



**Catalina Espino
Devine**
Project Manager
Marketing Business Unit

**Chevron Environmental
Management Company**
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925)790-3949
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Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

RECEIVED

By Alameda County Environmental Health at 9:02 am, Jan 15, 2013

Re: Chevron Service Station No. 9-4800
1700 Castro Street
Oakland, CA

I have reviewed the attached report dated January 8, 2013.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Conestoga-Rovers & Associates, upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Sincerely,

A handwritten signature in blue ink, appearing to read "Catalina Espino Devine".

Catalina Espino Devine
Project Manager

Attachment: Report



**CONESTOGA-ROVERS
& ASSOCIATES**

5900 Hollis Street, Suite A
Emeryville, California 94608
Telephone: (510) 420-0700 Fax: (510) 420-9170
<http://www.craworld.com>

January 8, 2013

Reference No. 060061

Mr. Mark Detterman
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Second Semi-Annual 2012
Groundwater Monitoring and Sampling Report
Chevron Service Station 94800
1700 Castro Street
Oakland, California
Fuel Leak Case No. RO0000342

Dear Mr. Detterman:

Conestoga-Rovers & Associates (CRA) is submitting this *Second Semi-Annual 2012 Groundwater Monitoring and Sampling Report* for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company (Chevron). Groundwater monitoring and sampling was performed by Blaine Tech Services (Blaine Tech) of San Jose, California. Blaine Tech's *Fourth Quarter 2012 Monitoring* report is included as Attachment A. Groundwater monitoring and sampling data are presented in Table 1. Lancaster Laboratories' *Analytical Results* is included as Attachment B.

Equal
Employment Opportunity
Employer



**CONESTOGA-ROVERS
& ASSOCIATES**

January 8, 2013

Reference No. 060061

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Please contact Nathan Lee at (510) 420-3333 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES



Brandon S. Wilken, PG 7564

CH/cw/10

Encl.

Figure 1	Vicinity Map
Figure 2	Groundwater Elevation Contour and Hydrocarbon Concentration Map
Table 1	Groundwater Monitoring and Sampling Data
Attachment A	Monitoring Data Package
Attachment B	Laboratory Analytical Report

cc: Ms. Catalina Espino Devine, Chevron (electronic only)

FIGURES

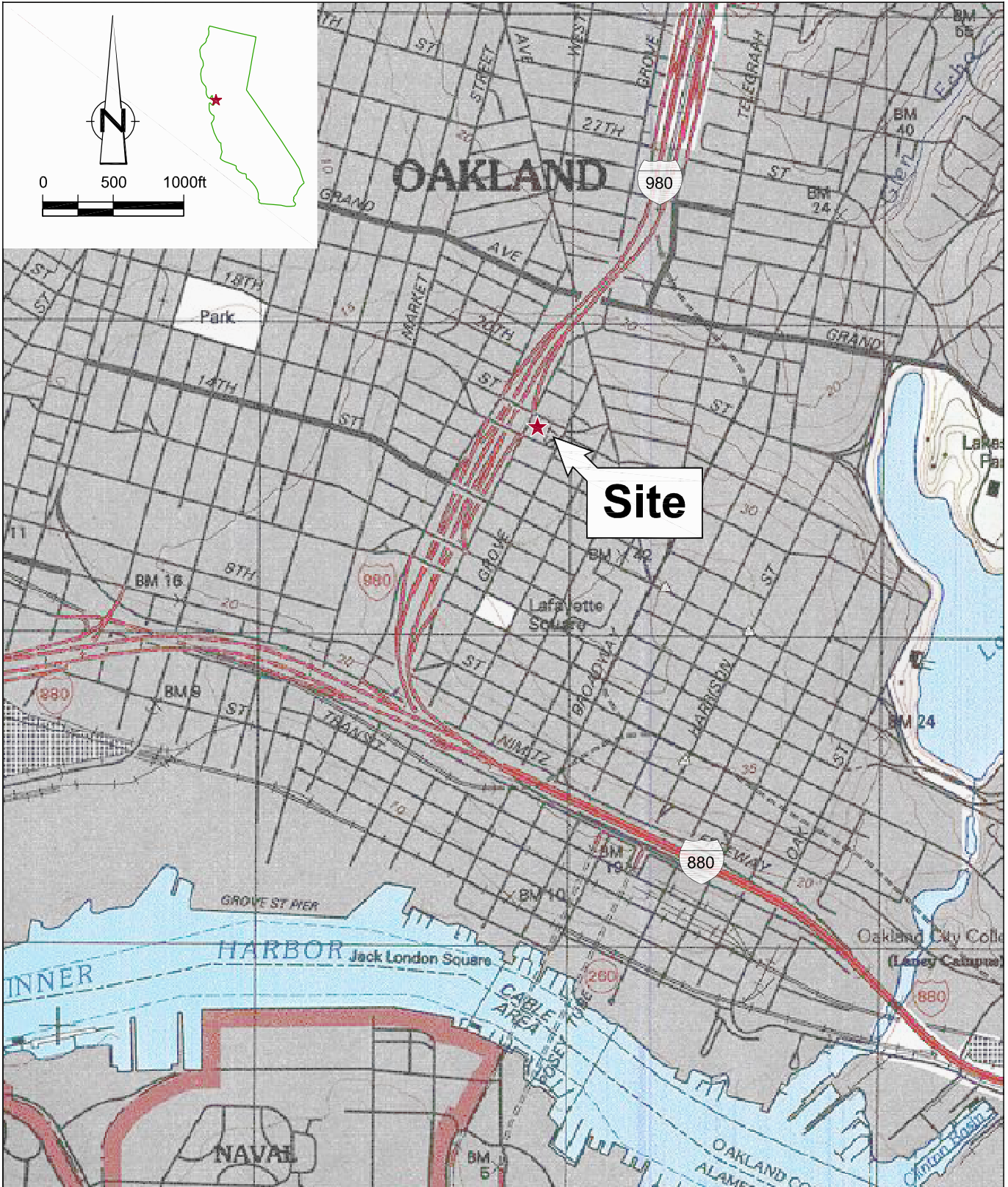
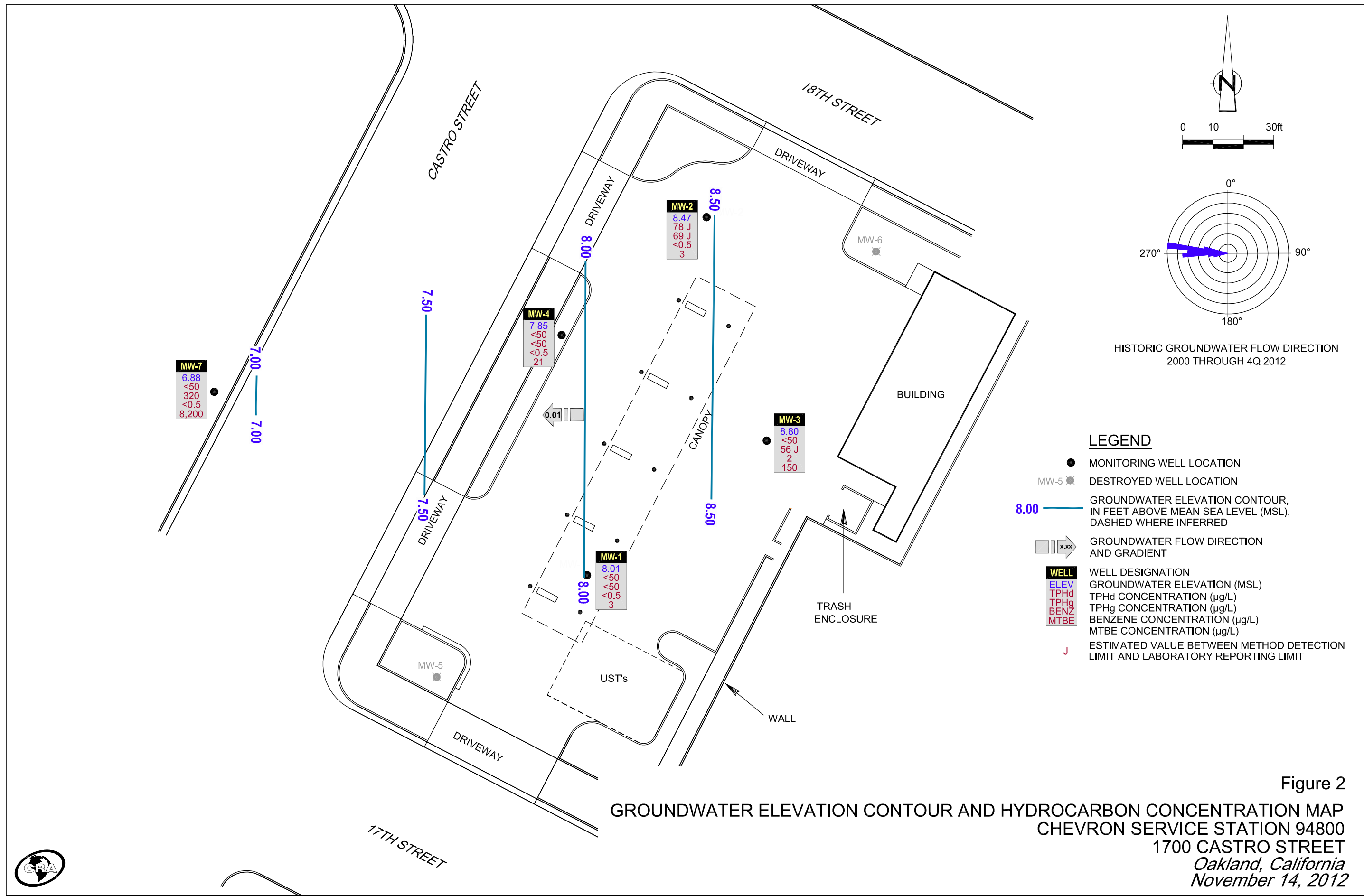


Figure 1
 VICINITY MAP
 CHEVRON SERVICE STATION 94800
 1700 CASTRO STREET
 Oakland, California





