CONESTOGA-ROVERS & ASSOCIATES

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

TRANSMITTAL

DATE: November 12, 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

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

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

QUANTITY	DESCRIPTION
1	Groundwater Monitoring Report – Third Quarter 2013

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

COMMENTS:
If you have any questions regarding the content of this document, please call the CRA project manager Peter Schaefer at (510) 420-3319 or the Shell program manager Perry Pineda at (425) 413-1164.

Copy to:
Perry Pineda, Shell Oil Products US (electronic copy)
Douglas E. & Mary M. Safreno (property owners), 1627 Vineyard Avenue, Pleasanton, CA 94566-6389 (electronic and hard copy)
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
Colleen Winey, Zone 7 Water Agency (electronic copy)
Aaron O'Brien, Tamalpais Environmental Consultants (electronic copy)

Completed by: Peter Schaefer Signed: Peter Schaefer

Filing: **Correspondence File**

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

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

Re: 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.

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

Sincerely,
Shell Oil Products US

Perry Pineda
Senior Environmental Program Manager

GROUNDWATER MONITORING REPORT - THIRD QUARTER 2013

SHELL-BRANDED SERVICE STATION
4212 FIRST STREET
PLEASANTON, CALIFORNIA

SAP CODE	135782
INCIDENT NO.	98995840
AGENCY NO.	RO0000360

Prepared by:
Conestoga-Rovers & Associates

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

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

web: http://www.CRAworld.com

NOVEMBER 12, 2013
REF. NO. 240523 (23)
This report is printed on recycled paper.

TABLE OF CONTENTS

LIST OF FIGURES
(Following Text)

LIST OF TABLES
(Following Text)

LIST OF APPENDICES

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	Perry Pineda
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 April 11, 2013 (electronic).

2.0 SITE ACTIVITIES, FINDINGS, AND DISCUSSION

2.1 CURRENT QUARTER'S ACTIVITIES

Blaine Tech Services, Inc. (Blaine) gauged and sampled the wells according to the modified monitoring program for this site. CRA prepared a vicinity map (Figure 1), a groundwater contour and chemical concentration map (Figure 2), and a groundwater data table (Table 1). Blaine's field notes are presented in Appendix A, and the laboratory report is presented in Appendix B.

2.2 CURRENT QUARTER'S FINDINGS

Groundwater Flow Direction	Northerly to northeasterly
Hydraulic Gradient	0.05
Depth to Water	33.56 to 102.77 feet below top of well casing

2.3 PROPOSED ACTIVITIES

Blaine will gauge and sample wells MW-1 through MW-4 and MW-1B quarterly through first quarter 2014 to monitor the effectiveness of the mass removal event (MRE) completed between March 26, 2013 and April 25, 2013, and CRA will issue groundwater monitoring reports quarterly following the sampling events.

CRA will submit a report providing MRE details under separate cover.

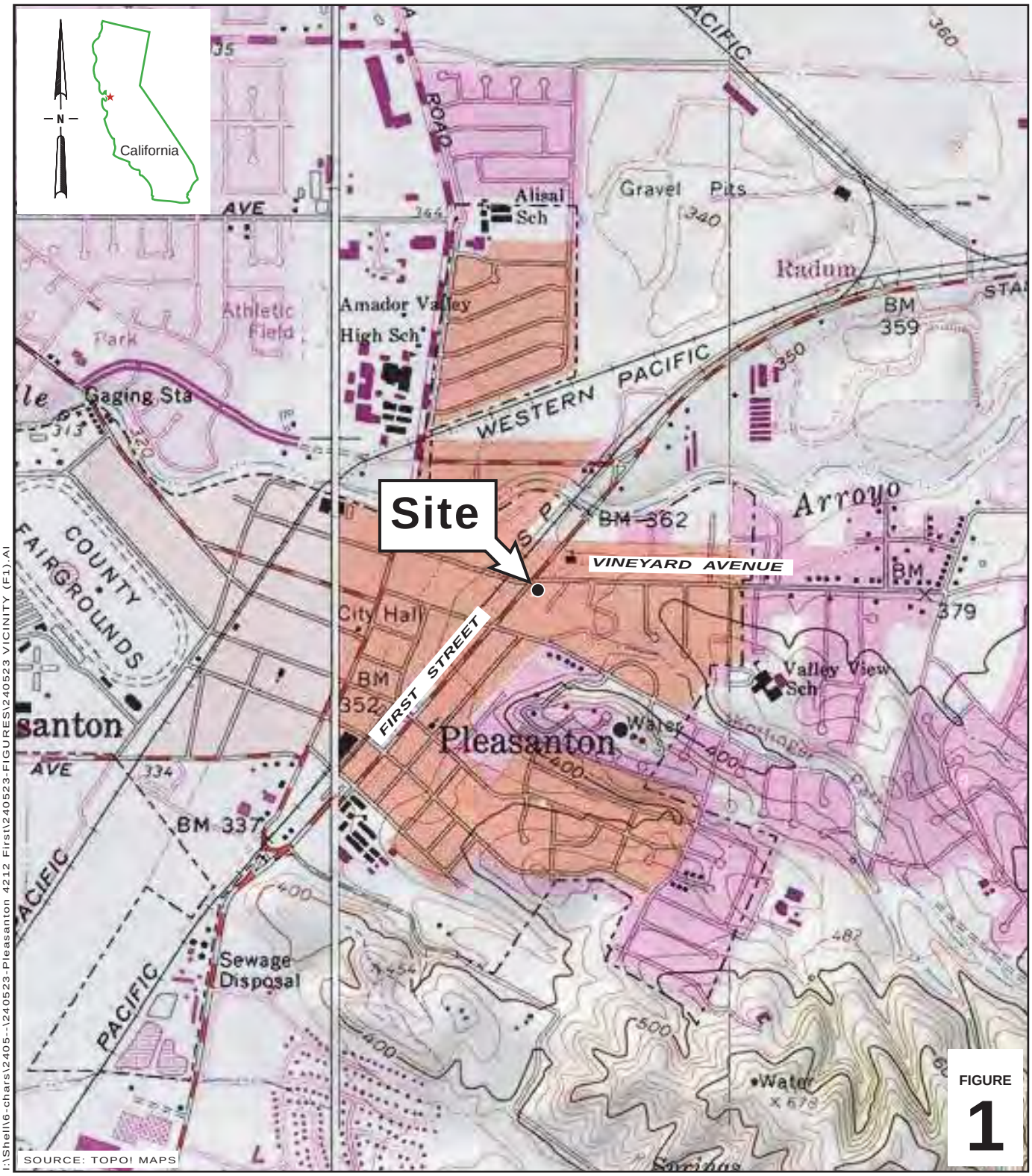
All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Peter Schaefer, CHG, CEG

