



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

**Chevron Environmental
Management Company**
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 790-3949
espino@chevron.com

Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Chevron Service Station No. 9-0329
340 Highland Avenue
Piedmont, CA

RECEIVED

5:54 pm, Nov 08, 2012

Alameda County
Environmental Health

I have reviewed the attached report dated November 6, 2012.

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 that reads "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>

November 6, 2012

Reference No. 311776

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
Former Chevron Service Station 90329
340 Highland Avenue
Piedmont, California
Fuel Leak Case No. RO0000269

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. Groundwater monitoring and sampling was performed by Blaine Tech Services (Blaine Tech) of San Jose, California. Blaine Tech's *Third Quarter 2012 Monitoring* report is included as Attachment A. Current and historical 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**

November 6, 2012

Reference No. 311776

- 2 -

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

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES



Celina Hernandez, PG 8931

CH/cw/12
Encl.

Figure 1	Vicinity Map
Figure 2	Groundwater Elevation 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 copy*)
Mr. Chuck Headlee, RWQCB - San Francisco Bay Region
Mr. Chester Nakahara, City of Piedmont
Bains Tarvinder Trust

FIGURES

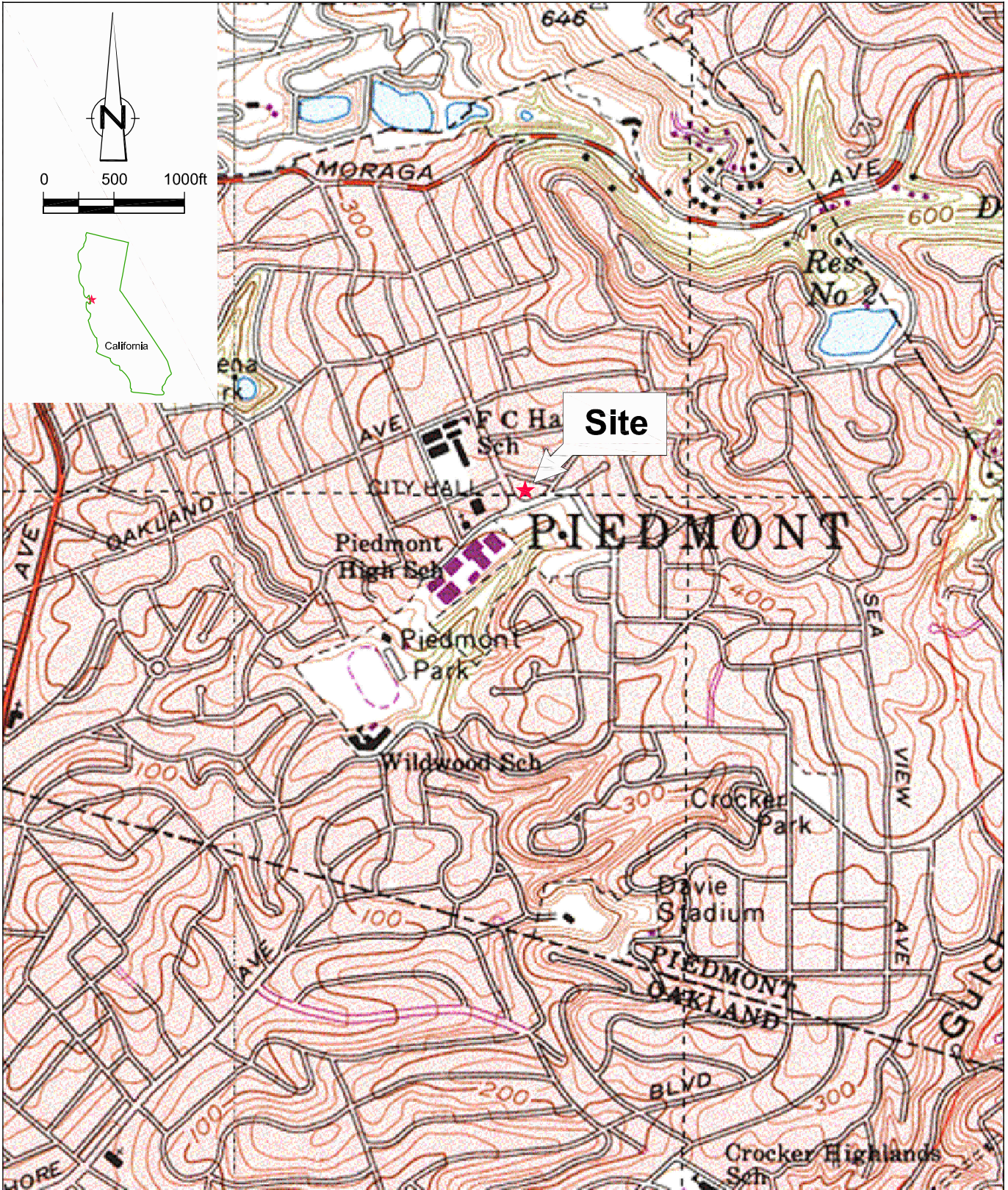
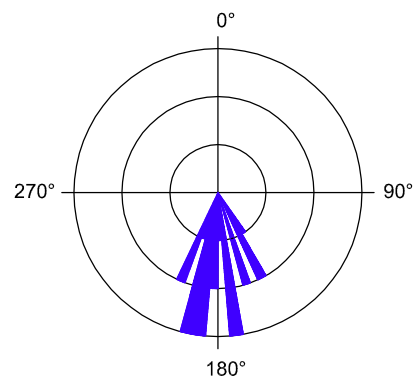
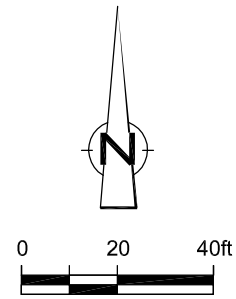


Figure 1
 VICINITY MAP
 FORMER CHEVRON STATION 90329
 340 HIGHLAND AVENUE
 Piedmont, California





HISTORIC GROUNDWATER FLOW DIRECTION 4Q-2000 THROUGH 3Q-2012

EXPLANATION

- GETTLER-RYAN MONITORING WELLS (1983)
- PEG MONITORING WELLS (1996)
- ⊗ TANK BACKFILL WELL
- ⊙ RESNA (1994) ABANDONED WELL

340.00 — GROUNDWATER ELEVATION CONTOUR, IN FEET ABOVE MEAN SEA LEVEL (MSL), DASHED WHERE INFERRED

→ GROUNDWATER FLOW DIRECTION AND GRADIENT (ft/ft)

WELL	ELEV	TPHD	TPHG	BENZ	MTBE
●	343.42	<50	<50	<0.5	<0.5
●	341.82	<50	<50	<0.5	<0.5
●	342.32	11,000	7,800	270	110
●	338.09	<50	<50	<0.5	<0.5

- NM NOT MEASURED
- NS NOT SAMPLED

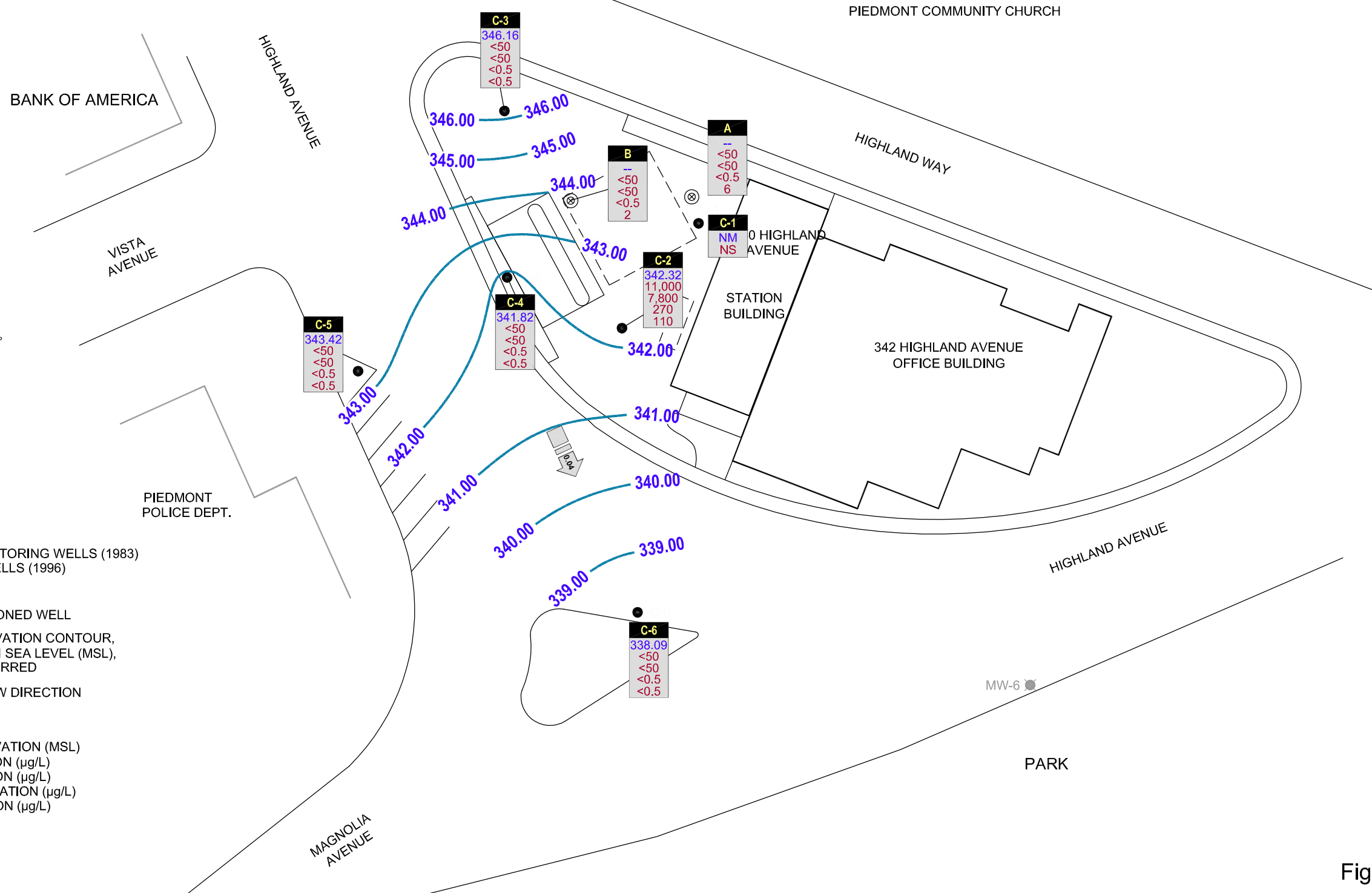


Figure 2
 GROUNDWATER ELEVATION AND HYDROCARBON CONCENTRATION MAP
 FORMER CHEVRON STATION 90329
 340 HIGHLAND AVENUE
 Piedmont, California
 September 7, 2012



BASEMAP MODIFIED FROM PACIFIC ENVIRONMENTAL GROUP, INC.

