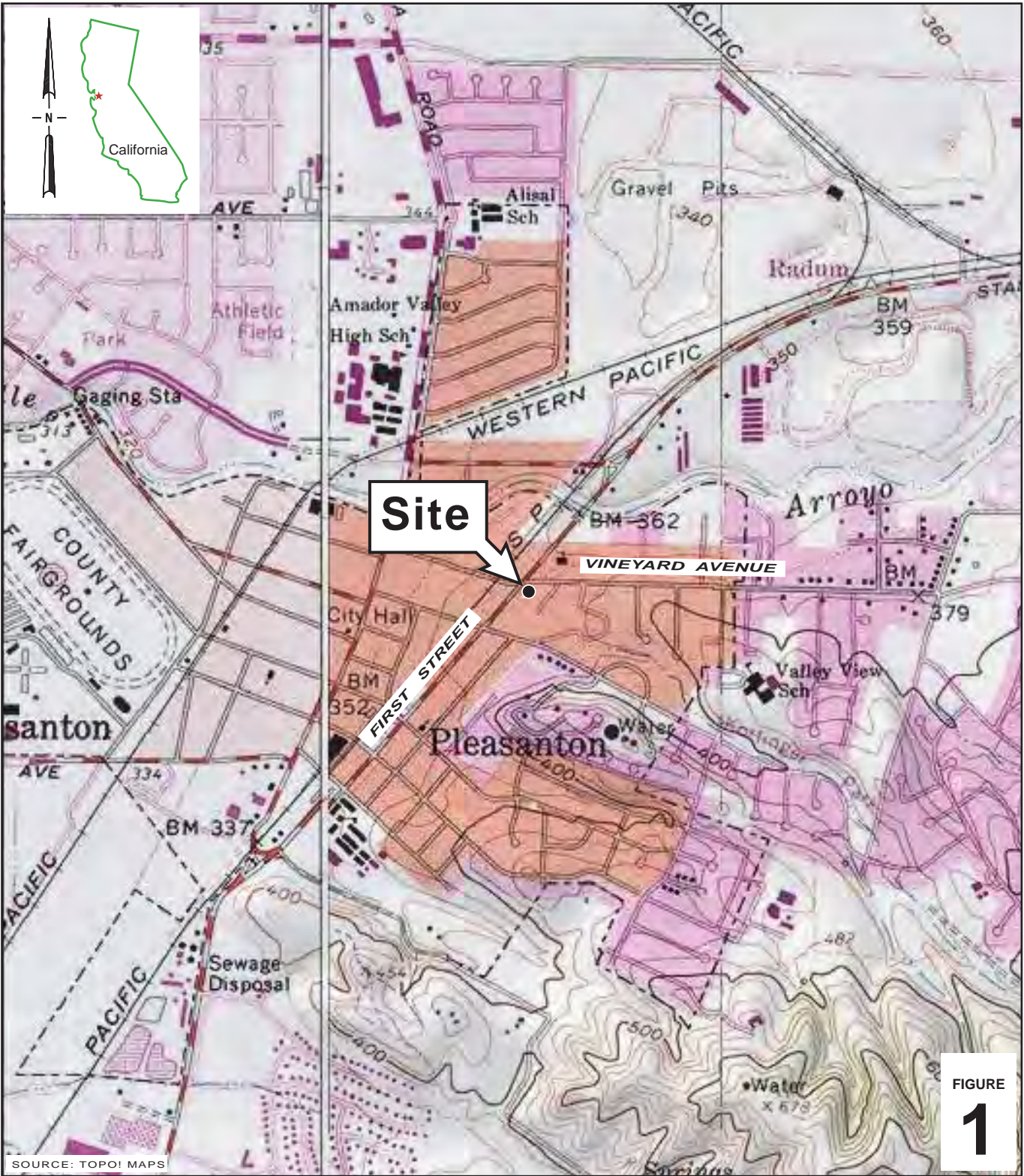


FIGURE  
**1**

I:\Shell\6-charts\2405--\240523-Pleasanton 4212 First\240523-FIGURES\240523 VICINITY (F1).AI

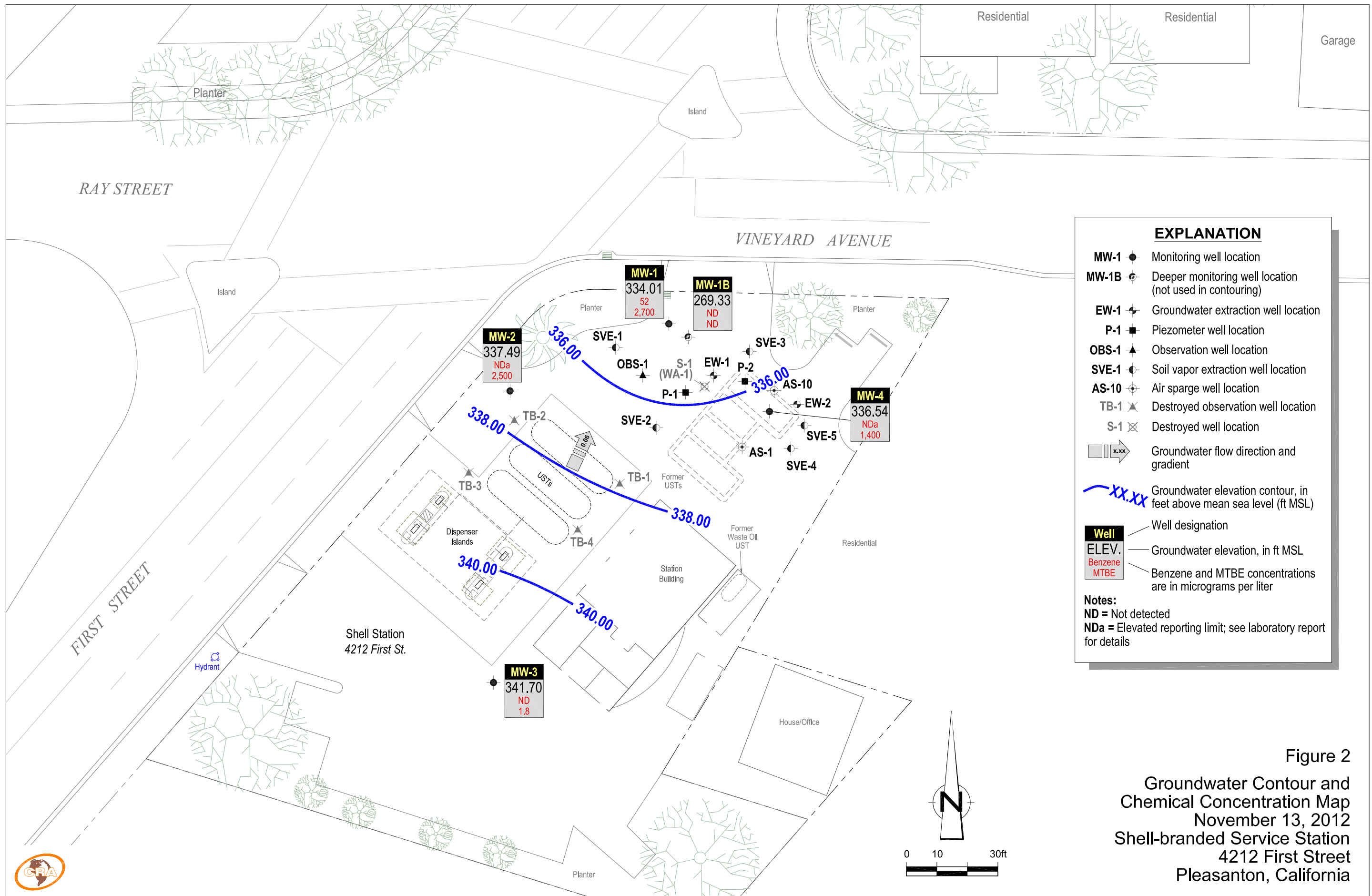
### Shell-branded Service Station

4212 First Street  
Pleasanton, California



**CONESTOGA-ROVERS  
& ASSOCIATES**

### Vicinity Map



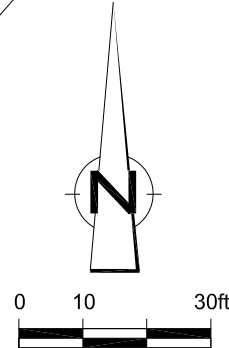
**EXPLANATION**

- MW-1** ● Monitoring well location
- MW-1B** ○ Deeper monitoring well location (not used in contouring)
- EW-1** ⚡ Groundwater extraction well location
- P-1** ■ Piezometer well location
- OBS-1** ▲ Observation well location
- SVE-1** ● Soil vapor extraction well location
- AS-10** ⊕ Air sparge well location
- TB-1** ✖ Destroyed observation well location
- S-1** ✖ Destroyed well location
- Groundwater flow direction and gradient
- Groundwater elevation contour, in feet above mean sea level (ft MSL)

Well	ELEV.	Benzene	MTBE
MW-1	334.01	52	2,700
MW-1B	269.33	ND	ND
MW-2	337.49	NDa	2,500
MW-3	341.70	ND	1.8
MW-4	336.54	NDa	1,400

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

Figure 2  
 Groundwater Contour and  
 Chemical Concentration Map  
 November 13, 2012  
 Shell-branded Service Station  
 4212 First Street  
 Pleasanton, California



TABLE

**GROUNDWATER DATA  
SHELL-BRANDED SERVICE STATION  
4212 FIRST STREET, PLEASANTON, 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)	Nitrate as N (µg/L)	Sulfate (µg/L)	Alkalinity as CaCO <sub>3</sub> (µg/L)	Ferrous Iron (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
MW-1	06/16/1999	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	371.20	37.81	333.39	--	--
MW-1	06/30/1999	89.0	5.89	<0.500	<0.500	0.652	<5.00	--	--	--	--	--	--	--	--	--	371.20	33.65	337.55	--	--
MW-1	09/24/1999	1,560	473	<10.0	<10.0	22.8	<2.50	--	--	--	--	--	--	--	--	--	371.20	37.04	334.16	--	--
MW-1	12/08/1999	1,020	375	<5.00	<5.00	15.2	<50.0	--	--	--	--	--	--	--	--	--	371.20	36.79	334.41	--	--
MW-1	02/10/2000	523	106	<5.00	<5.00	31.8	2.9	--	--	--	--	--	--	--	--	--	371.20	34.90	336.30	--	--
MW-1	05/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	37	29.5	--	--	--	--	--	--	--	--	371.20	32.55	338.65	--	--
MW-1	08/03/2000	808	290	<2.50	<2.50	8.9	<12.5	--	--	--	--	--	--	--	--	--	371.20	39.13	332.07	--	--
MW-1	10/31/2000	507	250	0.962	<0.500	23.5	3.76	--	--	--	--	--	--	--	--	--	371.20	37.91	333.29	--	--
MW-1	03/01/2001	<50.0	<0.500	<0.500	<0.500	<0.500	74.6	--	--	--	--	--	--	--	--	--	371.20	39.60	331.60	--	--
MW-1	05/30/2001	780	280	<2.0	<2.0	11	--	<2.0	--	--	--	--	--	--	--	--	371.20	39.53	331.67	--	--
MW-1	08/02/2001	1,900	580	<2.5	<2.5	12	--	<25	--	--	--	--	--	--	--	--	371.20	39.61	331.59	--	--
MW-1	12/06/2001	840	190	<0.50	<0.50	13	--	<5.0	--	--	--	--	--	--	--	--	371.20	39.63	331.57	--	--
MW-1	02/05/2002	2,700	650	<2.5	<2.5	7.2	--	<25	--	--	--	--	--	--	--	--	371.20	35.53	335.67	--	--
MW-1	06/17/2002	2,500	550	<2.0	<2.0	5.9	--	<20	--	--	--	--	--	--	--	--	371.20	39.29	331.91	--	--
MW-1	07/25/2002	690	130	<0.50	<0.50	4.4	--	18	--	--	--	--	--	--	--	--	371.20	39.39	331.81	--	--
MW-1	11/14/2002	400	31	<0.50	<0.50	2.7	--	27	--	--	--	--	--	--	--	--	371.20	40.00	331.20	--	--
MW-1	02/12/2003	840	0.85	<0.50	<0.50	<0.50	--	40	--	--	--	--	--	--	--	--	371.20	32.92	338.28	--	--
MW-1	05/14/2003	680	190	<2.5	<2.5	<5.0	--	95	--	--	--	--	--	--	--	--	371.20	32.57	338.63	--	--
MW-1	07/29/2003	870	190	<2.5	<2.5	<5.0	--	150	--	--	--	--	--	--	--	--	371.20	33.82	337.38	--	--
MW-1	11/19/2003	<200	14	<2.0	<2.0	<4.0	--	230	--	--	--	--	--	--	--	--	371.20	38.28	332.92	--	--
MW-1	02/19/2004	58 c	11	<0.50	<0.50	<1.0	--	85	--	--	--	--	--	--	--	--	371.20	36.93	334.27	--	--
MW-1	05/03/2004	670	310	<2.5	<2.5	<5.0	--	420	--	--	--	--	--	--	--	--	371.20	32.70	338.50	--	--
MW-1	08/24/2004	430 c	34	<2.5	<2.5	<5.0	--	690	--	--	--	--	--	--	--	--	371.20	34.66	336.54	--	--
MW-1	11/15/2004	<250	29	<2.5	<2.5	<5.0	--	470	--	--	--	--	--	--	--	--	371.20	38.27	332.93	--	--
MW-1	02/02/2005	540 e	87	<2.5	<2.5	<5.0	--	700	--	--	--	--	--	--	--	--	371.20	32.02	339.18	--	--
MW-1	05/05/2005	460 e	88	<2.5	<2.5	<5.0	--	300	--	--	--	--	--	--	--	--	371.20	36.82	334.38	--	--
MW-1	08/05/2005	910	230	<2.5	<2.5	<5.0	--	480	--	--	--	--	--	--	--	--	371.20	33.35	337.85	--	--
MW-1	11/22/2005	1,760	27	<0.500	<0.500	1.18	--	1,160	--	--	--	--	--	--	--	--	371.20	33.42	337.78	--	--
MW-1	02/07/2006	4,620	225	<0.500	<0.500	<0.500	--	1,480	--	--	--	--	--	--	--	--	371.20	31.63	339.57	--	--
MW-1	05/16/2006	1,100	130	<0.50	2.0	2.1	--	1,600	--	--	--	--	--	--	--	--	371.20	31.16	340.04	--	--
MW-1	08/21/2006	2,700	86	<0.500	0.79	0.81	--	1,960	--	--	--	--	--	--	--	--	371.20	33.07	338.13	--	--
MW-1	11/14/2006	1,400 c	30	<25	<25	<25	--	2,100	<1,000	<25	<25	<25	--	--	--	--	371.20	33.73	337.47	--	--
MW-1	02/01/2007	800	21	<0.50	<0.50	<1.0	--	2,300	--	--	--	--	--	--	--	--	371.20	33.02	338.18	--	--
MW-1	06/01/2007	1,400 d,e	68	<20	<20	4.4 f	--	2,200	--	--	--	--	--	--	--	--	371.20	32.87	338.33	--	--
MW-1	08/22/2007	250 d	20	<20	<20	<20	--	3,100	1,500	--	--	--	--	--	--	--	371.20	34.64	336.56	--	--
MW-1	11/26/2007	1,800 d	33	<20	<20	<20	--	3,100	930	<40	<40	<40	--	--	--	--	371.20	35.59	335.61	--	--
MW-1	02/19/2008	1,800 d	33	<20	<20	<20	--	3,700	1,700	--	--	--	--	--	--	--	371.20	31.05	340.15	--	--
MW-1	05/23/2008	3,700	100	<25	<25	<25	--	3,100	1,300	--	--	--	--	--	--	--	371.20	31.80	339.40	--	--
MW-1	08/07/2008	4,200	33	<25	<25	<25	--	3,500	<250	--	--	--	--	--	--	--	371.20	33.03	338.17	--	--