Aubrey K. Cool, PG

FIGURES

01/18/2011



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

FIGURE 1

0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

Shell-branded Service Station

4212 First Street

Pleasanton, California

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

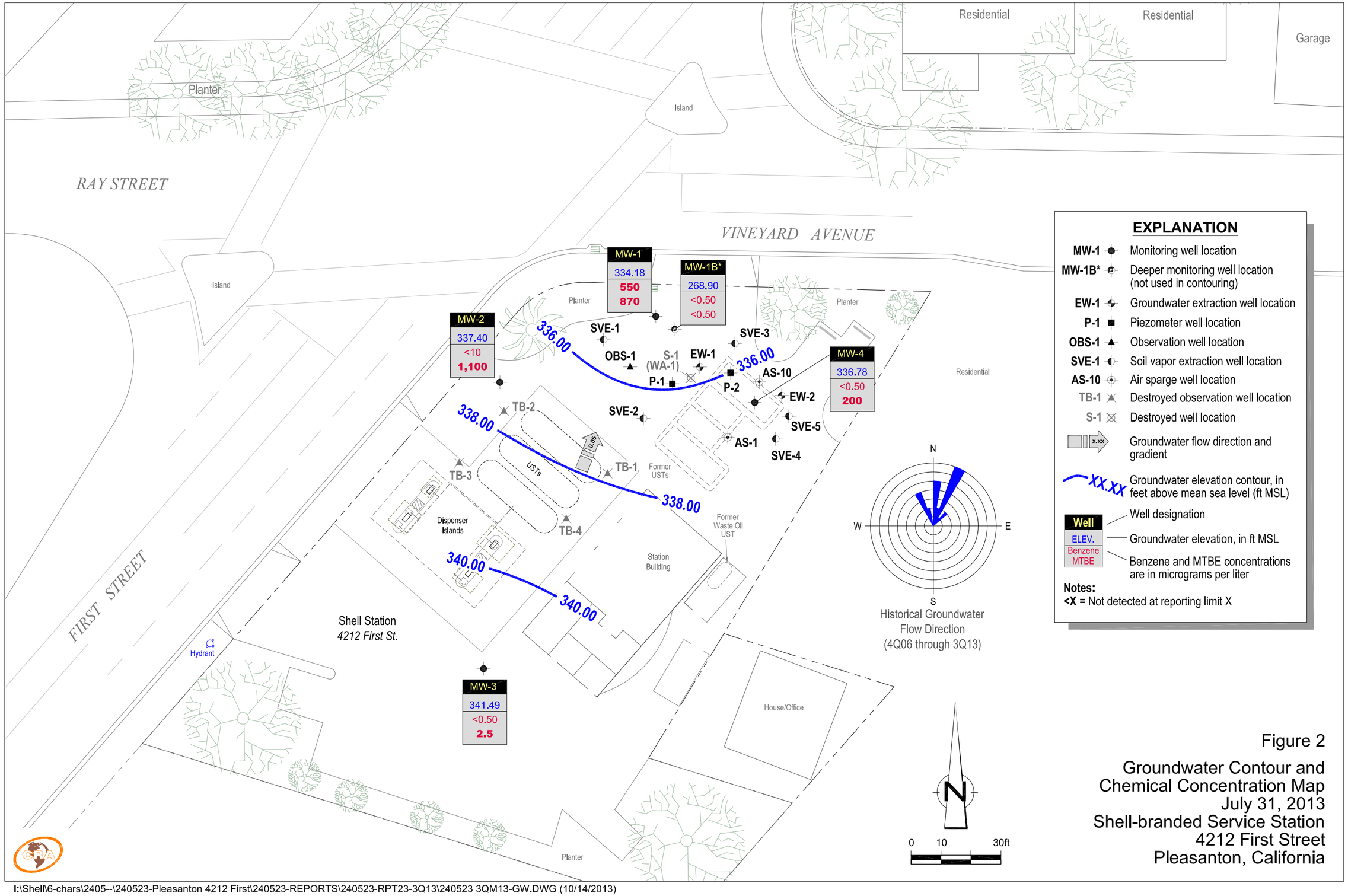


Figure 2

Groundwater Contour and Chemical Concentration Map
July 31, 2013
Shell-branded Service Station
4212 First Street
Pleasanton, California

I:\Shell\6-chars\2405--\240523-Pleasanton 4212 First\240523-REPORTS\240523-RPT23-3Q13\240523 3QM13-GW.DWG (10/14/2013)

TABLE

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 $CaCO_3$ (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	---	---
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	---	---

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 $CaCO_3$ (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	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-1	05/14/2013	6,500	410	<5.0	<5.0	<10	---	1,600	940	---	---	---	1,900	17,000	670,000	---	371.20	36.01	335.19	1.25	112
MW-1	**07/31/2013**	**4,700**	**550**	**<5.0**	**<5.0**	**59**	**---**	**870**	**470**	**---**	**---**	**---**	**350**	**42,000**	**530,000**	**---**	**371.20**	**37.02**	**334.18**	**1.75**	**-10**
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	---	---
MW-1B	05/31/2011	<50	<0.50	<0.50	<0.50	<1.0	---	<1.0	<10	---	---	---	---	---	---	---	371.67	73.83	297.84	---	---
MW-1B	07/27/2011	<50	<0.50	<0.50	<0.50	<1.0	---	<1.0	<10	---	---	---	---	---	---	---	371.67	82.90	288.77	---	---
MW-1B	11/04/2011	<50	<0.50	<0.50	<0.50	<1.0	---	<1.0	<10	<1.0	<1.0	<1.0	---	---	---	---	371.67	89.19	282.48	---	---
MW-1B	05/23/2012	<50	<0.50	<0.50	<0.50	<1.0	---	1.2	<10	---	---	---	18,000	51,000	270,000	<100	371.67	82.10	289.57	2.67	207