TABLE

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
 FORMER CHEVRON SERVICE STATION 90329
 340 HIGHLAND AVENUE
 PIEDMONT, 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	ETHANOL	TBA	DIPE	ETBE	TAME	1,2-DCA	EDB	
	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
BackfillWell A	08/07/1989	-	2.10	-	-	-	1,000	50	6.0	5.0	22	-	-	-	-	-	-	-	-	-
BackfillWell A	11/15/1989	-	2.04	-	-	-	3,700	98	2.1	4.3	55	-	-	-	-	-	-	-	-	-
BackfillWell A	02/01/1991	-	3.05	-	-	-	36,000	1,100	750	130	6,100	-	-	-	-	-	-	-	-	-
BackfillWell A	04/16/1991	-	2.01	-	-	-	8,000	370	6.0	86	750	-	-	-	-	-	-	-	-	-
BackfillWell A	10/16/1991	-	4.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BackfillWell A	03/22/2007 ⁸	-	0.75	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	27	-	39	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BackfillWell A	09/25/2009 ⁸	-	1.33	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	16	-	<2	<0.5	<0.5	<0.5	<0.5	-	-
BackfillWell A	02/25/2010	-	0.64	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	8	-	-	-	-	-	-	-	-
BackfillWell A	09/02/2010 ¹⁰	-	1.28	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	11	-	-	-	-	-	-	-	-
BackfillWell A	03/25/2011 ¹⁰	-	0.81	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	10	-	-	-	-	-	-	-	-
BackfillWell A	05/04/2011	-	1.02	-	635	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BackfillWell A	09/28/2011 ¹⁰	-	1.58	-	87 J	-	<50	<0.5	<0.5	<0.5	<0.5	11	-	-	-	-	-	-	-	-
BackfillWell A	03/09/2012	-	1.37	-	-	<50	<50	<0.5	<0.5	<0.5	<0.5	5	-	-	-	-	-	-	-	-
BackfillWell A	09/07/2012	-	1.27	-	-	<50	<50	<0.5	<0.5	<0.5	<0.5	6	-	-	-	-	-	-	-	-
BackfillWell B	08/07/1989	-	4.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BackfillWell B	02/01/1991	-	5.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BackfillWell B	04/16/1991	-	4.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BackfillWell B	10/16/1991	-	6.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BackfillWell B	03/22/2007 ⁸	-	3.08	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	16	-	11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BackfillWell B	09/25/2009 ⁸	-	3.60	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	5	-	<2	<0.5	<0.5	<0.5	-	-	-
BackfillWell B	02/25/2010	-	3.00	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	3	-	-	-	-	-	-	-	-
BackfillWell B	09/02/2010 ¹⁰	-	3.56	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	5	-	-	-	-	-	-	-	-
BackfillWell B	03/25/2011 ¹⁰	-	3.00	-	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BackfillWell B	09/28/2011 ¹⁰	-	3.78	-	<50	-	<50	<0.5	<0.5	<0.5	0.5 J	3	-	-	-	-	-	-	-	-
BackfillWell B	03/09/2012 ¹⁰	-	3.60	-	-	<50	<50	<0.5	<0.5	<0.5	<0.5	2	-	-	-	-	-	-	-	-
BackfillWell B	09/07/2012¹⁰	-	3.47	-	-	<50	<50	<0.5	<0.5	<0.5	<0.5	2	-	-	-	-	-	-	-	-
C-2	08/07/1989	94.19	2.88	91.31	-	-	34,000	580	60	170	270	-	-	-	-	-	-	-	-	-
C-2	11/15/1989	94.19	2.80	91.39	-	-	8,100	500	36	420	180	-	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
 FORMER CHEVRON SERVICE STATION 90329
 340 HIGHLAND AVENUE
 PIEDMONT, 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	ETHANOL	TBA	DIPE	ETBE	TAME	1,2-DCA	EDB	
	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
C-2	02/01/1991	94.19	3.75	90.44	-	-	6,800	490	21	310	86	-	-	-	-	-	-	-	-	-
C-2	04/16/1991	94.19	2.55	91.64	-	-	9,600	810	43	550	270	-	-	-	-	-	-	-	-	-
C-2	10/16/1991	94.19	3.52	90.67	-	-	7,100	320	23	200	60	-	-	-	-	-	-	-	-	-
C-2	01/08/1992	94.19	4.15	90.04	-	-	2,400	190	9.0	83	22	-	-	-	-	-	-	-	-	-
C-2	04/10/1992	94.19	2.96	91.23	-	-	6,600	550	33	340	170	-	-	-	-	-	-	-	-	-
C-2	07/14/1992	94.19	2.83	91.36	-	-	9,000	680	330	580	690	-	-	-	-	-	-	-	-	-
C-2	10/05/1992	94.19	4.38	89.81	-	-	5,500	250	17	130	82	-	-	-	-	-	-	-	-	-
C-2	01/06/1993	94.19	3.94	90.25	-	-	5,500	190	32	41	54	-	-	-	-	-	-	-	-	-
C-2	03/29/1993	94.19	2.09	92.10	-	-	19,000	670	40	180	370	-	-	-	-	-	-	-	-	-
C-2	07/02/1993	94.19	2.09	92.10	-	-	8,000	1,100	41	420	500	-	-	-	-	-	-	-	-	-
C-2	10/11/1993	94.19	2.76	91.43	-	-	42,000	940	34	140	87	-	-	-	-	-	-	-	-	-
C-2	01/10/1994	94.19	4.82	89.37	-	-	12,000	770	20	220	74	-	-	-	-	-	-	-	-	-
C-2	04/06/1994	94.19	2.49	91.70	-	-	40,000	820	33	190	110	-	-	-	-	-	-	-	-	-
C-2	07/06/1994	94.19	2.47	91.72	-	-	8,800	870	28	140	95	-	-	-	-	-	-	-	-	-
C-2	11/11/1994	94.19	2.87	91.32	-	-	8,600	460	81	180	120	-	-	-	-	-	-	-	-	-
C-2	01/06/1995	94.19	2.55	91.64	-	-	15,000	880	48	270	140	-	-	-	-	-	-	-	-	-
C-2	04/13/1995	94.19	2.06	92.13	-	-	56,000	2,500	130	730	360	-	-	-	-	-	-	-	-	-
C-2	07/25/1995	94.19	2.14	92.05	-	-	11,000	1,000	34	540	160	-	-	-	-	-	-	-	-	-
C-2	10/05/1995	94.19	2.51	91.68	-	-	13,000	1,000	<20	160	170	-	-	-	-	-	-	-	-	-
C-2	01/02/1996	94.19	2.22	91.97	-	-	9,500	1,300	<50	380	87	64,000	-	-	-	-	-	-	-	-
C-2	04/11/1996	94.19	1.92	92.27	-	-	<10,000	1,300	<100	<100	<100	74,000	-	-	-	-	-	-	-	-
C-2	07/08/1996	94.19	2.05	92.14	-	-	<20,000	1,200	<200	<200	<200	110,000	-	-	-	-	-	-	-	-
C-2	10/03/1996	94.19	2.29	91.90	-	-	<25,000	1,200	<250	<250	<250	140,000	-	-	-	-	-	-	-	-
C-2	01/23/1997	343.39	1.90	341.49	-	-	20,000	1,100	<200	460	<200	110,000	-	-	-	-	-	-	-	-
C-2	02/14/1997	343.39	1.97	341.42	-	-	-	-	-	-	-	150,000 ¹	-	-	-	-	-	-	-	-
C-2	04/08/1997	343.39	2.27	341.12	-	-	<50,000	1,100	<500	<500	<500	160,000	-	-	-	-	-	-	-	-
C-2	07/09/1997	343.39	1.98	341.41	-	-	<50,000	1,300	<500	<500	<500	210,000	-	-	-	-	-	-	-	-
C-2	10/08/1997	343.39	2.30	341.09	-	-	18,000	1,400	<50	300	95	160,000	-	-	-	-	-	-	-	-
C-2	01/22/1998	343.39	1.68	341.71	-	-	10,000	860	10	140	37	70,000	-	-	-	-	-	-	-	-
C-2	04/15/1998	343.39	1.20	342.19	-	-	<10,000	1,400	<100	510	<100	46,000	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
 FORMER CHEVRON SERVICE STATION 90329
 340 HIGHLAND AVENUE
 PIEDMONT, 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	ETHANOL	TBA	DIPPE	ETBE	TAME	1,2-DCA	EDB	
	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
C-2	07/09/1998	343.39	1.47	341.92	-	-	33,000	1,700	<50	650	<50	120,000	-	-	-	-	-	-	-	-
C-2	10/02/1998	343.39	2.13	341.26	-	-	11,000	920	11	130	76	100,000	-	-	-	-	-	-	-	-
C-2	01/18/1999	343.39	1.84	341.55	-	-	<25,000	1,770	<250	<250	<250	48,400/78,300 ¹	-	-	-	-	-	-	-	-
C-2	04/19/1999	343.39	1.17	342.22	-	-	9,900	1,110	26.6	455	82	33,300	-	-	-	-	-	-	-	-
C-2	09/28/1999	343.39	2.81	340.58	-	-	11,500	1,100	<50	93.9	53.1	26,200	-	-	-	-	-	-	-	-
C-2	10/27/1999	343.39	2.98	340.41	-	-	9,440	711	<20	74.9	42.4	17,500	-	-	-	-	-	-	-	-
C-2	01/17/2000	343.39	2.35	341.04	-	-	12,200	813	<50	133	<50	21,200	-	-	-	-	-	-	-	-
C-2	04/11/2000	343.39	1.31	342.08	-	-	210 ⁴	26	<0.50	3.7	1.1	580	-	-	-	-	-	-	-	-
C-2	07/12/2000	343.39	1.79	341.60	-	-	18,100 ⁵	1,350	480	800	1,240	19,200	-	-	-	-	-	-	-	-
C-2	10/07/2000	343.39	1.70	341.69	-	-	8,860 ⁵	1,070	<20.0	406	90.5	20,000	-	-	-	-	-	-	-	-
C-2	01/05/2001	343.39	1.57	341.82	-	-	14,000 ⁴	2,000	55	560	120	17,000	-	-	-	-	-	-	-	-
C-2	04/05/2001	343.39	1.37	342.02	-	-	4,900 ⁴	330	38	120	32	1,200	-	-	-	-	-	-	-	-
C-2	08/20/2001	343.39	2.52	340.87	-	-	7,300	1,100	42	290	55	7,200	-	-	-	-	-	-	-	-
C-2	11/26/2001	343.39	1.35	342.04	-	-	9,500	650	13	66	44	3,100	-	-	-	-	-	-	-	-
