

Detterman, Mark, Env. Health

From: Evans, Charlotte [Cevans@croworld.com]
Sent: Thursday, March 25, 2010 3:29 PM
To: Detterman, Mark, Env. Health
Subject: RO#143 1633 Harrison St., Oakland Trend Graphs
Attachments: RO#0143 1633 Harrison St Oakland Trend Graphs.pdf; RO 143.2SAR09.2009-11-10.pdf

Hi Mark,

Attached are the trend graphs for former well MW-7 and current well MW-16.

For former onsite well MW-7, the trend shows that after remediation in 1993, TPHg and benzene decreased by as much as 3 orders of magnitude and stabilized until the well was destroyed. Based on the groundwater elevation data, it appears that groundwater may have been re-impacted by groundwater fluctuations (up to 7.5 feet of fluctuation). During the remedial actions in 2008, well MW-7 was overdrilled and the soil surrounding MW-7 was removed.

For offsite well MW-16, concentrations suddenly increased 1-2 orders of magnitude in 1994, over 20 years after the station ceased operations. Benzene peaked in December 1995 and TPHg peaked in August 2006 and both are currently declining.

We agree that confirmation groundwater data from a down gradient offsite monitoring well would be helpful to confirm that the remedial actions were successful and close the environmental case with ACEH. But the amount of utilities in the downgradient direction precludes a permanent well. As stated before, we are not able to install a well onsite due to the City of Oakland and HUD requirements for financial commitments.

Please call me when you have a chance to discuss the site and the options we currently have. Thank you for your time on this.

Charlotte Evans
Conestoga-Rovers & Associates (CRA)

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TREND GRAPHS

Wells MW-7 and MW-16

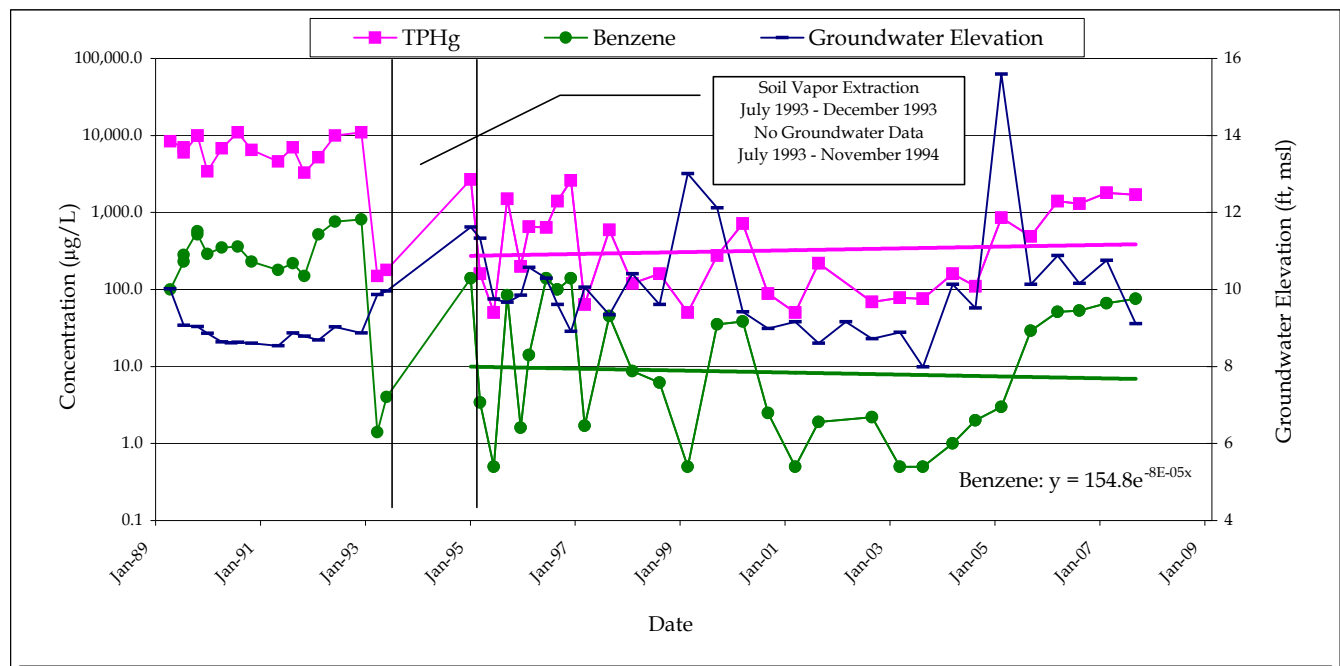
Predicted Time to Reach Water Quality Objectives in Well MW-7

Former Chevron Station 9-0020, 1633 Harrison Street, Oakland, California

$$y = b e^{ax} \quad \implies \quad x = \ln(y/b) / a$$

where: y = concentration in $\mu\text{g/L}$ a = decay constant
 b = concentration at time (x) x = time (x) in days

	Constituent	Total Petroleum Hydrocarbons as Gasoline (TPHg)	Benzene
Given			
Water Quality Objective (WQO):	y	100	1
Constant:	b	NA	1.55E+02
Constant:	a	NA	-7.91E-05
Starting date for current trend:		1/17/1995	1/17/1995
Calculate			
Attenuation Half Life (years):	$(-\ln(2)/a)/365.25$	NA	24.01
Estimated Date to Reach WQO:	$(x = \ln(y/b) / a)$	Increasing Trend	Aug 2074



FORMER CHEVRON STATION 9-0020
 1633 HARRISON STREET
 OAKLAND, CALIFORNIA



MW-7: TPHG AND BENZENE
 CONCENTRATIONS AND GROUNDWATER
 ELEVATION

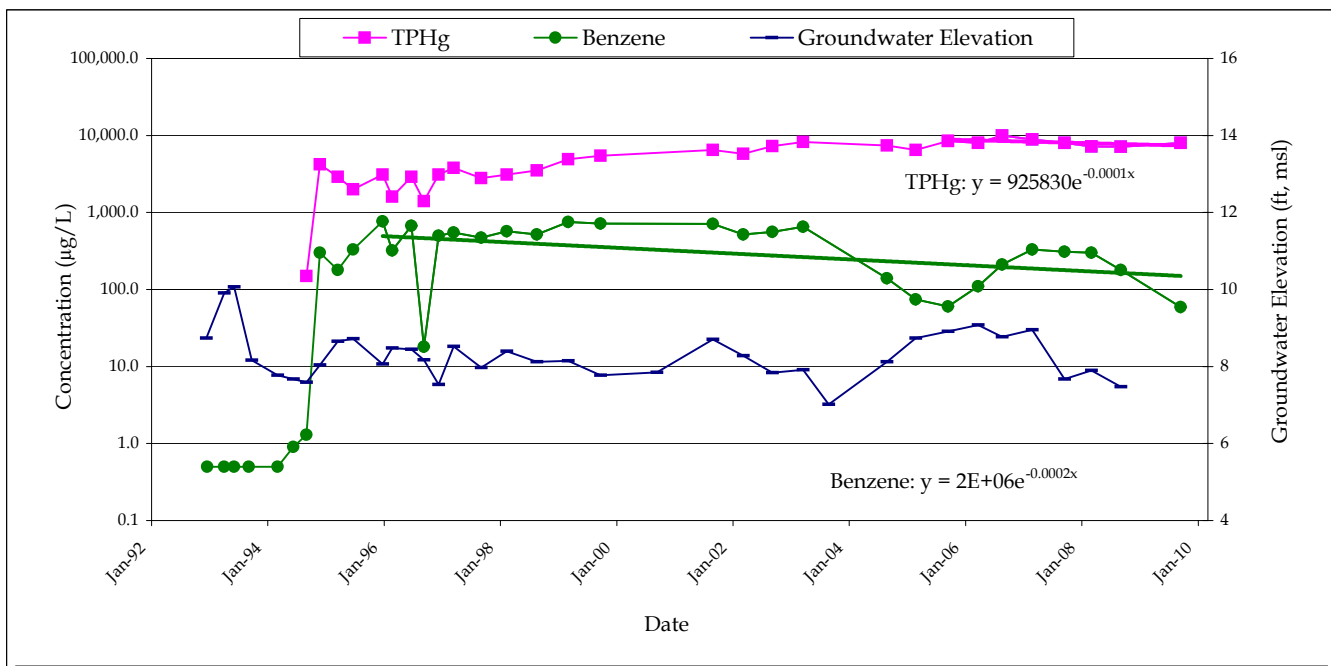
Predicted Time to Reach Water Quality Objectives in Well MW-16

Former Chevron Station 9-0020, 1633 Harrison Street, Oakland, California

$$y = b e^{ax} \quad \implies \quad x = \ln(y/b) / a$$

where: y = concentration in $\mu\text{g/L}$ a = decay constant
 b = concentration at time (x) x = time (x) in days

	Constituent	Total Petroleum Hydrocarbons as Gasoline (TPHg)	Benzene
Given			
Water Quality Objective (WQO):	y	100	1
Constant:	b	9.26E+05	2.04E+06
Constant:	a	-1.20E-04	-2.37E-04
Starting date for current trend:		9/22/2005	12/30/1995
Calculate			
Attenuation Half Life (years): $(-\ln(2)/a)/365.25$		15.75	7.99
Estimated Date to Reach WQO: $(x = \ln(y/b) / a)$		Aug 2107	Jul 2067



FORMER CHEVRON STATION 9-0020
 1633 HARRISON STREET
 OAKLAND, CALIFORNIA



MW-16: TPHG AND BENZENE
 CONCENTRATIONS AND GROUNDWATER
 ELEVATION



Aaron Costa
Project Manager
Marketing Business Unit

**Chevron Environmental
Management Company**
6111 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 543-2961
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acosta@chevron.com

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

Re: Former Chevron Service Station No. 9-0020
1633 Harrison Street
Oakland, CA

I have reviewed the attached report dated November 10, 2009.

I agree with the conclusions and recommendations presented in the referenced report. This 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 who 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 black ink that reads "Aaron Costa".

Aaron Costa
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 10, 2009

Reference No. 311956

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

Re: Second Semi-Annual 2009 Groundwater Monitoring and Sampling Report
Chevron Service Station 9-0020
1633 Harrison Street
Oakland, California
Fuel Leak Case No. RO0143

Dear Mr. Detterman:

Conestoga-Rovers & Associates is submitting this *Second Semi-Annual 2009 Groundwater Monitoring and Sampling Report* for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company (Chevron).

Groundwater monitoring and sampling was performed by Blaine Tech Services (Blaine Tech) of San Jose, California. Groundwater monitoring and sampling data from this event are presented on Figure 2. Cumulative groundwater monitoring and sampling data are summarized in Tables 1 through 3. Blaine Tech's September 25, 2009 *Second Semi-Annual Monitoring* report is presented as Attachment A. Groundwater samples were sent to Lancaster Laboratories of Pennsylvania for chemical analysis. Lancaster's October 6, 2009 report is included as Attachment B.

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**CONESTOGA-ROVERS
& ASSOCIATES**

November 10, 2009

Reference No. 311956

- 2 -

Please contact Charlotte Evans at (510) 420-3351 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Charlotte Evans



Brandon S. Wilken, P.G. #7564

BY/doh/6

Enc.