TABLE

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
 CHEVRON SERVICE STATION 94800
 1700 CASTRO ST.
 OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs						ADDITIONAL VOCs					
					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	THAME
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-1	06/04/1997	30.75	25.82	4.39	71 ¹	-	890	100	110	29	150	<10	-	-	-	-	-	-	-
MW-1	09/16/1997	30.75	25.90	4.85	75 ¹	-	1,600	210	210	60	250	<10	-	-	-	-	-	-	-
MW-1	12/17/1997	30.75	25.87	4.88	65 ¹	-	940	120	100	41	160	<25	-	-	-	-	-	-	-
MW-1	03/18/1998	30.75	24.85	5.90	77 ¹	-	530	91	39	22	65	6.8	-	-	-	-	-	-	-
MW-1	06/28/1998	30.75	24.83	5.92	140 ¹	-	1,100	220	140	37	120	-	14	-	-	-	-	-	-
MW-1	09/07/1998	30.75	25.19	5.56	280 ¹	-	1,700	530	86	84	240	49	-	-	-	-	-	-	-
MW-1	12/09/1998	30.75	25.65	5.10	240 ¹	-	1,700	240	130	100	270	32	-	-	-	-	-	-	-
MW-1	03/11/1999	30.75	25.45	5.30	98 ¹	-	353	53.9	28.6	20.5	56.1	14.1	-	-	-	-	-	-	-
MW-1	06/17/1999	30.75	25.36	5.39	217 ¹	-	810	270	150	95	340	15	-	-	-	-	-	-	-
MW-1	09/29/1999	30.75	25.62	5.13	153 ¹	-	659	76	49.7	35.1	118	12.6	-	-	-	-	-	-	-
MW-1	12/14/1999	30.75	25.68	5.07	188 ^{1,2}	-	2,760	287	199	139	502	<12.5	-	-	-	-	-	-	-
MW-1	03/09/2000 ³	30.75	25.21	5.54	166 ¹	-	1,590	238	94.9	72.2	247	22.3	-	-	-	-	-	-	-
MW-1	06/10/2000	30.75	25.02	5.73	-	-	1,460	242	47.8	83.8	151	97.3	-	-	-	-	-	-	-
MW-1	09/30/2000	30.75	25.45	5.30	240 ⁷	-	650 ⁶	130	49	69	190	21	-	-	-	-	-	-	-
MW-1	12/22/2000	30.75	25.70	5.05	200 ⁰	-	640 ⁶	110	33	58	160	68	-	-	-	-	-	-	-
MW-1	03/01/2001	30.75	25.50	5.25	211 ⁷	-	1,500 ⁶	210	67.9	109	320	87.3	-	-	-	-	-	-	-
MW-1	05/04/2001	30.75	25.34	5.41	130 ⁷	-	991	127	32.6	73.0	137	95.4	-	-	-	-	-	-	-
MW-1	09/05/2001	30.75	25.59	5.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	12/21/2001	30.75	25.58	5.17	210	-	2,000	220	16	110	400	34	-	-	-	-	-	-	-
MW-1	03/15/2002	30.75	25.15	5.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	06/15/2002	30.75	25.26	5.49	140	-	350	54	0.61	12	40	130	-	-	-	-	12	-	-
MW-1	09/06/2002	30.75	25.49	5.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	12/06/2002	30.75	25.63	5.12	2,900	-	900	71	2.1	39	150	34	-	-	-	-	-	-	-
MW-1	03/03/2003	30.75	25.29	5.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	06/17/2003 ¹⁴	30.75	25.11	5.64	180	-	290	34	0.6	23	90	-	-	92	-	-	-	-	-
MW-1	09/16/2003	30.75	25.38	5.37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	12/31/2003 ¹⁴	30.75	25.55	5.20	150	-	1,500	97	6	70	230	-	-	86	<50	-	-	-	-
MW-1	03/26/2004	30.75	25.01	5.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	08/17/2004 ¹⁴	30.75	26.16	4.59	860	-	500	44	5	12	54	-	-	76	<50	-	-	-	-
MW-1	11/16/2004 ¹⁴	34.01	26.16	7.85	<26	-	570	33	<0.5	14	53	-	-	48	<50	-	-	-	-
MW-1	02/18/2005	34.01	25.76	8.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	05/06/2005 ¹⁴	34.01	25.39	8.62	110	-	170	13	<0.5	4	18	-	-	220	<50	-	-	4	-
MW-1	08/05/2005	34.01	25.70	8.31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	11/07/2005 ¹⁴	34.01	26.02	7.99	260 ²⁰	-	180	7	<0.5	3	24	-	-	260	<50	-	-	-	-
MW-1	02/06/2006	34.01	25.68	8.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	05/08/2006 ¹⁴	34.01	24.98	9.03	730	-	270	23	<0.7	1	18	590	-	-	<50	-	-	-	-
MW-1	08/08/2006	34.01	25.52	8.49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	11/08/2006 ¹⁴	34.01	25.90	8.11	380	-	<50	0.6	<0.5	<0.5	2	140	-	-	<50	-	-	-	-
MW-1	02/06/2007	34.01	25.98	8.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
 CHEVRON SERVICE STATION 94800
 1700 CASTRO ST.
 OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs						ADDITIONAL VOCs					
					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-1	05/01/2007 ¹⁴	34.01	25.78	8.23	750	-	58	0.8	<0.5	<0.5	1	-	-	280	<50	-	-	-	-
MW-1	07/31/2007	34.01	26.00	8.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	11/08/2007 ¹⁴	34.01	26.16	7.85	330	-	<50	<0.5	<0.5	<0.5	0.9	-	-	270	<50	-	-	-	-
MW-1	02/04/2008	34.01	25.97	8.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	05/01/2008 ¹⁴	34.01	25.95	8.06	86	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	470	<50	-	-	-	-
MW-1	08/01/2008	34.01	26.04	7.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	11/13/2008 ¹⁴	34.01	26.13	7.88	<50	-	170	1	<0.5	<0.5	2	-	-	190	<50	-	-	-	-
MW-1	02/23/2009	34.01	25.94	8.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	05/20/2009	34.01	25.63	8.38	88 J	-	<50	0.6 J	<0.5	<0.5	2	-	-	190	<50	-	-	-	-
MW-1	08/25/2009	34.01	25.80	8.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-1	11/18/2009	34.01	25.93	8.08	150	-	<50	<0.5	<0.5	0.6 J	<0.5	-	-	310	<50	-	-	-	-
MW-1	05/18/2010	34.01	25.54	8.47	110	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	230	<50	9	-	-	-
MW-1	12/01/2010	34.01	25.92	8.09	52 J	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	230	<50	-	-	-	-
MW-1	05/04/2011	34.01	25.26	8.75	-	75 J	<50	<0.5	<0.5	<0.5	<0.5	-	-	180	<50	-	-	-	-
MW-1	12/09/2011	34.01	25.79	8.22	67 J	-	61 J	<0.5	<0.5	<0.5	<0.5	-	-	89	<50	-	-	-	-
MW-1	05/31/2012	34.01	25.49	8.52	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	23	<50	-	-	-	-
MW-1	11/14/2012	34.01	26.00	8.01	-	<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	3	<50	-	<0.5	-	-
MW-2	06/04/1997	30.00	24.87	5.13	4,000 ¹	-	13,000	790	30	420	1,700	4,000	-	-	-	-	-	-	-
MW-2	09/16/1997	30.00	24.94	5.06	2,200 ¹	-	4,000	360	9.7	210	460	1,500	-	-	-	-	-	-	-
MW-2	12/17/1997	30.00	24.82	5.18	2,100 ¹	-	4,100	380	<10	200	460	2,100	-	-	-	-	-	-	-
MW-2	03/18/1998	30.00	23.57	6.43	3,700 ¹	-	8,400	1,800	<50	350	630	13,000	-	-	-	-	-	-	-
MW-2	06/28/1998 ⁴	30.00	23.79	6.21	4,400 ¹	-	9,300	740	340	710	2,300	-	3,800	-	-	-	-	-	-
MW-2	09/07/1998	30.00	24.22	5.78	3,100 ¹	-	9,900	1,000	150	640	1,800	4,500 / 4,100 ⁵	-	-	-	-	-	-	-
MW-2	12/09/1998	30.00	24.69	5.31	1,900 ¹	-	8,500	860	74	610	960	2,600 / 2,600 ⁵	-	-	-	-	-	-	-
MW-2	03/11/1999	30.00	24.21	5.79	2,700 ¹	-	12,500	1,520	42.2	645	2,250	5,050 / 3,400 ⁵	-	-	-	-	-	-	-
MW-2	06/17/1999	30.00	24.31	5.69	7,150 ¹	-	27,000	2,200	260	1,500	5,900	4,700	-	-	-	-	-	-	-
MW-2	09/29/1999	30.00	24.55	5.45	3,030 ¹	-	6,910	582	11.1	491	1,170	1,970	-	-	-	-	-	-	-
MW-2	12/14/1999	30.00	24.61	5.39	615 ^{1,2}	-	4,230	282	12.3	284	690	631	-	-	-	-	-	-	-
MW-2	03/09/2000 ³	30.00	23.92	6.08	3,300 ¹	-	15,300	1,110	39.4	1,040	3,030	2,470	-	-	-	-	-	-	-
MW-2	06/10/2000	30.00	23.87	6.13	-	-	7,360	560	40.7	627	1,280	1,260	-	-	-	-	-	-	-
MW-2	09/30/2000	30.00	24.33	5.67	1,800 ⁷	-	3,600 ⁶	280	<10	420	430	290	-	-	-	-	-	-	-
MW-2	12/22/2000	30.00	24.61	5.39	870 ⁹	-	1,500 ⁶	100	<1.3	160	59	380	-	-	-	-	-	-	-
MW-2	03/01/2001	30.00	24.21	5.79	1,320 ⁷	-	2,340 ⁶	171	<5.00	238	157	864	-	-	-	-	-	-	-
MW-2	05/04/2001	30.00	24.17	5.83	3,100 ⁷	-	11,900	199	33.9	1,420	290	3,890	-	-	-	-	-	-	-
MW-2	09/05/2001	30.00	24.55	5.45	2,200	-	3,300	170	1.7	310	110	1,100	-	-	-	-	-	-	-
MW-2	12/21/2001	30.00	24.40	5.60	980	-	1,100	58	0.72	120	14	450	-	-	-	-	-	-	-
MW-2	03/15/2002	30.00	23.95	6.05	2,200	-	5,000	250	9.1	470	430	1,800	-	-	-	-	-	-	-
MW-2	06/15/2002	30.00	24.16	5.84	3,700	-	5,200	240	5.2	540	210	2,200	-	-	-	-	-	-	-