C-2	02/25/2002	343.39	0.82	342.57	-	-	5,300	340	6.9	83	22	1,200/1,400 ⁷	<500	210	<2	2	97	<2	<2	
C-2	05/17/2002	343.39	1.85	341.54	-	-	6,300	160	5.1	45	14	5,100	-	-	-	-	-	-	-	-
C-2	08/13/2002	343.39	1.95	341.44	-	-	8,800	670	16	380	73	3,700	-	-	-	-	-	-	-	-
C-2	11/23/2002	343.39	1.62	341.77	-	-	9,400	490	11	250	47	1,900	-	-	-	-	-	-	-	-
C-2	02/17/2003	343.39	0.65	342.74	-	-	7,000	340	9.9	160	35	4,200/3,800 ⁷	-	890	<1	6	110	<1	<1	
C-2	05/19/2003 ⁸	343.39	0.92	342.47	-	-	2,500	390	8	90	26	6,000	-	-	-	-	-	-	-	-
C-2	08/18/2003 ⁸	343.39	1.05	342.34	-	-	6,400	300	7	62	23	3,500	<250	-	-	-	-	-	-	-
C-2	11/17/2003 ⁸	343.39	1.08	342.31	-	-	5,900	290	6	13	25	2,200	<200	-	-	-	-	-	-	-
C-2	05/03/2006 ⁸	343.39	0.32	343.07	2,400	-	6,100	400	9	110	27	690	-	-	-	-	-	-	-	-
C-2	03/22/2007 ⁸	343.39	0.92	342.47	-	-	6,700	260	6	52	23	380	-	16	<0.5	<0.5	35	<0.5	<0.5	
C-2	09/25/2009 ⁸	343.39	1.41	341.98	-	-	9,100	320	8	68	41	65	-	4 J	<1	<1	7	-	-	
C-2	02/25/2010	343.39	0.51	342.88	-	-	5,600	79	3	15	17	150	-	-	-	-	-	-	-	-
C-2	09/02/2010	343.39	1.28	342.11	-	-	9,300	300	10	66	39	140	-	-	-	-	-	-	-	-
C-2	03/25/2011	343.39	0.24	343.15	-	-	2,800	22	1 J	8	3	68	-	-	-	-	-	-	-	-
C-2	05/04/2011	343.34	1.00	342.34	5,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-2	09/28/2011	343.39	1.36	342.03	5,900	-	4,700	190	6	44	17	140	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
 FORMER CHEVRON SERVICE STATION 90329
 340 HIGHLAND AVENUE
 PIEDMONT, 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	ETHANOL	TBA	DIPN	ETBE	TAME	1,2-DCA	EDB	
	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
C-2	03/09/2012	343.39	0.90	342.49	-	5,700	3,900	33	2	3	5	41	-	-	-	-	-	-	-	-
C-2	09/07/2012	343.39	1.07	342.32	-	11,000	7,800	270	11	88	33	110	-	-	-	-	-	-	-	-
C-3	08/07/1989	97.65	4.29	93.36	-	-	<50	<0.5	<1.0	<1.0	<3.0	-	-	-	-	-	-	-	-	-
C-3	11/15/1989	97.65	5.17	92.48	-	-	<500	<0.5	2.8	<0.5	1.1	-	-	-	-	-	-	-	-	-
C-3	02/01/1991	97.65	6.38	91.27	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
C-3	04/16/1991	97.65	3.72	93.93	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
C-3	10/16/1991	97.65	8.20	89.45	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
C-3	01/08/1992	97.65	6.68	90.97	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
C-3	04/10/1992	97.65	4.50	93.15	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
C-3	07/14/1992	97.65	6.21	91.44	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
C-3	10/05/1992	97.65	9.31	88.34	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
C-3	01/06/1993	97.65	3.41	94.24	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
C-3	03/29/1993	97.65	0.50	97.15	-	-	<50	<0.5	<0.5	<0.5	0.8	-	-	-	-	-	-	-	-	-
C-3	07/02/1993	97.65	2.59	95.06	-	-	<50	4.0	3.0	<0.5	3.0	-	-	-	-	-	-	-	-	-
C-3	10/11/1993	97.65	4.90	92.75	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
C-3	01/10/1994	97.65	4.39	93.26	-	-	<50	<0.5	1.0	<0.5	0.8	-	-	-	-	-	-	-	-	-
C-3	04/06/1994	97.65	2.68	94.97	-	-	<50	<0.5	1.0	0.7	4.5	-	-	-	-	-	-	-	-	-
C-3	07/06/1994	97.65	2.10	95.55	-	-	<50	2.2	4.1	<0.5	2.8	-	-	-	-	-	-	-	-	-
C-3	11/11/1994	97.65	1.23	96.42	-	-	<50	<0.5	0.8	<0.5	<0.5	-	-	-	-	-	-	-	-	-
C-3	01/06/1995	97.65	0.60	97.05	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
C-3	04/13/1995	97.65	0.60	97.05	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
C-3	07/25/1995	97.65	1.65	96.00	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
C-3	10/05/1995	97.65	3.63	94.02	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
C-3	01/02/1996	97.65	3.12	94.53	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
C-3	04/11/1996	97.65	0.82	96.83	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
C-3	07/08/1996	97.65	1.50	96.15	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
C-3	10/03/1996	97.65	2.48	95.17	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
C-3	01/23/1997	347.08	0.21	346.87	-	-	<50	<0.5	<0.5	<0.5	<0.5	3.2	-	-	-	-	-	-	-	-
C-3	04/08/1997	347.08	0.75	346.33	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
 FORMER CHEVRON SERVICE STATION 90329
 340 HIGHLAND AVENUE
 PIEDMONT, 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	ETHANOL	TBA	DIPE	ETBE	TAME	1,2-DCA	EDB	
	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
C-3	07/09/1997	347.08	1.47	345.61	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
C-3	10/08/1997	347.08	2.04	345.04	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
C-3	01/22/1998 ¹¹	347.08	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	40	-	-	-	-	-	-	-	-
C-3	04/15/1998 ¹¹	347.08	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
C-3	05/13/1998 ²	347.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-3	07/09/1998	347.20	0.47	346.73	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
C-3	10/02/1998	347.20	0.98	346.22	-	-	<50	<0.5	<0.5	<0.5	<1.5	<2.5	-	-	-	-	-	-	-	-
C-3	01/18/1999	347.20	0.77	346.43	-	-	<50	<0.5	<0.5	<0.5	<1.5	<2.0	-	-	-	-	-	-	-	-
C-3	04/19/1999	347.20	0.53	346.67	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0	-	-	-	-	-	-	-	-
C-3	07/19/1999	347.20	0.81	346.39	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0	-	-	-	-	-	-	-	-
C-3	10/27/1999	347.20	1.47	345.73	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
C-3	01/17/2000	347.20	0.94	346.26	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
C-3	04/11/2000	347.20	0.30	346.90	-	-	<50	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	-
C-3	07/12/2000	347.20	0.42	346.78	-	-	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	-	-	-	-	-	-	-	-
C-3	10/07/2000	347.20	1.01	346.19	-	-	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	-	-	-	-	-	-	-	-
C-3	01/05/2001	347.20	1.38	345.82	-	-	<50	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	-
C-3	04/05/2001	347.20	0.35	346.85	-	-	<50	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	-
C-3	08/20/2001	347.20	0.80	346.40	-	-	<50	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	-
C-3	11/26/2001	347.20	0.36	346.84	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-	-
C-3	02/25/2002	347.20	0.36	346.84	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 ⁷	<500	<100	<2	<2	<2	<2	<2	<2
C-3	05/17/2002	347.20	0.45	346.75	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-	-
C-3	08/13/2002	347.20	1.11	346.09	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-	-
C-3	11/23/2002	347.20	1.49	345.71	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-	-
C-3	02/17/2003	347.20	0.51	346.69	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<0.5 ⁷	-	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C-3	05/19/2003 ⁸	347.20	0.30	346.90	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
C-3	08/18/2003 ⁸	347.20	0.35	346.85	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	-	-	-	-	-	-	-
C-3	11/17/2003 ⁸	347.20	0.28	346.92	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	-	-	-	-	-	-	-
C-3	05/03/2006 ⁸	347.20	0.21	346.99	240	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
C-3	03/22/2007 ⁸	347.20	0.22	346.98	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C-3	09/25/2009 ⁸	347.20	1.85	345.35	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<2	<0.5	<0.5	<0.5	<0.5	-	-