TABLE 1

GROUNDWATER DATA  
SHELL-BRANDED SERVICE STATION  
4212 FIRST STREET, PLEASANTON, 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)	Nitrate as N (µg/L)	Sulfate (µg/L)	Alkalinity as CaCO <sub>3</sub> (µg/L)	Ferrous Iron (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
MW-1	12/03/2008	3,400	34	<25	<25	<25	--	3,200	980	--	--	--	--	--	--	--	371.20	35.19	336.01	--	--
MW-1	02/05/2009	2,100	26	<25	<25	<25	--	1,700	340	--	--	--	--	--	--	--	371.20	35.07	336.13	--	--
MW-1	05/07/2009	4,400	230	<25	<25	<25	--	3,700	980	--	--	--	--	--	--	--	371.20	32.45	338.75	--	--
MW-1	08/20/2009	3,100	86	<25	<25	<25	--	2,500	730	--	--	--	--	--	--	--	371.20	34.48	336.72	--	--
MW-1	11/09/2009	3,200	230	<20	<20	33	--	2,100	530	<40	<40	<40	--	--	--	--	371.20	35.84	335.36	--	--
MW-1	02/11/2010	4,400	30	<20	<20	<20	--	3,000	730	--	--	--	--	--	--	--	371.20	34.06	337.14	--	--
MW-1	05/13/2010	3,300	38	<20	<20	<20	--	3,300	1,100	--	--	--	--	--	--	--	371.20	31.99	339.21	--	--
MW-1	08/05/2010	4,200	12	<20	<20	<20	--	3,800	1,300	--	--	--	--	--	--	--	371.20	33.70	337.50	--	--
MW-1	10/30/2010	2,700	<10	<20	<20	<20	--	3,400	770	<40	<40	<40	--	--	--	--	371.20	33.12	338.08	--	--
MW-1	02/09/2011	2,600	32	<12	<12	<25	--	3,400	1,100	--	--	--	--	--	--	--	371.20	33.03	338.17	--	--
MW-1	05/31/2011	<2,500	26	<25	<25	<50	--	3,000	1,000	--	--	--	--	--	--	--	371.2	32.21	338.99	--	--
MW-1	07/27/2011	3,900 c	28	<10	<10	<20	--	4,100	1,400	--	--	--	--	--	--	--	371.20	33.60	337.60	--	--
MW-1	11/04/2011	4,200	<25	<25	<25	<50	--	4,800	790	<50	<50	<50	--	--	--	--	371.20	31.20	340.00	--	--
MW-1	05/23/2012	3,300	12	<10	<10	<20	--	3,400	710	--	--	--	5,000 h	19,000	630,000	<100	371.20	32.61	338.59	2.28	63
MW-1	08/31/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	371.20	34.72	336.48	--	--
MW-1	09/04/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	371.20	31.31	339.89	--	--
MW-1	09/07/2012	<5,000	<50	<50	<50	<100	--	2,700	<1,000	--	--	--	4,500 a	20,000	640,000	--	371.20	35.82	335.38	1.21	96
MW-1	11/13/2012	2,600	52	<25	<25	<50	--	2,700	<500	<25	<25	<25	4,700	21,000	630,000	--	371.20	37.19	334.01	1.93	54
MW-1B	09/21/2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	371.67	76.94	294.73	--	--
MW-1B	09/28/2006	<50	<0.50	<0.50	<0.50	<0.50	--	21	<20	--	--	--	--	--	--	--	371.67	77.15	294.52	--	--
MW-1B	11/14/2006	320 c	<5.0	<5.0	<5.0	<5.0	--	310	<200	<5.0	<5.0	<5.0	--	--	--	--	371.67	69.38	302.29	--	--
MW-1B	02/01/2007	77	0.53	<0.50	<0.50	<1.0	--	150	--	--	--	--	--	--	--	--	371.67	60.92	310.75	--	--
MW-1B	06/01/2007	<50 d,e	0.25 f	<1.0	<1.0	<1.0	--	74	--	--	--	--	--	--	--	--	371.67	61.07	310.60	--	--
MW-1B	08/22/2007	<50 d	0.25 f	<1.0	<1.0	<1.0	--	35	7.1 f	--	--	--	--	--	--	--	371.67	77.54	294.13	--	--
MW-1B	11/26/2007	<50 d	<0.50	<1.0	<1.0	<1.0	--	1.7	<10	<2.0	<2.0	<2.0	--	--	--	--	371.67	68.50	303.17	--	--
MW-1B	02/19/2008	65 d	2.6	4.2	<1.0	1.1	--	58	<10	--	--	--	--	--	--	--	371.67	57.21	314.46	--	--
MW-1B	05/23/2008	<50	<0.50	<1.0	<1.0	<1.0	--	3.6	<10	--	--	--	--	--	--	--	371.67	57.53	314.14	--	--
MW-1B	08/07/2008	<50	<0.50	<1.0	<1.0	<1.0	--	1.1	<10	--	--	--	--	--	--	--	371.67	72.51	299.16	--	--
MW-1B	12/03/2008	<50	<0.50	<1.0	<1.0	<1.0	--	3.4	<10	--	--	--	--	--	--	--	371.67	80.84	290.83	--	--
MW-1B	02/05/2009	<50	<0.50	<1.0	<1.0	<1.0	--	4.4	<10	--	--	--	--	--	--	--	371.67	76.11	295.56	--	--
MW-1B	05/07/2009	<50	<0.50	<1.0	<1.0	<1.0	--	2.5	13	--	--	--	--	--	--	--	371.67	66.97	304.70	--	--
MW-1B	08/20/2009	<50	<0.50	<1.0	<1.0	<1.0	--	1.7	<10	--	--	--	--	--	--	--	371.67	97.32	274.35	--	--
MW-1B	11/09/2009	<50	<0.50	<1.0	<1.0	<1.0	--	<1.0	<10	<2.0	<2.0	<2.0	--	--	--	--	371.67	98.90	272.77	--	--
MW-1B	02/11/2010	<50	<0.50	<1.0	<1.0	<1.0	--	1.1	<10	--	--	--	--	--	--	--	371.67	90.72	280.95	--	--
MW-1B	05/13/2010	<50	<0.50	<1.0	<1.0	<1.0	--	2.0	<10	--	--	--	--	--	--	--	371.67	80.56	291.11	--	--
MW-1B	08/05/2010	<50	<0.50	<1.0	<1.0	<1.0	--	<1.0	<10	--	--	--	--	--	--	--	371.67	90.10	281.57	--	--
MW-1B	10/30/2010	<50	<0.50	<1.0	<1.0	<1.0	--	<1.0	<10	<2.0	<2.0	<2.0	--	--	--	--	371.67	102.21	269.46	--	--
MW-1B	02/09/2011	<50	<0.50	<0.50	<0.50	<1.0	--	<1.0	<10	--	--	--	--	--	--	--	371.67	90.24	281.43	--	--



**GROUNDWATER DATA**  
**SHELL-BRANDED SERVICE STATION**  
**4212 FIRST STREET, PLEASANTON, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE	MTBE	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Nitrate	Sulfate (µg/L)	Alkalinity	Ferrous	TOC (ft MSL)	Depth to	GW	DO (mg/L)	ORP (mV)
							8020 (µg/L)	8260 (µg/L)					as N (µg/L)		as CaCO <sub>3</sub> (µg/L)	Iron (µg/L)		Water (ft TOC)	Elevation (ft MSL)		
MW-2	08/22/2007	100 d,e	<10	<20	<20	<20	—	2,400	120 f	—	—	—	—	—	—	—	372.40	32.93	339.47	—	—
MW-2	11/26/2007	1,600 d,e	<10	<20	<20	<20	—	2,900	<200	<40	<40	<40	—	—	—	—	372.40	33.44	338.96	—	—
MW-2	02/19/2008	1,300 d,e	<10	<20	<20	<20	—	3,300	<200	—	—	—	—	—	—	—	372.40	31.18	341.22	—	—
MW-2	05/23/2008	1,900	<12	<25	<25	<25	—	1,700	<250	—	—	—	—	—	—	—	372.40	31.44	340.96	—	—
MW-2	08/07/2008	1,700	<10	<20	<20	<20	—	1,300	<200	—	—	—	—	—	—	—	372.40	31.94	340.46	—	—
MW-2	12/03/2008	3,000	<10	<20	<20	<20	—	2,900	<200	—	—	—	—	—	—	—	372.40	32.53	339.87	—	—
MW-2	02/05/2009	1,200	<10	<20	<20	<20	—	1,000	<200	—	—	—	—	—	—	—	372.40	32.29	340.11	—	—
MW-2	05/07/2009	2,400	<10	<20	<20	<20	—	2,400	<200	—	—	—	—	—	—	—	372.40	31.98	340.42	—	—
MW-2	08/20/2009	2,800	<10	<20	<20	<20	—	2,400	<200	—	—	—	—	—	—	—	372.40	32.51	339.89	—	—
MW-2	11/09/2009	4,100	<12	<25	<25	<25	—	3,800	<250	<50	<50	<50	—	—	—	—	372.40	32.43	339.97	—	—
MW-2	02/11/2010	4,300	<12	<25	<25	<25	—	3,200	<250	—	—	—	—	—	—	—	372.40	32.07	340.33	—	—
MW-2	05/13/2010	2,400	<10	<20	<20	<20	—	2,500	<200	—	—	—	—	—	—	—	372.40	31.63	340.77	—	—
MW-2	08/05/2010	1,500	<5.0	<10	<10	<10	—	1,400	210	—	—	—	—	—	—	—	372.40	33.82	338.58	—	—
MW-2	10/30/2010	1,700	<5.0	<10	<10	<10	—	2,200	130	<20	<20	<20	—	—	—	—	372.40	32.82	339.58	—	—
MW-2	02/09/2011	1,400	<12	<12	<12	<25	—	1,900	<250	—	—	—	—	—	—	—	372.40	32.11	340.29	—	—
MW-2	05/31/2011	<1,000	<10	<10	<10	<20	—	1,200	<200	—	—	—	—	—	—	—	372.40	31.97	340.43	—	—
MW-2	07/27/2011	1,600 c	<10	<10	<10	<20	—	2,000	<200	—	—	—	—	—	—	—	372.40	32.30	340.10	—	—
MW-2	11/04/2011	2,100	<10	<10	<10	<20	—	2,500	<200	<20	<20	<20	—	—	—	—	372.40	33.20	339.20	—	—
MW-2	05/23/2012	2,700	<10	<10	<10	<20	—	3,000	<200	—	—	—	7,500	70,000	300,000	300	372.40	31.92	340.48	1.51	42
MW-2	09/07/2012	2,500 c	<25	<25	<25	<50	—	2,100	<500	—	—	—	5,800 a	80,000	300,000	—	372.40	33.32	339.08	1.75	68
MW-2	11/13/2012	2,100	<20	<20	<20	<40	—	2,500	<400	<20	<20	<20	8,400	77,000	310,000	—	372.40	34.91	337.49	1.27	22
MW-3	02/03/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	375.05	32.06	342.99	—	—
MW-3	02/07/2000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	375.05	32.57	342.48	—	—
MW-3	02/10/2000	180	5.12	<0.500	<0.500	0.714	26.8	21.5a	—	—	—	—	—	—	—	—	375.05	32.77	342.28	—	—
MW-3	05/17/2000	1,360	414	<5.00	<5.00	17.6	<25.0	—	—	—	—	—	—	—	—	—	375.05	31.00	344.05	—	—
MW-3	08/03/2000	<50.0	0.536	<0.500	<0.500	<0.500	22	—	—	—	—	—	—	—	—	—	375.05	31.03	344.02	—	—
MW-3	10/31/2000	<50.0	<0.500	<0.500	<0.500	<0.500	31.1	—	—	—	—	—	—	—	—	—	375.05	31.28	343.77	—	—
MW-3	03/01/2001	384	172	0.815	<0.500	8.0	5.16	—	—	—	—	—	—	—	—	—	375.05	31.21	343.84	—	—
MW-3	05/30/2001	<50	<0.50	<0.50	<0.50	<0.50	—	110	—	—	—	—	—	—	—	—	375.05	31.02	344.03	—	—
MW-3	08/02/2001	<50	<0.50	<0.50	<0.50	<0.50	—	93	—	—	—	—	—	—	—	—	375.05	30.94	344.11	—	—
MW-3	12/06/2001	110	<0.50	<0.50	<0.50	2.3	—	180	—	—	—	—	—	—	—	—	375.05	31.28	343.77	—	—
MW-3	02/05/2002	<50	0.89	0.60	<0.50	2.1	—	130	—	—	—	—	—	—	—	—	375.05	31.12	343.93	—	—
MW-3	06/17/2002	<50	<0.50	<0.50	<0.50	<0.50	—	72	—	—	—	—	—	—	—	—	375.05	31.21	343.84	—	—
MW-3	07/25/2002	<50	<0.50	<0.50	<0.50	<0.50	—	81	—	—	—	—	—	—	—	—	375.05	30.96	344.09	—	—
MW-3	11/14/2002	<50	<0.50	<0.50	<0.50	<0.50	—	60	—	—	—	—	—	—	—	—	375.05	31.44	343.61	—	—
MW-3	02/12/2003	<50	<0.50	<0.50	<0.50	<0.50	—	43	—	—	—	—	—	—	—	—	375.05	31.28	343.77	—	—
MW-3	05/14/2003	<50	<0.50	<0.50	<0.50	<1.0	—	24	—	—	—	—	—	—	—	—	375.05	31.20	343.85	—	—
MW-3	07/29/2003	<50	<0.50	<0.50	<0.50	<1.0	—	21	—	—	—	—	—	—	—	—	375.05	31.29	343.76	—	—



**GROUNDWATER DATA**  
**SHELL-BRANDED SERVICE STATION**  
**4212 FIRST STREET, PLEASANTON, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Nitrate as N (µg/L)	Sulfate (µg/L)	Alkalinity as CaCO <sub>3</sub> (µg/L)	Ferrous Iron (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
							8020 (µg/L)	8260 (µg/L)													
MW-3	11/19/2003	<50	<0.50	<0.50	<0.50	<1.0	--	8.2	--	--	--	--	--	--	--	--	375.05	31.86	343.19	--	--
MW-3	02/19/2004	81	0.67	4.4	1.8	8.6	--	13	--	--	--	--	--	--	--	--	375.05	31.66	343.39	--	--
MW-3	05/03/2004	<50	<0.50	<0.50	<0.50	<1.0	--	13	--	--	--	--	--	--	--	--	375.05	31.72	343.33	--	--
MW-3	08/24/2004	<50	<0.50	<0.50	<0.50	<1.0	--	10	--	--	--	--	--	--	--	--	375.05	32.09	342.96	--	--
MW-3	11/15/2004	<50	<0.50	<0.50	<0.50	<1.0	--	6.6	--	--	--	--	--	--	--	--	375.05	31.50	343.55	--	--
MW-3	02/02/2005	<50	<0.50	<0.50	<0.50	<1.0	--	3.1	--	--	--	--	--	--	--	--	375.05	31.28	343.77	--	--
MW-3	05/05/2005	<50	<0.50	<0.50	<0.50	<1.0	--	2.3	--	--	--	--	--	--	--	--	375.05	31.42	343.63	--	--
MW-3	08/05/2005	<50	<0.50	<0.50	<0.50	<1.0	--	2.4	--	--	--	--	--	--	--	--	375.05	31.35	343.70	--	--
MW-3	11/22/2005	<50	<0.500	<0.500	<0.500	<0.500	--	3.84	--	--	--	--	--	--	--	--	375.05	31.98	343.07	--	--
MW-3	02/07/2006	<50.0	<0.500	<0.500	<0.500	<0.500	--	<0.500	--	--	--	--	--	--	--	--	375.05	31.24	343.81	--	--
MW-3	05/16/2006	<50	<0.50	<0.50	<0.50	<1.0	--	4.5	--	--	--	--	--	--	--	--	375.05	31.37	343.68	--	--
MW-3	08/21/2006	<50.0	<0.500	<0.500	<0.500	<0.500	--	4.04	--	--	--	--	--	--	--	--	375.05	31.95	343.10	--	--
MW-3	11/14/2006	<50	<0.50	<0.50	<0.50	<0.50	--	3.8	<20	<0.50	<0.50	<0.50	--	--	--	--	375.05	32.24	342.81	--	--
MW-3	02/01/2007	<50	<0.50	<0.50	<0.50	<1.0	--	2.8	--	--	--	--	--	--	--	--	375.05	32.17	342.88	--	--
MW-3	06/01/2007	<50 d	<0.50	<1.0	<1.0	<1.0	--	3.1	--	--	--	--	--	--	--	--	375.05	31.86	343.19	--	--
MW-3	08/22/2007	<50 d	<0.50	<1.0	<1.0	<1.0	--	4.6	<10	--	--	--	--	--	--	--	375.05	32.18	342.87	--	--
MW-3	11/26/2007	<50 d	<0.50	<1.0	<1.0	<1.0	--	3.5	<10	<2.0	<2.0	<2.0	--	--	--	--	375.05	32.69	342.36	--	--
MW-3	02/19/2008	<50 d	<0.50	1.2	<1.0	<1.0	--	2.6	<10	--	--	--	--	--	--	--	375.05	30.94	344.11	--	--
MW-3	05/23/2008	<50	<0.50	<1.0	<1.0	<1.0	--	3.6	<10	--	--	--	--	--	--	--	375.05	31.45	343.60	--	--
MW-3	08/07/2008	<50	<0.50	<1.0	<1.0	<1.0	--	3.0	<10	--	--	--	--	--	--	--	375.05	31.40	343.65	--	--
MW-3	12/03/2008	<50	<0.50	<1.0	<1.0	<1.0	--	2.1	<10	--	--	--	--	--	--	--	375.05	32.12	342.93	--	--
MW-3	02/05/2009	<50	<0.50	<1.0	<1.0	<1.0	--	1.1	<10	--	--	--	--	--	--	--	375.05	32.74	342.31	--	--
MW-3	05/07/2009	<50	<0.50	<1.0	<1.0	<1.0	--	<1.0	<10	--	--	--	--	--	--	--	375.05	31.69	343.36	--	--
MW-3	08/20/2009	<50	<0.50	<1.0	<1.0	<1.0	--	2.0	<10	--	--	--	--	--	--	--	375.05	32.42	342.63	--	--
MW-3	11/09/2009	<50	<0.50	<1.0	<1.0	<1.0	--	1.7	<10	<2.0	<2.0	<2.0	--	--	--	--	375.05	32.54	342.51	--	--
MW-3	02/11/2010	<50	<0.50	<1.0	<1.0	<1.0	--	2.1	<10	--	--	--	--	--	--	--	375.05	31.81	343.24	--	--
MW-3	05/13/2010	<50	<0.50	<1.0	<1.0	<1.0	--	1.7	<10	--	--	--	--	--	--	--	375.05	31.25	343.80	--	--
MW-3	08/05/2010	<50	<0.50	<1.0	<1.0	<1.0	--	1.2	<10	--	--	--	--	--	--	--	375.05	32.00	343.05	--	--
MW-3	10/30/2010	<50	<0.50	<1.0	<1.0	<1.0	--	1.4	<10	<2.0	<2.0	<2.0	--	--	--	--	375.05	32.18	342.87	--	--
MW-3	02/09/2011	<50	<0.50	<0.50	<0.50	<1.0	--	1.7	<10	--	--	--	--	--	--	--	375.05	31.80	343.25	--	--
MW-3	05/31/2011	<50	<0.50	<0.50	<0.50	<1.0	--	1.9	<10	--	--	--	--	--	--	--	375.05	31.60	343.45	--	--
MW-3	07/27/2011	<50	<0.50	<0.50	<0.50	<1.0	--	1.8	<10	--	--	--	--	--	--	--	375.05	32.00	343.05	--	--
MW-3	11/04/2011	<50	<0.50	<0.50	<0.50	<1.0	--	2.1	<10	<1.0	<1.0	<1.0	--	--	--	--	375.05	32.55	342.50	--	--
MW-3	05/23/2012	<50	0.67	<0.50	<0.50	1.9	--	0.91	<10	--	--	--	1,400	36,000	250,000	5,000	375.05	31.52	343.53	1.81	-5
MW-3	09/07/2012	<50	<0.50	<0.50	<0.50	<1.0	--	1.6	<10	--	--	--	<110 a	28,000	270,000	--	375.05	32.66	342.39	1.06	-10
MW-3	11/13/2012	<50	<0.50	<0.50	<0.50	<1.0	--	1.8	<10	<0.50	<0.50	<0.50	<110	7,300	330,000	--	375.05	33.35	341.70	1.44	-26
MW-4	09/21/2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	372.78	31.58	341.20	--	--
MW-4	09/28/2006	11,000	<250	<250	<250	<250	--	13,000	<10,000	--	--	--	--	--	--	--	372.78	31.57	341.21	--	--