Figure 1	Site Vicinity Map
Figure 2	Hydrocarbon Concentration Map and Potentiometric Surface Map
Table 1	Groundwater Monitoring Data and Analytical Results
Table 2	Groundwater Analytical Results
Table 3	Groundwater Analytical Results - Oxygenate Compounds and VOCs
Attachment A	Blaine Tech's October 1, 2009 <i>Second Semi-Annual Monitoring Report</i>
Attachment B	Lancaster Laboratories October 8, 2009 Analytical Report

cc: Mr. Aaron Costa, Chevron Environmental Management Company

FIGURES

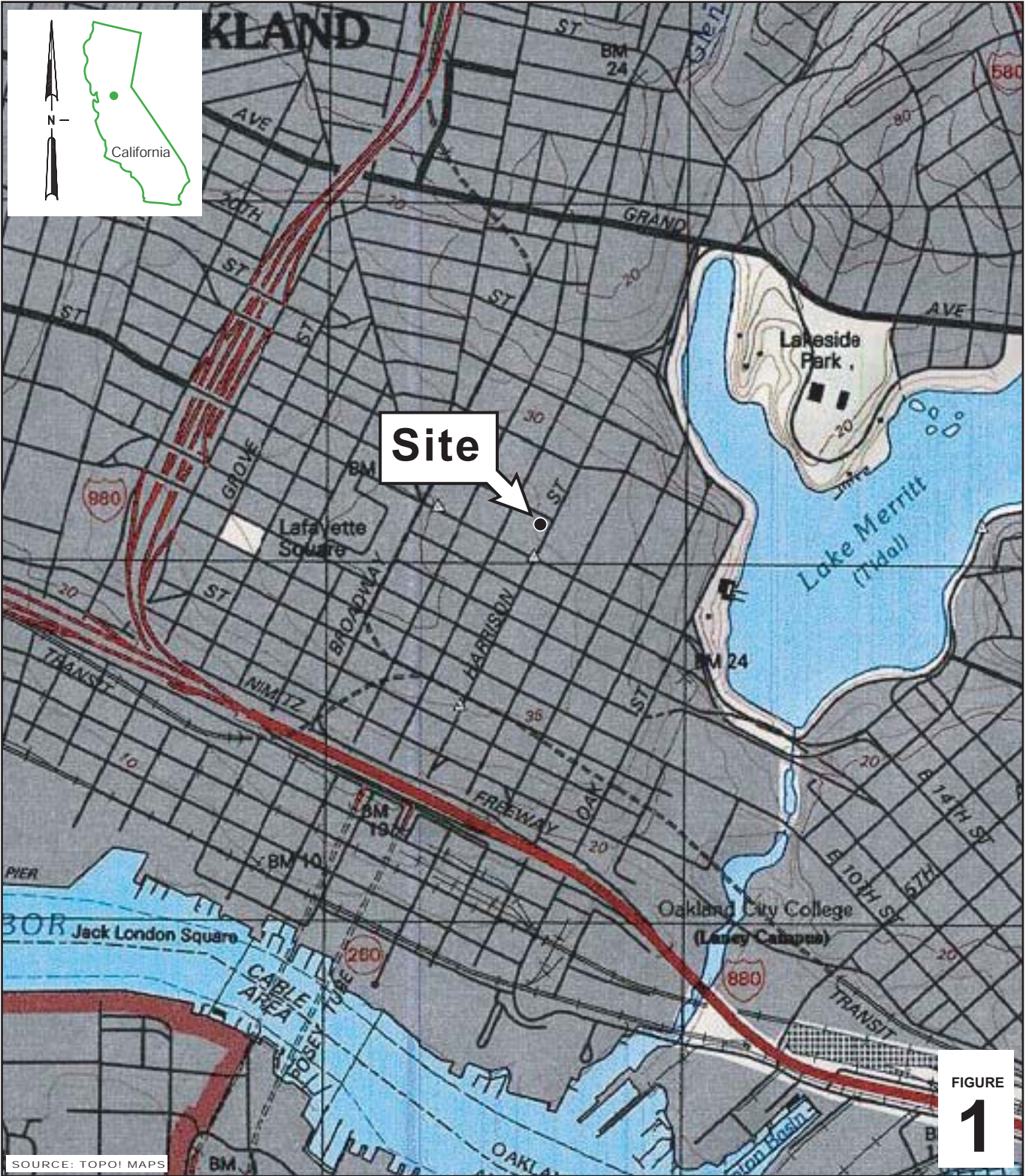


FIGURE 1

0 1/8 1/4 1/2 1
SCALE : 1" = 1/4 MILE

Former Chevron Station 9-0020
1633 Harrison Street
Oakland, California



**CONESTOGA-ROVERS
& ASSOCIATES**

Vicinity Map

EXPLANATION

- Monitoring well location
- VP-3 ↕ Soil vapor probe location
- MW-1 ☒ Abandoned well location
- ID Well Designation
- GW Groundwater elevation
- TPHg } Hydrocarbon concentrations in groundwater, in micrograms per liter (µg/L)
- BENZ }
- MTBE }
- SSA Sampled semi-annually
- 8.00 — Groundwater elevation contour line dashed where inferred

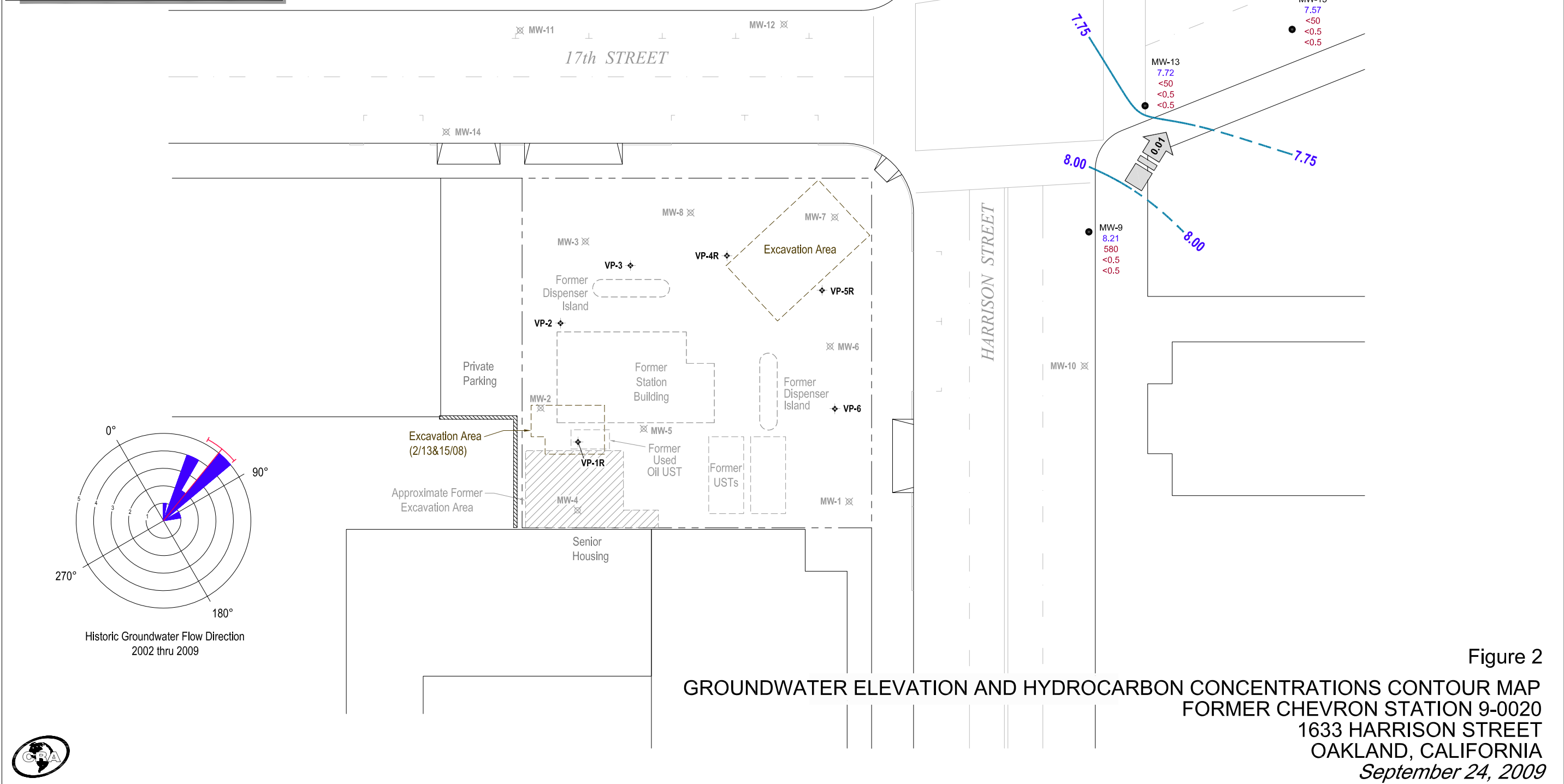
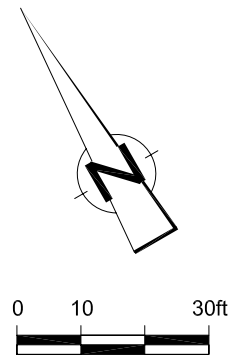


Figure 2
GROUNDWATER ELEVATION AND HYDROCARBON CONCENTRATIONS CONTOUR MAP
FORMER CHEVRON STATION 9-0020
1633 HARRISON STREET
OAKLAND, CALIFORNIA
September 24, 2009