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GROUNDWATER MONITORING AND SAMPLING DATA
 FORMER CHEVRON SERVICE STATION 90329
 340 HIGHLAND AVENUE
 PIEDMONT, 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	ETHANOL	TBA	DIPE	ETBE	TAME	1,2-DCA	EDB	
	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
C-3	02/25/2010	347.20	0.30	346.90	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
C-3	09/02/2010	347.20	1.36	345.84	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
C-3	03/25/2011	347.20	0.32	346.88	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
C-3	05/04/2011	347.20	037	346.43	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-3	09/28/2011	347.20	1.36	345.84	170	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
C-3	03/09/2012	347.20	1.42	345.78	-	810	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
C-3	09/07/2012	347.20	1.04	346.16	-	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
C-4	08/07/1989 ¹²	95.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-4	11/15/1989	95.60	4.95	90.65	-	-	1,300	2.9	310	0.5	2.9	-	-	-	-	-	-	-	-	-
C-4	02/01/1991	95.60	4.78	90.82	-	-	72	<0.5	9.0	<0.5	<0.5	-	-	-	-	-	-	-	-	-
C-4	04/16/1991	95.60	4.83	90.77	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
C-4	10/16/1991	95.60	4.23	91.37	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
C-4	01/08/1992	95.60	4.81	90.79	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
C-4	04/10/1992	95.60	4.26	91.34	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
C-4	07/14/1992	95.60	4.28	91.32	-	-	<50	<0.5	3.8	<0.5	<0.5	-	-	-	-	-	-	-	-	-
C-4	10/05/1992	95.60	4.29	91.31	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
C-4	01/06/1993	95.60	4.29	91.31	-	-	<50	0.7	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
C-4	03/29/1993	95.60	4.30	91.30	-	-	<50	0.5	1.0	<0.5	2.0	-	-	-	-	-	-	-	-	-
C-4	07/02/1993	95.60	4.22	91.38	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
C-4	10/11/1993	95.60	4.30	91.30	-	-	<50	0.6	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
C-4	01/10/1994	95.60	4.44	91.16	-	-	<50	0.7	3.0	<0.5	1.0	-	-	-	-	-	-	-	-	-
C-4	04/06/1994	95.60	4.24	91.36	-	-	130	2.2	5.4	3.3	24	-	-	-	-	-	-	-	-	-
C-4	07/06/1994	95.60	4.24	91.36	-	-	99	5.9	7.5	2.0	12	-	-	-	-	-	-	-	-	-
C-4	11/11/1994	95.60	4.21	91.39	-	-	<50	<0.5	9.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
C-4	01/06/1995	95.60	4.42	91.18	-	-	<50	0.7	1.0	<0.5	1.1	-	-	-	-	-	-	-	-	-
C-4	04/13/1995	95.60	4.24	91.36	-	-	67	0.54	7.2	<0.5	1.1	-	-	-	-	-	-	-	-	-
C-4	07/25/1995	95.60	4.24	91.36	-	-	390	<2.0	150	<2.0	<2.0	-	-	-	-	-	-	-	-	-
C-4	10/05/1995	95.60	4.38	91.22	-	-	130	<0.5	66	<0.5	<0.5	-	-	-	-	-	-	-	-	-
C-4	01/02/1996	95.60	4.26	91.34	-	-	<50	<0.5	<0.5	<0.5	<0.5	34	-	-	-	-	-	-	-	-