TABLE 1

**GROUNDWATER DATA  
SHELL-BRANDED SERVICE STATION  
4212 FIRST STREET, PLEASANTON, 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)	Nitrate as N (µg/L)	Sulfate (µg/L)	Alkalinity as CaCO <sub>3</sub> (µg/L)	Ferrous Iron (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
MW-4	11/14/2006	30,000	<250	<250	<250	<250 a	--	14,000	<10,000	<250	<250	<250	--	--	--	--	372.78	32.11	340.67	--	--
MW-4	02/01/2007	6,300	50	<5.0	19	120	--	14,000	--	--	--	--	--	--	--	--	372.78	33.23	339.55	--	--
MW-4	06/01/2007	8,200 d	52	<25	26	150	--	11,000	--	--	--	--	--	--	--	--	372.78	31.57	341.21	--	--
MW-4	08/22/2007	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	372.78	33.40	339.38	--	--
MW-4	11/26/2007	12,000 d	71	<100	<100	<100	--	20,000	<1,000	<200	<200	<200	--	--	--	--	372.78	34.74	338.04	--	--
MW-4	02/19/2008	13,000 d	<100	<200	<200	<200	--	18,000	2,900	--	--	--	--	--	--	--	372.78	29.70	343.08	--	--
MW-4	05/23/2008	21,000	<100	<200	<200	<200	--	16,000	<2,000	--	--	--	--	--	--	--	372.78	31.67	341.11	--	--
MW-4	08/07/2008	27,000	<100	<200	<200	<200	--	21,000	<2,000	--	--	--	--	--	--	--	372.78	31.90	340.88	--	--
MW-4	12/03/2008	20,000	19	<25	<25	29	--	21,000	2,500	--	--	--	--	--	--	--	372.78	34.32	338.46	--	--
MW-4	02/05/2009	15,000	200	<200	<200	<200	--	13,000	<2,000	--	--	--	--	--	--	--	372.78	34.58	338.20	--	--
MW-4	05/07/2009	18,000	<100	<200	<200	<200	--	17,000	<2,000	--	--	--	--	--	--	--	372.78	31.34	341.44	--	--
MW-4	08/20/2009	15,000	<50	<100	<100	<100	--	13,000	1,900	--	--	--	--	--	--	--	372.78	33.56	339.22	--	--
MW-4	11/09/2009	13,000	<50	<100	<100	<100	--	11,000	<1000	<200	<200	<200	--	--	--	--	372.78	33.57	339.21	--	--
MW-4	02/11/2010	11,000	95	<100	<100	110	--	7,500	3,200	--	--	--	--	--	--	--	372.78	31.21	341.57	--	--
MW-4	05/13/2010	8,800	48	<50	57	96	--	7,800	2,900	--	--	--	--	--	--	--	372.78	30.19	342.59	--	--
MW-4	08/05/2010	4,000	<12	<25	<25	<25	--	3,600	600	--	--	--	--	--	--	--	372.78	32.22	340.56	--	--
MW-4	10/30/2010	6,800	<12	<25	<25	<25	--	8,200	1,400	<50	<50	<50	--	--	--	--	372.78	33.95	338.83	--	--
MW-4	02/09/2011	<5,000	<50	<50	<50	<100	--	5,800	2,700	--	--	--	--	--	--	--	372.78	31.56	341.22	--	--
MW-4	05/31/2011	<5,000	<50	<50	<50	<100	--	5,600	1,200	--	--	--	--	--	--	--	372.78	30.78	342.00	--	--
MW-4	07/27/2011	4,500 c	<10	<10	18	21	--	5,200	2,100	--	--	--	--	--	--	--	372.78	31.64	341.14	--	--
MW-4	11/04/2011	3,400 c	<25	<25	<25	<50	--	4,400	1,800	<50	<50	<50	--	--	--	--	372.78	33.53	339.25	--	--
MW-4	05/23/2012	3,500	<10	<10	13	<20	--	4,900	1,400	--	--	--	5,300	69,000	300,000	1,000	372.78	31.12	341.66	1.44	-6
MW-4	08/31/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	372.79	33.77	339.02	--	--
MW-4	09/04/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	372.79	34.18	338.61	--	--
MW-4	09/07/2012	5,900 c	<50	<50	<50	<100	--	5,000	<1,000	--	--	--	4,300 a	71,000	320,000	--	372.79	34.55	338.24	1.21	66
MW-4	11/13/2012	1,200	<10	<10	<10	<20	--	1,400	970	<10	<10	<10	2,100	53,000	300,000	--	372.79	36.25	336.54	1.38	85
TB-1	02/12/2003	Well inaccessible	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TB-1	02/28/2003	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.54	--	--	--
TB-1	05/14/2003	<50	<0.50	<0.50	<0.50	<1.0	--	<5.0	--	--	--	--	--	--	--	--	--	12.31	--	--	--
TB-2	02/12/2003	Well inaccessible	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TB-2	02/28/2003	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.56	--	--	--
TB-2	05/14/2003	Insufficient water	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.54	--	--	--
TB-3	02/12/2003	Well dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TB-3	02/28/2003	Well dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TB-3	05/14/2003	Well dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**GROUNDWATER DATA  
SHELL-BRANDED SERVICE STATION  
4212 FIRST STREET, PLEASANTON, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Nitrate as N (µg/L)	Sulfate (µg/L)	Alkalinity as CaCO <sub>3</sub> (µg/L)	Ferrous Iron (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
							8020 (µg/L)	8260 (µg/L)													
TB-4	02/12/2003	Well dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TB-4	02/28/2003	Well dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TB-4	05/14/2003	Well dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AS-1	08/31/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	373.39	34.55	338.84	--	--
AS-1	09/04/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	373.39	35.08	338.31	--	--
AS-1	09/07/2012	8,500	<50	<50	<50	<100	--	10,000	--	--	--	--	--	--	--	--	373.39	34.55	338.84	1.17	187
EW-1	08/31/2012	Well dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	372.14	--	--	--	--
EW-1	09/07/2012	Well dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	372.14	--	--	--	--
EW-1	09/14/2012	<50	<0.50	<0.50	<0.50	<1.0	--	3.9	<10	--	--	--	--	--	--	--	372.14	19.03	353.11	--	--
EW-1	09/14/2012	1,600 i	3.8 i	0.84 i	20 i	76 i	--	36 i	1,200 i	--	--	--	--	--	--	--	372.14	--	--	--	--
EW-2	08/31/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	372.74	33.61	339.13	--	--
EW-2	09/04/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	372.74	34.16	338.58	--	--
EW-2	09/07/2012	3,600	<25	<25	<25	<50	--	4,100	--	--	--	--	--	--	--	--	372.74	35.02	337.72	1.83	166
EW-2	09/14/2012	3,800	<25	<25	<25	<50	--	3,400	670	--	--	--	--	--	--	--	372.74	--	--	--	--
OBS-1	08/31/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	372.28	33.50	338.78	--	--
OBS-1	09/04/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	372.28	35.18	337.10	--	--
P-1	08/31/2012	Well dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	372.51	--	--	--	--
P-1	09/07/2012	Well dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	372.51	--	--	--	--
P-2	08/31/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	372.39	33.42	338.97	--	--
P-2	09/04/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	372.39	34.00	338.39	--	--
P-2	09/07/2012	7,700	580	<10	30	<20	--	1,800	--	--	--	--	--	--	--	--	372.39	34.61	337.78	1.62	193
SVE-5	08/31/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	372.93	33.83	339.10	--	--
SVE-5	09/04/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	372.93	35.30	337.63	--	--
SVE-5	09/07/2012	4,200	<25	<25	<25	<50	--	4,900	--	--	--	--	--	--	--	--	372.93	36.20	336.73	1.49	180

**Notes:**

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; prior to 5/30/2001, analyzed by EPA Method 8015 unless otherwise noted.

BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; prior to 5/30/2001, analyzed by EPA Method 8020.

MTBE = Methyl tertiary-butyl ether analyzed as 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

**GROUNDWATER DATA  
SHELL-BRANDED SERVICE STATION  
4212 FIRST STREET, PLEASANTON, CALIFORNIA**

<i>Well ID</i>	<i>Date</i>	<i>TPHg</i> ( $\mu\text{g/L}$ )	<i>B</i> ( $\mu\text{g/L}$ )	<i>T</i> ( $\mu\text{g/L}$ )	<i>E</i> ( $\mu\text{g/L}$ )	<i>X</i> ( $\mu\text{g/L}$ )	<i>MTBE</i> <i>8020</i> ( $\mu\text{g/L}$ )	<i>MTBE</i> <i>8260</i> ( $\mu\text{g/L}$ )	<i>TBA</i> ( $\mu\text{g/L}$ )	<i>DIPE</i> ( $\mu\text{g/L}$ )	<i>ETBE</i> ( $\mu\text{g/L}$ )	<i>TAME</i> ( $\mu\text{g/L}$ )	<i>Nitrate</i> <i>as N</i> ( $\mu\text{g/L}$ )	<i>Sulfate</i> ( $\mu\text{g/L}$ )	<i>Alkalinity</i> <i>as CaCO<sub>3</sub></i> ( $\mu\text{g/L}$ )	<i>Ferrous</i> <i>Iron</i> ( $\mu\text{g/L}$ )	<i>TOC</i> (ft MSL)	<i>Depth to</i> <i>Water</i> (ft TOC)	<i>GW</i> <i>Elevation</i> (ft MSL)	<i>DO</i> (mg/L)	<i>ORP</i> (mV)
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TAME = Tertiary-amyl methyl ether analyzed by EPA Method 8260B

Nitrate as N and sulfate analyzed by EPA Method 300.0

Alkalinity as CaCO<sub>3</sub> analyzed by SM 2320 B

Ferrous iron analyzed by SM 3500 Fe B

TOC = Top of casing elevation, in feet relative to mean sea level

GW = Groundwater

DO = Dissolved oxygen

ORP = Oxidation reduction potential

$\mu\text{g/L}$  = 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

a = Sample was analyzed outside the EPA recommended holding time.

b = Concentration is an estimate value above the linear quantitation range.

c = Hydrocarbon result partly due to individual peak(s) in quantitation range.

d = Analyzed by EPA Method 8015B (M).

e = 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.

f = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.

h = Result exceeded calibration range

i = Post pilot test samples

Well MW-1 surveyed on May 4, 1999 by Virgil Chavez Land Surveying

Site wells surveyed on March 19, 2000 by Virgil Chavez Land Surveying

Site wells surveyed on January 15, 2002 by Virgil Chavez Land Surveying

Site wells surveyed on September 5, 2012 by Virgil Chavez Land Surveying

September 21, 2006 survey data for wells MW-1B and MW-4 provided by Delta Environmental Consultants, Inc.

APPENDIX A

BLAINE TECH SERVICES, INC. -  
FIELD NOTES

## WELL GAUGING DATA

Project # 120831-GRI Date 8/31/2012 Client Stell

Site 4212 First St, Pleasanton, CA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or <u>TOC</u>	Notes
AS-1	0818	2					34.55	47.89	↓	
EW-1	0820	4				Dry	21.68			
EW-2	0822	4				33.61	41.96			
P-1	0824	2				Dry	19.58			
P-2	0826	2				33.42	39.56			
SVE-5	0829	4				33.83	41.08			
MW-1	0832	2				34.72	57.15			
MW-4	0834	4				33.77	46.77			
OBS-1	0836	4				33.50	47.23			







## WELL DEVELOPMENT DATA SHEET

Project #: 120831-GR1	Client: Shell
Developer: GR / BW	Date Developed: 8/31/2012
Well I.D. EW-2	Well Diameter: (circle one) 2 3 ④ 6
Total Well Depth: Before 41.96 After 41.96	Depth to Water: Before 33.61 After 38.76
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):  
 $(12 \times (d^2/4) \times \pi) / 231$   
 where  
 12 = in / foot  
 d = diameter (in.)  
 $\pi = 3.1416$   
 231 = in<sup>3</sup>/gal

Well dia.	VCF
2" =	0.16
3" =	0.37
4" =	0.65
6" =	1.47
10" =	4.08
12" =	6.87

5.4	X	10	=	54.0
1 Case Volume		Specified Volumes		gallons

Purging Device:       Bailer                                       Electric Submersible  
                                   Suction Pump                                       Positive Air Displacement

Type of Installed Pump \_\_\_\_\_  
 Other equipment used 4" surge block

TIME	TEMP (F)	pH	Cond. (mS or $\mu$ S)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1015	Surged well for			15 min		
1045	Start purge w/ MB pump				(pump issue delay)	Agitated bottom w/ pump
1057	67.8	7.13	2790	>1000	5.4	some silt; on hard bottom
1101	well dewatered			@	8.5	DTW - 38.56; TD - 41.96
1428	regauge			DTW - 36.87		
1431	Start purge w/ MB pump					Agitated bottom w/ pump
1435	69.0	7.28	2300	547	10.8	very little silt; <sup>slightly</sup> very turbid
1436	well dewatered			@	11.0	DTW - 38.76; TD - 41.96
Did Well Dewater?	yes			If yes, note above.	Gallons Actually Evacuated:	11.0

# WELL DEVELOPMENT DATA SHEET

Project #: <u>120831-GR1</u>	Client: <u>Shell</u>
Developer: <u>GR / BW</u>	Date Developed: <u>8/31/2012</u>
Well I.D. <u>P-1</u>	Well Diameter: (circle one) <u>2</u> 3 4 6
Total Well Depth: Before <u>19.56</u> After _____	Depth to Water: Before <u>Dry</u> After _____
Reason not developed: _____	If Free Product, thickness: _____
Additional Notations: _____	

Volume Conversion Factor (VCF):  
 $(12 \times (d^2/4) \times \pi) / 231$   
 where  
 12 = in / foot  
 d = diameter (in.)  
 $\pi = 3.1416$   
 231 = in<sup>3</sup>/gal