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 OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs						ADDITIONAL VOCs					
					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME
					Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-2	09/06/2002	30.00	24.41	5.59	2,200	-	2,100	84	1.4	250	30	1,000	-	-	-	-	-	-	-
MW-2	12/06/2002	30.00	24.56	5.44	730	-	780	21	<0.50	58	3.4	480	-	-	-	-	-	-	-
MW-2	03/03/2003	30.00	24.21	5.79	3,500	-	4,800	220	1.9	650	46	4,400	-	-	-	-	-	-	-
MW-2	06/17/2003 ¹⁴	30.00	23.93	6.07	4,100	-	4,700	140	4	370	84	-	-	2,700	-	-	-	-	-
MW-2	09/16/2003 ¹⁴	30.00	24.31	5.69	1,800 ¹⁵	-	1,300	38	<1	110	3	-	-	1,300	<130	-	-	-	-
MW-2	12/31/2003 ¹⁴	30.00	24.36	5.64	330	-	990	11	<0.5	23	3	-	-	440	<50	-	-	-	-
MW-2	03/26/2004	30.00	23.75	6.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	08/17/2004 ¹⁴	30.00	24.47	5.53	400	-	300	9	<0.5	18	1	-	-	340	<50	-	-	-	-
MW-2	11/16/2004 ¹⁴	32.59	24.45	8.14	4,300	-	10,000	91	7	830	1,300	-	-	1,100	<100	-	-	-	-
MW-2	02/18/2005	32.59	23.92	8.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	05/06/2005 ¹⁴	32.59	23.53	9.06	1,300	-	4,900	62	4	290	320	-	-	400	<50	-	-	-	-
MW-2	08/05/2005	32.59	23.98	8.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	11/07/2005 ¹⁴	32.59	24.32	8.27	300 ²⁰	-	800	2	<0.5	<0.5	<0.5	-	-	66	<50	-	-	-	-
MW-2	02/06/2006	32.59	23.83	8.76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	05/08/2006 ¹⁴	32.59	23.10	9.49	2,100	-	6,100	32	4	430	460	360	-	-	<50	-	-	-	-
MW-2	08/08/2006	32.59	23.80	8.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	11/08/2006 ¹⁴	32.59	24.27	8.32	770	-	120	12	<0.5	0.7	8	840	-	-	<50	-	-	-	-
MW-2	02/06/2007	32.59	24.29	8.30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	05/01/2007 ¹⁴	32.59	24.05	8.54	160	-	850	<0.5	<0.5	16	36	-	-	100	<50	-	-	-	-
MW-2	07/31/2007	32.59	24.31	8.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	11/08/2007 ¹⁴	32.59	24.47	8.12	800	-	180	<0.5	<0.5	<0.5	<0.5	-	-	37	<50	-	-	-	-
MW-2	02/04/2008	32.59	24.21	8.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	05/01/2008 ¹⁴	32.59	24.25	8.34	500	-	430	<0.5	<0.5	<0.5	5	-	-	120	<50	-	-	-	-
MW-2	08/01/2008	32.59	24.33	8.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	11/13/2008 ¹⁴	32.59	24.42	8.17	2,600	-	2,500	3	1	190	83	-	-	240	<50	-	-	-	-
MW-2	02/23/2009	32.59	24.21	8.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	05/20/2009	32.59	23.65	8.94	2,800 J	-	4,000	4	1	42	55	-	-	160	<50	-	-	-	-
MW-2	08/25/2009	32.59	24.00	8.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2	11/18/2009	32.59	24.51	8.08	2,800	-	5,400	4	1 J	69	34	-	-	79	<100	-	-	-	-
MW-2	05/18/2010	32.59	23.65	8.94	1,100	-	580	<0.5	<0.5	<0.5	<0.5	-	-	22	<50	6	-	-	-
MW-2	12/01/2010	32.59	24.20	8.39	930	-	230	<0.5	<0.5	<0.5	<0.5	-	-	20	<50	-	-	-	-
MW-2	05/04/2011	32.59	23.50	9.09	-	1,300	830	<0.5	<0.5	51	10	-	-	16	<50	-	-	-	-
MW-2	12/09/2011	32.59	24.12	8.47	180	-	140	<0.5	<0.5	<0.5	<0.5	-	-	8	<50	-	-	-	-
MW-2	05/31/2012	32.59	23.94	8.65	78 J	-	75 J	<0.5	<0.5	<0.5	<0.5	-	-	4	<50	-	-	-	-
MW-2	11/14/2012	32.59	24.12	8.47	-	-	78 J	<0.5	<0.5	<0.5	<0.5	-	-	3	<50	-	-	-	-
MW-3	06/04/1997	31.32	26.05	5.27	<50	-	190	26	20	1.5	16	8.2	-	-	-	-	-	-	-
MW-3	09/16/1997	31.32	26.15	5.17	<50	-	270	58	53	6.1	30	21	-	-	-	-	-	-	-
MW-3	12/17/1997	31.32	26.10	5.22	<50	-	290	50	54	8.1	37	21	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
CHEVRON SERVICE STATION 94800
1700 CASTRO ST.
OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs						ADDITIONAL VOCs						
					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME	
					Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-3	03/18/1998	31.32	24.90	6.42	<50	-	390	140	33	4.6	30	94	-	-	-	-	-	-	-	-
MW-3	06/28/1998	31.32	24.93	6.39	<50	-	290	90	11	1.6	13	-	150	-	-	-	-	-	-	-
MW-3	09/07/1998	31.32	25.35	5.97	<50	-	170	46	20	4.3	19	120	-	-	-	-	-	-	-	-
MW-3	12/09/1998	31.32	25.91	5.41	55 ¹	-	660	120	93	22	72	150	-	-	-	-	-	-	-	-
MW-3	03/11/1999	31.32	25.47	5.85	<50	-	653	136	69.5	13.7	63.8	144	-	-	-	-	-	-	-	-
MW-3	06/17/1999	31.32	25.42	5.90	103 ¹	-	530	190	110	24	88	210	-	-	-	-	-	-	-	-
MW-3	09/29/1999	31.32	25.71	5.61	232 ¹	-	433	97.8	61.4	16.9	56.6	156	-	-	-	-	-	-	-	-
MW-3	12/14/1999	31.32	25.77	5.55	<50 ³	-	8,650	1,040	795	212	800	995	-	-	-	-	-	-	-	-
MW-3	03/09/2000 ³	31.32	25.18	6.14	74.6 ¹	-	1,170	304	103	25.2	114	539	-	-	-	-	-	-	-	-
MW-3	06/10/2000	31.32	25.03	6.29	-	-	359	63.8	27.8	10.5	35.4	393	-	-	-	-	-	-	-	-
MW-3	09/30/2000	31.32	25.53	5.79	100 ⁸	-	220 ⁶	42	33	12	38	67	-	-	-	-	-	-	-	-
MW-3	12/22/2000	31.32	25.80	5.52	110 ⁹	-	370 ⁶	96	48	18	58	180	-	-	-	-	-	-	-	-
MW-3	03/01/2001	31.32	25.57	5.75	144 ⁷	-	912 ²	218	89.0	36.0	110	310	-	-	-	-	-	-	-	-
MW-3	05/04/2001	31.32	25.36	5.96	<50	-	1,260	146	79.6	38.2	101	1,070	-	-	-	-	-	-	-	-
MW-3	09/05/2001	31.32	25.71	5.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	12/21/2001	31.32	25.65	5.67	180	-	850	160	11	32	84	300	-	-	-	-	-	-	-	-
MW-3	03/15/2002	31.32	25.17	6.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	06/15/2002	31.32	25.31	6.01	<50	-	550	110	3.0	23	58	590	-	-	-	-	-	-	-	-
MW-3	09/06/2002	31.32	25.58	5.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	12/06/2002	31.32	25.76	5.56	160	-	350	60	1.3	11	32	530	-	-	-	-	-	-	-	-
MW-3	03/03/2003	31.32	25.40	5.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	06/17/2003 ¹⁴	31.32	25.13	6.19	130	-	560	90	2	19	57	-	-	590	-	-	-	-	-	-
MW-3	09/16/2003	31.32	25.47	5.85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	12/31/2003 ¹⁴	31.32	25.65	5.67	120	-	840	140	24	25	87	-	-	670	66	-	-	-	-	-
MW-3	03/26/2004	31.32	24.99	6.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	08/17/2004 ¹⁴	31.32	25.86	5.46	110	-	630	84	18	11	35	-	-	410	<50	-	-	-	-	-
MW-3	11/16/2004 ¹⁴	34.16	25.90	8.26	92	-	740	100	4	21	45	-	-	460	<50	-	-	-	-	-
MW-3	02/18/2005	34.16	25.37	8.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	05/06/2005 ¹⁴	34.16	24.98	9.18	83	-	290	43	<1	6	11	-	-	740	<100	-	-	-	-	-
MW-3	08/05/2005	34.16	25.35	8.81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	11/07/2005 ¹⁴	34.16	25.69	8.47	66	-	220	29	0.7	3	26	-	-	440	<50	-	-	-	-	-
MW-3	02/06/2006	34.16	25.28	8.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	05/08/2006 ¹⁴	34.16	24.49	9.67	310	-	560	70	<1	3	24	3,300	-	-	<100	-	-	-	-	-
MW-3	08/08/2006	34.16	25.16	9.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	11/08/2006 ¹⁴	34.16	25.59	8.57	210	-	510	<0.5	<0.5	<0.5	<0.5	73	-	-	<50	-	-	-	-	-
MW-3	02/06/2007	34.16	25.68	8.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	05/01/2007 ¹⁴	34.16	25.46	8.70	84	-	260	36	<0.5	0.8	18	-	-	1,200	<50	-	-	-	-	-
MW-3	07/31/2007	34.16	25.70	8.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	11/08/2007 ¹⁴	34.16	25.87	8.29	260	-	270	32	0.9	3	29	-	-	440	<50	-	-	-	-	-