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 $CaCO_3$ (µg/L)	Ferrous Iron (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
MW-1B	09/07/2012	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<10	---	---	---	19,000 a	49,000	260,000	---	371.66	102.45	269.21	1.54	204
MW-1B	11/13/2012	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<10	<0.50	<0.50	<0.50	21,000	70,000	270,000	---	371.66	102.33	269.33	2.25	121
MW-1B	05/14/2013	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<10	---	---	---	25,000	53,000	280,000	---	371.67	99.32	272.35	1.41	96
MW-1B	**07/31/2013**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**<0.50**	**<10**	**---**	**---**	**---**	**20,000**	**50,000**	**270,000**	**---**	**371.67**	**102.77**	**268.90**	**1.98**	**20**
MW-2	02/03/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	372.40	32.65	339.75	---	---
MW-2	02/07/2000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	372.40	35.51	336.89	---	---
MW-2	02/10/2000	<50.0	<0.500	<0.500	<0.500	<0.500	2.61	---	---	---	---	---	---	---	---	---	372.40	36.62	335.78	---	---
MW-2	05/17/2000	120	4.09	<0.500	<0.500	<0.500	29	---	---	---	---	---	---	---	---	---	372.40	32.14	340.26	---	---
MW-2	08/03/2000	<50.0	0.692	<0.500	<0.500	<0.500	40.5	36.6 b	---	---	---	---	---	---	---	---	372.40	32.42	339.98	---	---
MW-2	10/31/2000	<50.0	<0.500	<0.500	<0.500	<0.500	57.4	44.8 a	---	---	---	---	---	---	---	---	372.40	33.02	339.38	---	---
MW-2	03/01/2001	173	1.64	1.65	2.86	3.97	127	167	---	---	---	---	---	---	---	---	372.40	32.54	339.86	---	---
MW-2	05/30/2001	<50	<0.50	<0.50	<0.50	<0.50	---	170	---	---	---	---	---	---	---	---	372.40	32.42	339.98	---	---
MW-2	08/02/2001	<50	<0.50	<0.50	<0.50	<0.50	---	160	---	---	---	---	---	---	---	---	372.40	32.55	339.85	---	---
MW-2	12/06/2001	<50	<0.50	<0.50	<0.50	<0.50	---	170	---	---	---	---	---	---	---	---	372.40	33.15	339.25	---	---
MW-2	02/05/2002	<50	0.72	<0.50	<0.50	1.7	---	170	---	---	---	---	---	---	---	---	372.40	32.29	340.11	---	---
MW-2	06/17/2002	<50	<0.50	<0.50	<0.50	<0.50	---	260	---	---	---	---	---	---	---	---	372.40	32.63	339.77	---	---
MW-2	07/25/2002	<50	<0.50	<0.50	<0.50	<0.50	---	280	---	---	---	---	---	---	---	---	372.40	32.80	339.60	---	---
MW-2	11/14/2002	120	13	9.0	3.8	14	---	430	---	---	---	---	---	---	---	---	372.40	33.31	339.09	---	---
MW-2	02/12/2003	<100	<1.0	<1.0	<1.0	<1.0	---	430	---	---	---	---	---	---	---	---	372.40	32.15	340.25	---	---
MW-2	05/14/2003	<250	<2.5	<2.5	<2.5	<5.0	---	470	---	---	---	---	---	---	---	---	372.40	32.01	340.39	---	---
MW-2	07/29/2003	<250	<2.5	<2.5	<2.5	<5.0	---	670	---	---	---	---	---	---	---	---	372.40	32.51	339.89	---	---
MW-2	11/19/2003	<50	<0.50	<0.50	<0.50	<1.0	---	54	---	---	---	---	---	---	---	---	372.40	33.83	338.57	---	---
MW-2	02/19/2004	65	<0.50	3.4	1.4	6.5	---	8.2	---	---	---	---	---	---	---	---	372.40	32.68	339.72	---	---
MW-2	05/03/2004	<50	<0.50	<0.50	<0.50	<1.0	---	5.2	---	---	---	---	---	---	---	---	372.40	32.07	340.33	---	---
MW-2	08/24/2004	<50	<0.50	<0.50	<0.50	<1.0	---	2.7	---	---	---	---	---	---	---	---	372.40	32.44	339.96	---	---
MW-2	11/15/2004	<50	<0.50	<0.50	<0.50	<1.0	---	1.3	---	---	---	---	---	---	---	---	372.40	32.95	339.45	---	---
MW-2	02/02/2005	<50	<0.50	<0.50	<0.50	<1.0	---	24	---	---	---	---	---	---	---	---	372.40	31.94	340.46	---	---
MW-2	05/05/2005	72 c	<0.50	<0.50	<0.50	<1.0	---	4.9	---	---	---	---	---	---	---	---	372.40	31.91	340.49	---	---
MW-2	08/05/2005	<50	<0.50	<0.50	<0.50	<1.0	---	16	---	---	---	---	---	---	---	---	372.40	32.15	340.25	---	---
MW-2	11/22/2005	840	0.80	<0.500	<0.500	0.87	---	556	---	---	---	---	---	---	---	---	372.40	32.31	340.09	---	---
MW-2	02/07/2006	3,550	<0.500	<0.500	<0.500	<0.500	---	2,500	---	---	---	---	---	---	---	---	372.40	31.70	340.70	---	---
MW-2	05/16/2006	1,400	<5.0	<5.0	<5.0	<10	---	1,700	---	---	---	---	---	---	---	---	372.40	31.38	341.02	---	---
MW-2	08/21/2006	1,910	<0.500	<0.500	<0.500	<0.500	---	2,590	---	---	---	---	---	---	---	---	372.40	33.29	339.11	---	---
MW-2	11/14/2006	2,300 c	<25	<25	<25	<25	---	2,500	<1,000	<25	<25	<25	---	---	---	---	372.40	32.67	339.73	---	---
MW-2	02/01/2007	670	<0.50	<0.50	<0.50	<1.0	---	2,000	---	---	---	---	---	---	---	---	372.40	32.13	340.27	---	---
MW-2	06/01/2007	500 d,e	<10	<20	<20	<20	---	2,000	---	---	---	---	---	---	---	---	372.40	32.14	340.26	---	---
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	---	---

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 $CaCO_3$ (µg/L)	Ferrous Iron (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
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-2	05/14/2013	840 j	<5.0	<5.0	<5.0	<10	---	730	<100	---	---	---	5,800	55,000	420,000	---	372.40	33.61	338.79	0.53	78
MW-2	**07/31/2013**	**1,500**	**<10**	**<10**	**<10**	**<20**	**---**	**1,100**	**<200**	**---**	**---**	**---**	**9,500**	**79,000**	**300,000**	**---**	**372.40**	**35.00**	**337.40**	**1.07**	**1**
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	---	---
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	---	---

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 $CaCO_3$ (µg/L)	Ferrous Iron (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
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-3	05/14/2013	<50	<0.50	<0.50	<0.50	<1.0	---	1.2	<10	---	---	---	<110	17,000	280,000	---	375.05	32.92	342.13	1.10	78
MW-3	**07/31/2013**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**---**	**2.5**	**<10**	**---**	**---**	**---**	**<110**	**2,400**	**370,000**	**---**	**375.05**	**33.56**	**341.49**	**1.56**	**-82**
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	---	---
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	---	---

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 $CaCO_3$ (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	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
MW-4	04/01/2013	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	372.78	28.95	343.83	---	---
MW-4	05/14/2013	910	<0.50	<0.50	1.4	7.5	---	46	290	---	---	---	1,700	130,000	80,000	---	372.78	35.48	337.30	1.34	70
MW-4	**07/31/2013**	**1,200**	**<0.50**	**<0.50**	**2.0**	**2.8**	**---**	**200**	**630**	**---**	**---**	**---**	**1,900**	**81,000**	**100,000**	**---**	**372.78**	**36.00**	**336.78**	**1.43**	**31**
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	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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

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 $CaCO_3$ (µg/L)	Ferrous Iron (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
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
TAME = Tertiary-amyl methyl ether analyzed by EPA Method 8260B
Nitrate as N and sulfate analyzed by EPA Method 300.0
Alkalinity as CaCO3 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
µg/L = Micrograms per liter
ft = Feet

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 $CaCO_3$ (µg/L)	Ferrous Iron (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)

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
j = The Gasoline Range Organics concentration reported is due to the presence of discrete peaks of MTBE.