Well dia.	VCF
2" =	0.16
3" =	0.37
4" =	0.65
6" =	1.47
10" =	4.08
12" =	6.87

_____	X	<u>10</u>	=	_____ gallons
1 Case Volume		Specified Volumes		

- Purging Device:
- |                                       |  |
|---------------------------------------|--|
| <input type="checkbox"/> Bailer       | <input type="checkbox"/> Electric Submersible      |
| <input type="checkbox"/> Suction Pump | <input type="checkbox"/> Positive Air Displacement |

Type of Installed Pump \_\_\_\_\_  
 Other equipment used \_\_\_\_\_

TIME	TEMP (F)	pH	Cond. (mS or $\mu$ S)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
						<u>* insufficient water to purge or develop</u>

Did Well Dewater?	If yes, note above.	Gallons Actually Evacuated:
-------------------	---------------------	-----------------------------

# WELL DEVELOPMENT DATA SHEET

Project #: 120831-GR1	Client: Shell
Developer: GR / BW	Date Developed: 8/31/2012
Well I.D. P-2	Well Diameter: (circle one) ② 3 4 6
Total Well Depth: Before 39.56 After 39.58'	Depth to Water: Before 33.42 After 37.83'
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF): $\{12 \times (d^2/4) \times \pi\} / 231$	Well dia.	VCF
where	2"	= 0.16
12 = in / foot	3"	= 0.37
d = diameter (in.)	4"	= 0.65
$\pi = 3.1416$	6"	= 1.47
231 = in <sup>3</sup> /gal	10"	= 4.08
	12"	= 6.87

<u>1.0</u>	X	<u>10</u>	=	<u>10.0</u>	gallons
I Case Volume		Specified Volumes			

- Purging Device:
- |                                       |   |
|---------------------------------------|---|
| <input type="checkbox"/> Bailer       | <input type="checkbox"/> Electric Submersible                 |
| <input type="checkbox"/> Suction Pump | <input checked="" type="checkbox"/> Positive Air Displacement |

Type of Installed Pump \_\_\_\_\_  
 Other equipment used 2" surge block

TIME	TEMP (F)	pH	Cond. (mS or $\mu$ S)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1215	* Surged well for		15 minutes *			
1236	68.9	7.73	2811	>1000	1.0	Silty
1240	69.0	7.71	2804	>1000	2.0	Hard bottom
1244	68.8	7.78	2409	>1000	3.0	Silty
	* Dewatered @ 3.0 gallons *					DTW 37.78'
1445	* Return to continue development *					DTW 36.04'
1450	68.5	8.02	2452	>1000	4.0	Silty
1458	67.6	8.06	2437	>1000	5.0	
	* Well dewatered @ 5.0 gallons				5.0	DTW-37.83' DTB 39.58'
Did Well Dewater? Yes	If yes, note above.		Gallons Actually Evacuated:		5.0	

# WELL DEVELOPMENT DATA SHEET

Project #: 120831-GR1	Client: Shell
Developer: (GR) / BW	Date Developed: 8/31/2012
Well I.D. SVE-5	Well Diameter: (circle one) 2 3 4 6
Total Well Depth: Before 41.08 After 41.08	Depth to Water: Before 33.83 After 40.15
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):  

$$\{12 \times (d^2/4) \times \pi\} / 231$$
 where  
 12 = in / foot  
 d = diameter (in.)  
 $\pi = 3.1416$   
 231 = in<sup>3</sup>/gal

Well dia.	VCF
2"	= 0.16
3"	= 0.37
4"	= 0.65
6"	= 1.47
10"	= 4.08
12"	= 6.87

<u>4.7</u>	X	<u>10</u>	=	<u>47.0</u>
Case Volume		Specified Volumes		gallons

- Purging Device:
- |                                       |   |
|---------------------------------------|---|
| <input type="checkbox"/> Bailer       | <input type="checkbox"/> Electric Submersible                 |
| <input type="checkbox"/> Suction Pump | <input checked="" type="checkbox"/> Positive Air Displacement |

Type of Installed Pump \_\_\_\_\_  
 Other equipment used 4" Surge block

TIME	TEMP (F)	pH	Cond. (mS or <u>uS</u> )	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1120						surged well for 15 min
1140						start purge w/ MB pump
1147	67.3	6.93	2731	>1000	4.7	Agitated bottom w/ pump some silt; on hard bottom
1157					7.8	well dewatered @ DTW-39.62; TD-41.08
1442						regaug DTW-38.58
1445					<del>8.4</del> 9.4	start purge w/ MB pump silty
1451	67.9	8.09	2337	>1000	9.4	
1451					9.5	well dewatered @ DTW-40.15; TD-41.08
Did Well Dewater? Yes	If yes, note above.		Gallons Actually Evacuated:		9.5	

## WELL DEVELOPMENT DATA SHEET

Project #: <u>120831-GR1</u>	Client: <u>Shell</u>
Developer: <u>GR / (BW)</u>	Date Developed: <u>8/31/2012</u>
Well I.D. <u>MW-1</u>	Well Diameter: (circle one) <u>②</u> 3 4 6
Total Well Depth: Before <u>57.15</u> After <u>57.19'</u>	Depth to Water: Before <u>34.72</u> After <u>54.72</u>
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF): {12 x (d <sup>2</sup> /4) x π} / 231	Well dia.	VCF
where	2" =	0.16
12 = in / foot	3" =	0.37
d = diameter (in.)	4" =	0.65
π = 3.1416	6" =	1.47
231 = in <sup>3</sup> /gal	10" =	4.08
	12" =	6.87

<u>3.5</u>	X	<u>10</u>	=	<u>35.0</u>
I Case Volume		Specified Volumes		gallons

- Purging Device:       Bailer       Electric Submersible
- Suction Pump       Positive Air Displacement

Type of Installed Pump \_\_\_\_\_

Other equipment used 2" surge block

TIME	TEMP (F)	pH	Cond. (mS or μS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1010	* Surged	well for	20 min.	20ft. screen	*	
1050	69.0	7.31	1670	71000	3.5 gal	Brown-silty sand
1100	69.1	7.38	1697	931	7.0	Hard bottom
1110	70.3	7.58	1596	898	10.5	Clearing
	* Well dewatered @ 11.0 gallons *				11.0	DTW-54.83'
1355	* Return to resume development *					DTW-41.62'
1405	69.6	7.42	1862	352	14.0	Clearing
1415	69.2	7.32	1733	103	17.5	
	* Well dewatered @ 18.0 gallons *				18.0	DTW-54.72' DTB-57.1'
Did Well Dewater? Yes		If yes, note above.		Gallons Actually Evacuated:		18.0

## WELL DEVELOPMENT DATA SHEET

Project #: <u>120831-GR1</u>	Client: <u>Shell</u>
Developer: <u>GR / BW</u>	Date Developed: <u>8/31/2012</u>
Well I.D. <u>MW-41</u>	Well Diameter: (circle one) 2 3 <u>(4)</u> 6
Total Well Depth: Before <u>46.77</u> After <u>46.77</u>	Depth to Water: Before <u>33.77</u> After <u>41.89</u>
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF): $(12 \times (d^2/4) \times \pi) / 231$ where 12 = in / foot d = diameter (in.) $\pi = 3.1416$ 231 = in <sup>3</sup> /gal	<table border="0" style="width: 100%;"> <tr> <th style="text-align: left;">Well dia.</th> <th style="text-align: left;">VCF</th> </tr> <tr> <td>2" =</td> <td>0.16</td> </tr> <tr> <td>3" =</td> <td>0.37</td> </tr> <tr> <td>4" =</td> <td>0.65</td> </tr> <tr> <td>6" =</td> <td>1.47</td> </tr> <tr> <td>10" =</td> <td>4.08</td> </tr> <tr> <td>12" =</td> <td>6.87</td> </tr> </table>	Well dia.	VCF	2" =	0.16	3" =	0.37	4" =	0.65	6" =	1.47	10" =	4.08	12" =	6.87
Well dia.	VCF														
2" =	0.16														
3" =	0.37														
4" =	0.65														
6" =	1.47														
10" =	4.08														
12" =	6.87														

<u>8.4</u>	X	<u>10</u>	=	<u>84.0</u>
1 Case Volume		Specified Volumes		gallons

Purging Device:                       Bailer                                       Electric Submersible  
     Suction Pump                                       Positive Air Displacement

Type of Installed Pump \_\_\_\_\_  
 Other equipment used 4" Surge block

TIME	TEMP (F)	pH	Cond. (mS or $\mu$ S)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1210						Surged well for 15 min
1230						Start purge w/ MB pump
1242	68.5	6.43	897.5	>1000	8.4	Agitated bottom w/ pump silty ; on hard bottom
1251	68.5	6.97	949.4	1000	16.8	
1257					17.0	well dewatered @ DTW-42.81, TD=46.77
1455						regauge DTW - 34.89
1458					<del>25.2</del> (GR)	Start purge w/ MB pump Agitated bottom w/ pump
1506	71.0	6.61	933.6	364	25.2	
1523	70.2	7.31	941.6	327	33.6	
1524					34.0	well dewatered DTW-41.89 ; TD 46.77
Did Well Dewater? <u>Yes</u>		If yes, note above.		Gallons Actually Evacuated:		<u>34.0</u>

# WELL DEVELOPMENT DATA SHEET

Project #: <u>120831-GR1</u>	Client: <u>Shell</u>
Developer: <u>GR / (BW)</u>	Date Developed: <u>8/31/2012</u>
Well I.D. <u>OB5-1</u>	Well Diameter: (circle one) <u>2</u> <u>3</u> <u>4</u> <u>6</u>
Total Well Depth: Before <u>47.23</u> After <u>47.26'</u>	Depth to Water: Before <u>33.50</u> After <u>45.18'</u>
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF): {12 x (d <sup>2</sup> /4) x π} / 231 where 12 = in / foot d = diameter (in.) π = 3.1416 231 = in <sup>3</sup> /gal	Well dia.      VCF 2"      =      0.16 3"      =      0.37 4"      =      0.65 6"      =      1.47 10"     =      4.08 12"     =      6.87
--	--

<u>8.9</u> 1 Case Volume	X	<u>10</u> Specified Volumes	=	<u>89.0</u> gallons
-----------------------------	---	--------------------------------	---	------------------------

- Purging Device:       Bailer                                       Electric Submersible  
                                  Suction Pump                                       Positive Air Displacement

Type of Installed Pump \_\_\_\_\_

Other equipment used 4" Surge block

TIME	TEMP (F)	pH	Cond. (mS or <u>μS</u> )	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1120	* surged	well for	15 minutes	*		
1150	69.5	7.45	2384	71000	9.0	Hard bottom
1205	69.2	7.53	2397	722	18.0	Clearing
						* Dewatered @ 19.0 gallons *
1425						* Return to continue development *
						DTW 42.10'
1435	69.9	7.65	2380	110	22.5	
						* Dewatered @ 23.0 gallons *
						DTW 45.18' - DTB 47.26'
Did Well Dewater? <u>Yes</u>			If yes, note above.		Gallons Actually Evacuated: <u>23.0</u>	

INCIDENT #

98995850

ADDRESS

4212 First St.

DATE:

8/31/2012

CITY & STATE

Pleasanton, CA

Well ID	Observations Upon Arrival				Well Labeled / Painted Properly	Well Cap (Gripper) Condition	Well Lock Condition	Well Pad / Surface Condition	Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition	Repair Date and PM Initials									
	Manway Cover	Type	Condition	Size (inch)																
AS-1	Standpipe	Flush	G	P	12	Y	N	G	R	G	R	NL	G	P	-labeled well pad	Y	N			
EW-1	Standpipe	Flush	G	P	12	Y	N	G	R	G	R	NL	G	P		Y	N			
EW-2	Standpipe	Flush	G	P	12	Y	N	G	R	G	R	NL	G	P		Y	N			
P-1	Standpipe	Flush	G	P	12	Y	N	G	R	G	R	NL	G	P		Y	N			
P-2	Standpipe	Flush	G	P	12	Y	N	G	R	G	R	NL	G	P	-labeled well pad	Y	N			
SVE-5	Standpipe	Flush	G	P	12	Y	N	G	R	G	R	NL	G	P		Y	N			
MW-1	Standpipe	Flush	G	P	12	Y	N	G	R	G	R	NL	G	P		Y	N			
MW-4	Standpipe	Flush	G	P	12	Y	N	G	R	G	R	NL	G	P		Y	N			
OBS-1	Standpipe	Flush	G	P	12	Y	N	G	R	G	R	NL	G	P	-labeled well pad	Y	N			
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N			
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N			
TOTAL # CAPS REPLACED =						0	TOTAL # OF LOCKS REPLACED						6							
Condition of Soil Borings/Patches of Abandoned Monitoring Wells				G	P	N/A	If Poor, Borings/Well IDs or Location Description						Y	N						
Remediation Compound Type (Check boxes that apply)				Condition of Enclosure			Condition of Area Inside Enclosure			Compound Security			Emergency Contact Info Visible			Cleaning / Repairs Recommended and Conducted			Photos of Condition	Repair Date and PM Initials
NA Building																				
Building w/ Fence Comp.				G P N/A			G P N/A			G P N/A			Y N N/A						Y	N
Fenced Compound																				
Trailer																				
Number of Drums On-site		Does the Label Reveal the Source of the Contents		Labeled Correctly and Writing Legible			Drum Condition			Confirm Drums Related to Environmental		Drums Located to Min Business Interference			Detailed Explanation of Any Issues Resolved			Photos of Drum Condition	Date Drums Removed from Site and PM Initials	
30		Y N N/A		Y N N/A			G P N/A			Y N		Y N N/A						Y	N	

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

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

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

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

Gregory Roberts, Blaine Tech Services  
 Print or type Name of Field Personnel & Consultant Company



# WELL GAUGING DATA

Project # 120904-PC1 Date 9/4/12 Client STELL

Site 4212 First St., Pleasanton

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or <u>TOC</u>	Notes
AS-1	1104	2					35.08	48.02	↓	
<del>EW-2</del> H02	0810	4					34.16	42.01		
P-2	1130	2					34.00	39.62		
SVE-5	0842	4					35.30	41.11		
MW-1	1200	2					31.31	57.28		
MW-4	1010	4					34.18	46.81		
OBS-1	0916	4					35.18	47.51		

# WELL DEVELOPMENT DATA SHEET

Project #: 120904-PC1	Client: Shell
Developer: PC	Date Developed: 9/4/12
Well I.D. AS-1	Well Diameter: (circle one) <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6
Total Well Depth: Before 48.02 After 48.04	Depth to Water: Before 35.08 After 17.29
Reason not developed:	If Free Product, thickness:
Additional Notations: Well surged for 10 min. prior to purge.	