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1700 CASTRO ST.
OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs						ADDITIONAL VOCs						
					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME	
					Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-3	02/04/2008	34.16	25.68	8.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	05/01/2008 ¹⁴	34.16	25.66	8.50	82	-	240	30	<0.5	<0.5	20	-	-	690	<50	-	-	-	-	-
MW-3	08/01/2008	34.16	25.76	8.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	11/13/2008 ¹⁴	34.16	25.80	8.36	<50	-	720	22	<0.5	<0.5	7	-	-	790	<50	-	-	-	-	-
MW-3	02/23/2009	34.16	25.72	8.44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	05/20/2009	34.16	25.30	8.86	210	-	460	42	<0.5	1	20	-	-	450	<50	-	-	-	-	-
MW-3	08/25/2009	34.16	25.56	8.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	11/18/2009	34.16	25.71	8.45	240	-	280	25	<0.5	<0.5	9	-	-	170	<50	-	-	-	-	-
MW-3	05/18/2010	34.16	25.11	9.05	150	-	63 J	11	<0.5	<0.5	1	-	-	110	<50	470	-	-	-	-
MW-3	12/01/2010	34.16	25.69	8.47	110	-	78 J	6	<0.5	<0.5	3	-	-	19	<50	-	-	-	-	-
MW-3	05/04/2011	34.16	24.90	9.26	-	250	370	30	<0.5	<0.5	8	-	-	200	<50	-	-	-	-	-
MW-3	12/09/2011	34.16	25.56	8.60	64 J	-	210	10	<0.5	<0.5	9	-	-	230	<50	-	-	-	-	-
MW-3	05/31/2012	34.16	25.13	9.03	<50	-	<50	1	<0.5	<0.5	1	-	-	18	<50	-	-	-	-	-
MW-3	11/14/2012	34.16	25.36	8.80	-	<50	56 J	2	<0.5	<0.5	4	-	-	150	<50	-	-	-	-	-
MW-4	04/08/1999	30.13	-	-	-	-	130	3.1	<0.5	<0.5	7.7	4,700 / 5,400	-	-	<25,000	<5,000	<100	<100	<100	
MW-4	06/17/1999	30.13	24.94	5.19	3,780 ¹	-	590	58	<5.0	<5.0	160	6,200	-	-	-	-	-	-	-	
MW-4	09/29/1999	30.13	25.17	4.96	1,130 ¹	-	692	10.7	<2.5	5.51	236	7,840	-	-	-	-	-	-	-	
MW-4	12/14/1999	30.13	25.22	4.91	571 ^{1,2}	-	625	<10	3.83	<10	94.6	4,470	-	-	-	-	-	-	-	
MW-4	03/09/2000 ³	30.13	24.68	5.45	600 ¹	-	402	3.76	1.18	<0.5	71.4	3,140	-	-	-	-	-	-	-	
MW-4	06/10/2000	30.13	24.60	5.53	-	-	<1,000	13.2	<10.0	<10.0	97.8	3,080	-	-	-	-	-	-	-	
MW-4	09/30/2000	30.13	25.04	5.09	1,400 ⁷	-	280 ⁶	21	0.67	6.3	60	3,300	-	-	-	-	-	-	-	
MW-4	12/22/2000	30.13	25.23	4.90	740 ⁹	-	240 ⁶	2.2	<0.50	1.3	25	2,200	-	-	-	-	-	-	-	
MW-4	03/01/2001	30.13	24.98	5.15	661 ⁷	-	193	2.31	<0.500	1.34	12.1	1,220	-	-	-	-	-	-	-	
MW-4	05/04/2001	30.13	24.88	5.25	1,100 ⁷	-	722	12.0	<5.00	17.1	89.4	2,390	-	-	-	-	-	-	-	
MW-4	09/05/2001	30.13	25.17	4.96	2,500	-	1,400	23	2.2	19	260	2,300	-	-	-	-	-	-	-	
MW-4	12/21/2001	30.13	25.07	5.06	1,100	-	310	2.9	<0.50	2.6	32	860	-	-	-	-	-	-	-	
MW-4	03/15/2002	30.13	24.69	5.44	3,100	-	520	5.0	<0.50	15	6.8	2,700	-	-	-	-	-	-	-	
MW-4	06/15/2002	30.13	24.84	5.29	2,400	-	950	16	3.6	41	100	2,200	-	2,400 ¹²	-	840	<2.0	<2.0	110	
MW-4	09/06/2002	30.13	25.06	5.07	2,600	-	640	9.6	0.52	9.8	28	1,700	-	-	-	-	-	-	-	
MW-4	12/06/2002	30.13	25.20	4.93	1,400	-	280	3.6	<0.50	1.7	<1.5	730	-	-	-	-	-	-	-	
MW-4	03/03/2003	30.13	24.85	5.28	1,500	-	280	2.7	<0.50	7.3	2.3	910	-	-	-	-	-	-	-	
MW-4	06/17/2003 ¹⁴	30.13	24.69	5.44	2,000	-	660	8	1	38	16	-	-	1,100	-	520	<0.5	<0.5	110	
MW-4	09/16/2003 ¹⁴	30.13	24.98	5.15	2,100 ¹⁶	-	480	6	<1	11	3	-	-	710	<100	-	-	-	-	
MW-4	12/31/2003 ¹⁴	30.13	25.06	5.07	1,400	-	220	3	<0.5	2	<0.5	-	-	390	<50	-	-	-	-	
MW-4	03/26/2004	30.13	24.53	5.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-4	08/17/2004 ¹⁴	30.13	25.45	4.68	2,100	-	470	12	1	28	4	-	-	370	<50	66	<0.5	<0.5	50	
MW-4	11/16/2004 ¹⁴	33.07	25.44	7.63	960	-	270	7	<0.5	7	6	-	-	270	<50	-	-	-	-	
MW-4	02/18/2005	33.07	25.00	8.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs						ADDITIONAL VOCs					
					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME
MW-4	05/06/2005 ¹⁴	33.07	24.69	8.38	350	-	86	0.7	<0.5	<0.5	<0.5	-	-	110	<50	21	<0.5	<0.5	8
MW-4	08/05/2005	33.07	25.02	8.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	11/07/2005 ¹⁴	33.07	25.33	7.74	150	-	54	0.6	<0.5	<0.5	<0.5	-	-	59	<50	-	-	-	-
MW-4	02/06/2006	33.07	24.94	8.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	05/08/2006 ¹⁴	33.07	24.27	8.80	200	-	66	0.5	<0.5	<0.5	<0.5	92	-	-	<50	-	-	-	-
MW-4	08/08/2006	33.07	25.16	7.91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	11/08/2006 ¹⁴	33.07	25.23	7.84	400	-	55	<0.5	<0.5	<0.5	<0.5	40	-	-	<50	-	-	-	-
MW-4	02/06/2007	33.07	25.28	7.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	05/01/2007 ¹⁴	33.07	25.08	7.99	150	-	67	<0.5	<0.5	<0.5	<0.5	-	-	76	<50	10	<0.5	<0.5	6
MW-4	07/31/2007	33.07	25.27	7.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	11/08/2007 ¹⁴	33.07	25.42	7.65	850	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	44	<50	-	-	-	-
MW-4	02/04/2008	33.07	25.23	7.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	05/01/2008 ¹⁴	33.07	25.21	7.86	110	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	67	<50	12	<0.5	<0.5	4
MW-4	08/01/2008	33.07	25.28	7.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	11/13/2008 ¹⁴	33.07	25.43	7.64	330	-	64	<0.5	<0.5	<0.5	1	-	-	220	<50	-	-	-	-
MW-4	02/23/2009	33.07	25.06	8.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	05/20/2009	33.07	24.73	8.34	560	-	130	<0.5	<0.5	<0.5	<0.5	-	-	190	<50	58	<0.5	<0.5	6
MW-4	08/25/2009	33.07	24.97	8.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	11/18/2009	33.07	25.27	7.80	860	-	120	<0.5	<0.5	<0.5	<0.5	-	-	150	<50	-	-	-	-
MW-4	05/18/2010	33.07	24.73	8.34	340	-	56 J	<0.5	<0.5	<0.5	<0.5	-	-	70	<50	33	<0.5	<0.5	4
MW-4	12/01/2010	33.07	25.13	7.94	570	-	64 J	<0.5	<0.5	<0.5	<0.5	-	-	110	<50	-	-	-	-
MW-4	05/04/2011	33.07	24.50	8.57	-	60 J	<50	<0.5	<0.5	<0.5	<0.5	-	-	25	<50	49	<0.5	<0.5	<0.5
MW-4	12/09/2011	33.07	25.12	7.95	140	-	56 J	<0.5	<0.5	<0.5	<0.5	-	-	18	<50	-	-	-	-
MW-4	05/31/2012	33.07	24.75	8.32	140	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	17	<50	60	<0.5	<0.5	0.7 J
MW-4	11/14/2012	33.07	25.22	7.85	-	<50	<50	<0.5	<0.5	<0.5	<0.5	-	-	21	<50	-	-	-	-
MW-5	04/08/1999	30.93	-	-	<50	-	<50	<0.5	<0.5	<0.5	<0.5	<2.0 / <2.5	-	-	<500	<100	<2.0	<2.0	<2.0
MW-5	06/17/1999	30.93	26.00	4.93	53.8 ¹	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-
MW-5	09/29/1999	30.93	26.20	4.73	<50	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-
MW-5	12/14/1999	30.93	26.32	4.61	<50 ²	-	<50	<0.5	<0.5	<0.5	<0.5	0.598	-	-	-	-	-	-	-
MW-5	03/09/2000 ³	30.93	25.93	5.00	<50	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-
MW-5	06/10/2000	30.93	25.72	5.21	-	-	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	-	-	-	-	-	-	-
MW-5	09/30/2000	30.93	26.14	4.79	130 ⁸	-	<50	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-
MW-5	12/22/2000	30.93	26.33	4.60	250 ⁸	-	<50	<0.50	<0.50	<0.50	<0.50	9.1	-	-	-	-	-	-	-
MW-5	03/01/2001	30.93	26.16	4.77	77.4 ²	-	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	-	-	-	-	-	-	-
MW-5	05/04/2001	30.93	26.04	4.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	09/05/2001	30.93	26.21	4.72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	12/21/2001	30.93	26.20	4.73	110	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-
MW-5	03/15/2002	30.93	25.87	5.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 1
GROUNDWATER MONITORING AND SAMPLING DATA
CHEVRON SERVICE STATION 94800
1700 CASTRO ST.
OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs						ADDITIONAL VOCs					
					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-5	06/15/2002	30.93	25.98	4.95	<50	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-
MW-5	09/06/2002	30.93	26.18	4.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	12/06/2002	30.93	26.32	4.61	<50	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-
MW-5	03/03/2003	30.93	25.99	4.94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	06/17/2003 ¹⁴	30.93	25.87	5.06	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
MW-5	09/16/2003	30.93	26.09	4.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	12/31/2003 ¹⁴	30.93	26.21	4.72	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<50	-	-	-	-
MW-5	03/26/2004	30.93	25.74	5.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	08/17/2004	30.93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	04/08/1999	30.58	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	5.6 / 4.5	-	-	<500	<100	<2.0	<2.0	<2.0
MW-6	06/17/1999	30.58	24.59	5.99	<50	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-
MW-6	09/29/1999	30.58	24.77	5.81	<50	-	<50	<0.5	<0.5	<0.5	<0.5	4.46	-	-	-	-	-	-	-
MW-6	12/14/1999	30.58	24.84	5.74	<50 ²	-	<50	<0.5	<0.5	<0.5	<0.5	4.13	-	-	-	-	-	-	-
MW-6	03/09/2000 ³	30.58	24.09	6.49	<50	-	<50	<0.5	<0.5	<0.5	<0.5	2.82	-	-	-	-	-	-	-
MW-6	06/10/2000	30.58	24.00	6.58	-	-	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	-	-	-	-	-	-	-
MW-6	09/30/2000	30.58	24.58	6.00	110 ⁸	-	<50	<0.50	<0.50	<0.50	<0.50	7.3	-	-	-	-	-	-	-
MW-6	12/22/2000	30.58	24.83	5.75	100 ⁸	-	<50	<0.50	<0.50	<0.50	<0.50	4.5	-	-	-	-	-	-	-
MW-6	03/01/2001	30.58	24.51	6.07	141 ⁷	-	<50.0	<0.500	<0.500	<0.500	<0.500	7.52	-	-	-	-	-	-	-
MW-6	05/04/2001	30.58	24.32	6.26	<50	-	<50.0	<0.500	<0.500	<0.500	<0.500	2.74	-	-	-	-	-	-	-
MW-6	09/05/2001	30.58	24.59	5.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	12/21/2001	30.58	24.65	5.93	200	-	<50	<0.50	<0.50	<0.50	<1.5	8.5	-	-	-	-	-	-	-
MW-6	03/15/2002	30.58	24.14	6.44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	06/15/2002	30.58	24.33	6.25	<50	-	<50	<0.50	<0.50	<0.50	<1.5	4.3	-	-	-	-	-	-	-
MW-6	09/06/2002	30.58	24.60	5.98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	12/06/2002	30.58	24.79	5.79	64	-	<50	<0.50	<0.50	<0.50	<1.5	5.0	-	-	-	-	-	-	-
MW-6	03/03/2003	30.58	24.44	6.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	06/17/2003 ¹⁴	30.58	24.11	6.47	<50	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	13	-	-	-	-	-
MW-6	09/16/2003	30.58	24.52	6.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	12/31/2003 ¹⁴	30.58	24.58	6.00	<50	-	<50	<0.5	<0.5	<0.5	0.5	-	-	14	<50	-	-	-	-
MW-6	03/26/2004	30.58	23.89	6.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	08/17/2004	30.58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	05/04/2001 ¹¹	31.90	27.87	4.03	<50	-	<50.0	<0.500	<5.00	<5.00	<5.00	567	-	470 ¹²	<500	57	<2.0	<2.0	11
MW-7	09/05/2001	31.90	28.04	3.86	<50	-	<50	<0.50	<0.50	<0.50	<1.5	1,400	-	1,300 ¹²	<500	<100	<2.0	<2.0	32
MW-7	12/21/2001	31.90	28.86	3.04	210	-	<50	<0.50	<0.50	<0.50	<1.5	620	-	670 ¹²	<500	<100	<2.0	<2.0	15
MW-7	03/15/2002	31.90	27.72	4.18	<50	-	<50	<0.50	<0.50	<0.50	<1.5	350 / 320	-	350 ¹²	<500	<100	<2.0	<2.0	8
MW-7	06/15/2002	31.90	27.84	4.06	<50	-	<50	<0.50	<0.50	<0.50	<1.5	850	-	960 ¹²	-	<100	<2.0	<2.0	18
MW-7	09/06/2002	31.90	27.97	3.93	<50	-	59	<0.50	<0.50	<0.50	<1.5	1,900	-	-	-	-	-	-	-