TABLES

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-0020
1633 Harrison Street
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-7										
04/23/89	29.01	10.02	18.99	--	--	--	--	--	--	--
04/24/89	29.01	--	--	8400	100	260	160	1300	--	<3.0
07/28/89	29.01	9.07	19.94	7000	230	90	70	440	--	<3000
07/28/89 (D)	29.01	--	--	6000	280	180	58	430	--	--
10/30/89	29.01	9.04	19.97	10,000	570	55	160	400	--	--
10/30/89 (D)	29.01	--	--	9900	520	82	180	410	--	--
01/09/90	29.01	8.86	20.15	3400	290	72	9.0	200	--	--
04/18/90	29.01	8.64	20.37	6800	350	140	110	400	--	--
06/22/90	29.01	8.61	20.40	--	--	--	--	--	--	--
08/09/90	29.01	8.63	20.38	11,000	360	130	14	660	--	--
11/13/90	29.01	8.60	20.41	6500	230	110	97	460	--	--
05/15/91	29.01	8.54	20.47	4600	180	55	46	300	--	--
08/27/91	29.01	8.87	20.14	7000	220	53	63	340	--	--
11/15/91	29.01	8.79	20.22	3300	150	19	4.9	200	--	--
02/20/92	29.01	8.69	20.32	5200	520	150	100	380	--	--
06/15/92	29.01	9.03	19.98	10,000	760	430	320	1100	--	--
12/16/92	29.01	8.87	20.14	11,000	810	350	280	1100	--	--
04/07/93	29.01	9.87	19.14	150	1.4	0.9	0.9	4.5	--	--
06/09/93	29.01	9.96	19.05	180	4.0	1.0	1.0	3.0	--	--
09/10/93	29.01	--	--	--	--	--	--	--	--	--
09/27/93	29.01	--	--	--	--	--	--	--	--	--
12/17/93	29.01	--	--	--	--	--	--	--	--	--
03/10/94	29.01	--	--	--	--	--	--	--	--	--
06/16/94	29.01	--	--	--	--	--	--	--	--	--
09/07/94	29.01	--	--	--	--	--	--	--	--	--
11/30/94	29.01	INACCESSIBLE	--	--	--	--	--	--	--	--
01/17/95	29.01	11.62	17.39	2700	140	65	44	200	--	--
03/22/95	29.01	11.33	17.68	160	3.4	<0.5	1.1	0.77	--	--
06/27/95	29.01	9.75	19.26	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/28/95	29.01	9.67	19.34	1500	84	24	26	130	--	--
12/30/95	29.01	9.85	19.16	200	1.6	<0.5	1.3	5.9	5.5	--
02/28/96	29.01	10.57	18.44	650	14	1.3	4.2	16	34	--
06/27/96	29.01	10.29	18.72	640	140	10	9.8	14	55	--
09/13/96	29.01	9.61	19.40	1400	100	30	24	66	130	--
12/16/96	29.01	8.91	20.10	2600	140	72	51	180	<50	--
03/20/97	29.01	10.06	18.95	64	1.7	2.4	<0.5	0.67	<2.5	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-0020
1633 Harrison Street
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-7 (cont)										
09/08/97	29.01	9.34	19.67	590	45	<1.0	7.7	<1.0	46	--
02/16/98	29.01	10.41	18.60	120	8.7	7.5	1.9	11	4.4	--
08/25/98	29.01	9.61	19.40	160	6.2	33	0.84	2.0	<2.5	--
03/09/99	29.01	13.01	16.00	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
09/29/99	29.01	12.12	16.89	276	35.1	2.54	2.17	5.43	<5.0/<2.0 ¹	--
03/27/00	29.01	9.42	19.59	721	38.5	1.06	6.31	9.38	7.75	--
09/18/00 ³	29.01	8.99	20.02	88 ⁴	2.5	0.92	<0.50	1.3	8.7	--
03/27/01 ³	29.01	9.16	19.85	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	--
09/05/01 ³	29.01	8.60	20.41	220	1.9	2.3	<0.50	<3.0	<2.5	--
03/15/02 ³	29.01	9.16	19.85	NOT SAMPLED - DUE TO INSUFFICIENT WATER				--	--	--
09/14/02 ³	29.01	8.72	20.29	69	2.2	0.85	<0.50	<1.5	<2.5	--
03/26/03 ³	29.01	8.89	20.12	78	<0.50	0.68	<0.50	<1.5	<2.5	--
09/02/03 ^{6,7}	29.01	7.99	21.02	76	<0.5	<0.7	<0.8	<1.6	<0.5	--
03/29/04 ^b	29.01	10.13	18.88	160	1	<0.5	0.5	0.6	1	--
09/03/04 ^b	29.01	9.52	19.49	110	2	1	0.8	0.8	<0.5	--
03/02/05 ^b	29.01	15.59	13.42	850	3	0.9	6	1	<0.5	--
09/22/05 ^b	29.01	10.13	18.88	490	29	5	14	4.9	<0.5	--
03/30/06 ^b	29.01	10.88	18.13	1,400	51	9	26	10	<0.5	--
08/28/06 ^b	29.01	10.16	18.85	1,300	53	12	21	16	<0.5	--
03/05/07 ^b	29.01	10.76	18.25	1,800	66	16	17	19	<0.5	--
09/24/07 ^b	29.01	9.11	19.90	1,700	76	21	19	24	<0.5	--
DESTROYED										
MW-9										
06/22/90	28.67	7.87	20.80	5700	47	31	280	530	--	<1000
08/09/90	28.67	7.93	20.74	8000	<0.3	17	210	480	--	--
11/13/90	28.67	7.89	20.78	6400	<3.0	20	240	450	--	--
05/15/91	28.67	8.19	20.48	5700	2.0	16	190	390	--	--
08/27/91	28.67	8.12	20.55	6700	<3.0	31	180	350	--	--
11/15/91	28.67	8.10	20.57	4000	8.8	26	150	280	--	--
02/20/92	28.67	6.90	21.77	3400	13	30	230	460	--	--
06/15/92	28.67	8.30	20.37	4500	19	72	280	560	--	--
12/16/92	28.68	8.39	20.29	9900	380	220	380	1300	--	--
04/07/93	28.68	9.36	19.32	8700	51	150	360	1000	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-0020
1633 Harrison Street
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-9 (cont)										
06/09/93	28.68	9.52	19.16	8900	170	160	350	1100	--	--
09/10/93	28.68	--	--	4600	110	63	190	350	--	--
09/27/93	28.68	8.74	19.94	--	--	--	--	--	--	--
12/17/93	28.68	8.37	20.31	4600	92	85	180	300	--	--
03/10/94	28.68	8.38	20.30	3300	8.0	29	120	170	--	--
06/16/94	28.68	8.42	20.26	2900	4.8	16	85	64	--	--
09/07/94	28.68	8.27	20.41	2900	<0.5	9.9	70	75	--	--
11/30/94	28.68	8.70	19.98	2100	<5.0	<5.0	53	51	--	--
03/22/95	28.68	9.27	19.41	2200	<5.0	5.3	26	69	--	--
06/27/95	28.68	9.28	19.40	2900	7.4	10	68	99	--	--
09/28/95	28.68	9.13	19.55	4000	32	<10	36	44	--	--
12/30/95	28.68	8.88	19.80	3800	<5.0	13	<5.0	120	120	--
02/28/96	28.68	8.93	19.75	2000	9.9	<5.0	46	30	<25	--
06/27/96	28.68	9.13	19.55	2400	36	7.1	65	72	<50	--
09/13/96	28.68	8.86	19.82	2500	26	8.4	53	39	36	--
12/16/96	28.68	7.91	20.77	1200	3.5	2.4	12	14	<10	--
03/20/97	28.68	9.28	19.40	2400	25	5.8	26	22	<25	--
09/08/97	28.68	8.59	20.09	1800	9.5	8.1	22	21	12	--
02/16/98	28.68	9.45	19.23	950	5.6	3.1	13	13	18	--
08/25/98	28.68	9.18	19.50	2100	2.5	6.4	35	51	8.9	--
03/09/99	28.68	8.87	19.81	1400	12	7.8	8.8	16	8.8	--
07/19/99 ^c	28.68	--	--	--	--	--	--	--	--	--
09/29/99	28.68	8.27	20.41	217	1.36	1.14	1.56	1.49	<5.0/<2.0 ¹	--
03/27/00	28.68	INACCESSIBLE	--	--	--	--	--	--	--	--
09/18/00 ³	28.68	8.63	20.05	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
03/27/01 ³	28.68	8.84	19.84	718	<0.500	<0.500	3.31	12.3	<0.500	--
09/05/01 ³	28.68	8.39	20.29	1,500	<0.50	2.9	11	25	<2.5	--
03/15/02 ³	28.68	8.07	20.61	740	0.56	<0.50	4.0	5.3	<2.5	--
09/14/02 ³	28.68	8.62	20.06	580	<1.0	<1.0	1.8	3.4	3.4	--
03/26/03 ³	28.68	8.71	19.97	440	1.7	0.69	<5.0	<1.5	<2.5	--
09/02/03 ^{6,7}	28.68	7.82	20.86	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--
03/29/04 ⁶	28.68	9.54	19.14	660	<0.5	<0.5	12	11	0.8	--
09/03/04 ⁶	28.68	8.91	19.77	350	<0.5	<0.5	2	0.9	<0.5	--
03/02/05 ⁶	28.68	9.57	19.11	800	<0.5	<0.5	3	1.6	<0.5	--
09/22/05 ⁶	28.68	9.67	19.01	690	<0.5	<0.5	0.6	<1.0	<0.5	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-0020
1633 Harrison Street
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-9 (cont)										
03/30/06 ^b	28.68	10.02	18.66	540	<0.5	0.9	4	4	<0.5	--
08/28/06 ^b	28.68	9.43	19.25	2,700	<0.5	7	10	56	<0.5	--
03/05/07 ^b	28.68	9.89	18.79	800	<0.5	<0.5	0.7	1	<0.5	--
09/24/07 ^b	28.68	7.98	20.70	360	<0.5	<0.5	0.6	0.9	<0.5	--
03/10/08 ^b	28.68	8.82	19.86	390	<0.5	<0.5	<0.5	0.9	<0.5	--
09/12/08 ^u	28.68	8.23	20.45	540	<0.5	<0.5	0.7	6.5	<0.5	--
09/24/09 ^u	28.68	8.21	20.47	580	<0.5	<0.5	0.8 J	5	<0.5	--
MW-13										
11/15/91	28.63	7.56	21.07	3100	68	40	110	270	--	--
02/20/92	28.63	6.46	22.17	3100	120	50	240	400	--	--
06/15/92	28.63	7.96	20.67	3200	35	33	210	300	--	--
12/16/92	28.62	8.28	20.34	87,000	1400	540	2400	11,000	--	--
04/07/93	28.62	9.21	19.41	1500	72	12	70	160	--	--
06/09/93	28.62	9.42	19.20	210	6.0	2.0	7.0	16	--	--
09/10/93	28.62	--	--	73	3.0	<0.5	2.0	3.0	--	--
09/27/93	28.62	8.27	20.35	--	--	--	--	--	--	--
12/17/93	28.62	7.86	20.76	640	43	12	12	37	--	--
03/10/94	28.62	7.93	20.69	540	44	22	10	69	--	--
06/16/94	28.62	7.95	20.67	1800	63	12	18	64	--	--
09/07/94	28.62	7.79	20.83	1400	59	12	22	50	--	--
11/30/94	28.62	8.21	20.41	700	36	4.4	18	31	--	--
03/22/95	28.62	8.80	19.82	190	1.4	1.4	<0.5	<0.5	--	--
06/27/95	28.62	8.86	19.76	220	1.8	<0.5	<0.5	0.84	--	--
09/28/95	28.62	8.58	20.04	160	3.2	<0.5	0.97	2.2	--	--
12/30/95	28.62	8.32	20.30	190	0.94	<0.5	0.74	1.1	<2.5	--
02/28/96	28.62	8.73	19.89	130	<0.5	<0.5	<0.5	<0.5	<2.5	--
06/27/96	28.62	8.64	19.98	280	<0.5	1.4	<0.5	3.8	9.4	--
09/13/96	28.62	8.34	20.28	170	<0.5	<0.5	<0.5	0.89	2.7	--
12/16/96	28.62	8.15	20.47	170	<0.5	0.51	0.6	3.0	<2.5	--
03/20/97	28.62	8.72	19.90	290	1.6	0.78	1.1	1.5	3.4	--
09/08/97	28.62	8.13	20.49	140	0.52	1.5	<0.5	1.2	<2.5	--
02/16/98	28.62	8.87	19.75	64	<0.5	<0.5	<0.5	<0.5	<2.5	--
08/25/98	28.62	8.60	20.02	99	<0.5	<0.5	<0.5	1.7	<2.5	--
03/09/99	28.62	8.62	20.00	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-0020
1633 Harrison Street
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-13 (cont)										
09/29/99	28.62	8.13	20.49	<50	<0.5	<0.5	<0.5	<0.5	<5.0/<2.0 ¹	--
03/27/00	28.62	8.58	20.04	89.5	0.765	0.682	<0.5	0.688	4.04	--
09/18/00	28.62	8.13	20.49	1,300 ^p	6.9	2.8	14	28	12	--
03/27/01	28.62	8.34	20.28	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	--
09/05/01	28.62	7.96	20.66	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
03/15/02	28.62	8.52	20.10	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
09/14/02	28.62	8.16	20.46	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
03/26/03	28.62	8.20	20.42	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
09/02/03 ^b	28.62	7.27	21.35	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--
03/29/04 ^b	28.62	8.96	19.66	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--
09/03/04 ^b	28.62	8.48	20.14	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--
03/02/05 ^b	28.62	9.11	19.51	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--
09/22/05 ^b	28.62	9.33	19.29	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--
03/30/06 ^b	28.62	9.52	19.10	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--
08/28/06 ^b	28.62	9.08	19.54	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--
03/05/07 ^b	28.62	9.44	19.18	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--
09/24/07 ^b	28.62	7.92	20.70	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--
03/10/08 ^b	28.62	8.41	20.21	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--
09/12/08 ^p	28.62	7.74	20.88	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--
09/24/09^{v,v}	28.62	7.72	20.90	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--
MW-15										
12/16/92	28.04	8.30	19.74	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/07/93	28.04	9.24	18.80	<50	1.3	<0.5	<0.5	<1.5	--	--
06/09/93	28.04	9.44	18.60	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/10/93	28.04	--	--	--	--	--	--	--	--	--
09/27/93	28.04	8.11	19.93	<50	2.0	<0.5	<0.5	<0.5	--	--
12/17/93	28.04	7.72	20.32	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/10/94	28.04	7.75	20.29	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/16/94	28.04	7.73	20.31	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/07/94	28.04	7.61	20.43	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/30/94	28.04	8.03	20.01	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/22/95	28.04	8.57	19.47	69	4.9	<0.5	<0.5	<0.5	--	--
06/27/95	28.04	8.70	19.34	<50	3.9	<0.5	1.4	<0.5	--	--
09/28/95	28.04	8.38	19.66	<50	0.82	<0.5	<0.5	<0.5	--	--