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 # 130731-C42 Date 7/3/13 Client SHELL

Site 4212 FIRST STREET, 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 (TOC)	Notes
MW-1	1255	2					37.02	57.16		
MW-1B	1246	4					102.77	108.00		
MW-2	1250	4					35.00	45.77		
MW-3	1240	4					33.56	34.60		
MW-4	1301	4					36.00	46.65	↓	

SHELL WELL MONITORING DATA SHEET

BTS #: 130731-CH2	Site: 4212 First St. Pleasanton
Sampler: CH	Date: 7/31/13
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 57.16	Depth to Water (DTW): 37.02
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]: 41.05	

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

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

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	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1355	73.1	6.20	1829	635	3.2	
	DEWATERED	@	6.0 gal	—	6.0	
1555	73.0	6.13	1921	198	—	Fe^{2+}: 0.0 mg/L

Did well dewater? (Yes) No Gallons actually evacuated: 6.0

Sampling Date: 7/31/13 Sampling Time: 1555 Depth to Water: 42.35 (24HR)

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

SHELL WELL MONITORING DATA SHEET

BTS #: 130731-CU2	Site: 4212 First St., Pleasanton
Sampler: CU	Date: 7/31/13
Well I.D.: MW-1B	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 108.00	Depth to Water (DTW): 102.77
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]: 103.82	

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

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

3.4 (Gals.) X 3 = 10.2 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1325	72.0	7.13	1157	997	3.5	
	Dewatered	@ 4.5	gallons —		4.5	
1528	72.7	7.11	1108	132	—	Fe^{2+}: 0.0 mg/L

Did well dewater? (Yes) No — Gallons actually evacuated: 4.5

Sampling Date: 7/31/13 — Sampling Time: 1528 — Depth to Water: 104.23 (2HR)

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	(Post-purge:)	1.98 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	20 mV

SHELL WELL MONITORING DATA SHEET

BTS #: 130731-CH2	Site: 4212 FIRST STREET, PLEASANTON
Sampler: CH	Date: 7/31/13
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 45.77	Depth to Water (DTW): 35.00
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]: 37.15	

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

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

7.0 (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	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1340	73.2	6.40	871	31	7.0	
	DEWATERED	@	11.5	gal.	11.5	
1540	72.0	6.17	896	27	—	Fe^{2+}: 0.0 mg/L

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

Sampling Date: 7/31/13 Sampling Time: 1540 Depth to Water: 39.89 (zone)

Sample I.D.: MW-2 Laboratory: (Test America) Other ____

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

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:	1.07 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	1 mV

SHELL WELL MONITORING DATA SHEET

BTS #: 130731-CH2	Site: 4212 First St. Pleasanton
Sampler: CH	Date: 7/31/13
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 34.60	Depth to Water (DTW): 33.56
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]: 33.77	

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

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

0.7 (Gals.) X 3 = 2.1 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1310	75.5	7.00	834	93	0.7	
	Dewatered @ 1.0			991 —	1.0	
						Fe^{2+}: 1.6 mg/L
1520	75.0	6.86	863	78	—	

Did well dewater? (Yes) No Gallons actually evacuated: 1.0

Sampling Date: 7/31/13 Sampling Time: 1520 Depth to Water: 33.85 (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	Post-purge:	1.56 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	-82 mV

SHELL WELL MONITORING DATA SHEET

BTS #: 130731-CH2	Site: 4212 FIRST St, PLEASANTON
Sampler: CH	Date: 7/31/13
Well I.D.: MW-4	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 46.65	Depth to Water (DTW): 36.00
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]: 38.13	

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

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

6.9 (Gals.) X	3	=	20.7 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1411	71.9	7.02	649	387	7.0	
1413	71.3	6.98	648	345	14.0	
	DEWATERED		@ 14.5 gal		14.5	
	72.1	6.96	605	301	—	Fe^{2+}: 0.0 mg/L

Did well dewater? Yes (No) Gallons actually evacuated: 14.5

Sampling Date: 7/31/13 Sampling Time: 1515 Depth to Water: 37.97

Sample I.D.: MW-4 Laboratory: (Test America) Other ____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) (Other: Set 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):	1.43 mg/L
O.R.P. (if req'd):	Pre-purge:		mV	Post-purge:	31 mV

INCIDENT # 98995840

DATE: 7/31/13

ADDRESS 4212 FIRST STREET

CITY & STATE PLEASANTON, CA

Well ID	Observations Upon Arrival: Manway Cover, Type, Condition & Size					Well Labeled / Painted Properly*		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition		Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials
MW-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 = 0 | 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	✓	G	P	**N/A**	G	P	**N/A**	G	P	**N/A**	Y	N	**N/A**		Y	**N**	
Building																	
Building w/ Fence Comp.																	
Fenced Compound																	
Trailer																	

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

G = Good (Acceptable) R = Replaced

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

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

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

Version 2.4, March 2008

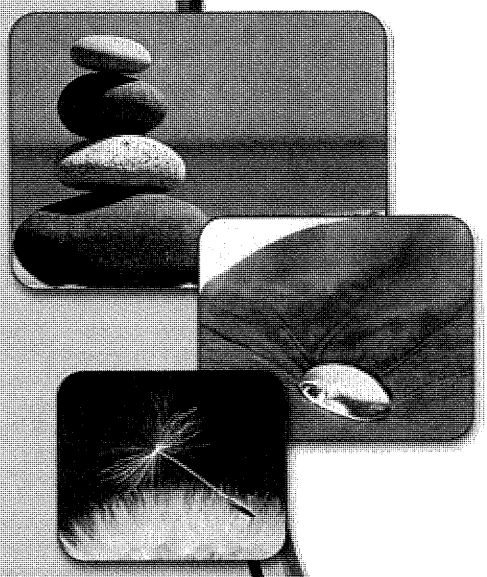
All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

Corey Kilpatrick BTS

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: 440-53166-1
Client Project/Site: 4212 First St., Pleasanton, CA

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

Attn: Peter Schaefer

Philip Sanelle

Authorized for release by:
8/14/2013 10:02:28 AM

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

Table of Contents

Sample Summary

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

TestAmerica Job ID: 440-53166-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-53166-1	MW-1	Ground Water	07/31/13 15:55	08/01/13 09:40
440-53166-2	MW-1B	Ground Water	07/31/13 15:28	08/01/13 09:40
440-53166-3	MW-2	Ground Water	07/31/13 15:40	08/01/13 09:40
440-53166-4	MW-3	Ground Water	07/31/13 15:20	08/01/13 09:40
440-53166-5	MW-4	Ground Water	07/31/13 15:15	08/01/13 09:40

Case Narrative

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

TestAmerica Job ID: 440-53166-1

Job ID: 440-53166-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-53166-1

Comments
No additional comments.