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Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs						ADDITIONAL VOCs					
					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-7	12/06/2002	31.90	28.03	3.87	<50	-	68	<0.50	<0.50	<0.50	<1.5	2,200	-	-	-	-	-	-	-
MW-7	03/03/2003	31.90	27.69	4.21	<50	-	<50	<0.50	<0.50	<0.50	<1.5	1,300	-	-	-	-	-	-	-
MW-7	06/17/2003 ¹⁴	31.90	27.76	4.14	<50	-	79	<0.5	<0.5	<0.5	<0.5	-	-	2,500	-	37	<0.5	<0.5	53
MW-7	09/16/2003 ¹⁴	31.90	27.83	4.07	<50 ¹⁷	-	110	<5	<5	<5	<5	-	-	4,400	<500	-	-	-	-
MW-7	12/31/2003 ¹⁴	31.90	27.86	4.04	<50	-	76	<2.0	<2.0	<2.0	<2.0	-	-	3,000	<200	-	-	-	-
MW-7	03/26/2004 ¹⁴	31.90	27.65	4.25	<50	-	61	<1	<1	<1	<1	-	-	2,000	-	-	-	-	-
MW-7	08/17/2004 ¹⁴	31.90	27.88	4.02	2,200	-	130	<5	<5	<5	<5	-	-	8,000	<500	<50	<5	<5	140
MW-7	11/16/2004 ¹⁴	34.35	27.87	6.48	<50	-	200	<3	<3	<3	<3	-	-	7,300	<250	-	-	-	-
MW-7	02/18/2005 ¹⁴	34.35	27.60	6.75	64	-	86	<10	<10	<10	<10	-	-	5,700	<1,000	-	-	-	-
MW-7	05/06/2005 ¹⁴	34.35	27.43	6.92	60	-	160	<5	<5	<5	<5	-	-	8,400	<500	<50	<5	<5	140
MW-7	08/05/2005 ¹⁴	34.35	27.65	6.70	81 ¹⁸	-	500	<5	<5	<5	<5	-	-	20,000 ¹⁹	<500	-	-	-	-
MW-7	11/07/2005 ¹⁴	34.35	27.79	6.56	68	-	300	<10	<10	<10	<10	-	-	24,000	<1,000	-	-	-	-
MW-7	02/06/2006 ¹⁴	34.35	27.54	6.81	72 ²¹	-	300	<0.5	<0.5	<0.5	<0.5	14,000	-	-	<50	-	-	-	-
MW-7	05/08/2006 ¹⁴	34.35	27.15	7.20	94	-	80	<2.0	<2.0	3	7	6,500	-	-	<200	-	-	-	-
MW-7	08/08/2006 ¹⁴	34.35	27.53	6.82	150	-	520	<10	<10	<10	<10	17,000	-	-	<1,000	-	-	-	-
MW-7	11/08/2006 ¹⁴	34.35	27.75	6.60	440	-	900	<5	<5	<5	<5	41,000	-	-	<500	-	-	-	-
MW-7	02/06/2007 ¹⁴	34.35	27.76	6.59	200	-	590	<5	<5	<5	<5	-	-	31,000	<500	-	-	-	-
MW-7	05/01/2007 ¹⁴	34.35	27.65	6.70	190	-	380	<3	<3	<3	<3	-	-	14,000	<250	<10	<3	<3	260
MW-7	07/31/2007 ¹⁴	34.35	27.75	6.60	270	-	570	<3	<3	<3	<3	-	-	15,000	<250	-	-	-	-
MW-7	11/08/2007 ¹⁴	34.35	27.83	6.52	150	-	520	<5	<5	<5	<5	-	-	25,000	<500	-	-	-	-
MW-7	02/04/2008 ¹⁴	34.35	27.69	6.66	87	-	540	<1	<1	<1	<1	-	-	17,000	<100	-	-	-	-
MW-7	05/01/2008 ¹⁴	34.35	27.72	6.63	<50	-	230	<5	<5	<5	<5	-	-	10,000	<500	<20	<5	<5	170
MW-7	08/01/2008 ¹⁴	34.35	27.84	6.51	<50	-	330	<3	<3	<3	<3	-	-	12,000	<250	-	-	-	-
MW-7	11/13/2008 ¹⁴	34.35	28.01	6.34	64	-	390	<10	<10	<10	<10	-	-	16,000	<1,000	-	-	-	-
MW-7	02/23/2009 ¹⁴	34.35	27.65	6.70	100	-	270	<3	<3	<3	<3	-	-	11,000	<250	-	-	-	-
MW-7	05/20/2009	34.35	27.55	6.80	48 J	-	210	<1	<1	<1	<1	-	-	6,300	<100	31	<1	<1	120
MW-7	08/25/2009	34.35	27.70	6.65	<100 U	-	160	<3	<3	<3	<3	-	-	5,700	<250	-	-	-	-
MW-7	11/18/2009	34.35	27.77	6.58	250	-	100	<1	<1	<1	<1	-	-	2,800	<130	-	-	-	-
MW-7	05/18/2010	34.35	27.51	6.84	160	-	76 J	<1	<1	<1	<1	-	-	2,400	<100	<4	<1	2	52
MW-7	12/01/2010	34.35	27.71	6.64	120	-	230	<0.5	<0.5	<0.5	<0.5	-	-	7,000	<50	-	-	-	-
MW-7	05/04/2011	34.35	27.35	7.00	-	85 J	150	<0.5	<0.5	<0.5	<0.5	-	-	4,200	<50	<2	<0.5	1	100
MW-7	12/09/2011	34.35	26.15	8.20	66 J	-	250	<0.5	<0.5	<0.5	<0.5	-	-	7,400	<50	-	-	-	-
MW-7	05/31/2012	34.35	27.40	6.95	81 J	-	240	<3	<3	<3	<3	-	-	10,000	<250	<10	<3	<3	230
MW-7	11/14/2012	34.35	27.47	6.88	-	<50	320	<0.5	<0.5	<0.5	<0.5	-	-	8,200	<50	-	-	-	-
QA	12/21/2001	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-
QA	03/15/2002	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-
QA	06/15/2002	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-
QA	09/06/2002	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-

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Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs						ADDITIONAL VOCs						
					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME	
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
QA	12/06/2002	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-	-
QA	06/17/2003 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	09/16/2003 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	12/31/2003 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	03/26/2004 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	08/17/2004 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	11/16/2004 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	02/18/2005 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	05/06/2005 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	08/05/2005 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	11/07/2005 ¹⁴	-	-	-	-	-	<50	0.6	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	02/06/2006 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	05/08/2006 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	08/08/2006 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	11/08/2006 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	02/06/2007 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	05/01/2007 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	07/31/2007 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	11/08/2007 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	02/04/2008 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	05/01/2008 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	08/01/2008 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	11/13/2008 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	02/23/2009 ¹⁴	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	05/20/2009	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	08/25/2009	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	11/18/2009	-	-	-	-	-	<50	<0.5	0.5 J	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	05/18/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	12/01/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	05/04/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	12/09/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	05/31/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
QA	11/14/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	-	-	-	-	-
Trip Blank	06/04/1997	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	09/16/1997	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	12/17/1997	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	03/18/1998	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	06/28/1998	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<2.5	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
 CHEVRON SERVICE STATION 94800
 1700 CASTRO ST.
 OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS						
					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME	
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Trip Blank	09/07/1998	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	12/09/1998	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	03/11/1999	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0	-	-	-	-	-	-	-	-
Trip Blank	06/17/1999	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	12/14/1999	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	03/09/2000 ³	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	06/10/2000	-	-	-	-	-	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	-	-	-	-	-	-	-	-
Trip Blank	09/30/2000	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	-
Trip Blank	12/22/2000 ¹⁰	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	-
Trip Blank	03/01/2001	-	-	-	-	-	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	-	-	-	-	-	-	-	-
Trip Blank	05/04/2001	-	-	-	-	-	<50.0	<0.500	<5.00	<5.00	<5.00	<0.500	-	-	-	-	-	-	-	-
Trip Blank	09/05/2001	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
 CHEVRON SERVICE STATION 94800
 1700 CASTRO ST.
 OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS					ADDITIONAL VOCS						
					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME
Units	ft	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L

Abbreviations and Notes:

TOC = Top of casing

DTW = Depth to water

GWE = Groundwater elevation

(ft-amsl) = Feet above mean sea level

ft = Feet

µg/L = Micrograms per liter

TPH-DRO = Total petroleum hydrocarbons - diesel range organics

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

VOCS = Volatile organic compounds

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes (Total)

MTBE = Methyl tertiary butyl ether

TBA = Tert-butyl alcohol

DIPE = Di-isopropyl ether

ETBE = Ethyl t-butyl ether

TAME = Tert-amyl methyl ether

-- = Not available / not applicable

<x = Not detected above laboratory method detection limit

J = Estimated Value (The result is \geq the method detection limit and < the limit of quantitation)

- 1 Chromatogram pattern indicates an unidentified hydrocarbon.
- 2 Sample was extracted outside EPA recommended holding time.
- 3 TPH-G, BTEX and MTBE was analyzed outside EPA recommended holding time.
- 4 EPA Method 8240.
- 5 Confirmation run.
- 6 Laboratory report indicates gasoline C6-C12.
- 7 Laboratory report indicates unidentified hydrocarbons C9-C24.
- 8 Laboratory report indicates unidentified hydrocarbons >C16.
- 9 Laboratory report indicates unidentified hydrocarbons C9-C40.
- 10 Laboratory report indicates this sample was analyzed outside of the EPA recommended holding time.
- 11 Well development performed.
- 12 MTBE by EPA Method 8260.
- 14 BTEX and MTBE by EPA Method 8260.
- 15 Laboratory report indicates the surrogate data for the method blank is outside QC limits. Results from the re-extraction are within the limits. The hold time had expired prior to re-extraction so all results are reported from the original extract. The TPH-D result from the re-extraction is 910 ppb.

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
 CHEVRON SERVICE STATION 94800
 1700 CASTRO ST.
 OAKLAND, CALIFORNIA

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS						ADDITIONAL VOCS						
					TPH-DRO	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	MTBE by VOC	MTBE by SW8240	MTBE by SW8260	ETHANOL	TBA	DIPE	ETBE	TAME	
Units		ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L

- 16 Laboratory report indicates the surrogate data for the method blank is outside QC limits. Results from the re-extraction are within the limits. The hold time had expired prior to re-extraction so all results are reported from the original extract. The TPH-D result from the re-extraction is 1,700 ppb.
- 17 Laboratory report indicates the surrogate data for the method blank is outside QC limits. Results from the re-extraction are within the limits. The hold time had expired prior to re-extraction so all results are reported from the original extract. Similar results were obtained in both extracts.
- 18 Laboratory report indicates the observed sample pattern is not typical of #2 fuel/diesel. It elutes in the DRO range later than #2 fuel.
- 19 Analytical result confirmed.
- 20 Laboratory report indicates the observed sample pattern includes #2 fuel/diesel and an additional pattern which elutes later in the DRO range.
- 21 Laboratory report indicates the observed sample pattern is not typical of #2 fuel/diesel. The reported result is due to individual peak(s) eluting in the DRO range.