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 FORMER CHEVRON SERVICE STATION 90329
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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	ETHANOL	TBA	DIPE	ETBE	TAME	1,2-DCA	EDB	
	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
C-4	04/11/1996	95.60	4.39	91.21	-	-	<50	<0.5	0.93	<0.5	<0.5	56	-	-	-	-	-	-	-	-
C-4	07/08/1996	95.60	4.28	91.32	-	-	<50	<0.5	<0.5	<0.5	<0.5	21	-	-	-	-	-	-	-	-
C-4	10/03/1996	95.60	4.22	91.38	-	-	80	<0.5	31	<0.5	<0.5	9.9	-	-	-	-	-	-	-	-
C-4	01/23/1997	344.94	4.39	340.55	-	-	<50	<0.5	<0.5	<0.5	<0.5	23	-	-	-	-	-	-	-	-
C-4	04/08/1997	344.94	4.25	340.69	-	-	87	<0.5	3.6	<0.5	1.7	7.0	-	-	-	-	-	-	-	-
C-4	07/09/1997	344.94	4.21	340.73	-	-	93	<0.5	32	<0.5	<0.5	26	-	-	-	-	-	-	-	-
C-4	10/08/1997	344.94	4.34	340.60	-	-	<50	<0.5	0.63	<0.5	<0.5	12	-	-	-	-	-	-	-	-
C-4	01/22/1998	344.94	4.26	340.68	-	-	<50	<0.5	4.3	<0.5	<0.5	10	-	-	-	-	-	-	-	-
C-4	04/15/1998 ¹³	344.94	1.01	343.93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-4	07/09/1998	344.94	4.25	340.69	-	-	<50	<0.5	<0.5	<0.5	<0.5	37	-	-	-	-	-	-	-	-
C-4	10/02/1998	344.94	4.35	340.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-4	01/18/1999	344.94	4.21	340.73	-	-	<50	<0.5	<0.5	<0.5	<0.5	25.4	-	-	-	-	-	-	-	-
C-4	04/19/1999	344.94	2.31	342.63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-4	07/19/1999 ³	344.94	1.53	343.41	-	-	10,000	1,160	23	178	50.4	45,600	-	-	-	-	-	-	-	-
C-4	09/28/1999	344.94	4.70	340.24	-	-	<50	<0.5	0.919	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
C-4	10/27/1999	344.94	1.26	343.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-4	01/17/2000	344.94	4.22	340.72	-	-	<50	<0.5	21.4	<0.5	<0.5	4.6	-	-	-	-	-	-	-	-
C-4	04/11/2000	344.94	4.21	340.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-4	07/12/2000	344.94	4.21	340.73	-	-	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	-	-	-	-	-	-	-	-
C-4	10/07/2000	344.94	4.23	340.71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-4	01/05/2001	344.94	4.22	340.72	-	-	<50	<0.50	<0.50	<0.50	<0.50	27	-	-	-	-	-	-	-	-
C-4	04/05/2001	344.94	4.23	340.71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-4	08/20/2001	344.94	4.27	340.67	-	-	<50	<0.50	<0.50	<0.50	<0.50	18	-	-	-	-	-	-	-	-
C-4	11/26/2001 ¹³	344.94	4.26	340.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-4	02/25/2002	344.94	4.25	340.69	-	-	<50	<0.50	1.8	<0.50	<1.5	24/24 ⁷	<500	<100	<2	<2	<2	<2	<2	<2
C-4	05/17/2002 ¹³	344.94	3.30	341.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-4	08/13/2002	344.94	4.10	340.84	-	-	<50	<0.50	<0.50	<1.0	<1.5	7.3	-	-	-	-	-	-	-	-
C-4	11/23/2002 ¹³	344.94	3.04	341.90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-4	02/17/2003	344.94	2.12	342.82	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<0.5 ⁷	-	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C-4	05/19/2003 ¹³	344.94	2.57	342.37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
 FORMER CHEVRON SERVICE STATION 90329
 340 HIGHLAND AVENUE
 PIEDMONT, 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	ETHANOL	TBA	DIPE	ETBE	TAME	1,2-DCA	EDB	
	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
C-4	08/18/2003 ⁸	344.94	2.99	341.95	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<50	-	-	-	-	-	-
C-4	11/17/2003 ¹³	344.94	2.25	342.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-4	05/03/2006 ⁸	344.94	2.15	342.79	360	-	<50	<0.5	<0.5	<0.5	<0.5	3	-	-	-	-	-	-	-	-
C-4	03/22/2007 ⁸	344.94	2.44	342.50	-	-	<50	<0.5	<0.5	<0.5	<0.5	16	-	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C-4	09/25/2009 ⁸	344.94	6.40	338.54	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<2	<0.5	<0.5	<0.5	-	-	
C-4	02/25/2010	344.94	1.48	343.46	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	
C-4	09/02/2010	344.94	5.20	339.74	-	-	<50	<0.5	<0.5	<0.5	<0.5	0.7 J	-	-	-	-	-	-	-	
C-4	03/25/2011	344.94	2.80	342.14	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	
C-4	05/04/2011	344.84	2.40	342.02	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
C-4	09/28/2011	344.94	3.98	340.96	250	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	
C-4	03/09/2012	344.94	2.42	342.52	-	180	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	
C-4	09/07/2012	344.94	3.12	341.82	-	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	
C-5	11/25/1996	-	3.30	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	
C-5	01/23/1997	345.14	1.45	343.69	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	
C-5	04/08/1997	345.14	2.32	342.82	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	
C-5	07/09/1997	345.14	2.30	342.84	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	
C-5	10/08/1997	345.14	3.00	342.14	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	
C-5	01/22/1998	345.14	1.00	344.14	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	
C-5	04/15/1998 ¹³	345.14	3.25	341.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
C-5	07/09/1998	345.14	0.20	344.94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
C-5	10/02/1998	345.14	2.32	342.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
C-5	01/18/1999	345.14	2.13	343.01	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.0	-	-	-	-	-	-	-	
C-5	04/19/1999	345.14	2.07	343.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
C-5	07/19/1999	345.14	2.42	342.72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
C-5	10/27/1999	345.14	2.37	342.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
C-5	01/17/2000	345.14	2.50	342.64	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	
C-5	04/11/2000	345.14	2.18	342.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
C-5	07/12/2000	345.14	2.08	343.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
C-5	10/07/2000	345.14	2.38	342.76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
 FORMER CHEVRON SERVICE STATION 90329
 340 HIGHLAND AVENUE
 PIEDMONT, 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	ETHANOL	TBA	DIPE	ETBE	TAME	1,2-DCA	EDB	
	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
C-5	01/05/2001	345.14	2.13	343.01	-	-	<50	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	-
C-5	04/05/2001	345.14	1.80	343.34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-5	08/20/2001	345.14	2.08	343.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-5	11/26/2001 ¹³	345.14	2.25	342.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-5	02/25/2002	345.14	2.80	342.34	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 ⁷	<500	<100	<2	<2	<2	<2	<2	<2
C-5	05/17/2002 ¹³	345.14	1.81	343.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-5	08/13/2002 ¹³	345.14	1.82	343.32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-5	11/23/2002 ¹³	345.14	2.36	342.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-5	02/17/2003	345.14	1.89	343.25	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<0.5 ⁷	-	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C-5	05/19/2003 ¹³	345.14	1.91	343.23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-5	08/18/2003 ¹³	345.14	1.92	343.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-5	11/17/2003 ¹³	345.14	2.08	343.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-5	05/03/2006 ⁸	345.14	1.27	343.87	<50	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
C-5	03/22/2007 ⁸	345.14	1.43	343.71	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C-5	09/25/2009 ⁸	345.14	3.49	341.65	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<2	<0.5	<0.5	<0.5	<0.5	-	-
C-5	02/25/2010	345.14	2.20	342.94	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
C-5	09/02/2010	345.14	3.12	342.02	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
C-5	03/25/2011	345.14	0.81	344.33	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
C-5	05/04/2011	345.14	2.0	343.14	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-5	09/28/2011	345.14	2.20	342.94	<50	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
C-5	03/09/2012	345.14	2.45	342.69	-	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
C-5	09/07/2012	345.14	1.72	343.42	-	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
C-6	11/25/1996	-	2.13	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
C-6	01/23/1997 ¹¹	338.61	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
C-6	04/08/1997 ¹¹	338.61	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
C-6	07/09/1997	338.61	2.77	335.84	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
C-6	10/08/1997	338.61	1.44	337.17	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
C-6	01/22/1998	338.61	1.54	337.07	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
C-6	04/15/1998	338.61	1.30	337.31	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
 FORMER CHEVRON SERVICE STATION 90329
 340 HIGHLAND AVENUE
 PIEDMONT, 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	ETHANOL	TBA	DIPE	ETBE	TAME	1,2-DCA	EDB	
	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
C-6	07/09/1998 ¹¹	338.61	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
C-6	10/02/1998	338.61	2.80	335.81	-	-	<50	<0.5	<0.5	<0.5	<1.5	<2.5	-	-	-	-	-	-	-	-
C-6	01/18/1999	338.61	1.29	337.32	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.0	-	-	-	-	-	-	-	-
C-6	04/19/1999	338.61	1.31	337.30	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0	-	-	-	-	-	-	-	-
C-6	07/19/1999	338.61	1.56	337.05	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0	-	-	-	-	-	-	-	-
C-6	10/27/1999	338.61	1.45	337.16	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
C-6	01/17/2000	338.61	1.65	336.96	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
C-6	04/11/2000	338.61	1.56	337.05	-	-	<50	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	-
C-6	07/12/2000	338.61	1.01	337.60	-	-	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	-	-	-	-	-	-	-	-
C-6	10/07/2000	338.61	1.19	337.42	-	-	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	-	-	-	-	-	-	-	-
C-6	01/05/2001	338.61	0.87	337.74	-	-	<50	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	-
C-6	04/05/2001	338.61	0.32	338.29	-	-	<50	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	-
C-6	08/20/2001 ⁶	338.61	-	-	-	-	<50	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	-
C-6	11/26/2001	338.61	0.76	337.85	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-	-
C-6	02/25/2002 ⁶	338.61	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5/ ⁷ <2	<500	<100	<2	<2	<2	<2	<2	<2
C-6	05/17/2002 ⁶	338.61	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-	-
C-6	08/13/2002	338.61	0.90	337.71	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-	-
C-6	11/23/2002	338.61	1.03	337.58	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-	-
C-6	02/17/2003	338.61	0.85	337.76	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5/ ⁷ <0.5	-	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C-6	05/19/2003 ^{6,8}	338.61	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
C-6	08/18/2003 ⁸	338.61	0.00	338.61	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	-	-	-	-	-	-	-
C-6	11/17/2003 ⁸	338.61	0.00	338.61	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	-	-	-	-	-	-	-
C-6	05/03/2006 ⁸	338.61	0.00	338.61	150	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
C-6	03/22/2007 ⁸	338.61	0.00	338.61	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C-6	09/25/2009 ⁸	338.61	3.95	334.66	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	<2	<0.5	<0.5	<0.5	<0.5	-	-
C-6	02/25/2010	338.61	0.60	338.01	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
C-6	09/02/2010	338.61	3.26	335.35	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
C-6	03/25/2011	338.61	0.12	338.49	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
C-6	05/04/2011	338.61	1.63	336.98	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-6	09/28/2011	338.61	1.40	337.21	<50	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
 FORMER CHEVRON SERVICE STATION 90329
 340 HIGHLAND AVENUE
 PIEDMONT, 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	ETHANOL	TBA	DIPE	ETBE	TAME	1,2-DCA	EDB
	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
C-6	03/09/2012	338.61	0.72	337.89	-	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
C-6	09/07/2012	338.61	0.52	338.09	-	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
City Well	03/25/2011	-	16.12	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
City Well	05/04/2011	-	17.40	-	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA	11/26/2001	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-
QA	02/25/2002	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-
QA	05/17/2002	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-
QA	08/13/2002	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-
QA	11/23/2002	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-
QA	02/17/2003	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<1.5	<2.5	-	-	-	-	-	-	-
QA	05/19/2003 ^s	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	08/18/2003 ^s	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	11/17/2003 ^s	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	05/03/2006 ^s	-	-	-	-	-	<50	-	-	-	-	-	-	-	-	-	-	-	-
QA	03/22/2007 ⁹	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	09/25/2009 ^s	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	02/25/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	09/02/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	03/25/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	09/28/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	03/09/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
QA	09/07/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
Trip Blank	01/06/1993	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
Trip Blank	03/29/1993	-	-	-	-	-	<50	<0.5	<0.5	<0.5	1.0	-	-	-	-	-	-	-	-
Trip Blank	07/02/1993	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
Trip Blank	10/11/1993	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-
Trip Blank	01/10/1994	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-

TABLE 1

**GROUNDWATER MONITORING AND SAMPLING DATA
FORMER CHEVRON SERVICE STATION 90329
340 HIGHLAND AVENUE
PIEDMONT, 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	ETHANOL	TBA	DIPN	ETBE	TAME	1,2-DCA	EDB	
	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
Trip Blank	04/06/1994	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
Trip Blank	07/06/1994	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
Trip Blank	11/11/1994	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
Trip Blank	01/06/1995	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
Trip Blank	04/13/1995	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
Trip Blank	07/25/1995	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
Trip Blank	10/05/1995	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
Trip Blank	01/02/1996	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	04/11/1996	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	07/08/1996	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	10/03/1996	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
Trip Blank	01/23/1997	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	04/08/1997	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	07/09/1997	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	10/08/1997	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	01/22/1998	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	07/09/1998	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	10/02/1998	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	01/18/1999	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.0	-	-	-	-	-	-	-	-
Trip Blank	04/19/1999	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0	-	-	-	-	-	-	-	-
Trip Blank	07/19/1999	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0	-	-	-	-	-	-	-	-
Trip Blank	10/27/1999	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	01/17/2000	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-	-	-	-	-	-
Trip Blank	04/11/2000	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	-
Trip Blank	07/12/2000	-	-	-	-	-	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	-	-	-	-	-	-	-	-
Trip Blank	10/07/2000	-	-	-	-	-	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	-	-	-	-	-	-	-	-
Trip Blank	01/05/2001	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	-
Trip Blank	04/05/2001	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	-
Trip Blank	08/20/2001	-	-	-	-	-	<50	<0.50	<0.50	<0.50	<0.50	<2.5	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
 FORMER CHEVRON SERVICE STATION 90329
 340 HIGHLAND AVENUE
 PIEDMONT, 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	ETHANOL	TBA	DIPE	ETBE	TAME	1,2-DCA	EDB	
	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

- 6 Unable to determine DTW, water overflowing TOC.
- 7 MTBE by EPA Method 8260.
- 8 BTEX and MTBE by EPA Method 8260.
- 9 Due to QC issues at the Laboratory; BTEX and MTBE could not be reported.
- 10 TOC altered, unable to determine GWE.
- 11 Flooded
- 12 Dry
- 13 Sampled Semi-annually

ATTACHMENT A

MONITORING DATA PACKAGE



September 11, 2012

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

Third Quarter 2012 Monitoring at
Chevron Service Station 90329
340 Highland Ave.
Piedmont, CA

Monitoring performed on September 7, 2012

Blaine Tech Services, Inc. Groundwater Monitoring Event 120907-JO1

This submission covers the routine monitoring of groundwater wells conducted on September 7, 2012 at this location. Seven monitoring wells were measured for depth to groundwater (DTW). Seven 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 using disposable bailers. 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.