Receipt
The samples were received on 8/1/2013 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperatures of the 5 coolers at receipt time were 2.7° C, 3.3° C, 3.7° C, 4.2° C and 4.5° C.

GC/MS VOA
No analytical or quality issues were noted.

HPLC
No 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 ID: MW-1

Date Collected: 07/31/13 15:55
Date Received: 08/01/13 09:40

Lab Sample ID: 440-53166-1
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	4700		500		ug/L			08/10/13 16:01	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*94*		*80 - 120*		*08/10/13 16:01*	*10*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*		*08/10/13 16:01*	*10*
Toluene-d8 (Surr)	*106*		*80 - 120*		*08/10/13 16:01*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	550		5.0		ug/L			08/10/13 16:01	10
Ethylbenzene	ND		5.0		ug/L			08/10/13 16:01	10
Methyl-t-Butyl Ether (MTBE)	870		5.0		ug/L			08/10/13 16:01	10
tert-Butyl alcohol (TBA)	470		100		ug/L			08/10/13 16:01	10
Toluene	ND		5.0		ug/L			08/10/13 16:01	10
Xylenes, Total	59		10		ug/L			08/10/13 16:01	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*		*08/10/13 16:01*	*10*
Dibromofluoromethane (Surr)	*94*		*80 - 120*		*08/10/13 16:01*	*10*
Toluene-d8 (Surr)	*106*		*80 - 120*		*08/10/13 16:01*	*10*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	350		110		ug/L			08/01/13 16:55	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	42000		10000		ug/L			08/01/13 17:11	20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	530000		4000		ug/L			08/13/13 12:30	1

Client Sample ID: MW-1B

Date Collected: 07/31/13 15:28
Date Received: 08/01/13 09:40

Lab Sample ID: 440-53166-2
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			08/10/13 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*90*		*80 - 120*		*08/10/13 13:22*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*08/10/13 13:22*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*08/10/13 13:22*	*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			08/10/13 13:22	1
Ethylbenzene	ND		0.50		ug/L			08/10/13 13:22	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/10/13 13:22	1

Client Sample ID: MW-1B

Date Collected: 07/31/13 15:28
Date Received: 08/01/13 09:40

Lab Sample ID: 440-53166-2
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol (TBA)	ND		10		ug/L			08/10/13 13:22	1
Toluene	ND		0.50		ug/L			08/10/13 13:22	1
Xylenes, Total	ND		1.0		ug/L			08/10/13 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*08/10/13 13:22*	*1*
Dibromofluoromethane (Surr)	*90*		*80 - 120*		*08/10/13 13:22*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*08/10/13 13:22*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**20000**		2200		ug/L			08/01/13 18:16	20
Sulfate	**50000**		10000		ug/L			08/01/13 18:16	20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**270000**		4000		ug/L			08/13/13 12:30	1

Client Sample ID: MW-2

Date Collected: 07/31/13 15:40
Date Received: 08/01/13 09:40

Lab Sample ID: 440-53166-3
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	**1500**		1000		ug/L			08/10/13 01:57	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*08/10/13 01:57*	*20*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*08/10/13 01:57*	*20*
Toluene-d8 (Surr)	*106*		*80 - 120*		*08/10/13 01:57*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		10		ug/L			08/10/13 01:57	20
Ethylbenzene	ND		10		ug/L			08/10/13 01:57	20
Methyl-t-Butyl Ether (MTBE)	**1100**		10		ug/L			08/10/13 01:57	20
tert-Butyl alcohol (TBA)	ND		200		ug/L			08/10/13 01:57	20
Toluene	ND		10		ug/L			08/10/13 01:57	20
Xylenes, Total	ND		20		ug/L			08/10/13 01:57	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*08/10/13 01:57*	*20*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*08/10/13 01:57*	*20*
Toluene-d8 (Surr)	*106*		*80 - 120*		*08/10/13 01:57*	*20*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**9500**		2200		ug/L			08/01/13 18:49	20
Sulfate	**79000**		10000		ug/L			08/01/13 18:49	20

Client Sample ID: MW-2

Lab Sample ID: 440-53166-3

Date Collected: 07/31/13 15:40
Matrix: Ground Water
Date Received: 08/01/13 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**300000**		4000		ug/L			08/13/13 12:30	1

Client Sample ID: MW-3

Lab Sample ID: 440-53166-4

Date Collected: 07/31/13 15:20
Matrix: Ground Water
Date Received: 08/01/13 09:40

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			08/10/13 02:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*08/10/13 02:27*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*08/10/13 02:27*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*08/10/13 02:27*	*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			08/10/13 02:27	1
Ethylbenzene	ND		0.50		ug/L			08/10/13 02:27	1
Methyl-t-Butyl Ether (MTBE)	**2.5**		0.50		ug/L			08/10/13 02:27	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			08/10/13 02:27	1
Toluene	ND		0.50		ug/L			08/10/13 02:27	1
Xylenes, Total	ND		1.0		ug/L			08/10/13 02:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*08/10/13 02:27*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*08/10/13 02:27*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*08/10/13 02:27*	*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			08/01/13 19:43	1
Sulfate	**2400**		500		ug/L			08/01/13 19:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**370000**		4000		ug/L			08/13/13 12:30	1

Client Sample ID: MW-4

Lab Sample ID: 440-53166-5

Date Collected: 07/31/13 15:15
Matrix: Ground Water
Date Received: 08/01/13 09:40

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**		50		ug/L			08/10/13 02:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*08/10/13 02:57*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/10/13 02:57*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*08/10/13 02:57*	*1*

Client Sample ID: MW-4
Date Collected: 07/31/13 15:15
Date Received: 08/01/13 09:40

Lab Sample ID: 440-53166-5
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			08/10/13 02:57	1
Ethylbenzene	**2.0**		0.50		ug/L			08/10/13 02:57	1
Methyl-t-Butyl Ether (MTBE)	**200**		0.50		ug/L			08/10/13 02:57	1
tert-Butyl alcohol (TBA)	**630**		10		ug/L			08/10/13 02:57	1
Toluene	ND		0.50		ug/L			08/10/13 02:57	1
Xylenes, Total	**2.8**		1.0		ug/L			08/10/13 02:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/10/13 02:57*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*08/10/13 02:57*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*08/10/13 02:57*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**1900**		110		ug/L			08/01/13 20:15	1
Sulfate	**81000**		5000		ug/L			08/01/13 20:32	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**100000**		4000		ug/L			08/13/13 12:30	1

Method Summary

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

TestAmerica Job ID: 440-53166-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL IRV
300.0	Anions, Ion Chromatography	MCAWW	TAL IRV
SM 2320B	Alkalinity	SM	TAL IRV