Table 1
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Former Chevron Service Station #9-0020
1633 Harrison Street
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-15 (cont)										
12/30/95	28.04	8.10	19.94	160	7.0	1.4	<0.5	1.8	14	--
02/28/96	28.04	8.41	19.63	81	1.7	<0.5	<0.5	<0.5	<2.5	--
06/27/96	28.04	8.44	19.60	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
09/13/96	28.04	8.14	19.90	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
12/16/96	28.04	7.81	20.23	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
03/20/97	28.04	8.52	19.52	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
09/08/97	28.04	7.86	20.18	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
02/16/98	28.04	8.67	19.37	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
08/25/98	28.04	8.34	19.70	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
03/09/99	28.04	8.35	19.69	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
09/29/99	28.04	7.92	20.12	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
03/27/00	28.04	8.37	19.67	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
09/18/00	28.04	7.91	20.13	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
03/27/01	28.04	8.13	19.91	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	--
09/05/01	28.04	7.76	20.28	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
03/15/02	28.04	8.33	19.71	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
09/14/02	28.04	7.94	20.10	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
03/26/03	28.04	7.99	20.05	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
09/02/03 ^o	28.04	7.12	20.92	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--
03/29/04 ^o	28.04	8.73	19.31	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--
09/03/04 ^o	28.04	8.31	19.73	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--
03/02/05 ^o	28.04	8.93	19.11	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--
09/22/05 ^o	28.04	9.19	18.85	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--
03/30/06 ^o	28.04	9.29	18.75	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--
08/28/06 ^o	28.04	8.92	19.12	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--
03/05/07 ^o	28.04	9.19	18.85	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--
09/24/07 ^o	28.04	7.71	20.33	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--
03/10/08 ^o	28.04	8.17	19.87	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--
09/12/08 ^u	28.04	7.54	20.50	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--
09/24/09^v	28.04	7.57	20.47	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--
MW-16										
12/16/92	28.32	8.74	19.58	--	--	--	--	--	--	--
12/21/92	28.32	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/07/93	28.32	9.91	18.41	<50	<0.5	6.8	<0.5	<0.5	--	--

Table 1
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1633 Harrison Street
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-16 (cont)										
06/09/93	28.32	10.07	18.25	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/10/93	28.32	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/27/93	28.32	8.16	20.16	--	--	--	--	--	--	--
12/17/93	28.32	--	--	--	--	--	--	--	--	--
03/10/94	28.32	7.77	20.55	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/16/94	28.32	7.67	20.65	<50	0.9	0.7	<0.5	<0.5	--	--
09/07/94	28.32	7.59	20.73	150	1.3	0.8	1.2	3.6	--	--
11/30/94	28.32	8.04	20.28	4200	300	<5.0	34	350	--	--
03/22/95	28.32	8.65	19.67	2900	180	5.7	21	91	--	--
06/27/95	28.32	8.72	19.60	2000	330	10	27	48	--	--
09/28/95	28.32	INACCESSIBLE	--	--	--	--	--	--	--	--
12/30/95	28.32	8.06	20.26	3100	770	39	30	80	<12	--
02/28/96	28.32	8.48	19.84	1600	320	15	11	21	<25	--
06/27/96	28.32	8.45	19.87	2900	670	48	54	86	280	--
09/13/96	28.32	8.17	20.15	1400	18	4.0	8.6	16	<10	--
12/16/96	28.32	7.53	20.79	3100	500	25	23	52	<25	--
03/20/97	28.32	8.52	19.80	3800	550	23	14	8.4	140	--
09/08/97	28.32	7.97	20.35	2800	470	28	24	41	<10	--
02/16/98	28.32	8.40	19.92	3100	570	35	27	54	<25	--
08/25/98	28.32	8.12	20.20	3500	520	43	57	75	<12	--
03/09/99	28.32	8.15	20.17	4900	750	55	40	120	<50	--
09/29/99	28.32	7.77	20.55	5480	717	45.3	44	100	<125/<10 ⁴	--
03/27/00	28.32	INACCESSIBLE	--	--	--	--	--	--	--	--
09/18/00 ³	28.32	7.85	20.47	--	--	--	--	--	--	--
03/27/01	28.32	INACCESSIBLE	--	--	--	--	--	--	--	--
09/05/01 ³	28.32	8.70	19.62	6,500	710	72	45	94	<20	--
03/15/02 ³	28.32	8.28	20.04	5,800	520	60	28	68	<2.5	--
09/14/02 ³	28.32	7.84	20.48	7,300	560	75	52	100	<50	--
03/26/03 ³	28.32	7.91	20.41	8,200	650	96	66	120	<50	--
09/02/03 ⁷	28.32	7.02	21.30	INACCESSIBLE - VEHICLE PARKED OVER WELL				--	--	--
03/29/04	28.32	INACCESSIBLE - VEHICLE PARKED OVER WELL				--	--	--	--	--
09/03/04 ⁶	28.32	8.12	20.20	7,400	140	89	58	139	<0.5	--
03/02/05 ⁶	28.32	8.74	19.58	6,500	74	55	31	69	<1	--
09/22/05 ⁶	28.32	8.91	19.41	8,500	60	46	35	64	<3	--
03/30/06 ⁶	28.32	9.08	19.24	8,000	110	72	55	111	<0.5	--

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Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-16 (cont)										
08/28/06 ^b	28.32	8.77	19.55	10,000	210	100	58	152	<0.5	--
03/05/07 ^b	28.32	8.95	19.37	8,900	330	78	38	122	<1	--
09/24/07 ^b	28.32	7.67	20.65	8,000	310	97	55	131	<0.5	--
03/10/08 ^b	28.32	7.90	20.42	7,200 ^s	300	100	75	244	<0.5	--
09/12/08 ^v	28.32	7.47	20.85	7,100	180	95	64	172	<3	--
09/24/09^v	28.32	INACCESSIBLE - PARKED OVER			--	--	--	--	--	--
MW-1										
11/03/88	29.82	9.42	20.40	<1000	<1.0	<1.0	<1.0	<1.0	--	--
02/02/89	29.82	9.11	20.71	--	--	--	--	--	--	--
02/10/89	29.82	--	--	<100	<0.2	<0.2	<0.2	<0.4	--	--
04/23/89	29.82	9.48	20.34	--	--	--	--	--	--	--
04/24/89	29.82	--	--	<50	<0.5	<1.0	<1.0	<1.0	--	<3000
07/28/89	29.82	9.24	20.58	<50	<0.1	<0.5	<0.2	<0.5	--	<3000
10/30/89	29.82	9.30	20.52	<500	<0.3	<0.3	<0.3	<0.6	--	--
01/09/90	29.82	9.05	20.77	<50	<0.3	<0.3	<0.3	<0.6	--	--
04/18/90	29.82	8.87	20.95	<50	<0.3	<0.3	<0.3	<0.6	--	--
06/22/90	29.82	8.82	21.00	--	--	--	--	--	--	--
08/09/90	29.82	8.88	20.94	<50	<0.3	<0.3	<0.3	<0.6	--	--
11/13/90	29.82	8.84	20.98	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/15/91	29.82	9.18	20.64	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/27/91	29.82	9.03	20.79	110	<0.5	<0.5	<0.5	<0.5	--	--
11/15/91	29.82	9.07	20.75	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/20/92	29.82	8.92	20.90	<50	0.5	0.6	<0.5	0.9	--	--
06/15/92	29.82	9.18	20.64	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/16/92	29.82	8.98	20.84	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/07/93	29.82	9.91	19.91	<50	<0.5	<0.5	<0.5	<1.5	--	--
06/09/93	29.82	9.97	19.85	--	--	--	--	--	--	--
09/10/93	29.82	--	--	--	--	--	--	--	--	--
09/27/93	29.82	9.47	20.35	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/17/93	29.82	9.14	20.68	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/10/94	29.82	9.25	20.57	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/16/94	29.82	9.27	20.55	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/07/94	29.82	9.13	20.69	<50	<0.5	<0.5	<0.5	<0.5	--	--

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WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-1 (cont)										
11/30/94	29.82	9.59	20.23	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/22/95	29.82	10.37	19.45	<50	<0.5	<0.5	<0.5	<0.5	--	--
ABANDONED										
MW-2										
11/03/88	30.59	9.70	20.89	<1000	<1.0	<1.0	<1.0	<1.0	--	--
02/02/89	30.59	9.38	21.21	--	--	--	--	--	--	--
02/10/89	30.59	--	--	<100	<0.2	<0.2	<0.2	<0.4	--	--
04/23/89	30.59	9.77	20.82	--	--	--	--	--	--	--
04/24/89	30.59	--	--	<50	<0.5	<1.0	<1.0	<1.0	--	<3000
07/28/89	30.59	9.57	21.02	<100	<0.2	<1.0	<0.2	<0.5	--	<3000
10/30/89	30.59	9.63	20.96	<500	<0.3	<0.3	<0.3	<0.6	--	--
01/09/90	30.59	9.34	21.25	<50	<0.3	<0.3	<0.3	<0.6	--	--
04/18/90	30.59	9.06	21.53	<50	<0.3	<0.3	<0.3	<0.6	--	--
06/22/90	30.59	9.02	21.57	--	--	--	--	--	--	--
08/09/90	30.59	9.04	21.55	<50	<0.3	<0.3	<0.3	<0.6	--	--
11/13/90	30.59	9.05	21.54	<50	<0.5	0.8	<0.5	0.9	--	--
05/15/91	30.59	9.44	21.15	83	<0.5	<0.5	<0.5	<0.5	--	--
08/27/91	30.59	9.32	21.27	97	<0.5	<0.5	<0.5	<0.5	--	--
11/15/91	30.59	9.29	21.30	<50	0.5	1.5	0.8	3.6	--	--
02/20/92	30.59	9.13	21.43	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/15/92	30.59	9.41	21.18	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/16/92	30.56	9.09	21.47	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/07/93	30.56	10.03	20.53	66	<0.5	<0.5	<0.5	<1.5	--	--
06/09/93	30.56	10.11	20.45	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/10/93	30.56	--	--	--	--	--	--	--	--	--
09/27/93	30.56	9.59	20.97	--	--	--	--	--	--	--
12/17/93	30.56	9.25	21.31	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/10/94	30.56	9.33	21.23	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/16/94	30.56	9.35	21.21	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/07/94	30.56	9.22	21.34	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/30/94	30.56	9.66	20.90	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/22/95	30.56	10.22	20.34	<50	<0.5	<0.5	<0.5	<0.5	--	--
ABANDONED										