Third Quarter Groundwater Monitoring at Chevron 90329, 340 Highland Ave., Piedmont, 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

Third Quarter Groundwater Monitoring at Chevron 90329, 340 Highland Ave., Piedmont, CA

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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.

WELL GAUGING DATA

Project # 120907-J01 Date 9-7-12 Client Cherwin

Site 340 Highland Ave Palmdale CA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
C-2	0842	2					1.07	11.47	↓	
C-3	0850	2				1.04	13.39			
C-4	0853	2				3.12	9.80			
C-5	1150	2				1.72	16.96			
C-6	0900	2				0.52	17.26			
A	0846	6				1.27	8.17			
B	0849	6				3.47	9.15			

CHEVRON WELL MONITORING DATA SHEET

Project #: 120907-101	Station #: 950329
Sampler: 10	Date: 9-7-12
Weather: C-2	Ambient Air Temperature: 67°F
Well I.D.: C-2	Well Diameter: ② 3 4 6 8
Total Well Depth: 11.47	Depth to Water: 1.07
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]: 3.15	

Purge Method: Bailer Disposable Bailer Positive Air Displacement Electric Submersible

Sampling Method: Waterra Disposable Bailer Extraction Port Dedicated Tubing Other: _____

Peristaltic Extraction Pump Other: _____

1.6 (Gals.) X 3 = 4.8 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
0947	69.2	6.97	721	>1000	1.6	
0949	69.3	6.94	709	>1000	3.2	
				3.5 gallons		
1125	69.8	6.91	712	>1000	—	

Did well dewater? Yes No Gallons actually evacuated: 3.5

Sampling Date: 9-7-12 Sampling Time: 1125 Depth to Water: 2.27

Sample I.D.: C-2 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 #: 120907-101	Station #: 9-0329
Sampler: SD	Date: 9-7-12
Weather: Clear	Ambient Air Temperature: 68°F
Well I.D.: C-3	Well Diameter: <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 _____
Total Well Depth: 13.39	Depth to Water: 1.04
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <input checked="" type="radio"/> PVC Grade	D.O. Meter (if req'd): YSI <input type="checkbox"/> HACH <input type="checkbox"/>
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 3.51	

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: _____

1.9 (Gals.) X	3	=	5.7	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 μ S)	Turbidity (NTUs)	Gals. Removed	Observations
1000	68.4	6.57	697	>1000	1.9	
1002	68.5	6.62	687	>1000	3.8	
1006	68.5	6.64	684	>1000	5.7	

Did well dewater? Yes No Gallons actually evacuated: 5.7

Sampling Date: 9-7-12 Sampling Time: 1140 Depth to Water: 7.24 (Site Dependent)

Sample I.D.: C-3 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 #: 120907-001	Station #: 9-0329
Sampler: <i>h</i>	Date: 9-7-12
Weather: <i>clear</i>	Ambient Air Temperature: 68°
Well I.D.: C-4	Well Diameter: (2) 3 4 6 8 _____
Total Well Depth: 9.90	Depth to Water: 3.12
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]: 4.46	

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 or µS)	Turbidity (NTUs)	Gals. Removed	Observations
0936	69.2	6.59	602	>1000	1	
0938	69.3	6.63	597	>1000	2	
		well dewatered		> 2	gallons	
1110	69.7	6.67	604	>1000	—	

Did well dewater? (Yes) No Gallons actually evacuated: 2

Sampling Date: 9-7-12 Sampling Time: 1110 Depth to Water: 7.72 (Site Representative)

Sample I.D.: C-4 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

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

CHEVRON WELL MONITORING DATA SHEET

Project #: 120907-20	Station #: 9-0329
Sampler: 50	Date: 9-7-12
Weather: clear	Ambient Air Temperature: 70°
Well I.D.: C-5	Well Diameter: (2) 3 4 6 8
Total Well Depth: 16.96	Depth to Water: 1.72
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]: 4.78 4.77	

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: _____

24 (Gals.) X 3 = 7.2 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
1155	68.7	6.92	629	>1000	2.4	
1158	68.8	6.89	637	>1000	4.8	
1201	69.9	6.88	641	>1000	7.2	

Did well dewater? Yes No Gallons actually evacuated: 7.2

Sampling Date: 9-7-12 Sampling Time: 1205 Depth to Water: 10.21 (Traffic)

Sample I.D.: 120 C-5 Laboratory: (Lancaster) Other _____

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

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 #: 120907-101	Station #: 9-0329
Sampler: JD	Date: 9-7-12
Weather: clear	Ambient Air Temperature: 65°
Well I.D.: C-6	Well Diameter: <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 _____
Total Well Depth: 17.26	Depth to Water: 0.52
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <input checked="" type="radio"/> PVC <input type="radio"/> Grade	D.O. Meter (if req'd): <input type="radio"/> YSI <input type="radio"/> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 3.87	

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: _____

2.6 (Gals.) X	3	= 7.8 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
0910	69.2	7.12	692	>1000	2.6	
0914	69.3	7.04	684	>1000	5.2	
0918	69.3	7.09	682	>1000	7.8	

Did well dewater? Yes No Gallons actually evacuated: 7.8

Sampling Date: 9-7-12 Sampling Time: 0920 Depth to Water: 7.24 (Draft)

Sample I.D.: C-6 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 #: 120907 J21	Station #: 9-0329
Sampler: Jo	Date: 9-7-12
Weather: clear	Ambient Air Temperature: 68
Well I.D.: A	Well Diameter: 2 3 4 (6) 8
Total Well Depth: 8.17	Depth to Water: 1.27
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]: 2.65	

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: _____

10.1 (Gals.) X	3	= 30.3 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
1022	69.3	7.04	737	4	10.1	odor
1024	69.4	7.07	739	5	20.2	
1026	69.4	7.06	742	5	30.3	

Did well dewater? Yes No Gallons actually evacuated: 30.3

Sampling Date: 9-7-12 Sampling Time: 1030 Depth to Water: 1.27

Sample I.D.: A Laboratory: (Lancaster) Other _____

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

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>120907-301</u>	Station #: <u>9-0329</u>
Sampler: <u>50</u>	Date: <u>9-7-02</u>
Weather: <u>clear</u>	Ambient Air Temperature: <u>69°F</u>
Well I.D.: <u>B</u>	Well Diameter: 2 3 4 <u>6</u> 8
Total Well Depth: <u>9.15</u>	Depth to Water: <u>3.47</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
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>4.61</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: _____

<u>8.3</u> (Gals.) X	<u>3</u> Specified Volumes	<u>24.9</u> Gals. Calculated Volume
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 μ S)	Turbidity (NTUs)	Gals. Removed	Observations
1047	69.4	7.02	721	7	8.3	
1049	69.4	7.01	717	7	16.6	
1051	69.3	7.00	714	7	24.9	

Did well dewater? Yes No Gallons actually evacuated: 24.9

Sampling Date: 9-7-02 Sampling Time: 1055 Depth to Water: 3.47

Sample I.D.: B Laboratory: Lancaster Other _____

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

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

090712-04
CHAIN OF CUSTODY FORM
Chevron Environmental Management Company ■ 5111 Bollinger Canyon Rd. ■ San Ramon, CA 94583

COC 6 of 1

Chevron Site Number: 00329
 Chevron Site Global ID: T0600101885
 Chevron Site Address: 340 Highland Ave.,
Piedmont, CA
 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. 120907 JCL
 Sampling Company: Blaine Tech Services
 Sampled By (Print): N. Lee
 Sampler Signature: [Signature]

Charge Code: NWRTB-0090329-D-OML
NWRTB OPSITE 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
 Other Lab: [Signature]
 Temp. Blank Check Time: 09:20 Temp: 28
11230 12
 Lancaster, PA
 Lab Contact: Jill Parker
 2425 New Holland Pike,
 Lancaster, PA 17601
 Phone No:
 (717)656-2300

ANALYSES REQUIRED										Preservation Codes		
<input checked="" type="checkbox"/> H	<input checked="" type="checkbox"/> H										H = HCL T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other	
<input checked="" type="checkbox"/> EPA 8260B/GC/MS	<input checked="" type="checkbox"/> TPH-G	<input checked="" type="checkbox"/> BTEX	<input checked="" type="checkbox"/> MTBE	<input checked="" type="checkbox"/> OXYGENATES	<input checked="" type="checkbox"/> HVOC	<input type="checkbox"/> HC SCREEN	<input type="checkbox"/> EPA 8015B	<input type="checkbox"/> EPA 8021B	<input type="checkbox"/> BTEX	<input type="checkbox"/> MTBE		Special Instructions Must meet lowest detection limits possible for: 8260 Compounds, Run TPH-D with Silca Gel Clean Up
<input type="checkbox"/> EPA 6010	<input type="checkbox"/> Ca, Fe, K, Mg, Mn, Na	<input type="checkbox"/> EPA 6010/7000	<input type="checkbox"/> TITL 22 METALS	<input type="checkbox"/> TTLC	<input type="checkbox"/> STLC	<input type="checkbox"/> EPA 310.1	<input type="checkbox"/> ALKALINITY	<input type="checkbox"/> EPA 418.1	<input type="checkbox"/> TRPH	<input type="checkbox"/> EPA 413.1	<input type="checkbox"/> OIL & GREASE	
<input type="checkbox"/> EPA 150.1	<input type="checkbox"/> PH	<input type="checkbox"/> SM2510B	<input type="checkbox"/> SPECIFIC CONDUCTIVITY	<input type="checkbox"/> EPA 8260	<input type="checkbox"/> ETHANOL	<input type="checkbox"/> EPA 8015	<input type="checkbox"/> TPH-D	<input type="checkbox"/> []				