Volume Conversion Factor (VCF): $\{12 \times (d^2/4) \times \pi\} / 231$ where 12 = in / foot d = diameter (in.) $\pi = 3.1416$ 231 = in <sup>3</sup> /gal	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well dia.</th> <th>VCF</th> </tr> </thead> <tbody> <tr><td>2" =</td><td>0.16</td></tr> <tr><td>3" =</td><td>0.37</td></tr> <tr><td>4" =</td><td>0.65</td></tr> <tr><td>6" =</td><td>1.47</td></tr> <tr><td>10" =</td><td>4.08</td></tr> <tr><td>12" =</td><td>6.87</td></tr> </tbody> </table>	Well dia.	VCF	2" =	0.16	3" =	0.37	4" =	0.65	6" =	1.47	10" =	4.08	12" =	6.87
Well dia.	VCF														
2" =	0.16														
3" =	0.37														
4" =	0.65														
6" =	1.47														
10" =	4.08														
12" =	6.87														

2.1	X	10	=	21	gallons
1 Case Volume		Specified Volumes			

- Purging Device:
- |                                       |   |
|---------------------------------------|---|
| <input type="checkbox"/> Bailer       | <input type="checkbox"/> Electric Submersible                 |
| <input type="checkbox"/> Suction Pump | <input checked="" type="checkbox"/> Positive Air Displacement |

Type of Installed Pump \_\_\_\_\_  
 Other equipment used 2" surge block

TIME	TEMP (F)	pH	Cond. (mS or $\mu$ S)	TURBIDITY (NTUs)	VOLUME REMOVED:	(46) DTW: NOTATIONS:
1108	69.0	7.68	958.4	>1000	2.1 gal	43.39 brown, silty
1116	68.6	7.37	1003	>1000	4.2	44.14 " "
1120	Well dewatered @ 5 gal					↳ to top of Pump
1244		DTW: 35.88		start Purge		
1302	71.9	7.76	952.9	776	6.3	38.61 brown.
1306	72.0	7.11	907.7	>1000	8.4	44.14 → top of Pump
1309	well dewatered @ 9 gal					
Did Well Dewater? <u>Y</u>	If yes, note above.			Gallons Actually Evacuated: <u>9</u>		

## WELL DEVELOPMENT DATA SHEET

Project #: 120904-PC1	Client: SLO
Developer: PC	Date Developed: 9/24/12
Well I.D. EU-2	Well Diameter: (circle one) 2 3 <b>4</b> 6
Total Well Depth: Before 42.01 After 42.00	Depth to Water: Before 34.16 After 41.61
Reason not developed:	If Free Product, thickness:
Additional Notations: Well Surged for 10 min. prior to Purge	

Volume Conversion Factor (VCF): {12 x (d <sup>2</sup> /4) x π} / 231	Well dia.	VCF
where	2" =	0.16
12 = in / foot	3" =	0.37
d = diameter (in.)	4" =	0.65
π = 3.1416	6" =	1.47
231 = in <sup>3</sup> /gal	10" =	4.08
	12" =	6.87

5.1	X	10	=	51	gallons
1 Case Volume		Specified Volumes			

- Purging Device:
- |                                       |   |
|---------------------------------------|---|
| <input type="checkbox"/> Bailer       | <input type="checkbox"/> Electric Submersible                 |
| <input type="checkbox"/> Suction Pump | <input checked="" type="checkbox"/> Positive Air Displacement |

Type of Installed Pump \_\_\_\_\_  
 Other equipment used 4" surge block

TIME	TEMP (F)	pH	Cond. (mS or μS)	TURBIDITY (NTUs)	VOLUME REMOVED:	(ft.) DTW:	NOTATIONS:
0815	67.6	6.22	1565	21000	5.1 gal	37.41	brown, silty
0821	well dewatered				9 gal		
1526			NTU: 37.38				
1530	75.0	7.27	1494	154	10.2	38.94	clear
1536	well dewatered @ 14 gal						
Did Well Dewater? <b>Y</b>	If yes, note above.			Gallons Actually Evacuated: <b>14</b>			

# WELL DEVELOPMENT DATA SHEET

Project #: 120904-PC1	Client: Shell
Developer: PC	Date Developed: 9/4/12
Well I.D. P-2	Well Diameter: (circle one) <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6
Total Well Depth: Before 39.62 After 39.65	Depth to Water: Before 34.00 After 39.29
Reason not developed:	If Free Product, thickness:
Additional Notations: Well surged for 10 min. prior to purge.	

Volume Conversion Factor (VCF): $(12 \times (d^2/4) \times \pi) / 231$	Well dia.	VCF
where	2"	= 0.16
12 = in / foot	3"	= 0.37
d = diameter (in.)	4"	= 0.65
$\pi = 3.1416$	6"	= 1.47
231 = in <sup>3</sup> /gal	10"	= 4.08
	12"	= 6.87

<u>0.9</u>	X	<u>10</u>	=	<u>9</u>	gallons
I Case Volume		Specified Volumes			

- Purging Device:       Bailer       Electric Submersible  
 Suction Pump       Positive Air Displacement

Type of Installed Pump \_\_\_\_\_  
 Other equipment used 2" surge Block

TIME	TEMP (F)	pH	Cond. (mS or $\mu$ S)	TURBIDITY (NTUs)	VOLUME REMOVED:	(FL) DTW: NOTATIONS:
1134	69.9	6.95	2151	>1000	0.9 gal	36.20 thick brack, silty ↳ to top of Pump
1139	70.4	6.78	2110	>1000	1.8	" " " " silty brown
						well dewatered @ 1.9 gal
1315						DTW: <del>35.98</del> 35.98'
1322	75.9	8.07	1948	>1000	2.7	36.20 top of Pump
						Well dewatered @ 2.9 gal
Did Well Dewater? <input checked="" type="checkbox"/>		If yes, note above.		Gallons Actually Evacuated: <u>2.1</u>		

# WELL DEVELOPMENT DATA SHEET

Project #: <u>120404-PC1</u>	Client: <u>Shell</u>
Developer: <u>PC</u>	Date Developed: <u>9/4/12</u>
Well I.D. <u>5VE-5</u>	Well Diameter: (circle one) 2 3 <u>4</u> 6
Total Well Depth: Before <u>41.11</u> After <u>41.15</u>	Depth to Water: Before <u>35.30</u> After <u>40.96</u>
Reason not developed:	If Free Product, thickness:
Additional Notations: <u>Well Surged for 10 min. Prior to Purge.</u>	

Volume Conversion Factor (VCF):  
 $(12 \times (d^2/4) \times \pi) / 231$   
 where  
 12 = in / foot  
 d = diameter (in.)  
 $\pi = 3.1416$   
 231 = in<sup>3</sup>/gal

Well dia.	=	VCF
2"	=	0.16
3"	=	0.37
4"	=	0.65
6"	=	1.47
10"	=	4.08
12"	=	6.87

<u>3.8</u>	X	<u>10</u>	=	<u>38</u>	gallons
1 Case Volume		Specified Volumes			

- Purging Device:
- Bailer
  - Suction Pump
  - Electric Submersible
  - Positive Air Displacement

Type of Installed Pump \_\_\_\_\_  
 Other equipment used 4" Surge Block

TIME	TEMP (F)	pH	Cond. (mS or $\mu$ S)	TURBIDITY (NTUs)	VOLUME REMOVED:	(ft) DTW:	NOTATIONS:
0847	66.1	7.75	1020	71000	3.8 gal	37.35	Brown, silty
0852	Well dewatered				5 gal		
1242			DTW: 38.51				
1512			DTW: 38.20				
1520	77.1	8.18	1420	752	76		
1522		well dewatered @ 7.9 gal				42.21	cloudy

Did Well Dewater? <u>Y</u>	If yes, note above.	Gallons Actually Evacuated: <u>79</u>
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# WELL DEVELOPMENT DATA SHEET

Project #: <u>120904-PC1</u>	Client: <u>Shell</u>
Developer: <u>PC</u>	Date Developed: <u>9/4/12</u>
Well I.D. <u>MW-1</u>	Well Diameter: (circle one) <u>(2)</u> 3 4 6
Total Well Depth: Before <u>57.28</u> After <u>57.31</u>	Depth to Water: Before <u>31.31</u> After <u>57.02</u>
Reason not developed:	If Free Product, thickness:
Additional Notations: <u>Well surged for 10min prior to purge</u>	

Volume Conversion Factor (VCF): $(12 \times (d^2/4) \times \pi) / 231$	Well dia.	VCF
where	2"	= 0.16
12 = in / foot	3"	= 0.37
d = diameter (in.)	4"	= 0.65
$\pi = 3.1416$	6"	= 1.47
231 = in <sup>3</sup> /gal	10"	= 4.08
	12"	= 6.87

<u>4.2</u>	X	<u>10</u>	=	<u>42</u>
1 Case Volume		Specified Volumes		gallons

Purging Device:       Bailer                                       Electric Submersible  
                                   Suction Pump                                       Positive Air Displacement

Type of Installed Pump \_\_\_\_\_  
 Other equipment used 2" Surge Block

TIME	TEMP (F)	pH	Cond. (mS or <u>µS</u> )	TURBIDITY (NTUs)	VOLUME REMOVED:	(DL) DTW: NOTATIONS:
<u>1205</u>	<u>69.7</u>	<u>6.44</u>	<u>1636</u>	<u>&gt;2000</u>	<u>4.2 gal</u>	<u>45.60 brown, silty</u>
<u>1214</u>	<u>69.8</u>	<u>6.36</u>	<u>1633</u>	<u>451</u>	<u>8.4</u>	<u>49.61 " "</u>
<u>1218</u>	<u>well dewatered</u>				<u>9</u>	<u>53.81' to top of pump</u>
<u>1338</u>			<u>DTW = 45.68'</u>			
<u>1352</u>	<u>71.4</u>	<u>7.08</u>	<u>1783</u>	<u>177</u>	<u>12.6</u>	<u>52.60 cloudy</u>
<u>1356</u>		<u>well dewatered</u>			<u>@ 13.5 gal</u>	

Did Well Dewater? <u>Y</u>	If yes, note above.	Gallons Actually Evacuated: <u>13.5</u>
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# WELL DEVELOPMENT DATA SHEET

Project #: 120904-PCU	Client: Shell
Developer: PC	Date Developed: 9/4/12
Well I.D. MW-4	Well Diameter: (circle one) 2 3 <u>4</u> 6
Total Well Depth: Before 46.81 After 46.82	Depth to Water: Before 34.18 After 46.51
Reason not developed:	If Free Product, thickness:

Additional Notations: Well Surged for 10 min prior to purge

Volume Conversion Factor (VCF): (12 x (d <sup>2</sup> /4) x π) / 231	Well dia.	VCF
where	2"	= 0.16
12 = in / foot	3"	= 0.37
d = diameter (in.)	4"	= 0.65
π = 3.1416	6"	= 1.47
231 = in <sup>3</sup> /gal	10"	= 4.08
	12"	= 6.87

<u>8.2</u>	X	<u>10</u>	=	<u>82</u>
1 Case Volume		Specified Volumes		gallons

- Purging Device:
- Bailer
  - Electric Submersible
  - Suction Pump
  - Positive Air Displacement

Type of Installed Pump \_\_\_\_\_  
 Other equipment used 4" surge block

TIME	TEMP (F)	pH	Cond. (mS or $\mu$ S)	TURBIDITY (NTUs)	VOLUME REMOVED:	(ft) DTW:	NOTATIONS:
1015	68.5	7.10	852.0	723	8.2 gal	39.02	cloudy
1033	67.7	6.62	876.7	439	16.4	40.68	"
1039	Well dewatered				20		
1406	DTW: 35.01						
1424	71.4	7.51	873.2	122	24.6	38.72	cloudy
1433	76.0	7.45	889.7	162	32.8	40.40	"
1443	Well dewatered @ 40 gal						

Did Well Dewater? <u>Y</u>	If yes, note above.	Gallons Actually Evacuated: <u>40</u>
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## WELL DEVELOPMENT DATA SHEET

Project #: <u>170904-PC1</u>	Client: <u>Shell</u>
Developer: <u>PC</u>	Date Developed: <u>9/4/12</u>
Well I.D. <u>035-1</u>	Well Diameter: (circle one) 2 3 <u>4</u> 6
Total Well Depth: Before <u>47.51</u> After <u>47.52</u>	Depth to Water: Before <u>35.18</u> After <u>47.19</u>
Reason not developed:	If Free Product, thickness:
Additional Notations: <u>well surged for 10 min. prior to Purge.</u>	

Volume Conversion Factor (VCF):  
 $(12 \times (d^2/4) \times \pi) / 231$   
 where  
 12 = in / foot  
 d = diameter (in.)  
 $\pi = 3.1416$   
 231 = in<sup>3</sup>/gal

Well dia.	=	VCF
2"	=	0.16
3"	=	0.37
4"	=	0.65
6"	=	1.47
10"	=	4.08
12"	=	6.87

<u>8.0</u>	X	<u>10</u>	=	<u>80</u>
1 Case Volume		Specified Volumes		gallons

- Purging Device:       Bailer       Electric Submersible
- Suction Pump       Positive Air Displacement

Type of Installed Pump \_\_\_\_\_

Other equipment used 4" surge block

TIME	TEMP (F)	pH	Cond. (mS or <u>μS</u> )	TURBIDITY (NTUs)	VOLUME REMOVED:	( <u>ft</u> ) DTW:	NOTATIONS:
0919	69.8	6.83	2133	968	8 gal	42.02	brown, cloudy
0932	Well dewatered				12 gal		
1451			DTW: 42.89'				
1503	73.1	7.60	2121	61	16	46.82	clear
		Well dewatered @			6.8 gal		

Did Well Dewater? Y      If yes, note above.      Gallons Actually Evacuated: 16.8



INCIDENT # 98995840

ADDRESS 4212 First St., Pleasanton

DATE: 9/4/12

CITY & STATE Pleasanton, CA

Well ID	Observations Upon Arrival														Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition	Repair Date and PM Initials	
	Manway Cover, Type, Condition & Size					Well Labeled / Painted Properly		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition					
AS-1	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N	
EW-2	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N	
P-2	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N	
SWE-5	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-1	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-4	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N	
OBS-1	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
TOTAL # CAPS REPLACED =								3					0	= TOTAL # OF LOCKS REPLACED				
Condition of Soil Boring Patches or Abandoned Monitoring Wells:		G	P	N/A	IF POOR, Borings/Well IDs or Location Description:												Y	N
Remediation Compound Type (Check boxes that apply)		Condition of Enclosure			Condition of Area Inside Enclosure			Compound Security			Emergency Contact Info Visible			Cleaning / Repairs Recommended and Conducted			Photos of Condition	Repair Date and PM Initials
NA		X																
Building																		
Building w/ Fence Comp.		G	P	N/A	G	P	N/A	G	P	N/A	Y	N	N/A				Y	N
Fenced Compound																		
Trailer																		
Number of Drums On-site	Does the Label Reveal the Source of the Contents	Labeled Correctly and Writing Legible			Drum Condition			Confirm Drums Related to Environmental		Drums Locked to Min Business Interference			Detailed Explanation of Any Issues Resolved			Photos of Drum Condition	Date Drums Removed from Site and PM Initials	
30	Y N N/A	Y	N	N/A	G	P	N/A	Y	N	Y	N	N/A				Y	N	

G = Good (Acceptable) R = Replaced  
 P = Poor (needs attention) NL = No Lock Required  
 Note: All repairs other than locks and grippers require Shell PM approval prior to repair.

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

Pete Cornish, BTS

## WELL GAUGING DATA

Project # 120907-DRI Date 9/7/12 Client Shell

Site 4212 First St. Pleasanton Ca.

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-1	0815	2					35.82	57.18		
MW-1B	0758	4					102.45	107.88		
MW-2	0810	4					33.32	45.85		
MW-3	0804	4					32.66	34.60		
MW-4	0819	4					34.55	48.65		
AS-1	0821	2					34.55	47.89		
EW-1	0800	4					DRY	21.74		
EW-2	0811	4					35.02	41.96		
SVE-5	0816	4					36.20	41.09		
P-1	0808	2					DRY	19.59		
P-2	0805	2					34.61	39.56	✓	

# SHELL WELL MONITORING DATA SHEET

BTS #: 120907-DR1	Site: 4212 First St. Pleasanton Ca.
Sampler: DR/PH	Date: 9/7/12
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8
Total Well Depth (TD): 57.18	Depth to Water (DTW): 35.82
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVE) Grade	D.O. Meter (if req'd): (YST) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 42.09	

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: \_\_\_\_\_

$$\frac{3.4 \text{ (Gals.)} \times 3 \text{ Specified Volumes}}{1 \text{ Case Volume}} = 10.2 \text{ Gals. Calculated Volume}$$

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

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations
0945	67.3	6.3	1812	138	3.5	
<del>Reinstated @ 6 gal/hr</del>						
1150	70.9	6.9	1715	76	-	Fe <sup>2+</sup> = 0 mg/L

Did well dewater? (Yes) No      Gallons actually evacuated: 6

Sampling Date: 9/7/12      Sampling Time: 1150      Depth to Water: 32.48

Sample I.D.: MW-1      Laboratory: (Test America) Other \_\_\_\_\_

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

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

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	1.21	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	96	mV

# SHELL WELL MONITORING DATA SHEET

BTS #: 120907-DR1	Site: 4212 First St. Pleasanton Ca.
Sampler: DR/PH	Date: 9/7/12
Well I.D.: MW-1B	Well Diameter: 2 3 4 6 8
Total Well Depth (TD): 107.88	Depth to Water (DTW): 102.45
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 103.93	

Purge Method: Bailer      Waterra      Sampling Method: Bailer

Disposable Bailer      Peristaltic      Disposable Bailer

Positive Air Displacement      Extraction Pump      Extraction Port

Electric Submersible      Other \_\_\_\_\_      Dedicated Tubing

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

$3.5 \text{ (Gals.)} \times 3 = 10.6 \text{ Gals.}$	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														
1 Case Volume      Specified Volumes      Calculated Volume																	

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations
0830	67.4	6.4	1133	>1000	3.5	
						dewatered @ 3.5 gallons
1015	70.3	7.3	1157	>1000	-	Fe <sup>2+</sup> = 0 mg/L

Did well dewater?  Yes      No      Gallons actually evacuated: 3.5

Sampling Date: 9/7/12      Sampling Time: 1015      Depth to Water: 103.25

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

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

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

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	1.54	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	204	mV

# SHELL WELL MONITORING DATA SHEET

BTS #: 120907-DR1	Site: 4212 First St. Pleasanton Ca.
Sampler: DR/PH	Date: 9/7/12
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8
Total Well Depth (TD): 45.85	Depth to Water (DTW): 33.22
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>EVE</u> Grade	D.O. Meter (if req'd): <u>YST</u> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 35.82	

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

$\underline{8.1} \text{ (Gals.)} \times \underline{3} = \underline{24.4} \text{ Gals.}$	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														
I Case Volume	Specified Volumes	Calculated Volume															

Time	Temp (°F)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
0926	67.4	6.5	928	12	8.5	
<i>Decontam @ 15 gallon</i>						
1135	68.2	6.9	947	7	—	
						Fe <sup>2+</sup> = 0.4 mg/L

Did well dewater?  Yes    No    Gallons actually evacuated: 15.0

Sampling Date: 9/7/12    Sampling Time: 1135    Depth to Water: 40.81 (2 hr.)