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-0020
1633 Harrison Street
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-3										
11/03/88	30.09	9.55	20.54	<1000	<1.0	<1.0	<1.0	<1.0	--	--
02/02/89	30.09	9.24	20.85	--	--	--	--	--	--	--
02/10/89	30.09	--	--	<100	<0.2	<0.2	<0.2	<0.4	--	--
04/23/89	30.09	9.66	20.43	--	--	--	--	--	--	--
04/24/89	30.09	--	--	<50	<0.5	<1.0	<1.0	<1.0	--	<3000
07/28/89	30.09	9.45	20.64	<100	<0.2	<1.0	<0.2	<0.4	--	<3000
10/30/89	30.09	9.48	20.61	<500	<0.3	<0.3	<0.3	<0.6	--	--
01/09/90	30.09	9.21	20.88	<50	<0.3	<0.3	<0.3	<0.6	--	--
04/18/90	30.09	8.94	21.15	<50	<0.3	<0.3	<0.3	<0.6	--	--
06/22/90	30.09	8.89	21.20	--	--	--	--	--	--	--
08/09/90	30.09	8.91	21.18	<50	<0.3	<0.3	<0.3	<0.6	--	--
11/13/90	30.09	8.94	21.15	51	<0.5	<0.5	<0.5	<0.5	--	--
05/15/91	30.09	9.18	20.91	85	<0.5	<0.5	<0.5	<0.5	--	--
08/27/91	30.09	9.20	20.89	91	<0.5	<0.5	<0.5	<0.5	--	--
11/15/91	30.09	9.07	21.02	<50	<0.5	0.7	<0.5	1.3	--	--
02/20/92	30.09	9.02	21.07	<50	<0.5	<0.5	<0.5	0.9	--	--
06/15/92	30.09	9.27	20.82	50	<0.5	<0.5	<0.5	<0.5	--	--
12/16/92	30.08	9.07	21.07	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/07/93	30.08	9.95	20.13	<50	<0.5	<0.5	<0.5	<1.5	--	--
06/09/93	30.08	10.03	20.05	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/10/93	30.08	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/27/93	30.08	9.50	20.58	--	--	--	--	--	--	--
12/17/93	30.08	9.07	21.01	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/10/94	30.08	9.22	20.86	<50	<0.5	<0.5	<0.5	1.1	--	--
06/16/94	30.08	9.21	20.87	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/07/94	30.08	9.11	20.97	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/30/94	30.08	10.45	19.63	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/22/95	30.08	10.27	19.81	<50	<0.5	<0.5	<0.5	<0.5	--	--
ABANDONED										
MW-4										
04/23/89	31.17	9.84	21.33	--	--	--	--	--	--	--
04/24/89	31.17	--	--	<50	<0.5	<1.0	<1.0	<1.0	--	<3000
07/28/89	31.17	9.59	21.58	<50	<0.1	<0.5	<0.1	<0.2	--	<3000
10/30/89	31.17	9.63	21.54	<500	<0.3	<0.3	<0.3	<0.6	--	--
01/09/90	31.17	9.35	21.82	<50	<0.3	<0.3	<0.3	<0.6	--	--

Table 1
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Former Chevron Service Station #9-0020
1633 Harrison Street
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-4 (cont)										
04/18/90	31.17	9.08	22.09	<50	<0.3	<0.3	<0.3	<0.6	--	--
06/22/90	31.17	9.05	22.12	--	--	--	--	--	--	--
08/09/90	31.17	9.06	22.11	<50	<0.3	<0.3	<0.3	<0.6	--	--
11/13/90	31.17	9.07	22.10	<50	<0.5	1.0	0.5	1.0	--	--
05/15/91	31.17	9.46	21.71	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/27/91	31.17	9.30	21.87	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/15/91	31.17	9.37	21.80	97	<0.5	0.9	<0.5	1.9	--	--
02/20/92	31.17	9.18	21.99	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/15/92	31.17	9.43	21.74	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/16/92	31.17	9.12	22.05	<50	0.7	0.5	0.5	1.3	--	--
04/07/93	31.17	10.06	21.11	<50	<0.5	<0.5	<0.5	<1.5	--	--
06/09/93	31.17	--	--	--	--	--	--	--	--	--
09/10/93	31.17	--	--	--	--	--	--	--	--	--
09/27/93	31.17	9.63	21.54	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/17/93	31.17	9.28	21.89	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/10/94	31.17	--	--	--	--	--	--	--	--	--
06/16/94	31.17	10.63	20.54	--	--	--	--	--	--	--
09/07/94	31.17	9.27	21.90	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/30/94	31.17	9.83	21.34	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/21/95	31.17	10.55	20.62	<50	<0.5	<0.5	<0.5	<0.5	--	--
ABANDONED										
MW-5										
04/23/89	30.28	9.66	20.62	--	--	--	--	--	--	--
04/24/89	30.28	--	--	<50	<0.5	<1.0	<1.0	<1.0	--	<3000
07/28/89	30.28	9.42	20.86	<100	<0.2	<1.0	<0.2	<0.4	--	<3000
10/30/89	30.28	9.46	20.82	<500	<0.3	<0.3	<0.3	<0.6	--	--
01/09/90	30.28	9.21	21.07	<50	<0.3	<0.3	<0.3	<0.6	--	--
04/18/90	30.28	8.93	21.35	<50	<0.3	<0.3	<0.3	<0.6	--	--
06/22/90	30.28	8.90	21.38	--	--	--	--	--	--	--
08/09/90	30.28	8.92	21.36	<50	<0.3	<0.3	<0.3	<0.6	--	--
11/13/90	30.28	8.93	21.35	<50	<0.5	1.0	<0.5	1.0	--	--
05/15/91	30.28	8.99	21.29	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/27/91	30.28	9.17	21.11	94	3.0	5.0	1.5	5.5	--	--
11/15/91	30.28	9.10	21.18	<50	0.9	1.7	<0.5	2.2	--	--
02/20/92	30.28	9.03	21.25	<50	<0.5	<0.5	<0.5	<0.5	--	--

Table 1
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Former Chevron Service Station #9-0020
1633 Harrison Street
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-5 (cont)										
06/15/92	30.28	9.28	21.00	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/16/92	30.28	9.05	21.23	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/07/93	30.28	9.97	20.31	<50	<0.5	<0.5	<0.5	<1.5	--	--
06/09/93	30.28	--	--	--	--	--	--	--	--	--
09/10/93	30.28	--	--	--	--	--	--	--	--	--
09/27/93	30.28	9.52	20.76	--	--	--	--	--	--	--
ABANDONED										
MW-6										
04/23/89	29.46	9.41	20.05	--	--	--	--	--	--	--
04/24/89	29.46	--	--	<50	<0.5	<1.0	<1.0	<1.0	--	<3.0
07/28/89	29.46	9.16	20.30	<100	<0.2	<1.0	<0.2	<0.4	--	<3.0
10/30/89	29.46	9.14	20.32	<500	<0.3	<0.3	<0.3	<0.6	--	--
01/09/90	29.46	8.95	20.51	<50	<0.3	<0.3	<0.3	<0.6	--	--
04/18/90	29.46	8.74	20.72	<50	<0.3	<0.3	<0.3	<0.6	--	--
06/22/90	29.46	8.69	20.77	--	--	--	--	--	--	--
08/09/90	29.46	8.72	20.74	<50	<0.3	<0.3	<0.3	<0.6	--	--
11/13/90	29.46	8.71	20.75	<50	3.0	5.0	0.5	2.0	--	--
05/15/91	29.46	8.85	20.61	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/27/91	29.46	8.93	20.53	180	6.1	12	3.8	14	--	--
11/15/91	29.46	8.93	20.53	<50	<0.5	0.6	<0.5	<0.5	--	--
02/20/92	29.46	8.77	20.69	<50	0.9	1.1	<0.5	1.4	--	--
06/15/92	29.46	9.08	20.38	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/16/92	29.45	8.88	20.57	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/07/93	29.45	9.86	19.59	<50	<0.5	<0.5	<0.5	<1.5	--	--
06/09/93	29.45	9.95	19.50	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/10/93	29.45	--	--	--	--	--	--	--	--	--
09/27/93	29.45	9.38	20.07	--	--	--	--	--	--	--
ABANDONED										
MW-8										
04/23/89	29.57	9.43	20.14	--	--	--	--	--	--	--
04/24/89	29.57	--	--	<50	<0.5	<1.0	<1.0	<1.0	--	3000
04/24/89 [†]	29.57	--	--	<50	<0.5	<1.0	<1.0	<1.0	--	--
07/28/89	29.57	9.20	20.37	<100	<0.2	<1.0	<0.2	<0.4	--	<3000
10/30/89	29.57	9.25	20.32	<500	<0.3	<0.3	<0.3	<0.6	--	--
01/09/90	29.57	8.97	20.60	<50	<0.3	<0.3	<0.3	<0.6	--	--

Table 1
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1633 Harrison Street
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
MW-8 (cont)										
04/18/90	29.57	8.70	20.87	<50	<0.3	<0.3	<0.3	<0.6	--	--
06/22/90	29.57	9.23	20.34	--	--	--	--	--	--	--
08/09/90	29.57	8.68	20.89	<50	<0.3	<0.3	<0.3	<0.6	--	--
11/13/90	29.57	8.71	20.86	<50	<0.5	0.8	<0.5	2.0	--	--
05/15/91	29.57	9.08	20.49	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/27/91	29.57	8.97	20.60	73	<0.5	<0.5	<0.5	<0.5	--	--
11/15/91	29.57	8.95	20.62	<50	<0.5	0.7	<0.5	2.1	--	--
02/20/92	29.57	8.77	20.80	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/15/92	29.57	9.09	20.48	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/16/92	29.57	8.89	20.68	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/07/93	29.57	9.87	19.70	<50	<0.5	<0.5	<0.5	<1.5	--	--
06/09/93	29.57	9.97	19.60	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/10/93	29.57	--	--	--	--	--	--	--	--	--
09/27/93	29.57	9.35	20.22	--	--	--	--	--	--	--
ABANDONED										
MW-10										
06/22/90	28.60	8.12	20.48	<50	<0.5	<0.5	<0.5	<0.5	--	<1000
08/09/90	28.60	8.15	20.45	<50	<0.3	<0.3	<0.3	<0.6	--	--
11/13/90	28.60	8.13	20.47	<50	<0.5	2.0	0.5	2.0	--	--
05/15/91	28.60	8.45	20.15	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/27/91	28.60	8.33	20.27	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/15/91	28.60	8.27	20.33	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/20/92	28.60	7.15	21.45	<50	2.0	2.2	<0.5	2.1	--	--
06/15/92	28.60	7.30	21.30	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/16/92	28.62	8.45	20.17	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/07/93	28.62	9.41	19.26	<50	<0.5	<0.5	<0.5	<1.5	--	--
06/09/93	28.62	9.55	19.07	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/10/93	28.62	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/24/93	28.62	8.90	19.72	--	--	--	--	--	--	--
12/17/93	28.62	8.55	20.07	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/10/94	28.62	8.65	19.97	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/16/94	28.62	8.64	19.98	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/07/94	28.62	8.50	20.12	<50	<0.5	<0.5	<0.5	<0.5	--	--

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Oakland, California

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MW-10 (cont)										
11/30/94	28.62	8.92	19.70	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/22/95	28.62	9.70	18.92	<50	<0.5	<0.5	<0.5	<0.5	--	--
ABANDONED										
MW-11										
06/22/90	29.37	8.34	21.03	<50	<0.5	<0.5	<0.5	<0.5	--	<1000
08/09/90	29.37	8.35	21.02	<50	<0.3	<0.3	<0.3	<0.6	--	--
11/13/90	29.37	8.44	20.93	76	0.6	1.0	0.9	4.0	--	--
05/15/91	29.37	8.76	20.61	78	<0.5	<0.5	<0.5	<0.5	--	--
08/27/91	29.37	8.67	20.70	110	<0.5	<0.5	<0.5	<0.5	--	--
11/15/91	29.37	8.69	20.68	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/20/92	29.37	7.46	21.91	<50	1.9	2.1	1.0	4.4	--	--
06/15/92	29.37	8.81	20.56	--	--	--	--	--	--	--
12/16/92	29.39	8.64	20.75	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/07/93	29.39	9.56	19.83	<50	<0.5	<0.5	<0.5	<1.5	--	--
06/09/93	29.39	9.72	19.67	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/10/93	29.39	--	--	--	--	--	--	--	--	--
09/27/93	29.39	9.06	20.33	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/17/93	29.39	8.66	20.73	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/10/94	29.39	8.70	20.69	--	--	--	--	--	--	--
06/16/94	29.39	8.83	20.56	<50	<0.5	<0.5	<0.5	<0.5	--	--
ABANDONED										
MW-12										
06/22/90	28.43	7.98	20.45	<50	<0.5	<0.5	<0.5	<0.5	--	<1000
08/09/90	28.43	8.00	20.43	<50	<0.3	<0.3	<0.3	<0.6	--	--
11/13/90	28.43	7.98	20.45	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/15/91	28.43	8.36	20.07	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/27/91	28.43	8.28	20.15	56	<0.5	<0.5	<0.5	<0.5	--	--
11/15/91	28.43	8.18	20.25	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/20/92	28.43	7.06	21.37	<50	2.5	3.1	0.7	3.0	--	--
06/15/92	28.43	8.53	19.90	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/16/92	28.43	8.63	19.80	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/07/93	28.43	9.68	18.75	<50	<0.5	<0.5	<0.5	<1.5	--	--
06/09/93	28.43	--	--	--	--	--	--	--	--	--