ATTACHMENT A

MONITORING DATA PACKAGE



November 15, 2012

Chevron Environmental Management Company
Catalina Devine
6111 Bollinger Canyon Rd.
San Ramon, CA 94583

Fourth Quarter 2012 Monitoring at
Chevron Service Station 94800
1700 Castro St.
Oakland, CA

Monitoring performed on November 14, 2012

Blaine Tech Services, Inc. Groundwater Monitoring Event 121114-JO2

This submission covers the routine monitoring of groundwater wells conducted on November 14, 2012 at this location. Five monitoring wells were measured for depth to groundwater (DTW). Five monitoring wells were sampled. All sampling activities were performed in accordance with local, state and federal guidelines.

Water levels measurements were collected using an electronic slope indicator. All sampled wells were purged of three case volumes, depending on well recovery, or until water temperature, pH and conductivity stabilized. Purging was accomplished using electric submersible pumps, positive air displacement pumps, or stainless steel, Teflon, or disposable bailers. Subsequent sample collection and sample handling was performed in accordance with EPA protocols. Alternately, where applicable, wells were sampled utilizing no-purge methodology. All reused equipment was decontaminated in an integrated stainless steel sink with de-ionized water supplied Hotsy pressure washer and Liquinox or equivalent.

Fourth Quarter Groundwater Monitoring at Chevron 94800, 1700 Castro St., Oakland, CA

SAN JOSE

SACRAMENTO

LOS ANGELES

SAN DIEGO

1680 ROGERS AVENUE

SAN JOSE, CA 95112-1105

(408) 573-0555

FAX (408) 573-7771

LIC: 746684

www.blainetech.com

Samples were delivered under chain-of-custody to Lancaster Laboratories of Lancaster, Pennsylvania, for analysis. Monitoring well purgewater and equipment rinsate water was collected and transported under bill-of-lading to Blaine Tech of San Jose, California.

Enclosed documentation from this event includes copies of the Well Gauging Sheet, Well Monitoring Data Sheets, and Chain-of-Custody.

Blaine Tech Services, Inc.'s activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrogeologic conditions or formulation of recommendations was performed.

Please call if you have any questions.

Sincerely,



Dustin Becker
Blaine Tech Services, Inc.
Senior Project Manager

attachments: SOP
Well Gauging Sheet
Individual Well Monitoring Data Sheets
Chain of Custody
Wellhead Inspection Form
Bill of Lading
Calibration Log

cc: CRA
Attn: Nathan Lee
5900 Hollis St. Suite A
Emeryville, CA 94608

Fourth Quarter Groundwater Monitoring at Chevron 94800, 1700 Castro St., Oakland, CA

SAN JOSE

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BLAINE TECH SERVICES, INC. METHODS AND PROCEDURES FOR THE ROUTINE MONITORING OF GROUNDWATER WELLS AT CHEVRON SITES

Blaine Tech Services, Inc. performs environmental sampling and documentation as an independent third party. We specialize in groundwater monitoring assignments and intentionally limit the scope of our services to those centered on the generation of objective information.

To avoid conflicts of interest, Blaine Tech Services, Inc. personnel do not evaluate or interpret the information we collect. As a state licensed contractor (C-57 well drilling –water – 746684) performing strictly technical services, we do not make any professional recommendations and perform no consulting of any kind.

SAMPLING PROCEDURES OVERVIEW

SAFETY

All groundwater monitoring assignments performed for Chevron comply with Chevron's safety guidelines, 29 CFR 1910.120 and SB-198 Injury and Illness Prevention Program (IIPP). All Field Technicians receive the full 40-hour 29CFR 1910.120 OSHA SARA HAZWOPER course, medical clearance and on-the-job training prior to commencing any work on any Chevron site.

INSPECTION AND GAUGING

Wells are inspected prior to evacuation and sampling. The condition of the wellhead is checked and noted according to a wellhead inspection checklist.

Standard measurements include the depth to water (DTW) and the total well depth (TD) obtained with industry standard electronic water level indicators that are graduated in increments of hundredths of a foot.

The water in each well is inspected for the presence of immiscibles. When free product is suspected, its presence is confirmed using an electronic interface probe (e.g. GeoTech). No samples are collected from a well containing product.

TRADITIONAL PURGING & SAMPLING

Evacuation

Depth to water measurements are collected by our personnel prior to purging and minimum purge volumes are calculated anew for each well based on the height of the water column and the diameter of the well. Expected purge volumes are never less than three case volumes and are set at no less than four case volumes in some jurisdictions.

Well purging devices are selected on the basis of the well diameter and the total volume to be evacuated. In most cases the well will be purged using an electric submersible pump (i.e. Grundfos) suspended near (but not touching) the bottom of the well.

Parameter Stabilization

Well purging completion standards include minimum purge volumes, but additionally require stabilization of specific groundwater parameters prior to sample collection. Typical groundwater parameters used to measure stability are electrical conductivity, pH, and temperature. Instrument readings are obtained at regular intervals during the evacuation process (no less than once per case volume).

Stabilization standards for routine quarterly monitoring of fuel sites include the following: Temperature is considered to have stabilized when successive readings do not fluctuate more than +/- 1 degree Celsius. Electrical conductivity is considered stable when successive readings are within 10%. pH is considered to be stable when successive readings remain constant or vary no more than 0.2 of a pH unit.

Sample Collection

All samples are collected using disposable bailers.

Sample Containers

Sample material is decanted directly from the sampling bailer into sample containers provided by the laboratory that will analyze the samples. The transfer of sample material from the bailer to the sample container conforms to specifications contained in the USEPA T.E.G.D. The type of sample container, material of construction, method of closure and filling requirements are specific to the intended analysis. Chemicals needed to preserve the sample material are commonly placed inside the sample containers by the laboratory or glassware vendor prior to delivery of the bottle to our personnel. The laboratory sets the number of replicate containers.

Dewatered Wells

Normal evacuation removes no less than three case volumes of water from the well. However, less water may be removed in cases where the well dewateres and does not immediately recharge.

Measuring Recharge

Upon completion of well purging, a depth to water measurement is collected and notated to ensure that the well has recharged to within 80% of its static, pre-purge level prior to sampling.

Wells that do not immediately show 80% recharge or dewatered wells will be allowed approximately 2 hours to recharge prior to sampling or will be sampled at site departure. All wells requiring off-site traffic control in the public right-of-way, the 80% recharge rule may be disregarded in the interests of Health and Safety. The sample may be collected as soon as there is sufficient water. The water level at time of sampling will be noted.

Dissolved Oxygen Measurements

Dissolved Oxygen readings are taken pre- and/or post-purge using YSI meters (e.g. YSI Model 550) or HACH field test kits.

The YSI meters are able to collect accurate in-situ readings. The probe allows downhole measurements to be taken from wells with diameters as small as two inches. The probe and reel is decontaminated between wells as described above. The meter is calibrated

as per the instructions in the operating manual. The probe is lowered into the water column and the reading is allowed to stabilize prior to collection.

Oxidation Reduction Potential Measurements (ORP)

All readings are obtained with either Corning or Myron-L meters (e.g. Corning ORP-65 or a Myron-L Ultrameter). The meter is cleaned between wells as described above. The meter is calibrated at the start of each day according to the instruction manual.

LOW FLOW SAMPLING USING SAMPLE-PRO BLADDER PUMP

Calibration

Calibrate YSI Flow Cell as per manufacturer's specifications. Thoroughly rinse probe and cup between parameters. Calibration order as follows:

1. pH (use 3-point calibration of 7, 4, 10)
2. Oxygen Reduction Potential (ORP)
3. Specific Conductance
4. Dissolved Oxygen (DO) (calibrate simulating 100% oxygen saturation)

Purging & Sampling Collection

1. Insert new bladder into Sample-Pro pump housing.
2. Remove dedicated PE tubing from the well or start with new PE tubing cut to the required length.
3. Attach the PE tubing to the Sample-Pro Bladder Pump.
4. Gently lower the Sample-Pro Bladder Pump, and PE tubing into the well, placing the Sample-Pro Bladder Pump intake at the center of the screened interval. Take care to minimize disturbance to the water column.
5. Direct effluent line into YSI 556 Flow Cell.
6. Set Sample-Pro Bladder Pump speed at 100 - 500 ml/min.
7. Collect water quality parameter measurements for temperature, pH, conductivity, turbidity, DO and ORP every 3-5 minutes.
8. Monitor drawdown during purging with electronic water level meter. Record water level with each parameter measurement. **MAXIMUM DRAWDOWN IS 0.33 FEET.**
9. Collect parameter measurements until stability is achieved. Stability is defined as three consecutive measurements where:

Temp	± 1 ° Celsius
pH	± 0.1
Conductivity	± 3%
Turbidity	± 10% NTU
DO	± 0.3 mg/l
ORP	± 10 Mv

10. Sample may be collected once stability is achieved and at least one system volume of water removed from the well.
11. Disconnect effluent line from YSI 556 Flow Cell.
12. Sample through effluent line while maintaining constant flow rate.
13. Remove Sample-Pro Bladder Pump, and PE tubing from well.
14. Detach and reinstall dedicated PE tubing in well.

PURGEWATER CONTAINMENT

All non-hazardous purgewater evacuated from each groundwater monitoring well is captured and contained in on-board storage tanks on the Sampling Vehicle and/or special water hauling trailers. Effluent from the decontamination of reusable apparatus (sounders, electric pumps and hoses etc.), consisting of groundwater combined with deionized water and non-phosphate soap, is also captured and pumped into effluent tanks.

Non-hazardous purgewater is transported under standard Bill of Lading or Non-Hazardous Waste Manifest to a Blaine Tech Services, Inc. facility before being transported to a Chevron approved disposal facility

TRIP BLANKS

Trip Blanks, if requested, are taken to the site and kept inside the sample cooler for the duration of the event. They are turned over to the laboratory for analysis with the samples from that site.

DUPLICATES

Duplicates, if requested, may be collected at a site.

SAMPLE STORAGE

All sample containers are promptly placed in food grade ice chests for storage in the field and transport (direct or via our facility) to the designated analytical laboratory. These ice chests contain quantities of restaurant grade ice as a refrigerant material. The samples are maintained in either an ice chest or a refrigerator until relinquished into the custody of the laboratory or laboratory courier.

DOCUMENTATION CONVENTIONS

A label must be affixed to all sample containers. In most cases these labels are generated by our office personnel and are partially preprinted. Labels can also be hand written by our field personnel. The site is identified with the store number and site address, as is the particular groundwater well from which the sample is drawn (e.g. MW-1, MW-2, S-1 etc.). The time and date of sample collection along with the initials of the person who collects the sample are handwritten onto the label. Field documentation is contemporaneous.

DECONTAMINATION

All equipment is brought to the site in clean and serviceable condition and is cleaned after use in each well and before subsequent use in any other well. Equipment such as hose reels, pumps and bailers is decontaminated before leaving the site.

The primary decontamination device is a commercial steam cleaner. The steam cleaner is de-tuned to function as a hot pressure washer that is then operated with high quality deionized water that is produced at our facility and stored onboard our sampling vehicle. Cleaning is

facilitated by the use of proprietary fixtures and devices included in the patented workstation (U.S. Patent 5,535,775) that is incorporated in each sampling vehicle.

Any sensitive equipment or parts (i.e. Dissolved Oxygen sensor membrane, water level indicator, etc.) that cannot be washed using the high pressure water, will be sprayed with a non-phosphate soap and deionized water solution and rinsed with deionized water.