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

Analyzed for: TPH-G    BTEX    MTBE    TPH-D    Oxygenates (S)    Other: Sec CoC

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

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

D.O. (if req'd):	Pre-purge:	$\text{mg/L}$	Post-purge:	1.75	$\text{mg/L}$
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	68	mV

# SHELL WELL MONITORING DATA SHEET

BTS #: 120907-DR1	Site: 4212 First St. Pleasanton Ca.
Sampler: DR/PH	Date: 9/7/12
Well I.D.: NW-3	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 34.60	Depth to Water (DTW): 32.66
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>EVE</u> Grade	D.O. Meter (if req'd): <u>YST</u> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 33.04	

Purge Method: <u>Bailer</u> Disposable Bailer Positive Air Displacement Electric Submersible	Waterra Peristaltic Extraction Pump Other _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
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$1.3 \text{ (Gals.)} \times 3 = 3.8 \text{ Gals.}$ 1 Case Volume      Specified Volumes      Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
0907	67.0	6.42	805	27	1.5	
						resuspended @ 1.5 gallon
1030	69.0	6.6	775	76	—	Fe <sub>2+</sub> = 1 mg/L

Did well dewater?  Yes    No    Gallons actually evacuated: 1.5

Sampling Date: 9/7/12    Sampling Time: 1030    Depth to Water: 32.90

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

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

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

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	1.06 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	-10 mV

## SHELL WELL MONITORING DATA SHEET

BTS #: <u>R20707-DR1</u>	Site: <u>4212 First St. Pleasanton, Ca.</u>
Sampler: <u>DR/PH</u>	Date: <u>9/7/12</u>
Well I.D.: <u>MW-4</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth (TD): <u>48.65</u>	Depth to Water (DTW): <u>34.55</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVE</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>37.37</u>	

Purge Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input checked="" type="checkbox"/> Electric Submersible	Water: <input type="checkbox"/> Peristaltic <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port <input type="checkbox"/> Dedicated Tubing Other: _____
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$\frac{9.1 \text{ (Gals.)} \times 3}{1 \text{ Case Volume Specified Volumes}} = \frac{27.5 \text{ Gals.}}{\text{Calculated Volume}}$	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
<u>1002</u>	<u>69.5</u>	<u>6.9</u>	<u>1081</u>	<u>83</u>	<u>2.5</u>	
						<u>De-aerated @ 16 gallons</u>
<u>1155</u>	<u>70.7</u>	<u>7.2</u>	<u>1104</u>	<u>22</u>	<u>-</u>	
						<u>Fe<sup>2+</sup> = 0 mg/L</u>

Did well dewater?  Yes    No    Gallons actually evacuated: 16

Sampling Date: 9/7/12    Sampling Time: 1155    Depth to Water: 35.24

Sample I.D.: MW-4    Laboratory: Test America    Other: \_\_\_\_\_

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

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

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

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

## SHELL WELL MONITORING DATA SHEET

BTS #: 120907-DR1	Site: 4212 First St. Pleasanton Ca.
Sampler: DR/PH	Date: 9/7/12
Well I.D.: AS-1	Well Diameter: <input checked="" type="radio"/> 2    3    4    6    8    _____
Total Well Depth (TD): 47.89	Depth to Water (DTW): 34.55
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="radio"/> PVC    Grade	D.O. Meter (if req'd): <input checked="" type="radio"/> YSI    HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 37.22	

Purge Method: <input checked="" type="radio"/> Bailer <input type="radio"/> Disposable Bailer <input type="radio"/> Positive Air Displacement <input type="radio"/> Electric Submersible	Waterra <input type="radio"/> Peristaltic <input type="radio"/> Extraction Pump Other: _____	Sampling Method: <input checked="" type="radio"/> Bailer <input type="radio"/> Disposable Bailer <input type="radio"/> Extraction Port <input type="radio"/> Dedicated Tubing Other: _____
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$\underline{2.1} \text{ (Gals.)} \times \underline{3} = \underline{6.3} \text{ Gals.}$ I Case Volume                      Specified Volumes                      Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations
0947	66.5	7.00	1021	>1000	2.1	
0952	67.3	6.78	1010	>1000	4.2	
0958	67.5	6.79	1006	71000	6.3	DTW = 47.69
						Fe <sub>2+</sub> = 0.2 mg/L

Did well dewater?    Yes     No                      Gallons actually evacuated: 6.3

Sampling Date: 9/7/12                      Sampling Time: 1105                      Depth to Water: 36.75

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

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

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

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

D.O. (if req'd):	Pre-purge:	mg/L	<input checked="" type="radio"/> Post-purge:	1.17	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	<input checked="" type="radio"/> Post-purge:	187	mV



# SHELL WELL MONITORING DATA SHEET

BTS #: 120907-DR1	Site: 4212 First St. Pleasanton Ca.
Sampler: DR/PH	Date: 9/7/12
Well I.D.: EW-1	Well Diameter: 2 3 4 6 8
Total Well Depth (TD): 21.74	Depth to Water (DTW): DRY
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVE</u> Grade	D.O. Meter (if req'd): <u>YST</u> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

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: \_\_\_\_\_

(Gals.) X <u>3</u>	Gals.	
I Case Volume	Specified Volumes	Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	Gals. Removed	Observations
						* Well is dry

Did well dewater?    Yes    No      Gallons actually evacuated:

Sampling Date: 9/7/12      Sampling Time:      Depth to Water:

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

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

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

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

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

# SHELL WELL MONITORING DATA SHEET

BTS #: 120907-DR1	Site: 4212 First St. Pleasanton Ca.
Sampler: DR/PH	Date: 9/7/12
Well I.D.: EW-2	Well Diameter: 2 3 4 6 8
Total Well Depth (TD): 41.96	Depth to Water (DTW): 35.02
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 36.41	

Purge Method: <u>Bailer</u> Disposable Bailer Positive Air Displacement <del>Electric Submersible</del>	Waterra Peristaltic Extraction Pump Other:	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Dedicated Tubing Other:
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4.5 (Gals.) X 3 = 13.5 Gals. 1 Case Volume      Specified Volumes      Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations
0909	66.3	6.99	1301	>1000	4.5	
0916	67.1	7.46	1377	>1000	9.0	
* Well dewatered @ 9.5 gal.						
1116	66.5	7.22	1386	412	—	
						Fe <sup>2+</sup> = 0 mg/L

Did well dewater?  Yes    No    Gallons actually evacuated: 9.5

Sampling Date: 9/7/12    Sampling Time: 1116    Depth to Water: 39.10 (2 hours)

Sample I.D.: EW-2    Laboratory: Test America    Other:

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

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

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

D.O. (if req'd):	Pre-purge:		mg/L	Post-purge:		mg/L
					1.83	
O.R.P. (if req'd):	Pre-purge:		mV	Post-purge:		mV
					166	

# SHELL WELL MONITORING DATA SHEET

BTS #: 120907-DR1	Site: 4212 First St. Pleasanton Ca.
Sampler: DR/PH	Date: 9/7/12
Well I.D.: SVE-5	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 41.09	Depth to Water (DTW): 36.20
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVE</u> Grade	D.O. Meter (if req'd): <u>YST</u> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 34.18	

Purge Method: <u>Bailer</u> Disposable Bailer Positive Air Displacement Electric Submersible	Waterra Peristaltic Extraction Pump Other _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
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$$\underline{3.2} \text{ (Gals.)} \times \underline{3} = \underline{9.6} \text{ Gals.}$$
 I Case Volume      Specified Volumes      Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	Gals. Removed	Observations
0930	65.1	7.07	1382	>1000	3.2	
<del>Well</del>	dewatered @		5.2 gal.			
1130	67.1	7.20	1394	>1000	—	
						Fe <sup>2+</sup> = 0 mg/L

Did well dewater? Yes No      Gallons actually evacuated: 5.2  
 Sampling Date: 9/7/12      Sampling Time: 1130      Depth to Water: 38.84 (2hr.)

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

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

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

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	1.49 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	180 mV

# SHELL WELL MONITORING DATA SHEET

BTS #: 120907-DR1	Site: 4212 First St. Pleasanton Ca.
Sampler: DR/PH	Date: 9/7/12
Well I.D.: P-1	Well Diameter: 2 3 4 6 8
Total Well Depth (TD): 19.59	Depth to Water (DTW): DRY
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer Disposable Bailer Positive Air Displacement Electric Submersible	Water Peristaltic Extraction Pump Other	Sampling Method: Bailer Disposable Bailer Extraction Port Dedicated Tubing Other:
--	--	---

_____ (Gals.) X <u>3</u> = _____ Gals. 1 Case Volume      Specified Volumes      Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	Gals. Removed	Observations
						* Well is dry.

Did well dewater?    Yes    No                      Gallons actually evacuated:

Sampling Date: 9/7/12                      Sampling Time:                      Depth to Water:

Sample I.D.: P-1                                      Laboratory: Test America Other:

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

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

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

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

# SHELL WELL MONITORING DATA SHEET

BTS #: 120907-DR1	Site: 4212 First St. Pleasanton Ca.
Sampler: DR/PH	Date: 9/7/12
Well I.D.: P-2	Well Diameter: ② 3 4 6 8
Total Well Depth (TD): 39.56	Depth to Water (DTW): 34.61
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 35.60	

Purge Method: Bailer

Disposable Bailer       Waterra Peristaltic  
 Positive Air Displacement       Extraction Pump  
 Electric Submersible       Other \_\_\_\_\_

Sampling Method: Bailer  
 Disposable Bailer  
 Extraction Port  
 Dedicated Tubing  
 Other: \_\_\_\_\_

$\frac{0.8 \text{ (Gals.)} \times 3 \text{ Specified Volumes}}{1 \text{ Case Volume}} = 2.4 \text{ Gals. Calculated Volume}$	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations
0844	68.2	6.62	1679	>1000	0.8	
0847	67.5	6.78	1768	>1000	1.6	
* Well	dewatered @		1.8 gal.			
1035	67.2	6.80	1714	224	—	
						Fe <sup>2+</sup> = 0 mg/L

Did well dewater? Yes No      Gallons actually evacuated: 1.8

Sampling Date: 9/7/12      Sampling Time: 1035      Depth to Water: 35.54

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

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

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

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	1.62 mg/L
D.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	193 mV

INCIDENT # 10792840

ADDRESS 4212 First St.

DATE: 9/7/12

CITY & STATE Pleasanton Ca.

Well ID	Observations Upon Arrival														Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials
	Manway Cover, Type, Condition & Size					Well Labeled / Painted Property*		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition			Note Repairs Made	Y	
MW-1	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P				Y
MW-1B	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-2	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-3	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-4	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N	
AS-1	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N	
EW-1	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P	Annular Seal has sunk in part No ID Tag	Y	N	
EW-2	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P	No ID Tag	Y	N	
SVE-5	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P	No ID Tag	Y	N	
P-1	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P	No ID Tag	Y	N	
P-2	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P	No ID Tag	Y	N	

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

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

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

Number of Drums On-site	Does the Label Reveal the Source of the Contents		Labeled Correctly and Writing Legible		Drum Condition		Confirm Drums Related to Environmental	Drums Located to Min Business Interference		Detailed Explanation of Any Issues Resolved		Photos of Drum Condition		Date Drums Removed from Site and PM Initials	
26	Y	N	Y	N	G	P	Y	Y	N	CRA drums (Sci)		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).

Devine Regional / Blaine Tech Services  
Print or type Name of Field Personnel & Consultant Company

# WELL GAUGING DATA

Project # 12113-MMI

Date 11-13-12

Client Shell

Site 4212 First St. Pleasanton, CA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-1	0818	2					37.19	57.17	↓	
MW-1B	0805	4				102.33	108.01			
MW-2	0813	4				34.91	45.80			
MW-3	0809	4				33.35	34.59			
MW-4	0825	4				36.25	46.77			

## SHELL WELL MONITORING DATA SHEET

BTS #: 12113-MM1	Site: 4212 First St. Pleasanton, CA
Sampler: MM	Date: 11-13-12
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8
Total Well Depth (TD): 57.17	Depth to Water (DTW): 37.19
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 41.18	

Purge Method: (Bailer) <ul style="list-style-type: none"> <li>Disposable Bailer</li> <li>Positive Air Displacement</li> <li>Electric Submersible</li> </ul>	Waterra <ul style="list-style-type: none"> <li>Peristaltic</li> <li>Extraction Pump</li> <li>Other _____</li> </ul>	Sampling Method: (Bailer) <ul style="list-style-type: none"> <li>Disposable Bailer</li> <li>Extraction Port</li> <li>Dedicated Tubing</li> <li>Other: _____</li> </ul>
---	---	--

3.2 (Gals.) X	3	= 9.6 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations
0955	65.5	6.37	1634	790	3.2	
	WELL DEWATERED AT 6 GAL					
1240	65.4	6.51	1426	216	GRAB	Fe <sup>2+</sup> = 0.0 mg/L

Did well dewater? (Yes) No      Gallons actually evacuated: 6

Sampling Date: 11-13-12      Sampling Time: 1240      Depth to Water: 40.75

Sample I.D.: MW-1      Laboratory: (Test America) Other \_\_\_\_\_

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

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

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

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge):	1.93 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	(Post-purge):	54 mV



## SHELL WELL MONITORING DATA SHEET

BTS #: 121113-MM1	Site: 4212 First St. Pleasanton, CA
Sampler: MM	Date: 11-13-12
Well I.D.: MW-1B	Well Diameter: 2 3 <b>4</b> 6 8
Total Well Depth (TD): 108.01	Depth to Water (DTW): 102.33
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <b>PVC</b> Grade	D.O. Meter (if req'd): <b>YSI</b> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 103.46	

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

3.7 (Gals.) X	3	= 11.1 Gals.
I Case Volume	Specified Volumes	Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
0912	64.0	7.17	1327	>1000	3.7	
						WELL DEWATERED A 5 GAL
1145	64.4	7.24	1157	207	GRAB	Fe <sup>2+</sup> = 0.0 mg/L

Did well dewater? **Yes** No      Gallons actually evacuated: 5

Sampling Date: 11-13-12      Sampling Time: 1145      Depth to Water: 103.50 (2 HD)

Sample I.D.: MW-1B      Laboratory: **Test America** Other \_\_\_\_\_

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

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

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

D.O. (if req'd):	Pre-purge:	mg/L	<b>Post-purge:</b>	2.25 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	<b>Post-purge:</b>	1.21 mV

## SHELL WELL MONITORING DATA SHEET

BTS #: 12113-MM1	Site: 4212 First St. Pleasanton, CA
Sampler: MM	Date: 11-13-12
Well I.D.: MW-2	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 45.80	Depth to Water (DTW): 34.91
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 37.08	

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

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

7	(Gals.) X	3	=	21	Gals.
1 Case Volume		Specified Volumes		Calculated Volume	

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

Time	Temp (°F)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
0939	65.0	6.61	904.9	37	7	
	WELL DEWATERED AT 12 GAL					
1223	66.5	6.47	979.7	7	GRAB	Fe <sup>2+</sup> = 0.8 mg/L

Did well dewater? Yes No      Gallons actually evacuated: 12

Sampling Date: 11-13-12      Sampling Time: 1223      Depth to Water: 40.80 (2 HR)

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

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

EB I.D. (if applicable): @<sub>Time</sub>      Duplicate I.D. (if applicable):

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

D.O. (if req'd):	Pre-purge:	mg/L	<u>Post-purge:</u>	1.27	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	<u>Post-purge:</u>	22	mV

## SHELL WELL MONITORING DATA SHEET

BTS #: 12113-MM1	Site: 4212 First St. Pleasanton, CA
Sampler: MM	Date: 11-13-12
Well I.D.: MW-3	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 34.59	Depth to Water (DTW): 33.35
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 33.59	

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: \_\_\_\_\_

0.8	(Gals.) X	3	=	2.4	Gals.
1 Case Volume		Specified Volumes		Calculated Volume	

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

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations
0935	65.1	6.71	923.9	82	0.8	
	WELL DEWATERED AT 1 GAL					
1200	64.7	6.77	855.3	61	GRAB	Fe <sup>2+</sup> = 2.2 mg/L

Did well dewater? Yes No      Gallons actually evacuated: 1.0

Sampling Date: 11-13-12      Sampling Time: 1200      Depth to Water: 33.63 (2HR)

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

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

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

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

D.O. (if req'd):	Pre-purge:		mg/L		<u>Post-purge:</u>		mg/L
						1.44	
O.R.P. (if req'd):	Pre-purge:		mV		<u>Post-purge:</u>	-26	mV

## SHELL WELL MONITORING DATA SHEET

BTS #: 12113-MMI	Site: 4212 First St. Pleasanton, CA
Sampler: MM	Date: 11-13-12
Well I.D.: MW-4	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 46.77	Depth to Water (DTW): 30.25
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 38.35	

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

$\frac{6.8 \text{ (Gals.)} \times 3}{1 \text{ Case Volume}} = \frac{20.4 \text{ Gals.}}{\text{Specified Volumes}} = \text{Calculated Volume}$	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
1050	64.9	7.13	1019	> 1000	6.8	SDAR
1103	65.2	6.76	883.9	> 1000	14	
WELL DEWATERED AT				15.5 GAL		
1300	66.7	6.85	910.4	210	GRAB	Fe <sup>2+</sup> = 0.0 mg/L

Did well dewater? Yes No      Gallons actually evacuated: 15.5

Sampling Date: 11-13-12      Sampling Time: 1300      Depth to Water: 38.17

Sample I.D.: MW-4      Laboratory: Test America Other \_\_\_\_\_

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

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

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

D.O. (if req'd):	Pre-purge:		mg/L	<u>Post-purge:</u>		mg/L
					1.38	
O.R.P. (if req'd):	Pre-purge:		mV	<u>Post-purge:</u>		mV
					85	

INCIDENT # 48442840

DATE: 11-13-12

ADDRESS 4212 First St.