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Lab Chronicle

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

TestAmerica Job ID: 440-53166-1

Client Sample ID: MW-1

Date Collected: 07/31/13 15:55
Date Received: 08/01/13 09:40

Lab Sample ID: 440-53166-1
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	10 mL	10 mL	123594	08/10/13 16:01	AA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		10	10 mL	10 mL	123595	08/10/13 16:01	AA	TAL IRV
Total/NA	Analysis	300.0		1	1 mL		121484	08/01/13 16:55	NN	TAL IRV
Total/NA	Analysis	300.0	DL	20	1 mL		121485	08/01/13 17:11	NN	TAL IRV
Total/NA	Analysis	SM 2320B		1	25 mL	25 mL	124144	08/13/13 12:30	NB	TAL IRV

Client Sample ID: MW-1B

Date Collected: 07/31/13 15:28
Date Received: 08/01/13 09:40

Lab Sample ID: 440-53166-2
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	123594	08/10/13 13:22	AA	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	123595	08/10/13 13:22	AA	TAL IRV
Total/NA	Analysis	300.0		20	1 mL		121484	08/01/13 18:16	NN	TAL IRV
Total/NA	Analysis	300.0		20	1 mL		121485	08/01/13 18:16	NN	TAL IRV
Total/NA	Analysis	SM 2320B		1	25 mL	25 mL	124144	08/13/13 12:30	NB	TAL IRV

Client Sample ID: MW-2

Date Collected: 07/31/13 15:40
Date Received: 08/01/13 09:40

Lab Sample ID: 440-53166-3
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	10 mL	10 mL	123480	08/10/13 01:57	BD	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		20	10 mL	10 mL	123481	08/10/13 01:57	BD	TAL IRV
Total/NA	Analysis	300.0		20	1 mL		121484	08/01/13 18:49	NN	TAL IRV
Total/NA	Analysis	300.0		20	1 mL		121485	08/01/13 18:49	NN	TAL IRV
Total/NA	Analysis	SM 2320B		1	25 mL	25 mL	124144	08/13/13 12:30	NB	TAL IRV

Client Sample ID: MW-3

Date Collected: 07/31/13 15:20
Date Received: 08/01/13 09:40

Lab Sample ID: 440-53166-4
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	123480	08/10/13 02:27	BD	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	123481	08/10/13 02:27	BD	TAL IRV
Total/NA	Analysis	300.0		1	1 mL		121484	08/01/13 19:43	NN	TAL IRV
Total/NA	Analysis	300.0		1	1 mL		121485	08/01/13 19:43	NN	TAL IRV
Total/NA	Analysis	SM 2320B		1	25 mL	25 mL	124144	08/13/13 12:30	NB	TAL IRV

Lab Chronicle

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

TestAmerica Job ID: 440-53166-1

Client Sample ID: MW-4
Date Collected: 07/31/13 15:15
Date Received: 08/01/13 09:40

Lab Sample ID: 440-53166-5
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	123480	08/10/13 02:57	BD	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	123481	08/10/13 02:57	BD	TAL IRV
Total/NA	Analysis	300.0		1	1 mL		121484	08/01/13 20:15	NN	TAL IRV
Total/NA	Analysis	300.0		10	1 mL		121485	08/01/13 20:32	NN	TAL IRV
Total/NA	Analysis	SM 2320B		1	25 mL	25 mL	124144	08/13/13 12:30	NB	TAL IRV

Laboratory References:

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

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

Lab Sample ID: MB 440-123480/4
Matrix: Water
Analysis Batch: 123480

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			08/09/13 19:55	1
Ethylbenzene	ND		0.50		ug/L			08/09/13 19:55	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/09/13 19:55	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			08/09/13 19:55	1
Toluene	ND		0.50		ug/L			08/09/13 19:55	1
Xylenes, Total	ND		1.0		ug/L			08/09/13 19:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*08/09/13 19:55*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*08/09/13 19:55*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*08/09/13 19:55*	*1*

Lab Sample ID: LCS 440-123480/5
Matrix: Water
Analysis Batch: 123480

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	24.8		ug/L		99	68 - 130
Ethylbenzene	25.0	26.6		ug/L		106	70 - 130
m,p-Xylene	50.0	55.5		ug/L		111	70 - 130
Methyl-t-Butyl Ether (MTBE)	25.0	27.7		ug/L		111	63 - 131
o-Xylene	25.0	28.8		ug/L		115	70 - 130
tert-Butyl alcohol (TBA)	125	124		ug/L		99	70 - 130
Toluene	25.0	27.3		ug/L		109	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*105*		*80 - 120*

Lab Sample ID: 440-53173-A-1 MS
Matrix: Water
Analysis Batch: 123480

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		25.0	24.6		ug/L		98	66 - 130
Ethylbenzene	ND		25.0	26.7		ug/L		107	70 - 130
m,p-Xylene	ND		50.0	55.3		ug/L		111	70 - 133
Methyl-t-Butyl Ether (MTBE)	4.1		25.0	32.8		ug/L		115	70 - 130
o-Xylene	ND		25.0	27.5		ug/L		110	70 - 133
tert-Butyl alcohol (TBA)	ND		125	129		ug/L		103	70 - 130
Toluene	ND		25.0	27.1		ug/L		108	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

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

Lab Sample ID: 440-53173-A-1 MSD
Matrix: Water
Analysis Batch: 123480

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		25.0	25.1		ug/L		100	66 - 130	2	20
Ethylbenzene	ND		25.0	27.7		ug/L		111	70 - 130	3	20
m,p-Xylene	ND		50.0	56.8		ug/L		114	70 - 133	3	25
Methyl-t-Butyl Ether (MTBE)	4.1		25.0	34.2		ug/L		120	70 - 130	4	25
o-Xylene	ND		25.0	28.7		ug/L		115	70 - 133	5	20
tert-Butyl alcohol (TBA)	ND		125	127		ug/L		102	70 - 130	1	25
Toluene	ND		25.0	27.3		ug/L		109	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*105*		*80 - 120*

Lab Sample ID: MB 440-123594/7
Matrix: Water
Analysis Batch: 123594

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			08/10/13 11:49	1
Ethylbenzene	ND		0.50		ug/L			08/10/13 11:49	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			08/10/13 11:49	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			08/10/13 11:49	1
Toluene	ND		0.50		ug/L			08/10/13 11:49	1
Xylenes, Total	ND		1.0		ug/L			08/10/13 11:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*08/10/13 11:49*	*1*
Dibromofluoromethane (Surr)	*92*		*80 - 120*		*08/10/13 11:49*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*08/10/13 11:49*	*1*

Lab Sample ID: LCS 440-123594/5
Matrix: Water
Analysis Batch: 123594

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	24.7		ug/L		99	68 - 130
Ethylbenzene	25.0	25.6		ug/L		102	70 - 130
m,p-Xylene	50.0	51.2		ug/L		102	70 - 130
Methyl-t-Butyl Ether (MTBE)	25.0	23.7		ug/L		95	63 - 131
o-Xylene	25.0	26.6		ug/L		106	70 - 130
tert-Butyl alcohol (TBA)	125	127		ug/L		101	70 - 130
Toluene	25.0	24.9		ug/L		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*106*		*80 - 120*