FERROUS IRON MEASUREMENTS

All field measurements are collected at time of sampling with a HACH test kit.

CHEVRON WELL MONITORING DATA SHEET

Project #: 121114-502	Station #: 9-4800
Sampler: 50	Date: 11-14-02
Weather: clear	Ambient Air Temperature: 68°
Well I.D.: MW-1	Well Diameter: ② 3 4 6 8
Total Well Depth: 30.77	Depth to Water: 26.00
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]: 26.95	

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: _____

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	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations
1243	20.2	6.57	1107	397	0.7	
1244	20.3	6.61	1109	422	1.4	
1245	20.3	6.62	1110	419	2.1	

Did well dewater? Yes No Gallons actually evacuated: 2.1

Sampling Date: 11-14-02 Sampling Time: 1250 Depth to Water: 26.22

Sample I.D.: MW-1 Laboratory: Lancaster Other _____

Analyzed for: TPH-G BTEX MTBE OXYS Other: see col

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE OXYS Other:

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

CHEVRON WELL MONITORING DATA SHEET

Project #: 12114-502	Station #: 9-4800
Sampler: 80	Date: 11-14-12
Weather: dew	Ambient Air Temperature: 69°
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8
Total Well Depth: 30.31	Depth to Water: 24.12
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]: 25.36	

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: _____

1.0 (Gals.) X 3 = 3.0 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 of <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
1303	71.2	6.84	829	726	1.0	
1304	71.8	6.82	830	717	2.0	
1305	72.2	6.79	832	720	3.0	

Did well dewater? Yes No Gallons actually evacuated: 3.0

Sampling Date: 11-14-12 Sampling Time: 1310 Depth to Water: 24.92

Sample I.D.: MW-2 Laboratory: Lancaster Other _____

Analyzed for: TPH-G BTEX MTBE OXYS Other: See CW

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE OXYS 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

CHEVRON WELL MONITORING DATA SHEET

Project #: 121114-501	Station #: 9-4800
Sampler: JD	Date: 11-14-12
Weather: clear	Ambient Air Temperature: 69°F
Well I.D.: Mw-3	Well Diameter: (2) 3 4 6 8
Total Well Depth: 30.32	Depth to Water: 25.36
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]: 26.35	

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: _____

$$0.8 \text{ (Gals.)} \times 3 = 2.4 \text{ Gals.}$$
 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 ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1323	70.0	7.00	1012	476	0.8	
1324	70.1	6.91	1009	500	2.16	
1325	70.1	6.88	1007	504	2.4	

Did well dewater? Yes No Gallons actually evacuated: 2.4

Sampling Date: 11-14-12 Sampling Time: 1330 Depth to Water: 25.29

Sample I.D.: Mw-3 Laboratory: (Lancaster) Other _____

Analyzed for: TPH-G BTEX MTBE OXYS Other: Spilloc

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE OXYS 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

CHEVRON WELL MONITORING DATA SHEET

Project #: 121194-502	Station #: 9-4906
Sampler: 60	Date: 11-14-12
Weather: clear	Ambient Air Temperature: 70
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8
Total Well Depth: 28.90	Depth to Water: 15.22
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]: 25.95	

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: _____

0.6 (Gals.) X 3 = 1.8 Gals.
 1 Case Volume Specified Volumes Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
1223	69.0	7.26	809	>1000	0.6	
1224	69.8	7.21	799	>1000	1.2	
1225	69.9	7.24	792	>1000	1.0	

Did well dewater? Yes No Gallons actually evacuated: 1.8

Sampling Date: 11-14-12 Sampling Time: 1230 Depth to Water: 25.37

Sample I.D.: MW-4 Laboratory: Lancaster Other _____

Analyzed for: TPH-G BTEX MTBE OXYS Other: see COC

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE OXYS 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

CHEVRON WELL MONITORING DATA SHEET

Project #: <u>TA14-502</u>	Station #: <u>9-4800</u>
Sampler: <u>RD</u>	Date: <u>11-14-12</u>
Weather: <u>clear</u>	Ambient Air Temperature: <u>70°F</u>
Well I.D.: <u>MW-7</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth: <u>30.21</u>	Depth to Water: <u>27.47</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>29.9</u>	

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: _____

0.5 (Gals.) X 3 = 1.5 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 ² * 0.163

Time	Temp (°F)	pH	Cond. (mS of <u>μS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
<u>1206</u>	<u>68.9</u>	<u>6.79</u>	<u>862</u>	<u>>1000</u>	<u>0.5</u>	
<u>1207</u>	<u>68.9</u>	<u>6.77</u>	<u>855</u>	<u>>1000</u>	<u>1.0</u>	
<u>1208</u>	<u>68.9</u>	<u>6.78</u>	<u>852</u>	<u>>1000</u>	<u>1.5</u>	

Did well dewater? Yes No Gallons actually evacuated: 1.5

Sampling Date: 11-14-12 Sampling Time: 1210 Depth to Water: 27.88

Sample I.D.: MW-7 Laboratory: (Lancaster) Other _____

Analyzed for: TPH-G BTEX MTBE OXYS Other: See COC

Duplicate I.D.: _____ Analyzed for: TPH-G BTEX MTBE OXYS 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

Chevron Site Number: 94800
 Chevron Site Global ID: T0600102076
 Chevron Site Address: 1700 Casrfo St.
Oakland, CA **M 1412-86**
 Chevron PM: CATALINA DEVINE
 Chevron PM Phone No.: (925)790-3949
 Retail and Terminal Business Unit (RTBU) Job
 Construction/Retail Job

Chevron Consultant: CRA
 Address: 5900 Hollis St. Suite A Emeryville.
 CA Consultant Contact: Nathan Lee
 Consultant Phone No. 510-420-3333
 Consultant Project No. 12114-d2
 Sampling Company: Blaine Tech Services
 Sampled By (Print): [Signature]
 Sampler Signature: [Signature]

Charge Code: NWRTB-0094800-0-OML
NWRTB 00SITE NUMBER-0-WBS
(WBS ELEMENTS:
 SITE ASSESSMENT: A1L REMEDIATION IMPLEMENTATION: R5L
 SITE MONITORING: OML OPERATION MAINTENANCE & MONITORING: M1L
THIS IS A LEGAL DOCUMENT. ALL FIELDS MUST BE FILLED OUT CORRECTLY AND COMPLETELY.

Lancaster Laboratories
 Lancaster, PA
 Lab Contact: Jill Parker
 2425 New Holland Pike,
 Lancaster, PA 17601
 Phone No:
 (717)656-2300

Other Lab	Temp. Blank Check Time	Temp.
[Signature]	<u>1101</u>	<u>20</u>
	<u>1302</u>	<u>20</u>

ANALYSES REQUIRED												Preservation Codes
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	H = HCL T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Notes/Comments
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

SAMPLE ID				Sample Time	# of Containers	Container Type
Field Point Name	Matrix	Top Depth	Date (yyymmdd)			
MW-1	W		12/11/14	1250	8	Mixed
MW-2				1310		
MW-3				1330		
MW-4				1230		
MW-7				1210		
RA	T			1101	2	VOLS

Relinquished By: <u>[Signature]</u>	Company: <u>BKS</u>	Date/Time: <u>11-14-12/1415</u>	Relinquished To: <u>[Signature]</u>	Company: <u>LLI</u>	Date/Time: <u>14 NOV 12 1415</u>	Turnaround Time: Standard <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 hours <input type="checkbox"/> 72 Hours <input type="checkbox"/> Other <input type="checkbox"/>
Relinquished By:	Company:	Date/Time:	Relinquished To:	Company:	Date/Time:	Sample Integrity: (Check by lab on arrival)
Relinquished By:	Company:	Date/Time:	Relinquished To:	Company:	Date/Time:	Intact: _____ On Ice: _____ Temp: _____ COC # _____

WELLHEAD INSPECTION CHECKLIST

Client Chewon Date 11-14-12
 Site Address 1700 Castro St. Oakland CA
 Job Number 121114-502 Technician JD

Well ID	Well Inspected - No Corrective Action Required	WELL IS SECURABLE BY DESIGN (12" or less)	WELL IS CLEARLY MARKED WITH THE WORDS "MONITORING WELL" (12" or less)	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
MW-1	X	X	X							
MW-2		X	X					X		
MW-3	X	X	X							
MW-4	X	X	X	X						
MW-7	X	X	X	X						

NOTES: MW-2 3/3 Bats missing

SOURCE RECORD **BILL OF LADING**

FOR PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT CHEVRON FACILITIES IN THE STATE OF CALIFORNIA. THE PURGE-WATER WHICH HAS BEEN RECOVERED FROM GROUNDWATER WELLS IS COLLECTED BY THE CONTRACTOR AND HAULED TO THEIR FACILITY IN SAN JOSE, CALIFORNIA FOR TEMPORARILY HOLDING PENDING TRANSPORT BY OTHERS TO FINAL DESTINATION.

The contractor performing this work is BLAINE TECH SERVICES, INC. (BLAINE TECH), 1680 Rogers Ave. San Jose CA (408) 573-0555). BLAINE TECH. is authorized by Chevron Environmental Management Company (CHEVRON EMC) to recover, collect, apportion into loads, and haul the purgewater that is drawn from wells at the CHEVRON EMC facility indicated below and to deliver that purgewater to BLAINE TECH for temporarily holding. Transport routing of the purgewater may be direct from one CHEVRON EMC facility to BLAINE TECH; from one CHEVRON EMC facility to BLAINE TECH via another CHEVRON EMC facility; or any combination thereof. The well purgewater is and remains the property of CHEVRON EMC.