SAMPLE ID				Sample Time	# of Containers	Container Type
Field Point Name	Matrix	Top Depth	Date (yy/mm/dd)			
C-2	W		120907	1125	8	mixed
C-3				1110		
C-4				1205		
C-5				0920		
C-6				1030		
A				1055		
B				0830	2	1005
QA	Y					

Relinquished By: <u>[Signature]</u>	Company: <u>BTS</u>	Date/Time: <u>9-7-12 1232</u>	Relinquished To: <u>[Signature]</u>	Company: <u>LLI</u>	Date/Time: <u>9/7/12 1232</u>
Relinquished By:	Company:	Date/Time:	Relinquished To:	Company:	Date/Time:
Relinquished By:	Company:	Date/Time:	Relinquished To:	Company:	Date/Time:

Turnaround Time:
 Standard 24 Hours 48 hours 72
 Hours Other
 Sample Integrity: (Check by lab on arrival)
 Intact: _____ On ice: _____ Temp: _____
 COC # _____

WELLHEAD INSPECTION CHECKLIST

Client Chenon Date 9-7-0

Site Address 340 Highland Ave Piedmont CA

Job Number 12090701 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
C-2								X		
C-3								X		
C-4								X		
C-5		X	X					X		
C-6	X	X	X							
A.								X		
B.								X		

NOTES: C-2 Christy Box, C-3 Christy Box, C-4 Christy Box
A 303 Bolts missing B 213 Bolts missing C-5 213 Bolts
missing 1213 Tubbs Broken

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 GROUND- WATER 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:

9-0329 Catalina Devine
 CHEVRON # Chevron Engineer
 340 Highland Ave Piedmont CA
 street number street name city state

WELL I.D.	GALS.	WELL I.D.	GALS.
C-2	1 30.3 3.5		
C-3	1 5.7		
C-4	1 2		
C-5	1 7.2		
C-6	1 7.8		
A	1 30.3		
B	1 24.9		
	1		

added equip. /
 rinse water 1 0.6
 any other adjustments /

TOTAL GALS. RECOVERED ~~82.0~~ ⁸²
 loaded onto BTS vehicle # 95

BTS event # 120907-301 time 1210 date 9/7/12
 Transporter signature *[Signature]*

REC'D AT BTS time 1350 date 9/7/12
 Unloaded/received by signature *[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

September 20, 2012

Project: 90329

Submittal Date: 09/08/2012
Group Number: 1334214
PO Number: 0015098202
Release Number: ESPINO DEVINE

State of Sample Origin: CA

<u>Client Sample Description</u>	<u>Lancaster Labs (LLD) #</u>
C-2-W-120907 NA Water	6781856
C-3-W-120907 NA Water	6781857
C-4-W-120907 NA Water	6781858
C-5-W-120907 NA Water	6781859
C-6-W-120907 NA Water	6781860
A-W-120907 NA Water	6781861
B-W-120907 NA Water	6781862
QA-T-120907 NA Water	6781863

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: C-2-W-120907 NA Water
Facility# 90329 BTST
340 Highland-Piedmont T0600101885 C-2

LLI Sample # WW 6781856
LLI Group # 1334214
Account # 10991

Project Name: 90329

Collected: 09/07/2012 11:25 by JO

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 09/08/2012 11:00

Reported: 09/20/2012 14:22

HAP02

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	270	5	10	10
10943	Ethylbenzene	100-41-4	88	0.5	1	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	110	0.5	1	1
10943	Toluene	108-88-3	11	0.5	1	1
10943	Xylene (Total)	1330-20-7	33	0.5	1	1
GC Volatiles SW-846 8015B						
01728	TPH-GRO N. CA water C6-C12	n.a.	7,800	500	1,000	10
GC Petroleum SW-846 8015B						
Hydrocarbons w/Si						
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	11,000	50	110	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	BTEX/MTBE 8260 Water	SW-846 8260B	1	P122582AA	09/14/2012 11:40	Brett W Kenyon	1
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	F122621AA	09/18/2012 09:01	Anita M Dale	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P122582AA	09/14/2012 11:40	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	F122621AA	09/18/2012 09:01	Anita M Dale	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12256B20A	09/15/2012 02:19	Catherine J Schwarz	10
01146	GC VOA Water Prep	SW-846 5030B	1	12256B20A	09/15/2012 02:19	Catherine J Schwarz	10
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	122560022A	09/17/2012 15:25	Christine E Dolman	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	122560022A	09/13/2012 03:25	Roman Kuropatkin	1

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

Sample Description: C-3-W-120907 NA Water
Facility# 90329 BTST
340 Highland-Piedmont T0600101885 C-3

LLI Sample # WW 6781857
LLI Group # 1334214
Account # 10991

Project Name: 90329

Collected: 09/07/2012 11:40 by JO

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 09/08/2012 11:00

Reported: 09/20/2012 14:22

HAP03

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
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	BTEX/MTBE 8260 Water	SW-846 8260B	1	P122582AA	09/14/2012 12:08	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P122582AA	09/14/2012 12:08	Brett W Kenyon	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12256B20A	09/14/2012 20:31	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	12256B20A	09/14/2012 20:31	Catherine J Schwarz	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	122560022A	09/17/2012 12:51	Christine E Dolman	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	122560022A	09/13/2012 03:25	Roman Kuropatkin	1

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

Sample Description: C-4-W-120907 NA Water
Facility# 90329 BTST
340 Highland-Piedmont T0600101885 C-4

LLI Sample # WW 6781858
LLI Group # 1334214
Account # 10991

Project Name: 90329

Collected: 09/07/2012 11:10 by JO

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 09/08/2012 11:00

Reported: 09/20/2012 14:22

HAP04

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
GC Petroleum SW-846 8015B						
Hydrocarbons w/Si						
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	N.D.	50	110	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	BTEX/MTBE 8260 Water	SW-846 8260B	1	P122582AA	09/14/2012 12:36	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P122582AA	09/14/2012 12:36	Brett W Kenyon	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12256B20A	09/14/2012 20:52	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	12256B20A	09/14/2012 20:52	Catherine J Schwarz	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	122560022A	09/17/2012 13:14	Christine E Dolman	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	122560022A	09/13/2012 03:25	Roman Kuropatkin	1

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

Sample Description: C-5-W-120907 NA Water
Facility# 90329 BTST
340 Highland-Piedmont T0600101885 C-5

LLI Sample # WW 6781859
LLI Group # 1334214
Account # 10991

Project Name: 90329

Collected: 09/07/2012 12:05 by JO

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 09/08/2012 11:00

Reported: 09/20/2012 14:22

HAP05

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
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	BTEX/MTBE 8260 Water	SW-846 8260B	1	P122582AA	09/14/2012 13:03	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P122582AA	09/14/2012 13:03	Brett W Kenyon	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12256B20A	09/14/2012 21:14	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	12256B20A	09/14/2012 21:14	Catherine J Schwarz	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	122560022A	09/17/2012 13:37	Christine E Dolman	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	122560022A	09/13/2012 03:25	Roman Kuropatkin	1

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

Sample Description: C-6-W-120907 NA Water
Facility# 90329 BTST
340 Highland-Piedmont T0600101885 C-6

LLI Sample # WW 6781860
LLI Group # 1334214
Account # 10991

Project Name: 90329

Collected: 09/07/2012 09:20 by JO

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 09/08/2012 11:00

Reported: 09/20/2012 14:22

HAP06

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
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	BTEX/MTBE 8260 Water	SW-846 8260B	1	P122582AA	09/14/2012 13:31	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P122582AA	09/14/2012 13:31	Brett W Kenyon	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12256B20A	09/14/2012 21:36	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	12256B20A	09/14/2012 21:36	Catherine J Schwarz	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	122560022A	09/17/2012 14:15	Christine E Dolman	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	122560022A	09/13/2012 03:25	Roman Kuropatkin	1

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

Sample Description: A-W-120907 NA Water
Facility# 90329 BTST
340 Highland-Piedmont T0600101885 A

LLI Sample # WW 6781861
LLI Group # 1334214
Account # 10991

Project Name: 90329

Collected: 09/07/2012 10:30 by JO

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 09/08/2012 11:00

Reported: 09/20/2012 14:22

HAP-A

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	6	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	110	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	BTEX/MTBE 8260 Water	SW-846 8260B	1	P122582AA	09/14/2012 13:59	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P122582AA	09/14/2012 13:59	Brett W Kenyon	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12256B20A	09/14/2012 21:58	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	12256B20A	09/14/2012 21:58	Catherine J Schwarz	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	122560022A	09/17/2012 14:39	Christine E Dolman	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	122560022A	09/13/2012 03:25	Roman Kuropatkin	1

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

Sample Description: B-W-120907 NA Water
Facility# 90329 BTST
340 Highland-Piedmont T0600101885 B

LLI Sample # WW 6781862
LLI Group # 1334214
Account # 10991

Project Name: 90329

Collected: 09/07/2012 10:55 by JO

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 09/08/2012 11:00

Reported: 09/20/2012 14:22

HAP-B

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	2	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	BTEX/MTBE 8260 Water	SW-846 8260B	1	F122582AA	09/14/2012 07:18	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F122582AA	09/14/2012 07:18	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12256B20A	09/14/2012 22:20	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	12256B20A	09/14/2012 22:20	Catherine J Schwarz	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	122560022A	09/17/2012 15:02	Christine E Dolman	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	122560022A	09/13/2012 03:25	Roman Kuropatkin	1