CITY & STATE Pleasanton, CA

Well ID	Observations Upon Arrival														Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition	Repair Date and PM Initials			
	Manway Cover, Type, Condition & Size					Well Labeled / Painted Properly?		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition							
MW-1	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N			
MW-1B	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N			
MW-2	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N			
MW-3	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N			
MW-4	Standpipe	Flush	G	P	Size (inch) 12	Y	N	G	R	G	R	NL	G	P		Y	N			
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N			
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N			
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N			
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N			
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N			
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N			
TOTAL # CAPS REPLACED = 1														= TOTAL # OF LOCKS REPLACED 0						
Condition of Soil Boring Patches of Abandoned Monitoring Wells:			G	P	N/A	If PDD: Borings/Well IDs or Location Descriptions:											Y	N		
Remediation Compound Type (Check boxes that apply)		Condition of Enclosure			Condition of Area Inside Enclosure			Compound Security			Emergency Contact Info Visible			Cleaning / Repairs Recommended and Conducted			Photos of Condition		Repair Date and PM Initials	
NA		G			G			G			Y						Y			
Building		G			G			G			Y						Y			
Building w/ Fence Comp.		G			G			G			Y						Y			
Fenced Compound		G			G			G			Y						Y			
Trailer		G			G			G			Y						Y			
Number of Drums On-site		Does the Label Reveal the Source of the Contents		Labeled Correctly and Writing Legible			Drum Condition			Confirm Drums Related to Environmental		Drums Located to Min Business Interference			Detailed Explanation of Any Issues Resolved			Photos of Drum Condition		Date Drums Removed from Site and PM Initials
0		Y N		Y N			G P			Y N		Y N						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).

Mark McCallach Blaine Tech Services  
Print or type Name of Field Personnel & Consultant Company

APPENDIX B

TESTAMERICA LABORATORIES, INC. -  
ANALYTICAL REPORT

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

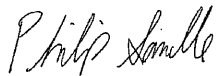
## ANALYTICAL REPORT

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

TestAmerica Job ID: 440-29689-1  
Client Project/Site: 4212 First St., Pleasanton, CA

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

Attn: Peter Schaefer



Authorized for release by:  
11/29/2012 4:48:14 PM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?

**?** Ask  
The  
Expert

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*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: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-29689-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-29689-1	MW-1	Water	11/13/12 12:40	11/14/12 09:35
440-29689-2	MW-1B	Water	11/13/12 11:45	11/14/12 09:35
440-29689-3	MW-2	Water	11/13/12 12:23	11/14/12 09:35
440-29689-4	MW-3	Water	11/13/12 12:00	11/14/12 09:35
440-29689-5	MW-4	Water	11/13/12 13:00	11/14/12 09:35

## Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-29689-1

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**Job ID: 440-29689-1**

---

**Laboratory: TestAmerica Irvine**

**Narrative**

---

**Job Narrative  
440-29689-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 11/14/2012 9:35 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0° C.

**GC/MS VOA**

Method(s) 8260B/CA\_LUFTMS: Surrogate recovery for the following sample was outside the upper control limit: MW-1B (440-29689-2). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: Surrogate recovery for the following sample was outside the upper control limit: MW-1B (440-29689-2). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

**HPLC**

Method(s) 300.0: Due to the high concentration of sulfate and chloride, the matrix spike / matrix spike duplicate (MS/MSD) for batch 66698 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for nitrate, nitrite and orthophosphate in batch 66697 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 300.0: The matrix spike / matrix spike duplicate (MS/MSD) orthophosphate recoveries for batch 66697 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

**General Chemistry**

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: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-29689-1

**Client Sample ID: MW-1**

**Lab Sample ID: 440-29689-1**

Date Collected: 11/13/12 12:40

Matrix: Water

Date Received: 11/14/12 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	2600		2500		ug/L			11/22/12 14:58	50
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	108		80 - 120					11/22/12 14:58	50
4-Bromofluorobenzene (Surr)	107		80 - 120					11/22/12 14:58	50
Toluene-d8 (Surr)	106		80 - 120					11/22/12 14:58	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	52		25		ug/L			11/22/12 14:58	50
Isopropyl Ether (DIPE)	ND		25		ug/L			11/22/12 14:58	50
Ethyl-t-butyl ether (ETBE)	ND		25		ug/L			11/22/12 14:58	50
Ethylbenzene	ND		25		ug/L			11/22/12 14:58	50
Methyl-t-Butyl Ether (MTBE)	2700		25		ug/L			11/22/12 14:58	50
Tert-amyl-methyl ether (TAME)	ND		25		ug/L			11/22/12 14:58	50
tert-Butyl alcohol (TBA)	ND		500		ug/L			11/22/12 14:58	50
Toluene	ND		25		ug/L			11/22/12 14:58	50
Xylenes, Total	ND		50		ug/L			11/22/12 14:58	50
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	107		80 - 120					11/22/12 14:58	50
Dibromofluoromethane (Surr)	108		80 - 120					11/22/12 14:58	50
Toluene-d8 (Surr)	106		80 - 120					11/22/12 14:58	50

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	4700		220		ug/L			11/15/12 00:31	2
Sulfate	21000		1000		ug/L			11/15/12 00:31	2

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	630000		4000		ug/L			11/27/12 12:00	1

**Client Sample ID: MW-1B**

**Lab Sample ID: 440-29689-2**

Date Collected: 11/13/12 11:45

Matrix: Water

Date Received: 11/14/12 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			11/22/12 05:32	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	124	X	80 - 120					11/22/12 05:32	1
4-Bromofluorobenzene (Surr)	102		80 - 120					11/22/12 05:32	1
Toluene-d8 (Surr)	109		80 - 120					11/22/12 05:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			11/22/12 05:32	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			11/22/12 05:32	1

TestAmerica Irvine

## Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-29689-1

**Client Sample ID: MW-1B**

**Lab Sample ID: 440-29689-2**

Date Collected: 11/13/12 11:45

Matrix: Water

Date Received: 11/14/12 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			11/22/12 05:32	1
Ethylbenzene	ND		0.50		ug/L			11/22/12 05:32	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			11/22/12 05:32	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			11/22/12 05:32	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			11/22/12 05:32	1
Toluene	ND		0.50		ug/L			11/22/12 05:32	1
Xylenes, Total	ND		1.0		ug/L			11/22/12 05:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120		11/22/12 05:32	1
Dibromofluoromethane (Surr)	124	X	80 - 120		11/22/12 05:32	1
Toluene-d8 (Surr)	109		80 - 120		11/22/12 05:32	1

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	21000		5500		ug/L			11/15/12 01:42	50
Sulfate	70000		25000		ug/L			11/15/12 01:42	50

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	270000		4000		ug/L			11/27/12 12:00	1

**Client Sample ID: MW-2**

**Lab Sample ID: 440-29689-3**

Date Collected: 11/13/12 12:23

Matrix: Water

Date Received: 11/14/12 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	2100		2000		ug/L			11/22/12 15:25	40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	108		80 - 120		11/22/12 15:25	40
4-Bromofluorobenzene (Surr)	107		80 - 120		11/22/12 15:25	40
Toluene-d8 (Surr)	106		80 - 120		11/22/12 15:25	40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		20		ug/L			11/22/12 15:25	40
Isopropyl Ether (DIPE)	ND		20		ug/L			11/22/12 15:25	40
Ethyl-t-butyl ether (ETBE)	ND		20		ug/L			11/22/12 15:25	40
Ethylbenzene	ND		20		ug/L			11/22/12 15:25	40
Methyl-t-Butyl Ether (MTBE)	2500		20		ug/L			11/22/12 15:25	40
Tert-amyl-methyl ether (TAME)	ND		20		ug/L			11/22/12 15:25	40
tert-Butyl alcohol (TBA)	ND		400		ug/L			11/22/12 15:25	40
Toluene	ND		20		ug/L			11/22/12 15:25	40
Xylenes, Total	ND		40		ug/L			11/22/12 15:25	40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		80 - 120		11/22/12 15:25	40
Dibromofluoromethane (Surr)	108		80 - 120		11/22/12 15:25	40

TestAmerica Irvine

## Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-29689-1

**Client Sample ID: MW-2**

**Lab Sample ID: 440-29689-3**

Date Collected: 11/13/12 12:23

Matrix: Water

Date Received: 11/14/12 09:35

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		80 - 120		11/22/12 15:25	40

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	8400		2200		ug/L			11/15/12 02:10	20
Sulfate	77000		10000		ug/L			11/15/12 02:10	20

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	310000		4000		ug/L			11/27/12 12:00	1

**Client Sample ID: MW-3**

**Lab Sample ID: 440-29689-4**

Date Collected: 11/13/12 12:00

Matrix: Water

Date Received: 11/14/12 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			11/22/12 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	107		80 - 120		11/22/12 15:52	1
4-Bromofluorobenzene (Surr)	105		80 - 120		11/22/12 15:52	1
Toluene-d8 (Surr)	105		80 - 120		11/22/12 15:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			11/22/12 15:52	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			11/22/12 15:52	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			11/22/12 15:52	1
Ethylbenzene	ND		0.50		ug/L			11/22/12 15:52	1
Methyl-t-Butyl Ether (MTBE)	1.8		0.50		ug/L			11/22/12 15:52	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			11/22/12 15:52	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			11/22/12 15:52	1
Toluene	ND		0.50		ug/L			11/22/12 15:52	1
Xylenes, Total	ND		1.0		ug/L			11/22/12 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120		11/22/12 15:52	1
Dibromofluoromethane (Surr)	107		80 - 120		11/22/12 15:52	1
Toluene-d8 (Surr)	105		80 - 120		11/22/12 15:52	1

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		110		ug/L			11/15/12 02:24	1
Sulfate	7300		500		ug/L			11/15/12 02:24	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	330000		4000		ug/L			11/27/12 12:00	1

## Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-29689-1

**Client Sample ID: MW-4**

**Lab Sample ID: 440-29689-5**

Date Collected: 11/13/12 13:00

Matrix: Water

Date Received: 11/14/12 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	1200		1000		ug/L			11/22/12 16:19	20
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Dibromofluoromethane (Surr)	109		80 - 120					11/22/12 16:19	20
4-Bromofluorobenzene (Surr)	105		80 - 120					11/22/12 16:19	20
Toluene-d8 (Surr)	105		80 - 120					11/22/12 16:19	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		10		ug/L			11/22/12 16:19	20
Isopropyl Ether (DIPE)	ND		10		ug/L			11/22/12 16:19	20
Ethyl-t-butyl ether (ETBE)	ND		10		ug/L			11/22/12 16:19	20
Ethylbenzene	ND		10		ug/L			11/22/12 16:19	20
Methyl-t-Butyl Ether (MTBE)	1400		10		ug/L			11/22/12 16:19	20
Tert-amyl-methyl ether (TAME)	ND		10		ug/L			11/22/12 16:19	20
tert-Butyl alcohol (TBA)	970		200		ug/L			11/22/12 16:19	20
Toluene	ND		10		ug/L			11/22/12 16:19	20
Xylenes, Total	ND		20		ug/L			11/22/12 16:19	20
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene (Surr)	105		80 - 120					11/22/12 16:19	20
Dibromofluoromethane (Surr)	109		80 - 120					11/22/12 16:19	20
Toluene-d8 (Surr)	105		80 - 120					11/22/12 16:19	20

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	2100		110		ug/L			11/15/12 02:53	1
Sulfate	53000		10000		ug/L			11/15/12 03:07	20

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	300000		4000		ug/L			11/27/12 12:00	1

## Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-29689-1

**Client Sample ID: MW-1**

**Lab Sample ID: 440-29689-1**

Date Collected: 11/13/12 12:40

Matrix: Water

Date Received: 11/14/12 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	10 mL	10 mL	68747	11/22/12 14:58	BD	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		50	10 mL	10 mL	68748	11/22/12 14:58	YK	TAL IRV
Total/NA	Analysis	300.0		2	1 mL	1.0 mL	66697	11/15/12 00:31	NN	TAL IRV
Total/NA	Analysis	300.0		2	1 mL	1.0 mL	66698	11/15/12 00:31	NN	TAL IRV
Total/NA	Analysis	SM 2320B		1	25 mL	25 mL	69476	11/27/12 12:00	NB	TAL IRV

**Client Sample ID: MW-1B**

**Lab Sample ID: 440-29689-2**

Date Collected: 11/13/12 11:45

Matrix: Water

Date Received: 11/14/12 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	68681	11/22/12 05:32	YK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	68682	11/22/12 05:32	YK	TAL IRV
Total/NA	Analysis	300.0		50	1 mL	1.0 mL	66697	11/15/12 01:42	NN	TAL IRV
Total/NA	Analysis	300.0		50	1 mL	1.0 mL	66698	11/15/12 01:42	NN	TAL IRV
Total/NA	Analysis	SM 2320B		1	25 mL	25 mL	69476	11/27/12 12:00	NB	TAL IRV

**Client Sample ID: MW-2**

**Lab Sample ID: 440-29689-3**

Date Collected: 11/13/12 12:23

Matrix: Water

Date Received: 11/14/12 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		40	10 mL	10 mL	68747	11/22/12 15:25	BD	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		40	10 mL	10 mL	68748	11/22/12 15:25	YK	TAL IRV
Total/NA	Analysis	300.0		20	1 mL	1.0 mL	66697	11/15/12 02:10	NN	TAL IRV
Total/NA	Analysis	300.0		20	1 mL	1.0 mL	66698	11/15/12 02:10	NN	TAL IRV
Total/NA	Analysis	SM 2320B		1	25 mL	25 mL	69476	11/27/12 12:00	NB	TAL IRV

**Client Sample ID: MW-3**

**Lab Sample ID: 440-29689-4**

Date Collected: 11/13/12 12:00

Matrix: Water

Date Received: 11/14/12 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	68747	11/22/12 15:52	BD	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	68748	11/22/12 15:52	YK	TAL IRV
Total/NA	Analysis	300.0		1	1 mL	1.0 mL	66697	11/15/12 02:24	NN	TAL IRV
Total/NA	Analysis	300.0		1	1 mL	1.0 mL	66698	11/15/12 02:24	NN	TAL IRV
Total/NA	Analysis	SM 2320B		1	25 mL	25 mL	69476	11/27/12 12:00	NB	TAL IRV

## Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-29689-1

**Client Sample ID: MW-4**

**Lab Sample ID: 440-29689-5**

**Date Collected: 11/13/12 13:00**

**Matrix: Water**

**Date Received: 11/14/12 09:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	10 mL	10 mL	68747	11/22/12 16:19	BD	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		20	10 mL	10 mL	68748	11/22/12 16:19	YK	TAL IRV
Total/NA	Analysis	300.0		1	1 mL	1.0 mL	66697	11/15/12 02:53	NN	TAL IRV
Total/NA	Analysis	300.0		20	1 mL	1.0 mL	66698	11/15/12 03:07	NN	TAL IRV
Total/NA	Analysis	SM 2320B		1	25 mL	25 mL	69476	11/27/12 12:00	NB	TAL IRV

**Laboratory References:**

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



## QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-29689-1

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

**Lab Sample ID: MB 440-68681/4**

**Matrix: Water**

**Analysis Batch: 68681**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.50		ug/L			11/21/12 21:29	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			11/21/12 21:29	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			11/21/12 21:29	1
Ethylbenzene	ND		0.50		ug/L			11/21/12 21:29	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			11/21/12 21:29	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			11/21/12 21:29	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			11/21/12 21:29	1
Toluene	ND		0.50		ug/L			11/21/12 21:29	1
Xylenes, Total	ND		1.0		ug/L			11/21/12 21:29	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	99		80 - 120		11/21/12 21:29	1
Dibromofluoromethane (Surr)	106		80 - 120		11/21/12 21:29	1
Toluene-d8 (Surr)	105		80 - 120		11/21/12 21:29	1