This Source Record **BILL OF LADING** was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the Chevron facility described below:

9-4800
CHEVRON #

Catalina Devine
Chevron Engineer

700 Castro st Oakland CA
street number street name city state

WELL I.D.	GALS.	WELL I.D.	GALS.
MW-1	2.1	/	/
MW-2	3.0	/	/
MW-3	2.4	/	/
MW-4	1.8	/	/
MW-7	1.5	/	/
/	/	/	/
/	/	/	/
/	/	/	/
added equip.	1.0	any other	/
rinse water	/	adjustments	/
TOTAL GALS. RECOVERED	<u>11.8</u>	loaded onto	<u>85</u>
		BTS vehicle #	
BTS event #	time	date	
<u>12-11-502</u>	<u>1346</u>	<u>11/14/12</u>	
Transporter signature			

REC'D AT	time	date	
<u>BTS</u>	<u>1540</u>	<u>11/14/12</u>	
Unloaded/received by signature			

ATTACHMENT B

LABORATORY ANALYTICAL REPORT

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

November 28, 2012

Project: 94800

Submittal Date: 11/15/2012

Group Number: 1349502

PO Number: 0015098202

Release Number: ESPINO DEVINE

State of Sample Origin: CA

Client Sample Description

MW-1-W-121114 NA Water
MW-2-W-121114 NA Water
MW-3-W-121114 NA Water
MW-4-W-121114 NA Water
MW-7-W-121114 NA Water
QA-T-121114 NA Water

Lancaster Labs (LLI) #

6861663
6861664
6861665
6861666
6861667
6861668

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	Chevron c/o CRA	Attn: Report Contact
ELECTRONIC COPY TO	Blaine Tech Services, Inc.	Attn: Dustin Becker
ELECTRONIC COPY TO	Chevron	Attn: Anna Avina
ELECTRONIC COPY TO	CRA	Attn: Nathan Lee
ELECTRONIC COPY TO	CRA	Attn: Ian Hull

Respectfully Submitted,



Jill M. Parker
Senior Specialist

(717) 556-7262

Sample Description: MW-1-W-121114 NA Water
Facility# 94800 BTST
1700 Castro Street-Oakland T0600102076 MW-1

LLI Sample # WW 6861663
LLI Group # 1349502
Account # 10991

Project Name: 94800

Collected: 11/14/2012 12:50 by JO

Chevron

6001 Bollinger Canyon Rd L4310

Submitted: 11/15/2012 16:00

San Ramon CA 94583

Reported: 11/28/2012 23:46

CS001

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10943	Benzene	71-43-2	N.D.	0.5	1	1
10943	Ethanol	64-17-5	N.D.	50	250	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	3	0.5	1	1
10943	Toluene	108-88-3	N.D.	0.5	1	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Volatiles SW-846 8015B						
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
GC Petroleum SW-846 8015B						
Hydrocarbons w/Si						
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	100	1
The reverse surrogate, capric acid, is present at <1%.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	F123264AA	11/21/2012 20:19	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F123264AA	11/21/2012 20:19	Kevin A Sposito	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12326A07A	11/26/2012 18:20	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	12326A07A	11/26/2012 18:20	Laura M Krieger	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	123210002A	11/27/2012 22:10	Christine E Dolman	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	123210002A	11/16/2012 16:30	Seth A Farrier	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-2-W-121114 NA Water
Facility# 94800 BTST
1700 Castro Street-Oakland T0600102076 MW-2

LLI Sample # WW 6861664
LLI Group # 1349502
Account # 10991

Project Name: 94800

Collected: 11/14/2012 13:10 by JO

Chevron

6001 Bollinger Canyon Rd L4310

Submitted: 11/15/2012 16:00

San Ramon CA 94583

Reported: 11/28/2012 23:46

CSO02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10943	Benzene	71-43-2	N.D.	0.5	1	1
10943	Ethanol	64-17-5	N.D.	50	250	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	3	0.5	1	1
10943	Toluene	108-88-3	N.D.	0.5	1	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Volatiles SW-846 8015B						
01728	TPH-GRO N. CA water C6-C12	n.a.	69 J	50	100	1
GC Petroleum SW-846 8015B						
Hydrocarbons w/Si						
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	78 J	50	100	1
The reverse surrogate, capric acid, is present at <1%.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	F123264AA	11/21/2012 20:41	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F123264AA	11/21/2012 20:41	Kevin A Sposito	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12326A07A	11/26/2012 18:45	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	12326A07A	11/26/2012 18:45	Laura M Krieger	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	123210002A	11/27/2012 22:33	Christine E Dolman	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	123210002A	11/16/2012 16:30	Seth A Farrier	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-3-W-121114 NA Water
Facility# 94800 BTST
1700 Castro Street-Oakland T0600102076 MW-3

LLI Sample # WW 6861665
LLI Group # 1349502
Account # 10991

Project Name: 94800

Collected: 11/14/2012 13:30 by JO

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 11/15/2012 16:00

Reported: 11/28/2012 23:46

CSO03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10943	Benzene	71-43-2	2	ug/l 0.5	ug/l 1	1
10943	Ethanol	64-17-5	N.D.	50	250	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	150	0.5	1	1
10943	Toluene	108-88-3	N.D.	0.5	1	1
10943	Xylene (Total)	1330-20-7	4	0.5	1	1
GC Volatiles SW-846 8015B						
01728	TPH-GRO N. CA water C6-C12	n.a.	56 J	ug/l 50	ug/l 100	1
GC Petroleum SW-846 8015B						
Hydrocarbons w/Si						
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	100	1
The reverse surrogate, capric acid, is present at <1%.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	F123264AA	11/21/2012 21:03	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F123264AA	11/21/2012 21:03	Kevin A Sposito	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12326A07A	11/26/2012 19:11	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	12326A07A	11/26/2012 19:11	Laura M Krieger	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	123210002A	11/27/2012 22:56	Christine E Dolman	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	123210002A	11/16/2012 16:30	Seth A Farrier	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-4-W-121114 NA Water
Facility# 94800 BTST
1700 Castro Street-Oakland T0600102076 MW-4

LLI Sample # WW 6861666
LLI Group # 1349502
Account # 10991

Project Name: 94800

Collected: 11/14/2012 12:30 by JO

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 11/15/2012 16:00

Reported: 11/28/2012 23:46

CSO04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10943	Benzene	71-43-2	N.D.	0.5	1	1
10943	Ethanol	64-17-5	N.D.	50	250	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	21	0.5	1	1
10943	Toluene	108-88-3	N.D.	0.5	1	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Volatiles SW-846 8015B						
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1
GC Petroleum SW-846 8015B						
Hydrocarbons w/Si						
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	100	1
The reverse surrogate, capric acid, is present at <1%.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	F123264AA	11/21/2012 21:25	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F123264AA	11/21/2012 21:25	Kevin A Sposito	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12326A07A	11/26/2012 19:36	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	12326A07A	11/26/2012 19:36	Laura M Krieger	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	123210002A	11/27/2012 23:19	Christine E Dolman	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	123210002A	11/16/2012 16:30	Seth A Farrier	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-7-W-121114 NA Water
Facility# 94800 BTST
 1700 Castro Street-Oakland T0600102076 MW-7

LLI Sample # WW 6861667
LLI Group # 1349502
Account # 10991

Project Name: 94800

Collected: 11/14/2012 12:10 by JO

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 11/15/2012 16:00

Reported: 11/28/2012 23:46

CSO07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10943	Benzene	71-43-2	N.D.	0.5	1	1
10943	Ethanol	64-17-5	N.D.	50	250	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	8,200	25	50	50
10943	Toluene	108-88-3	N.D.	0.5	1	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Volatiles SW-846 8015B						
01728	TPH-GRO N. CA water C6-C12	n.a.	320	50	100	1
GC Petroleum SW-846 8015B						
Hydrocarbons w/Si						
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	100	1
The reverse surrogate, capric acid, is present at <1%.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	F123264AA	11/21/2012 21:47	Kevin A Sposito	1
10943	UST VOCs by 8260B - Water	SW-846 8260B	1	F123311AA	11/26/2012 08:57	Anita M Dale	50
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F123264AA	11/21/2012 21:47	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	F123311AA	11/26/2012 08:57	Anita M Dale	50
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12331A07A	11/27/2012 12:21	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	12331A07A	11/27/2012 12:21	Catherine J Schwarz	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	123210002A	11/27/2012 23:42	Christine E Dolman	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	123210002A	11/16/2012 16:30	Seth A Farrier	1

*=This limit was used in the evaluation of the final result

Sample Description: QA-T-121114 NA Water
Facility# 94800 BTST
1700 Castro Street-Oakland T0600102076 QA

LLI Sample # WW 6861668
LLI Group # 1349502
Account # 10991

Project Name: 94800

Collected: 11/14/2012 11:00

Chevron

Submitted: 11/15/2012 16:00

6001 Bollinger Canyon Rd L4310

Reported: 11/28/2012 23:46

San Ramon CA 94583

CSOQA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
10943	Benzene	71-43-2	N.D.	0.5	1	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
10943	Toluene	108-88-3	N.D.	0.5	1	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC Volatiles SW-846 8015B						
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	F123264AA	11/21/2012 18:30	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F123264AA	11/21/2012 18:30	Kevin A Sposito	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12331A07A	11/27/2012 10:39	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	12331A07A	11/27/2012 10:39	Catherine J Schwarz	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: Chevron

Group Number: 1349502

Reported: 11/28/12 at 11:46 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: F123264AA	Sample number(s): 6861663-6861668								
Benzene	N.D.	0.5	1	ug/l	91		77-121		
Ethanol	N.D.	50.	250	ug/l	97		54-149		
Ethylbenzene	N.D.	0.5	1	ug/l	93		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	95		68-121		
Toluene	N.D.	0.5	1	ug/l	92		79-120		
Xylene (Total)	N.D.	0.5	1	ug/l	95		77-120		
Batch number: F123311AA	Sample number(s): 6861667								
Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	95		68-121		
Batch number: 12326A07A	Sample number(s): 6861663-6861666								
TPH-GRO N. CA water C6-C12	N.D.	50.	100	ug/l	110	114	75-135	4	30
Batch number: 12331A07A	Sample number(s): 6861667-6861668								
TPH-GRO N. CA water C6-C12	N.D.	50.	100	ug/l	115	118	75-135	2	30
Batch number: 123210002A	Sample number(s): 6861663-6861667								
TPH-DRO CA C10-C28 w/ Si Gel	N.D.	32.	100	ug/l	65	64	50-118	1	20

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: F123264AA	Sample number(s): 6861663-6861668 UNSPK: P861648								
Benzene	98	97	72-134	1	30				
Ethanol	94	92	53-146	2	30				
Ethylbenzene	98	98	71-134	0	30				
Methyl Tertiary Butyl Ether	95	93	72-126	2	30				
Toluene	97	97	80-125	0	30				
Xylene (Total)	99	99	79-125	0	30				
Batch number: F123311AA	Sample number(s): 6861667 UNSPK: P862791								
Methyl Tertiary Butyl Ether	98	99	72-126	1	30				

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 11/28/12 at 11:46 PM

Group Number: 1349502

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: UST VOCs by 8260B - Water
Batch number: F123264AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6861663	100	97	101	99
6861664	100	97	101	100
6861665	99	99	99	100
6861666	101	98	100	99
6861667	100	98	100	98
6861668	99	96	103	100
Blank	100	98	101	100
LCS	101	100	100	100
MS	99	99	99	98
MSD	98	100	99	99
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST VOCs by 8260B - Water
Batch number: F123311AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
Blank	99	98	96	96
LCS	101	101	96	97
MS	100	99	96	97
MSD	101	100	97	98
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 12326A07A
Trifluorotoluene-F

6861663	81
6861664	77
6861665	77
6861666	75
Blank	80
LCS	91
LCSD	92
Limits:	63-135

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 12331A07A
Trifluorotoluene-F

6861667	89
6861668	84
Blank	81
LCS	95
LCSD	98
Limits:	63-135

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 11/28/12 at 11:46 PM

Group Number: 1349502

Surrogate Quality Control

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel
Batch number: 123210002A
Orthoterphenyl

6861663	75
6861664	87
6861665	85
6861666	78
6861667	72
Blank	79
LCS	90
LCSD	84

Limits: 50-154

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers	Inorganic Qualifiers
A TIC is a possible aldol-condensation product	B Value is $<$ CRDL, but \geq IDL
B Analyte was also detected in the blank	E Estimated due to interference
C Pesticide result confirmed by GC/MS	M Duplicate injection precision not met
D Compound quantitated on a diluted sample	N Spike sample not within control limits
E Concentration exceeds the calibration range of the instrument	S Method of standard additions (MSA) used for calculation
N Presumptive evidence of a compound (TICs only)	U Compound was not detected
P Concentration difference between primary and confirmation columns $>$ 25%	W Post digestion spike out of control limits
U Compound was not detected	* Duplicate analysis not within control limits
X,Y,Z Defined in case narrative	+ Correlation coefficient for MSA $<$ 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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