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Oakland, California

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MW-12 (cont)										
09/10/93	28.43	--	--	--	--	--	--	--	--	--
09/27/93	28.43	8.80	19.63	--	--	--	--	--	--	--
ABANDONED										
MW-14										
11/15/91	29.46	9.13	20.33	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/20/92	29.46	8.05	21.41	<50	1.3	1.8	1.1	5.2	--	--
06/15/92	29.46	--	--	--	--	--	--	--	--	--
12/16/92	29.45	8.79	20.66	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/07/93	29.45	--	--	--	--	--	--	--	--	--
06/09/93	29.45	--	--	--	--	--	--	--	--	--
09/10/93	29.45	--	--	--	--	--	--	--	--	--
09/27/93	29.45	9.19	20.26	--	--	--	--	--	--	--
ABANDONED										
TRIP BLANK										
11/03/88	--	--	--	--	<1.0	<1.0	<1.0	<1.0	--	--
02/10/89	--	--	--	<50	<0.1	<0.1	<0.1	<0.2	--	--
04/24/89	--	--	--	<50	<0.5	<0.5	<1.0	<1.0	--	--
07/28/89	--	--	--	<50	<0.1	<0.1	<0.1	<0.2	--	--
10/30/89	--	--	--	<500	<0.3	<0.3	<0.3	<0.6	--	--
01/09/90	--	--	--	<50	<0.3	<0.3	<0.3	<0.6	--	--
04/18/90	--	--	--	<50	<0.3	<0.3	<0.3	<0.6	--	--
06/22/90	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/09/90	--	--	--	<50	<0.3	<0.3	<0.3	<0.6	--	--
11/13/90	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/15/91	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/27/91	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/15/91	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/20/92	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/15/92	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/16/92	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
04/07/93	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
06/09/93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/10/93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/27/93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-0020
1633 Harrison Street
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
TRIP BLANK (cont)										
12/17/93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/10/94	--	--	--	<50	<0.5	0.6	<0.5	0.6	--	--
06/16/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/07/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/30/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
01/17/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
03/22/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
06/27/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
09/28/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/30/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/28/96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
06/27/96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
09/13/96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/16/96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
03/20/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
09/08/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
02/16/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
08/25/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
03/09/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
09/29/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
03/27/00	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
09/18/00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
03/27/01	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	--
09/05/01	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
QA										
03/15/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
09/14/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
03/26/03	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
09/02/03 ^o	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
03/29/04 ^o	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/03/04 ^o	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
03/02/05 ^o	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/22/05 ^o	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
03/30/06 ^o	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--

Table 1
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Former Chevron Service Station #9-0020
1633 Harrison Street
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
QA (cont)										
08/28/06 ⁶	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
03/05/07 ⁶	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/24/07 ⁶	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
03/10/08 ⁶	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/12/08 ⁹	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/24/09⁹	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--

EXPLANATIONS:

Groundwater monitoring data and analytical results prior to September 18, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Cas B = Benzene (µg/L) = Micrograms per liters

(ft.) = Feet T = Toluene -- = Not Measured/Not Analyzed

GWE = Groundwater E = Ethylbenzene (D) = Duplicate

(msl) = Mean sea level X = Xylenes QA = Quality Assurance/Trip Blank

DTW = Depth to Water MTBE = Methyl tertiary butyl ether

TPH-G = Total Petroleum TOG = Total Oil and Grease

- 1 Confirmation run.
- 2 ORC installed.
- 3 ORC in well.
- 4 Laboratory report indicates gasoline C6-C12.
- 5 Laboratory report indicates gasoline C6-C12 + unidentified hydrocarbons C6-C12.
- 6 BTEX and MTBE by EPA Method 8260.
- 7 Removed ORC in well.
- 8 Laboratory report indicates this sample was analyzed 1 day outside the method hold time.
- 9 The vial submitted for volatile analysis did not have a pH<2 at the time of analysis. The pH of this sample was pH=5.

Table 2
Groundwater Analytical Results
Former Chevron Service Station #9-0020
1633 Harrison Street
Oakland, California

WELL ID/ DATE	1,1-DCE (µg/L)	MC (µg/L)	t-1, 2-DCE (µg/L)	c-1, 2-DCE (µg/L)	Chloroform (µg/L)	1, 1, 1-TCA (µg/L)	Carbon Tet (µg/L)	1,2-DCA (µg/L)	TCE (µg/L)	1,2-DCP (µg/L)	1, 2,-DCE (µg/L)	PCE (µg/L)
MW-7												
04/24/89 ²	--	--	--	--	9.0	<1.0	3.0	<1.0	<1.0	--	<1.0	<1.0
07/28/89	--	--	<2.0	<2.0	<10	<10	<2.0	6.0	<2.0	--	--	<2.0
07/28/89	--	--	<5.0	<0.5	<20	<5.0	<5.0	<5.0	<5.0	--	--	<5.0
10/30/89	--	--	--	--	3.9	<1.0	<1.0	6.4	<1.0	--	<1.0	<1.0
10/30/89	--	--	--	--	3.1	<1.0	<1.0	6.2	<1.0	--	<1.0	<1.0
01/09/90	--	--	--	--	3.0	<0.5	<0.5	8.4	<0.5	--	<0.5	<0.5
04/18/90	0.6	--	--	--	3.2	<0.5	<0.5	7.7	<0.5	0.6	<0.5	<0.5
08/09/90	<0.5	--	--	--	7.7	<0.5	3.3	8.4	<0.5	<0.5	<0.5	<0.5
11/13/90	<0.5	--	<0.5	<0.5	3.0	<0.5	0.6	4.0	<0.5	<0.5	--	<0.5
05/15/91	<0.5	--	<0.5	<0.5	2.0	<0.5	2.0	3.0	<0.5	<0.5	--	<0.5
08/27/91	<0.5	--	--	<0.5	2.8	<0.5	0.7	2.7	<0.5	<0.5	--	<0.5
11/15/91	<0.5	--	<0.5	<0.5	2.7	<0.5	0.8	3.1	<0.5	<0.5	--	<0.5
02/20/92	<0.5	--	<0.5	<0.5	1.9	<0.5	2.2	3.3	<0.5	<0.5	--	<0.5
06/15/92	<0.5	--	<0.5	<0.5	1.8	<0.5	1.1	4.5	<0.5	<0.5	--	<0.5
09/02/03	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
03/29/04	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	11	<1	<1	--	<0.8
09/03/04	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
03/02/05	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
09/22/05	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
03/30/06	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
08/28/06	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
03/05/07	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
09/24/07	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
DESTROYED												
MW-9												
06/22/90	<0.5	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5
08/09/90	<0.5	--	--	--	<0.5	<0.5	<0.5	0.71	<0.5	<0.5	<0.5	<0.5
11/13/90	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	1.0	<0.5	<0.5	--	<0.5
05/15/91	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	--	<0.5
08/27/91	<0.5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5
11/15/91	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	--	<0.5
02/20/92	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5

Table 2
Groundwater Analytical Results
Former Chevron Service Station #9-0020
1633 Harrison Street
Oakland, California

WELL ID/ DATE	1,1-DCE (µg/L)	MC (µg/L)	t-1, 2-DCE (µg/L)	c-1, 2-DCE (µg/L)	Chloroform (µg/L)	1, 1, 1-TCA (µg/L)	Carbon Tet (µg/L)	1,2-DCA (µg/L)	TCE (µg/L)	1,2-DCP (µg/L)	1, 2,-DCE (µg/L)	PCE (µg/L)
MW-9 (cont)												
06/15/92	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5
09/02/03	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
03/29/04	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.8	<1	<1	--	<0.8
09/03/04	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
03/02/05	<0.5	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
09/22/05	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
03/30/06	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
08/28/06	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
03/05/07	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
09/24/07	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
03/10/08	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
09/12/08	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
09/24/09	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
MW-13												
11/15/91 ³	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5
02/20/92	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5
06/15/92	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	<0.5
09/02/03	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
03/29/04	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
09/03/04	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
03/02/05	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
09/22/05	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
03/30/06	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
08/28/06	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
03/05/07	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
09/24/07	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
03/10/08	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
09/12/08	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
09/24/09	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8

Table 2
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Former Chevron Service Station #9-0020
1633 Harrison Street
Oakland, California

WELL ID/ DATE	1,1-DCE (µg/L)	MC (µg/L)	t-1, 2-DCE (µg/L)	c-1, 2-DCE (µg/L)	Chloroform (µg/L)	1, 1, 1-TCA (µg/L)	Carbon Tet (µg/L)	1,2-DCA (µg/L)	TCE (µg/L)	1,2-DCP (µg/L)	1, 2,-DCE (µg/L)	PCE (µg/L)
MW-15												
09/02/03	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
03/29/04	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
09/03/04	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
03/02/05	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
09/22/05	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
03/30/06	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
08/28/06	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
03/05/07	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
09/24/07	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
03/10/08	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
09/12/08	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
09/24/09	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
MW-16												
09/03/04	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
03/02/05	<2	<5	<2	<2	<2	<2	<3	<1	<3	<3	--	<2
09/22/05	<4	<10	<4	<4	<4	<4	<5	<3	<5	<5	--	<4
03/30/06	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
08/28/06	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
03/05/07	<2	<4	<2	<2	<2	<2	<2	<1	<2	<2	--	<2
09/24/07	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	9	--	<0.8
03/10/08	<0.8	<2	<0.8	<0.8	<0.8	<0.8	<1	<0.5	<1	<1	--	<0.8
09/12/08	<4	<10	<4	<4	<4	<4	<5	<3	<5	<5	--	<4
09/24/09	--	--	--	--	--	--	--	--	--	--	--	--
MW-1												
11/03/88	--	--	<1.0	--	7.0	<1.0	18	<1.0	<1.0	--	--	<1.0
02/10/89	--	--	<0.2	<0.2	6.0	<0.2	17	<0.2	<0.2	--	--	<0.2
04/24/89	--	--	--	--	6.0	<1.0	16	<1.0	<1.0	--	<1.0	<1.0
07/28/89	--	--	<0.1	<0.1	6.4	0.3	20	<0.1	<0.1	--	--	<0.1
10/30/89	--	--	--	--	4.9	<0.5	11	<0.5	<0.5	--	<0.5	<0.5
01/09/90	--	--	--	--	7.2	<0.5	24	<0.5	<0.5	--	<0.5	<0.5
04/18/90	<0.5	--	--	--	5.5	1.4	23	<0.5	<0.5	<0.5	<0.5	<0.5
08/09/90	<0.5	--	--	--	11	<0.5	32	<0.5	<0.5	<0.5	<0.5	0.7

Table 2
Groundwater Analytical Results
Former Chevron Service Station #9-0020
1633 Harrison Street
Oakland, California