Sample Description: QA-T-120907 NA Water
Facility# 90329 BTST
340 Highland-Piedmont T0600101885 QA

LLI Sample # WW 6781863
LLI Group # 1334214
Account # 10991

Project Name: 90329

Collected: 09/07/2012 08:30

Chevron

Submitted: 09/08/2012 11:00

6001 Bollinger Canyon Rd L4310

Reported: 09/20/2012 14:22

San Ramon CA 94583

HAPQA

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	D122581AA	09/14/2012 11:35	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D122581AA	09/14/2012 11:35	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	12256B20A	09/14/2012 18:42	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	12256B20A	09/14/2012 18:42	Catherine J Schwarz	1

Quality Control Summary

Client Name: Chevron

Group Number: 1334214

Reported: 09/20/12 at 02:22 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: D122581AA	Sample number(s): 6781863								
Benzene	N.D.	0.5	1	ug/l	81		77-121		
Ethylbenzene	N.D.	0.5	1	ug/l	86		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	81		68-121		
Toluene	N.D.	0.5	1	ug/l	83		79-120		
Xylene (Total)	N.D.	0.5	1	ug/l	86		77-120		
Batch number: F122582AA	Sample number(s): 6781862								
Benzene	N.D.	0.5	1	ug/l	90		77-121		
Ethylbenzene	N.D.	0.5	1	ug/l	93		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	97		68-121		
Toluene	N.D.	0.5	1	ug/l	91		79-120		
Xylene (Total)	N.D.	0.5	1	ug/l	95		77-120		
Batch number: F122621AA	Sample number(s): 6781856								
Benzene	N.D.	0.5	1	ug/l	87		77-121		
Batch number: P122582AA	Sample number(s): 6781856-6781861								
Benzene	N.D.	0.5	1	ug/l	102	102	77-121	0	30
Ethylbenzene	N.D.	0.5	1	ug/l	97	97	79-120	0	30
Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	97	99	68-121	2	30
Toluene	N.D.	0.5	1	ug/l	104	105	79-120	0	30
Xylene (Total)	N.D.	0.5	1	ug/l	99	100	77-120	1	30
Batch number: 12256B20A	Sample number(s): 6781856-6781863								
TPH-GRO N. CA water C6-C12	N.D.	50.	100	ug/l	104	101	75-135	3	30
Batch number: 122560022A	Sample number(s): 6781856-6781862								
TPH-DRO CA C10-C28 w/ Si Gel	N.D.	32.	100	ug/l	85	76	50-118	10	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: D122581AA	Sample number(s): 6781863 UNSPK: P782113								
Benzene	85	83	72-134	3	30				
Ethylbenzene	93	91	71-134	3	30				
Methyl Tertiary Butyl Ether	82	78	72-126	4	30				
Toluene	90	88	80-125	2	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

Group Number: 1334214

Reported: 09/20/12 at 02:22 PM

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</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Xylene (Total)	93	90	79-125	3	30				
Batch number: F122582AA	Sample number(s): 6781862 UNSPK: 6781862								
Benzene	95	96	72-134	1	30				
Ethylbenzene	99	101	71-134	2	30				
Methyl Tertiary Butyl Ether	99	99	72-126	0	30				
Toluene	96	98	80-125	1	30				
Xylene (Total)	100	100	79-125	0	30				
Batch number: F122621AA	Sample number(s): 6781856 UNSPK: P788866								
Benzene	91	93	72-134	2	30				

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: D122581AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6781863	100	97	99	98
Blank	99	94	99	97
LCS	100	98	97	98
MS	100	100	99	99
MSD	101	97	99	102
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST VOCs by 8260B - Water

Batch number: F122582AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6781862	107	98	98	99
Blank	105	99	98	97
LCS	105	100	98	102
MS	104	101	98	103
MSD	105	100	97	102
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST VOCs by 8260B - Water

Batch number: F122621AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
Blank	103	98	97	94
LCS	103	99	98	100
MS	101	98	97	101
MSD	103	100	98	101

*- 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: 09/20/12 at 02:22 PM

Group Number: 1334214

Surrogate Quality Control

Limits: 80-116 77-113 80-113 78-113

Analysis Name: UST VOCs by 8260B - Water
Batch number: P122582AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6781856	93	95	103	102
6781857	97	96	101	91
6781858	95	101	102	90
6781859	96	102	101	89
6781860	91	97	94	93
6781861	106	105	99	98
Blank	96	99	103	90
LCS	95	100	103	94
LCSD	94	100	103	94

Limits: 80-116 77-113 80-113 78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 12256B20A
Trifluorotoluene-F

6781856	101
6781857	79
6781858	73
6781859	80
6781860	71
6781861	72
6781862	77
6781863	80
Blank	75
LCS	101
LCSD	92

Limits: 63-135

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel
Batch number: 122560022A
Orthoterphenyl

6781856	74
6781857	62
6781858	72
6781859	77
6781860	79
6781861	66
6781862	69
Blank	75
LCS	84
LCSD	77

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.

500ml amber

090712-04

CHAIN OF CUSTODY FORM

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

COC 1 of 1

Chevron Site Number: <u>90329</u> Chevron Site Global ID: <u>T0600101885</u> Chevron Site Address: <u>340 Highland Ave.</u> <u>Piedmont, CA</u> Chevron PM: <u>CATALINA DEVINE</u> Chevron PM Phone No.: <u>(925)790-3949</u> <input checked="" type="checkbox"/> Retail and Terminal Business Unit (RTBU) Job <input checked="" type="checkbox"/> Construction/Retail Job				Chevron Consultant: <u>CRA</u> Address: <u>5900 Hollis St. Suite A Emeryville.</u> CA Consultant Contact: <u>Nathan Lee</u> Consultant Phone No. <u>510-420-3333</u> Consultant Project No. <u>120907 JCL</u> Sampling Company: <u>Blaine Tech Services</u> Sampled By (Print): <u>N. Lee</u> Sampler Signature: <u>[Signature]</u>				ANALYSES REQUIRED											
Charge Code: NWRTB-0090329-0-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 <input checked="" type="checkbox"/> Lancaster, PA Lab Contact: <u>Jill Parker</u> 2425 New Holland Pike, Lancaster, PA 17601 Phone No: (717)656-2300		Other Lab _____ _____ _____ _____ _____		Temp. Blank Check Time Temp. <u>0930</u> <u>20</u> <u>1030</u> <u>10</u> _____ _____ _____		# # EPA 8260B/GC/MS TPH-G <input type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE <input checked="" type="checkbox"/> OXYGENATES <input type="checkbox"/> HVOC <input type="checkbox"/> EPA 8015B GRO <input checked="" type="checkbox"/> PRO <input type="checkbox"/> ORO <input type="checkbox"/> HC SCREEN <input type="checkbox"/> EPA 8021B BTEX <input type="checkbox"/> MTBE <input type="checkbox"/> EPA 6010 Ca, Fe, K, Mg, Mn, Na EPA6010/7000 TITLE 22 METALS <input type="checkbox"/> TLTC <input type="checkbox"/> STLTC <input type="checkbox"/> EPA150.1 PH <input type="checkbox"/> SM2510B SPECIFIC CONDUCTIVITY EPA 418.1 TRPH <input type="checkbox"/> EPA 8260 ETHANOL EPA 8015 TPH-D <input type="checkbox"/>	Preservation Codes H = HCL T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other acct # <u>10991</u> Cup # <u>1334214</u> Sample # <u>6781856-63</u>	Special Instructions Must meet lowest detection limits possible for 8260 Compounds, Run TPH-D with Silica Gel Clean Up							
SAMPLE ID				Sample Time	# of Containers	Container Type													Notes/Comments
Field Point Name	Matrix	Top Depth	Date (yy:mmdd)																
<u>C-2</u>	<u>W</u>		<u>120907</u>	<u>1125</u>	<u>8</u>	<u>mixed</u>													
<u>C-3</u>	<u> </u>		<u> </u>	<u>1140</u>	<u> </u>	<u> </u>													
<u>C-4</u>	<u> </u>		<u> </u>	<u>1110</u>	<u> </u>	<u> </u>													
<u>C-5</u>	<u> </u>		<u> </u>	<u>1205</u>	<u> </u>	<u> </u>													
<u>C-6</u>	<u> </u>		<u> </u>	<u>0920</u>	<u> </u>	<u> </u>													
<u>A</u>	<u> </u>		<u> </u>	<u>1030</u>	<u> </u>	<u> </u>													
<u>B</u>	<u> </u>		<u> </u>	<u>1055</u>	<u> </u>	<u> </u>													
<u>QA</u>	<u>T</u>		<u> </u>	<u>0830</u>	<u>2</u>	<u>vous</u>													<u>TPH-G BTEX MTBE only</u>
Relinquished By <u>[Signature]</u> Company <u>BTS</u> Date/Time: <u>9-7-12 1232</u>				Relinquished To <u>[Signature]</u> Company <u>UI</u> Date/Time: <u>9/7/12 1232</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 <u>[Signature]</u> Company <u>UI</u> Date/Time: <u>9/17/12 1630</u>				Relinquished To <u>[Signature]</u> Company <u>FE</u> Date/Time: _____				Sample Integrity: (Check by lab on arrival) Intact: <input checked="" type="checkbox"/> On Ice: <input checked="" type="checkbox"/> Temp: <u>1.5-2.7</u>											
Relinquished By <u>[Signature]</u> Company _____ Date/Time: _____				Relinquished To <u>[Signature]</u> Company <u>FLS</u> Date/Time: <u>9/18/12 11</u>				COC # _____											

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		
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.		

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

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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