**Lab Sample ID: LCS 440-68681/5**

**Matrix: Water**

**Analysis Batch: 68681**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropyl Ether (DIPE)	25.0	25.2		ug/L		101	60 - 135
Ethyl-t-butyl ether (ETBE)	25.0	24.2		ug/L		97	65 - 135
Ethylbenzene	25.0	23.7		ug/L		95	75 - 125
m,p-Xylene	50.0	48.6		ug/L		97	75 - 125
Methyl-t-Butyl Ether (MTBE)	25.0	26.3		ug/L		105	60 - 135
o-Xylene	25.0	24.1		ug/L		96	75 - 125
Tert-amyl-methyl ether (TAME)	25.0	25.0		ug/L		100	60 - 135
tert-Butyl alcohol (TBA)	125	143		ug/L		115	70 - 135
Toluene	25.0	26.6		ug/L		107	70 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	114		80 - 120
Toluene-d8 (Surr)	113		80 - 120

**Lab Sample ID: 440-29482-A-4 MS**

**Matrix: Water**

**Analysis Batch: 68681**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropyl Ether (DIPE)	ND		25.0	25.5		ug/L		102	60 - 140
Ethyl-t-butyl ether (ETBE)	ND		25.0	25.0		ug/L		100	60 - 135
Ethylbenzene	ND		25.0	23.9		ug/L		96	65 - 130
m,p-Xylene	ND		50.0	49.9		ug/L		100	65 - 130
Methyl-t-Butyl Ether (MTBE)	0.83		25.0	27.2		ug/L		106	55 - 145

TestAmerica Irvine

## QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-29689-1

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

Lab Sample ID: 440-29482-A-4 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 68681

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
o-Xylene	ND		25.0	24.4		ug/L		97	65 - 125	
Tert-amyl-methyl ether (TAME)	ND		25.0	25.8		ug/L		103	60 - 140	
tert-Butyl alcohol (TBA)	ND		125	145		ug/L		116	65 - 140	
Toluene	ND		25.0	26.4		ug/L		106	70 - 125	

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	113		80 - 120
Toluene-d8 (Surr)	106		80 - 120

Lab Sample ID: 440-29482-A-4 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 68681

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						RPD	Limit
Benzene	ND		25.0	26.4		ug/L		105	65 - 125	6	20	
Isopropyl Ether (DIPE)	ND		25.0	25.3		ug/L		101	60 - 140	1	25	
Ethyl-t-butyl ether (ETBE)	ND		25.0	25.4		ug/L		102	60 - 135	2	25	
Ethylbenzene	ND		25.0	23.9		ug/L		96	65 - 130	0	20	
m,p-Xylene	ND		50.0	48.8		ug/L		98	65 - 130	2	25	
Methyl-t-Butyl Ether (MTBE)	0.83		25.0	28.1		ug/L		109	55 - 145	3	25	
o-Xylene	ND		25.0	24.7		ug/L		99	65 - 125	1	20	
Tert-amyl-methyl ether (TAME)	ND		25.0	26.1		ug/L		105	60 - 140	1	30	
tert-Butyl alcohol (TBA)	ND		125	138		ug/L		110	65 - 140	5	25	
Toluene	ND		25.0	26.4		ug/L		106	70 - 125	0	20	

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		80 - 120
Dibromofluoromethane (Surr)	116		80 - 120
Toluene-d8 (Surr)	108		80 - 120

Lab Sample ID: MB 440-68747/4

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 68747

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.50		ug/L			11/22/12 10:27	1
Isopropyl Ether (DIPE)	ND		0.50		ug/L			11/22/12 10:27	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			11/22/12 10:27	1
Ethylbenzene	ND		0.50		ug/L			11/22/12 10:27	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			11/22/12 10:27	1
Tert-amyl-methyl ether (TAME)	ND		0.50		ug/L			11/22/12 10:27	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			11/22/12 10:27	1
Toluene	ND		0.50		ug/L			11/22/12 10:27	1
Xylenes, Total	ND		1.0		ug/L			11/22/12 10:27	1

TestAmerica Irvine

## QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-29689-1

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

Lab Sample ID: MB 440-68747/4

Matrix: Water

Analysis Batch: 68747

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	102		80 - 120		11/22/12 10:27	1
Dibromofluoromethane (Surr)	102		80 - 120		11/22/12 10:27	1
Toluene-d8 (Surr)	105		80 - 120		11/22/12 10:27	1

Lab Sample ID: LCS 440-68747/5

Matrix: Water

Analysis Batch: 68747

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropyl Ether (DIPE)	25.0	25.0		ug/L		100	60 - 135
Ethyl-t-butyl ether (ETBE)	25.0	23.9		ug/L		96	65 - 135
Ethylbenzene	25.0	25.8		ug/L		103	75 - 125
m,p-Xylene	50.0	51.7		ug/L		103	75 - 125
Methyl-t-Butyl Ether (MTBE)	25.0	24.6		ug/L		99	60 - 135
o-Xylene	25.0	25.9		ug/L		104	75 - 125
Tert-amyl-methyl ether (TAME)	25.0	24.7		ug/L		99	60 - 135
tert-Butyl alcohol (TBA)	125	134		ug/L		107	70 - 135
Toluene	25.0	24.9		ug/L		100	70 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	109		80 - 120
Toluene-d8 (Surr)	105		80 - 120

Lab Sample ID: 440-29482-B-11 MS

Matrix: Water

Analysis Batch: 68747

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropyl Ether (DIPE)	ND		25.0	25.9		ug/L		104	60 - 140
Ethyl-t-butyl ether (ETBE)	ND		25.0	24.9		ug/L		100	60 - 135
Ethylbenzene	1.0		25.0	26.0		ug/L		100	65 - 130
m,p-Xylene	3.8		50.0	55.2		ug/L		103	65 - 130
Methyl-t-Butyl Ether (MTBE)	ND		25.0	26.4		ug/L		106	55 - 145
o-Xylene	1.6		25.0	28.3		ug/L		107	65 - 125
Tert-amyl-methyl ether (TAME)	ND		25.0	26.8		ug/L		107	60 - 140
tert-Butyl alcohol (TBA)	ND		125	140		ug/L		112	65 - 140
Toluene	4.3		25.0	30.4		ug/L		104	70 - 125

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	104		80 - 120
Dibromofluoromethane (Surr)	109		80 - 120
Toluene-d8 (Surr)	104		80 - 120

## QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-29689-1

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

Lab Sample ID: 440-29482-B-11 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 68747

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
Benzene	ND		25.0	24.8		ug/L		98	65 - 125	2	20
Isopropyl Ether (DIPE)	ND		25.0	26.0		ug/L		104	60 - 140	0	25
Ethyl-t-butyl ether (ETBE)	ND		25.0	24.9		ug/L		100	60 - 135	0	25
Ethylbenzene	1.0		25.0	26.7		ug/L		103	65 - 130	3	20
m,p-Xylene	3.8		50.0	54.6		ug/L		102	65 - 130	1	25
Methyl-t-Butyl Ether (MTBE)	ND		25.0	25.9		ug/L		104	55 - 145	2	25
o-Xylene	1.6		25.0	28.1		ug/L		106	65 - 125	1	20
Tert-amyl-methyl ether (TAME)	ND		25.0	26.0		ug/L		104	60 - 140	3	30
tert-Butyl alcohol (TBA)	ND		125	140		ug/L		112	65 - 140	0	25
Toluene	4.3		25.0	29.2		ug/L		100	70 - 125	4	20
<b>MSD MSD</b>											
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
4-Bromofluorobenzene (Surr)	101		80 - 120								
Dibromofluoromethane (Surr)	107		80 - 120								
Toluene-d8 (Surr)	104		80 - 120								

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

Lab Sample ID: MB 440-68682/4

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 68682

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			11/21/12 21:29	1
<b>MB MB</b>									
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>		<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	106		80 - 120					11/21/12 21:29	1
4-Bromofluorobenzene (Surr)	99		80 - 120					11/21/12 21:29	1
Toluene-d8 (Surr)	105		80 - 120					11/21/12 21:29	1

Lab Sample ID: LCS 440-68682/6

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 68682

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Volatile Fuel Hydrocarbons (C4-C12)	500	556		ug/L		111	55 - 130
<b>LCS LCS</b>							
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				
Dibromofluoromethane (Surr)	105		80 - 120				
4-Bromofluorobenzene (Surr)	105		80 - 120				
Toluene-d8 (Surr)	110		80 - 120				

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## QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-29689-1

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

**Lab Sample ID: 440-29482-A-4 MS**

**Client Sample ID: Matrix Spike**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 68682**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Volatile Fuel Hydrocarbons (C4-C12)	ND		1730	1510		ug/L		87	50 - 145
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
Dibromofluoromethane (Surr)	113		80 - 120						
4-Bromofluorobenzene (Surr)	101		80 - 120						
Toluene-d8 (Surr)	106		80 - 120						

**Lab Sample ID: 440-29482-A-4 MSD**

**Client Sample ID: Matrix Spike Duplicate**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 68682**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD
	Result	Qualifier	Added	Result	Qualifier					
Volatile Fuel Hydrocarbons (C4-C12)	ND		1730	1480		ug/L		86	50 - 145	2
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>							
Dibromofluoromethane (Surr)	116		80 - 120							
4-Bromofluorobenzene (Surr)	103		80 - 120							
Toluene-d8 (Surr)	108		80 - 120							

**Lab Sample ID: MB 440-68748/4**

**Client Sample ID: Method Blank**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 68748**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			11/22/12 10:27	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	102		80 - 120					11/22/12 10:27	1
4-Bromofluorobenzene (Surr)	102		80 - 120					11/22/12 10:27	1
Toluene-d8 (Surr)	105		80 - 120					11/22/12 10:27	1

**Lab Sample ID: LCS 440-68748/6**

**Client Sample ID: Lab Control Sample**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 68748**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				
Volatile Fuel Hydrocarbons (C4-C12)	500	523		ug/L		105	55 - 130
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				
Dibromofluoromethane (Surr)	103		80 - 120				
4-Bromofluorobenzene (Surr)	105		80 - 120				
Toluene-d8 (Surr)	109		80 - 120				

## QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-29689-1

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

Lab Sample ID: 440-29482-B-11 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 68748

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Volatile Fuel Hydrocarbons (C4-C12)	ND		1730	1420		ug/L		83	50 - 145
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
Dibromofluoromethane (Surr)	109		80 - 120						
4-Bromofluorobenzene (Surr)	104		80 - 120						
Toluene-d8 (Surr)	104		80 - 120						

Lab Sample ID: 440-29482-B-11 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 68748

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier		Result	Qualifier						
Volatile Fuel Hydrocarbons (C4-C12)	ND		1730	1360		ug/L		79	50 - 145	4	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
Dibromofluoromethane (Surr)	107		80 - 120								
4-Bromofluorobenzene (Surr)	101		80 - 120								
Toluene-d8 (Surr)	104		80 - 120								

### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 440-66697/47

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 66697

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrate as N	ND		110		ug/L			11/14/12 22:36	1

Lab Sample ID: LCS 440-66697/49

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 66697

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Nitrate as N	1130	1030		ug/L		91	90 - 110

Lab Sample ID: 440-29687-E-1 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 66697

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Nitrate as N	4600		1130	5810	4	ug/L		109	80 - 120

TestAmerica Irvine

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-29689-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 440-29687-E-1 MSD  
 Matrix: Water  
 Analysis Batch: 66697

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	4600		1130	5730	4	ug/L		102	80 - 120	1	20

Lab Sample ID: MB 440-66698/47  
 Matrix: Water  
 Analysis Batch: 66698

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		500		ug/L			11/14/12 22:36	1

Lab Sample ID: LCS 440-66698/49  
 Matrix: Water  
 Analysis Batch: 66698

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10000	9440		ug/L		94	90 - 110

## Method: SM 2320B - Alkalinity

Lab Sample ID: MB 440-69476/1  
 Matrix: Water  
 Analysis Batch: 69476

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	ND		4000		ug/L			11/27/12 12:00	1

Lab Sample ID: LCS 440-69476/2  
 Matrix: Water  
 Analysis Batch: 69476

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity as CaCO3	150000	136000		ug/L		91	90 - 110

Lab Sample ID: 440-29731-A-1 DU  
 Matrix: Water  
 Analysis Batch: 69476

Client Sample ID: Duplicate  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity as CaCO3	190000		192000		ug/L		2	20

## QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-29689-1

### GC/MS VOA

#### Analysis Batch: 68681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-29482-A-4 MS	Matrix Spike	Total/NA	Water	8260B	
440-29482-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
440-29689-2	MW-1B	Total/NA	Water	8260B	
LCS 440-68681/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-68681/4	Method Blank	Total/NA	Water	8260B	

#### Analysis Batch: 68682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-29482-A-4 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-29482-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	
440-29689-2	MW-1B	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-68682/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-68682/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

#### Analysis Batch: 68747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-29482-B-11 MS	Matrix Spike	Total/NA	Water	8260B	
440-29482-B-11 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
440-29689-1	MW-1	Total/NA	Water	8260B	
440-29689-3	MW-2	Total/NA	Water	8260B	
440-29689-4	MW-3	Total/NA	Water	8260B	
440-29689-5	MW-4	Total/NA	Water	8260B	
LCS 440-68747/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-68747/4	Method Blank	Total/NA	Water	8260B	

#### Analysis Batch: 68748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-29482-B-11 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-29482-B-11 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	
440-29689-1	MW-1	Total/NA	Water	8260B/CA_LUFT MS	
440-29689-3	MW-2	Total/NA	Water	8260B/CA_LUFT MS	
440-29689-4	MW-3	Total/NA	Water	8260B/CA_LUFT MS	
440-29689-5	MW-4	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-68748/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-68748/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

### HPLC/IC

#### Analysis Batch: 66697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-29687-E-1 MS	Matrix Spike	Total/NA	Water	300.0	

TestAmerica Irvine



## QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-29689-1

### HPLC/IC (Continued)

#### Analysis Batch: 66697 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-29687-E-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
440-29689-1	MW-1	Total/NA	Water	300.0	
440-29689-2	MW-1B	Total/NA	Water	300.0	
440-29689-3	MW-2	Total/NA	Water	300.0	
440-29689-4	MW-3	Total/NA	Water	300.0	
440-29689-5	MW-4	Total/NA	Water	300.0	
LCS 440-66697/49	Lab Control Sample	Total/NA	Water	300.0	
MB 440-66697/47	Method Blank	Total/NA	Water	300.0	

#### Analysis Batch: 66698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-29689-1	MW-1	Total/NA	Water	300.0	
440-29689-2	MW-1B	Total/NA	Water	300.0	
440-29689-3	MW-2	Total/NA	Water	300.0	
440-29689-4	MW-3	Total/NA	Water	300.0	
440-29689-5	MW-4	Total/NA	Water	300.0	
LCS 440-66698/49	Lab Control Sample	Total/NA	Water	300.0	
MB 440-66698/47	Method Blank	Total/NA	Water	300.0	

### General Chemistry

#### Analysis Batch: 69476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-29689-1	MW-1	Total/NA	Water	SM 2320B	
440-29689-2	MW-1B	Total/NA	Water	SM 2320B	
440-29689-3	MW-2	Total/NA	Water	SM 2320B	
440-29689-4	MW-3	Total/NA	Water	SM 2320B	
440-29689-5	MW-4	Total/NA	Water	SM 2320B	
440-29731-A-1 DU	Duplicate	Total/NA	Water	SM 2320B	
LCS 440-69476/2	Lab Control Sample	Total/NA	Water	SM 2320B	
MB 440-69476/1	Method Blank	Total/NA	Water	SM 2320B	

## Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-29689-1

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### Qualifiers

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#### GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

#### HPLC/IC

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

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### Glossary

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

# Certification Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-29689-1

## Laboratory: TestAmerica Irvine

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-13
Arizona	State Program	9	AZ0671	10-13-13
California	LA Cty Sanitation Districts	9	10256	01-31-13
California	NELAC	9	1108CA	01-31-13
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	01-23-13
Hawaii	State Program	9	N/A	01-31-13
Nevada	State Program	9	CA015312007A	07-31-13
New Mexico	State Program	6	N/A	01-31-13
Northern Mariana Islands	State Program	9	MP0002	01-31-13
Oregon	NELAC	10	4005	09-12-13
USDA	Federal		P330-09-00080	06-06-14
USEPA UCMR	Federal	1	CA01531	01-31-13



## Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-29689-1

Login Number: 29689

List Source: TestAmerica Irvine

List Number: 1

Creator: Robb, Kathleen

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	Mark McColloch
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	