WELL ID/ DATE	1,1-DCE (µg/L)	MC (µg/L)	t-1, 2-DCE (µg/L)	c-1, 2-DCE (µg/L)	Chloroform (µg/L)	1, 1, 1-TCA (µg/L)	Carbon Tet (µg/L)	1,2-DCA (µg/L)	TCE (µg/L)	1,2-DCP (µg/L)	1, 2,-DCE (µg/L)	PCE (µg/L)
MW-1 (cont)												
11/13/90	<0.5	--	<0.5	<0.5	7.0	<0.5	24	<0.5	<0.5	<0.5	--	60.7
05/15/91	<0.5	--	<0.5	<0.5	5.0	<0.5	15	<0.5	<0.5	<0.5	--	<0.5
08/27/91	<0.5	--	--	<0.5	4.2	<0.5	18	<0.5	<0.5	<0.5	--	<0.5
11/15/91	<0.5	--	<0.5	<0.5	7.9	<0.5	21	<0.5	<0.5	<0.5	--	<0.5
02/20/92	<0.5	--	<0.5	<0.5	7.5	<0.5	24	<0.5	<0.5	<0.5	--	<0.5
06/15/92	<0.5	--	<0.5	<0.5	3.2	<0.5	10	<0.5	<0.5	<0.5	--	<0.5
ABANDONED												
MW-2												
11/03/88	--	--	10	--	2.0	<1.0	3.0	<1.0	3.0	--	--	34
02/10/89	--	--	<0.2	6.3	1.0	<0.2	1.4	<0.2	<0.2	--	--	17.2
04/24/89	--	--	--	--	2.0	<1.0	2.0	<1.0	3.0	--	9.0	38
07/28/89	--	--	<0.2	<0.2	2.0	<0.2	3.7	<0.2	2.6	--	--	46
10/30/89	--	--	--	--	2.6	<0.5	1.4	<0.5	1.1	--	14	53
01/09/90	--	--	--	--	3.9	<0.5	3.6	<0.5	5.3	--	16	78
04/18/90	<0.5	--	--	--	2.7	<0.5	1.5	<0.5	3.9	<0.5	19	130
08/09/90	<0.5	--	--	--	2.1	<0.5	2.1	<0.5	6.1	<0.5	15	74
11/13/90	<0.5	--	<0.5	10	2.0	<0.5	<0.5	<0.5	4.0	<0.5	--	40
05/15/91	<0.5	--	<0.5	15	2.0	<0.5	2.0	<0.5	6.0	<0.5	--	56
08/27/91	<0.5	--	--	8.0	0.9	<0.5	1.1	<0.5	3.9	<0.5	--	46
11/15/91	<0.5	--	<0.5	6.3	1.1	<0.5	0.6	<0.5	3.1	<0.5	--	58
02/20/92	<2.5	--	<2.5	4.3	<2.5	<2.5	11	<2.5	3.1	<2.5	--	62
06/15/92	<0.5	--	<0.5	4.8	1.2	<0.5	<0.5	<0.5	3.1	<0.5	--	45
ABANDONED												
MW-3												
11/03/88	--	--	5.0	--	6.0	<1.0	8.0	<1.0	3.0	--	--	84
02/10/89	--	--	<0.2	9.0	4.0	<0.2	5.8	<0.2	1.9	--	--	53
04/24/89	--	--	--	--	6.0	<1.0	7.0	<1.0	3.0	--	11	110
07/28/89	--	--	<0.2	11	5.0	<0.2	8.6	<0.1	2.1	--	--	49
10/30/89	--	--	--	--	5.3	<0.5	5.6	<0.5	0.7	--	8.2	62
01/09/90	--	--	--	--	6.1	<0.5	8.6	<0.5	73.8	--	8.7	81
04/18/90	<0.5	--	--	--	5.8	<0.5	7.6	<0.5	2.4	<0.5	11	120
08/09/90	<0.5	--	--	--	6.7	<0.5	11	<0.5	5.1	<0.5	11	81
11/13/90	<0.5	--	<0.5	9.0	5.0	<0.5	7.0	<0.5	4.0	<0.5	--	43
05/15/91	<0.5	--	<0.5	8.0	4.0	<0.5	6.0	<0.5	3.0	<0.5	--	46

Table 2
Groundwater Analytical Results
Former Chevron Service Station #9-0020
1633 Harrison Street
Oakland, California

WELL ID/ DATE	1,1-DCE (µg/L)	MC (µg/L)	t-1, 2-DCE (µg/L)	c-1, 2-DCE (µg/L)	Chloroform (µg/L)	1, 1, 1-TCA (µg/L)	Carbon Tet (µg/L)	1,2-DCA (µg/L)	TCE (µg/L)	1,2-DCP (µg/L)	1, 2,-DCE (µg/L)	PCE (µg/L)
MW-3 (cont)												
08/27/01 ¹	<0.5	--	--	8.1	3.8	<0.5	5.5	<0.5	2.6	<0.5	--	43
11/15/91	<0.5	--	0.8	7.4	5.0	0.9	6.3	<0.5	3.4	<0.5	--	67
02/20/92	<2.5	--	<2.5	6.1	4.0	<2.5	2.8	<2.5	3.0	<2.5	--	96
06/15/92	<0.5	--	<0.5	7.5	3.9	<0.5	5.0	<0.5	2.9	<0.5	--	86
ABANDONED												
MW-4												
04/24/89	--	--	--	--	11	<1.0	35	<1.0	<1.0	--	<1.0	<1.0
07/28/89	--	--	<0.1	<0.1	9.3	<0.1	32	<0.1	<0.1	--	--	<0.1
10/30/89	--	--	--	--	8.5	<0.5	32	<0.5	<0.5	--	<0.5	<0.5
01/09/90	--	--	--	--	9.8	<0.5	36	<0.5	<0.5	--	<0.5	<0.5
04/18/90	<0.5	--	--	--	9.5	<0.5	41	<0.5	<0.5	<0.5	<0.5	<0.5
08/09/90	<0.5	--	--	--	11	<0.5	38	<0.5	<0.5	<0.5	<0.5	<0.5
11/13/90	<0.5	--	<0.5	<0.5	11	<0.5	40	<0.5	<0.5	<0.5	--	<0.5
05/15/91	<0.5	--	<0.5	<0.5	10	<0.5	35	<0.5	<0.5	<0.5	--	<0.5
08/27/91	<0.5	--	--	<0.5	6.1	<0.5	28	<0.5	<0.5	<0.5	--	<0.5
11/15/91	<0.5	--	<0.5	<0.5	9.1	<0.5	23	<0.5	<0.5	<0.5	--	<0.5
02/20/92	<0.5	--	<0.5	<0.5	140	<0.5	400	<0.5	<0.5	<0.5	--	<0.5
06/15/92	<0.5	--	<0.5	<0.5	11	<0.5	38	<0.5	<0.5	<0.5	--	<0.5
ABANDONED												
MW-5												
04/24/89	--	--	--	--	5.0	<1.0	4.0	<1.0	<1.0	--	2.0	4.0
07/28/89	--	--	<0.2	2.3	4.0	0.5	5.6	<0.2	0.3	--	--	5.3
10/30/89	--	--	--	--	2.0	<0.5	2.9	<0.5	<0.5	--	0.86	2.7
01/09/90	--	--	--	--	4.6	<0.5	8.2	<0.5	0.6	--	3.1	7.8
04/18/90	<0.5	--	--	--	2.8	<0.5	6.3	<0.5	<0.5	<0.5	1.7	2.6
08/09/90	<0.5	--	--	--	4.8	<0.5	11	<0.5	<0.5	<0.5	2.3	6.0
11/13/90	<0.5	--	<0.5	1	3.0	<0.5	7.0	<0.5	<0.5	<0.5	--	5.0
05/15/91	<0.5	--	<0.5	0.8	2.0	<0.5	4.0	<0.5	<0.5	<0.5	--	3.0
08/27/91	<0.5	--	--	<0.5	1.1	<0.5	3.3	<0.5	<0.5	<0.5	--	2.3
11/15/91	<0.5	--	<0.5	1.7	2.8	<0.5	5.7	<0.5	<0.5	<0.5	--	5.5
02/20/92	<0.5	--	<0.5	0.7	2.0	<0.5	4.0	<0.5	<0.5	<0.5	--	3.9
06/15/92	<0.5	--	<0.5	1.4	2.0	<0.5	4.0	<0.5	<0.5	<0.5	--	5.0
ABANDONED												

Table 2
Groundwater Analytical Results
Former Chevron Service Station #9-0020
1633 Harrison Street
Oakland, California

WELL ID/ DATE	1,1-DCE (µg/L)	MC (µg/L)	t-1, 2-DCE (µg/L)	c-1, 2-DCE (µg/L)	Chloroform (µg/L)	1, 1, 1-TCA (µg/L)	Carbon Tet (µg/L)	1,2-DCA (µg/L)	TCE (µg/L)	1,2-DCP (µg/L)	1, 2,-DCE (µg/L)	PCE (µg/L)
MW-6												
04/24/89	--	--	--	--	7.0	<1.0	13	<1.0	<1.0	--	<1.0	<1.0
07/28/89	--	--	<0.2	<0.2	4.0	0.5	9.6	0.6	<0.2	--	--	<0.2
10/30/89	--	--	--	--	3.6	<0.5	8.2	<0.5	<0.5	--	<0.5	<0.5
01/09/90	--	--	--	--	4.2	<0.5	10	1.8	<0.5	--	<0.5	<0.5
04/18/90	<0.5	--	--	--	3.8	<0.5	11	<0.5	<0.5	<0.5	<0.5	<0.5
08/09/90	<0.5	--	--	--	6.6	<0.5	20	<0.5	<0.5	<0.5	<0.5	<0.5
11/13/90	<0.5	--	<0.5	<0.5	5.0	<0.5	15	<0.5	<0.5	<0.5	--	<0.5
05/15/91	<0.5	--	<0.5	<0.5	4.0	<0.5	11	<0.5	<0.5	<0.5	--	<0.5
08/27/91	<0.5	--	--	<0.5	2.2	<0.5	8.0	<0.5	<0.5	<0.5	--	2.4
11/15/91	<0.5	--	<0.5	<0.5	5.4	<0.5	13	0.8	<0.5	<0.5	--	<0.5
02/20/92	<0.5	--	<0.5	<0.5	4.0	<0.5	11	<0.5	<0.5	<0.5	--	<0.5
06/15/92	<0.5	--	<0.5	<0.5	4.2	<0.5	9.6	<0.5	<0.5	<0.5	--	<0.5
ABANDONED												
MW-8												
04/24/89	--	--	--	--	3.0	<1.0	2.0	<1.0	<1.0	--	4.0	6.0
04/24/89	--	--	--	--	2.0	<1.0	2.0	<1.0	<1.0	--	3.0	6.0
07/28/89	--	--	<0.2	3.8	2.0	<0.2	2.3	<0.2	<0.2	--	--	5.6
10/30/89	--	--	--	--	2.6	<0.5	2.5	<0.5	<0.5	--	5.5	8.0
01/09/90	--	--	--	--	3.9	<0.5	4.9	<0.5	0.9	--	6.6	19
04/18/90	<0.5	--	--	--	2.8	<0.5	3.8	<0.5	0.6	<0.5	5.7	17
08/09/90	<0.5	--	--	--	4.4	<0.5	5.3	<0.5	1.2	<0.5	9.2	27
11/13/90	<0.5	--	<0.5	6.0	2.0	<0.5	3.0	<0.5	0.7	<0.5	--	21
05/15/91	<0.5	--	<0.5	6.0	2.0	<0.5	2.0	<0.5	0.9	<0.5	--	30
08/27/91	<0.5	--	--	4.7	1.1	<0.5	1.4	<0.5	1.0	<0.5	--	32
11/15/91	2.0	--	<0.5	5.8	1.9	<0.5	1.5	<0.5	<0.5	2.0	--	50
02/20/92	<0.5	--	<0.5	7.6	2.3	<0.5	1.3	<0.5	2.4	<0.5	--	68
06/15/92	<0.5	--	<0.5	5.6	1.9	<0.5	0.7	--	1.6	<0.5	--	46
ABANDONED												
MW-10												
06/22/90	<0.5	--	<0.5	--	8.9	<0.5	9.6	<0.5	<0.5	<0.5	--	<0.5
08/09/90	<0.5	--	--	--	7.8	<0.5	11	<0.5	<0.5	<0.5	<0.5	<0.5
11/13/90	<0.5	--	<0.5	<0.5	4.0	<0.5	5.0	<0.5	<0.5	<0.5	--	<0.5
05/15/91	<0.5	--	<0.5	<0.5	4.0	<0.5	5.0	<0.5	<0.5	<0.5	--	<0.5
08/27/91	<0.5	--	--	<0.5	3.4	<0.5	6.9	<0.5	<0.5	<0.5	--	<0.5