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

Lab Sample ID: 440-53166-2 MS
Matrix: Ground Water
Analysis Batch: 123594

Client Sample ID: MW-1B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		25.0	24.1		ug/L		96	66 - 130
Ethylbenzene	ND		25.0	24.9		ug/L		100	70 - 130
m,p-Xylene	ND		50.0	49.0		ug/L		98	70 - 133
Methyl-t-Butyl Ether (MTBE)	ND		25.0	21.8		ug/L		87	70 - 130
o-Xylene	ND		25.0	26.0		ug/L		104	70 - 133
tert-Butyl alcohol (TBA)	ND		125	126		ug/L		100	70 - 130
Toluene	ND		25.0	23.8		ug/L		95	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*80 - 120*
Toluene-d8 (Surr)	*105*		*80 - 120*

Lab Sample ID: 440-53166-2 MSD
Matrix: Ground Water
Analysis Batch: 123594

Client Sample ID: MW-1B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		25.0	24.5		ug/L		98	66 - 130	2	20
Ethylbenzene	ND		25.0	25.6		ug/L		102	70 - 130	3	20
m,p-Xylene	ND		50.0	50.9		ug/L		102	70 - 133	4	25
Methyl-t-Butyl Ether (MTBE)	ND		25.0	22.1		ug/L		89	70 - 130	2	25
o-Xylene	ND		25.0	26.6		ug/L		107	70 - 133	2	20
tert-Butyl alcohol (TBA)	ND		125	128		ug/L		102	70 - 130	2	25
Toluene	ND		25.0	24.7		ug/L		99	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*93*		*80 - 120*
Toluene-d8 (Surr)	*106*		*80 - 120*

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

Lab Sample ID: MB 440-123481/4
Matrix: Water
Analysis Batch: 123481

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			08/09/13 19:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*08/09/13 19:55*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*08/09/13 19:55*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*08/09/13 19:55*	*1*

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

Lab Sample ID: LCS 440-123481/6
Matrix: Water
Analysis Batch: 123481

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	500	571		ug/L		114	55 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*109*		*80 - 120*

Lab Sample ID: 440-53173-A-1 MS
Matrix: Water
Analysis Batch: 123481

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	ND		1730	1410		ug/L		80	50 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: 440-53173-A-1 MSD
Matrix: Water
Analysis Batch: 123481

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Volatile Fuel Hydrocarbons (C4-C12)	ND		1730	1520		ug/L		86	50 - 145	8	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*105*		*80 - 120*

Lab Sample ID: MB 440-123595/7
Matrix: Water
Analysis Batch: 123595

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			08/10/13 11:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*92*		*80 - 120*		*08/10/13 11:49*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*08/10/13 11:49*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*08/10/13 11:49*	*1*

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

Lab Sample ID: LCS 440-123595/6
Matrix: Water
Analysis Batch: 123595

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	500	434		ug/L		87	55 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*91*		*80 - 120*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*
Toluene-d8 (Surr)	*106*		*80 - 120*

Lab Sample ID: 440-53166-2 MS
Matrix: Ground Water
Analysis Batch: 123595

Client Sample ID: MW-1B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	ND		1730	1200		ug/L		70	50 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Toluene-d8 (Surr)	*105*		*80 - 120*

Lab Sample ID: 440-53166-2 MSD
Matrix: Ground Water
Analysis Batch: 123595

Client Sample ID: MW-1B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Volatile Fuel Hydrocarbons (C4-C12)	ND		1730	1220		ug/L		70	50 - 145	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*93*		*80 - 120*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Toluene-d8 (Surr)	*106*		*80 - 120*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 440-121484/4
Matrix: Water
Analysis Batch: 121484

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		110		ug/L			08/01/13 11:32	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 440-121484/2
Matrix: Water
Analysis Batch: 121484

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	1130	1090		ug/L		97	90 - 110

Lab Sample ID: MB 440-121485/4
Matrix: Water
Analysis Batch: 121485

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			08/01/13 11:32	1

Lab Sample ID: LCS 440-121485/2
Matrix: Water
Analysis Batch: 121485

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10000	9680		ug/L		97	90 - 110

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 440-53166-1 MS
Matrix: Ground Water
Analysis Batch: 121484

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N - DL	ND		11300	10900		ug/L		97	80 - 120

Lab Sample ID: 440-53166-1 MSD
Matrix: Ground Water
Analysis Batch: 121484

Client Sample ID: MW-1
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 - DL	ND		11300	11100		ug/L		98	80 - 120	2	20

Lab Sample ID: 440-53166-1 MS
Matrix: Ground Water
Analysis Batch: 121485

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate - DL	42000		100000	139000		ug/L		97	80 - 120

Lab Sample ID: 440-53166-1 MSD
Matrix: Ground Water
Analysis Batch: 121485

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate - DL	42000		100000	142000		ug/L		100	80 - 120	2	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 440-124144/1
Matrix: Water
Analysis Batch: 124144

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			08/13/13 12:30	1

Lab Sample ID: LCS 440-124144/2
Matrix: Water
Analysis Batch: 124144

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	121000	120000		ug/L		99	90 - 110

Lab Sample ID: 440-53213-O-1 DU
Matrix: Water
Analysis Batch: 124144

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	260000		264000		ug/L		0	20

QC Association Summary

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

TestAmerica Job ID: 440-53166-1

GC/MS VOA

Analysis Batch: 123480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-53166-3	MW-2	Total/NA	Ground Water	8260B	
440-53166-4	MW-3	Total/NA	Ground Water	8260B	
440-53166-5	MW-4	Total/NA	Ground Water	8260B	
440-53173-A-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-53173-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 440-123480/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-123480/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 123481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-53166-3	MW-2	Total/NA	Ground Water	8260B/CA_LUFT MS	
440-53166-4	MW-3	Total/NA	Ground Water	8260B/CA_LUFT MS	
440-53166-5	MW-4	Total/NA	Ground Water	8260B/CA_LUFT MS	
440-53173-A-1 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-53173-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-123481/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-123481/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 123594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-53166-1	MW-1	Total/NA	Ground Water	8260B	
440-53166-2	MW-1B	Total/NA	Ground Water	8260B	
440-53166-2 MS	MW-1B	Total/NA	Ground Water	8260B	
440-53166-2 MSD	MW-1B	Total/NA	Ground Water	8260B	
LCS 440-123594/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-123594/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 123595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-53166-1	MW-1	Total/NA	Ground Water	8260B/CA_LUFT MS	
440-53166-2	MW-1B	Total/NA	Ground Water	8260B/CA_LUFT MS	
440-53166-2 MS	MW-1B	Total/NA	Ground Water	8260B/CA_LUFT MS	
440-53166-2 MSD	MW-1B	Total/NA	Ground Water	8260B/CA_LUFT MS	
LCS 440-123595/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-123595/7	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

HPLC/IC

Analysis Batch: 121484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-53166-1	MW-1	Total/NA	Ground Water	300.0	

HPLC/IC (Continued)

Analysis Batch: 121484 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-53166-1 MS - DL	MW-1	Total/NA	Ground Water	300.0	
440-53166-1 MSD - DL	MW-1	Total/NA	Ground Water	300.0	
440-53166-2	MW-1B	Total/NA	Ground Water	300.0	
440-53166-3	MW-2	Total/NA	Ground Water	300.0	
440-53166-4	MW-3	Total/NA	Ground Water	300.0	
440-53166-5	MW-4	Total/NA	Ground Water	300.0	
LCS 440-121484/2	Lab Control Sample	Total/NA	Water	300.0	
MB 440-121484/4	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 121485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-53166-1 - DL	MW-1	Total/NA	Ground Water	300.0	
440-53166-1 MS - DL	MW-1	Total/NA	Ground Water	300.0	
440-53166-1 MSD - DL	MW-1	Total/NA	Ground Water	300.0	
440-53166-2	MW-1B	Total/NA	Ground Water	300.0	
440-53166-3	MW-2	Total/NA	Ground Water	300.0	
440-53166-4	MW-3	Total/NA	Ground Water	300.0	
440-53166-5	MW-4	Total/NA	Ground Water	300.0	
LCS 440-121485/2	Lab Control Sample	Total/NA	Water	300.0	
MB 440-121485/4	Method Blank	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 124144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-53166-1	MW-1	Total/NA	Ground Water	SM 2320B	
440-53166-2	MW-1B	Total/NA	Ground Water	SM 2320B	
440-53166-3	MW-2	Total/NA	Ground Water	SM 2320B	
440-53166-4	MW-3	Total/NA	Ground Water	SM 2320B	
440-53166-5	MW-4	Total/NA	Ground Water	SM 2320B	
440-53213-O-1 DU	Duplicate	Total/NA	Water	SM 2320B	
LCS 440-124144/2	Lab Control Sample	Total/NA	Water	SM 2320B	
MB 440-124144/1	Method Blank	Total/NA	Water	SM 2320B	

Glossary

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

Certification Summary

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

TestAmerica Job ID: 440-53166-1

Laboratory: TestAmerica Irvine

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-14
Arizona	State Program	9	AZ0671	10-13-13
California	LA Cty Sanitation Districts	9	10256	01-31-14
California	NELAP	9	1108CA	01-31-14
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	01-28-14 *
Hawaii	State Program	9	N/A	01-31-14
Nevada	State Program	9	CA015312007A	07-31-14
New Mexico	State Program	6	N/A	01-31-14
Northern Mariana Islands	State Program	9	MP0002	01-31-14
Oregon	NELAP	10	4005	09-12-13
USDA	Federal		P330-09-00080	06-06-14
USEPA UCMR	Federal	1	CA01531	01-31-15

* Expired certification is currently pending renewal and is considered valid.

Shell Oil Products Chain Of Custody Record

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

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

Print Bill To Contact Name: 240523 Peter Schaefer

PO #

INCIDENT # (ENV SERVICES) 9 8 9 9 5 8 4 0 ☐ CHECK IF NO INCIDENT # APPLIES

SAP # 1 3 5 7 8 2

DATE 7/31/13

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services
LOG CODE: BTSS
SITE ADDRESS, Street and City: 4212 First Street, Pleasanton
State: CA
GLOBAL ID NO.: T0600101259

ADDRESS: 1680 Rogers Avenue, San Jose, CA
EDF DELIVERABLE TO (Name, Company, Office Location): Brenda Carter, CRA, Emeryville, CA
PHONE NO.: 510-420-3343
E-MAIL: ShellEDF@CRAWorld.com Shell-US-LabDataManagement@CRAworld.com
CONSULTANT PROJECT NO: 240523-05-11.04

PROJECT CONTACT (Hardcopy or PDF Report to): Lorin King
SAMPLER NAME(S) (Print): Corey Kilpatrick
LAB USE ONLY: 440-53166

TELEPHONE: (310) 885-4455 x 108 FAX: (310) 637-5802 E-MAIL: lking@blainetech.com

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY

REQUESTED ANALYSIS

SPECIAL INSTRUCTIONS OR NOTES:
1) Please upload the "CRA EQUIS 4-file EDD" to the CRA Website (http://cralabeddupload.craworld.com/equis/default.aspx) and/or send it to the Shell-US-LabDataManagement@CRAworld.com email folder. 2) *Please indicate that you have uploaded the EDD by including "EDD Uploaded to CRA website" in the body of the email used to deliver the final PDF report to the Shell-US-LabDataManagement@CRAworld.com email folder*

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

Copy final report to Shell.Lab.Billing@craworld.com, ShellEDF@craworld.com, Shell-US-LabDataManagement@CRAworld.com, and pschaefer@CRAWorld.com

Email invoice to Shell.Lab.Billing@craworld.com

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

TEMPERATURE ON RECEIPT °C: CS 2.7/2.5, 4.5/4.3, 3.3/3.1, 3.7/3.5, 4.2/4.0

Analyses columns: TPH-GRO, Purgeable (8260B); TPH-DRO, Extractable (8015M); BTEX (8260B); BTEX + MTBE (8260B); BTEX + MTBE + TBA (8260B); BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B; VOCs Full list (8260B); Single Compound: (8260B); 1,2 DCA (8260B); EDB (8260B); Ethanol (8260B); Methanol (8015B); Nitrate; Sulfate; Alkalinity; Ferrous Iron

LAB USE ONLY		PROJECT NUMBER	DATE (MMDDYY)	SAMPLER INITIALS	WELL ID	TIME	MATRIX	HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPH-GRO	BTEX + MTBE + TBA	Nitrate	Sulfate	Alkalinity
	WG	130731CK2	073113	CK	MW-1	1535	W	X			X		4	X	X	X	X	X
	↓	↓	↓	CK	MW-1B	1520	W	X			X		4	X	X	X	X	X
				CK	MW-2	1540	W	X			X		4	X	X	X	X	X
				CK	MW-3	1520	W	X			X		4	X	X	X	X	X
				CK	MW-4	1515	W	X			X		4	X	X	X	X	X

440-53166 Chain of Custody

Relinquished by (Signature)		Received by (Signature)	Date	Time
[signature]	1600	[signature]	7/31/13	1600
[signature]	1600	[signature]	7-31-13	1630
		[signature]	8/1/13	9:40

11.2°c <4hrs.

8/1/13 1600

Page 23 of 24

8/14/2013

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-53166-1

Login Number: 53166
List Number: 1
Creator: Escalante, Maria

List Source: TestAmerica Irvine

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