Table 2
Groundwater Analytical Results
Former Chevron Service Station #9-0020
1633 Harrison Street
Oakland, California

WELL ID/ DATE	1,1-DCE (µg/L)	MC (µg/L)	t-1, 2-DCE (µg/L)	c-1, 2-DCE (µg/L)	Chloroform (µg/L)	1, 1, 1-TCA (µg/L)	Carbon Tet (µg/L)	1,2-DCA (µg/L)	TCE (µg/L)	1,2-DCP (µg/L)	1, 2,-DCE (µg/L)	PCE (µg/L)
MW-10 (cont)												
11/15/91	<0.5	--	<0.5	<0.5	3.3	<0.5	2.7	<0.5	<0.5	<0.5	--	<0.5
02/20/92	<0.5	--	<0.5	<0.5	3.4	<0.5	3.3	<0.5	<0.5	<0.5	--	3.0
06/15/92	<0.5	--	<0.5	<0.5	2.9	<0.5	4.5	<0.5	<0.5	<0.5	--	<0.5
ABANDONED												
MW-11												
06/22/90	<0.5	--	<0.5	8.9	6.5	<0.5	4.6	<0.5	1.3	<0.5	--	73
08/09/90	<0.5	--	--	--	6.8	<0.5	8.1	<0.5	2.0	<0.5	4.6	84
11/13/90	<0.5	--	<0.5	2.0	<0.5	5	<0.5	<0.5	<0.5	<0.5	--	39
05/15/91	<0.5	--	<0.5	2.0	3.0	<0.5	1.0	<0.5	0.5	<0.5	--	7
08/27/91	<0.5	--	--	2.4	3.3	<0.5	4.1	<0.5	1.0	<0.5	--	73
11/15/91	<0.5	--	<0.5	2.3	3.6	<0.5	3.3	<0.5	0.9	<0.5	--	64
02/20/92	<2.5	--	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	--	62
06/15/92	--	--	--	--	--	--	--	--	--	--	--	--
ABANDONED												
MW-12												
06/22/90	<0.5	--	<0.5	13	7.3	<0.5	6.0	<0.5	<0.5	<0.5	--	7.4
08/09/90	<0.5	--	--	--	7.0	<0.5	8.0	<0.5	<0.5	<0.5	5.8	6.7
11/13/90	<0.5	--	<0.5	3.0	<0.5	3.0	<0.5	<0.5	<0.5	<0.5	--	9.0
05/15/91	<0.5	--	<0.5	3.0	4.0	<0.5	4.0	<0.5	<0.5	<0.5	--	10
08/27/91	<0.5	--	--	2.3	2.6	<0.5	3.1	<0.5	<0.5	<0.5	--	10
11/15/91	<0.5	--	<0.5	5.9	3.5	<0.5	1.9	<0.5	<0.5	<0.5	--	8.9
02/20/92	<0.5	--	<0.5	<0.5	3.4	<0.5	3.3	<0.5	<0.5	<0.5	--	3.7
06/15/92	<0.5	--	<0.5	4.5	3.7	<0.5	2.2	<0.5	<0.5	<0.5	--	13
ABANDONED												
MW-14												
11/15/91	<0.5	--	<0.5	<0.5	5.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	33
02/20/92	<0.5	--	<0.5	<0.5	4.3	<0.5	<0.5	<0.5	<0.5	<0.5	--	38
06/15/92	--	--	--	--	--	--	--	--	--	--	--	--
ABANDONED												
TRIP BLANK												
11/03/88	--	--	<1.0	--	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	<1.0
02/10/89	--	--	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	--	--	<0.1
04/24/89	--	--	--	--	<1.0	<1.0	<1.0	<1.0	<1.0	--	<1.0	<1.0

Table 2
Groundwater Analytical Results
Former Chevron Service Station #9-0020
1633 Harrison Street
Oakland, California

WELL ID/ DATE	1,1-DCE (µg/L)	MC (µg/L)	t-1, 2-DCE (µg/L)	c-1, 2-DCE (µg/L)	Chloroform (µg/L)	1, 1, 1-TCA (µg/L)	Carbon Tet (µg/L)	1,2-DCA (µg/L)	TCE (µg/L)	1,2-DCP (µg/L)	1, 2,-DCE (µg/L)	PCE (µg/L)
TRIP BLANK (cont)												
07/28/89	--	--	--	<0.1	<0.5	<0.1	<0.1	<0.1	<0.5	--	<0.1	<0.1
10/30/89	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5
01/09/90	--	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5
04/18/90	<0.5	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
06/22/90	<0.5	--	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5
08/09/90	<0.5	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
11/13/90	<0.5	--	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5
05/15/91	--	--	--	--	--	--	--	--	--	--	--	--
08/27/91	--	--	--	--	--	--	--	--	--	--	--	--
11/15/91	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5
02/20/92	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5
06/15/92	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5

Table 2
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1633 Harrison Street
Oakland, California

WELL ID/ DATE	1,1-DCE (µg/L)	MC (µg/L)	t-1, 2-DCE (µg/L)	c-1, 2-DCE (µg/L)	Chloroform (µg/L)	1, 1, 1-TCA (µg/L)	Carbon Tet (µg/L)	1,2-DCA (µg/L)	TCE (µg/L)	1,2-DCP (µg/L)	1, 2,-DCE (µg/L)	PCE (µg/L)
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EXPLANATIONS:

Groundwater analytical results prior to September 2, 2003, were compiled from reports prepared by Blaine Tech Services, Inc.

1,1-DCE = 1,1-Dichloroethene

MC = Methylene chloride

t-1,2-DCE = trans-1,2-Dichloroethene

c-1,2-DCE = cis-1,2-Dichloroethene

1,1,1-TCA = 1,1,1-Trichloroethane

Carbon Tet = Carbon Tetrachloride

1,2-DCA = 1,2-Dichloroethane

TCE = Trichloroethene

1,2-DCP = 1,2-Dichloropropane

1,2-DCE = 1,2-Dichloroethene

PCE = Tetrachloroethene

(ppb) = Parts per billion

(µg/L) = Micrograms per liters

-- = Not Analyzed

¹ 1,1-DCE was detected at 1.3 ppb, 1,1-DCA was detected at 0.5 and Chlorobenzene was detected at 0.7 ppb.

² 2-butanone was detected at 160 ppb and Acetone was detected at 5.0 ppb.

³ 1,1-DCA was detected at 0.6 ppb.

NOTE: All other HVOCs by EPA Method 8260 were not detected unless noted above.

Table 3
Groundwater Analytical Results - Oxygenate Compounds and VOCs
Former Chevron Service Station #9-0020
1633 Harrison Street
Oakland, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)
MW-7	09/02/03	<50	<5	<0.5	<0.5	<0.5	<0.8	<1
	03/29/04	<50	9	1	<0.5	<0.5	<0.5	2
	09/03/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	03/02/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/22/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	03/30/06	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	08/28/06	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	03/05/07	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/24/07	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
DESTROYED								
MW-9	09/02/03	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	03/29/04	<50	<5	0.8	<0.5	<0.5	<0.5	<0.5
	09/03/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	03/02/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/22/05	<50	12	<0.5	<0.5	<0.5	<0.5	<0.5
	03/30/06	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	08/28/06	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	03/05/07	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/24/07	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	03/10/08	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/12/08	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
09/24/09	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	
MW-13	09/02/03	<50	<5	<0.5	<0.5	<0.5	<0.5	<5
	03/29/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/03/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	03/02/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/22/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	03/30/06	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	08/28/06	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	03/05/07	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5

Table 3
Groundwater Analytical Results - Oxygenate Compounds and VOCs
Former Chevron Service Station #9-0020
1633 Harrison Street
Oakland, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)
MW-13 (cont)	09/24/07	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	03/10/08	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/12/08	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/24/09	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-15	09/02/03	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	03/29/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/03/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	03/02/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/22/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	03/30/06	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	08/28/06	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	03/05/07	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/24/07	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	03/10/08	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/12/08	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/24/09	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-16	09/03/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	03/02/05	<130	<13	<1	<1	<1	<1	<1
	09/22/05	<250	<25	<3	<3	<3	<3	<3
	03/30/06	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	08/28/06	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	03/05/07	<100	<10	<1	<1	<1	<1	<1
	09/24/07	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	03/10/08	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/12/08	<250	<25	<3	<3	<3	<3	<3
	09/24/09	--	--	--	--	--	--	--

Table 3
Groundwater Analytical Results - Oxygenate Compounds and VOCs
 Former Chevron Service Station #9-0020
 1633 Harrison Street
 Oakland, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)
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EXPLANATIONS:

TBA = Tertiary butyl alcohol
 MTBE = Methyl tertiary butyl ether
 DIPE = Di-isopropyl ether
 ETBE = Ethyl tertiary butyl ether
 TAME = Tertiary amyl methyl ether
 EDB = 1,2-Dibromoethane
 VOC = Volatile Organic Compounds
 (µg/L) = Micrograms per liters

ANALYTICAL METHODS:

EPA Method 8260 for Oxygenate Compounds

ATTACHMENT A

BLAINE TECH'S OCTOBER 1, 2009 *SECOND SEMI-ANNUAL MONITORING REPORT*



September 25, 2009

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

Third Quarter 2009 Monitoring at
Chevron Service Station 90020
1633 Harrison St.
Oakland, CA

Monitoring performed on September 24, 2009

Blaine Tech Services, Inc. Groundwater Monitoring Event 090924-JO1

This submission covers the routine monitoring of groundwater wells conducted on September 24, 2009 at this location. 3 monitoring wells were measured for depth to groundwater (DTW). 3 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 90020, 1633 Harrison St., Oakland, CA

SAN JOSE

SACRAMENTO

LOS ANGELES

SAN DIEGO

1680 ROGERS AVENUE

SAN JOSE, CA 95112-1105

(408) 573-0555

FAX (408) 573-7771

LIC. 746684

www.blainetech.com

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



Pete Cornish
Blaine Tech Services, Inc.
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: Charlotte Evans
5900 Hollis St. Suite A
Emeryville, CA 94608

Third Quarter Groundwater Monitoring at Chevron 90020, 1633 Harrison St., Oakland, 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 over two-hundredths of a foot (0.02') of product.

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.

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.

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 documentation to a Blaine Tech Services, Inc. facility before being transported to a Chevron approved disposal facility.

SAMPLE COLLECTION DEVICES

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.

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. The Duplicate sample is collected, typically from the well containing the most measurable contaminants. The Duplicate sample is labeled the same as the original.

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.

Chain of Custody records are created using client specific preprinted forms following USEPA specifications.

Bill of Lading records are contemporaneous records created in the field at the site where the non-hazardous purgewater is generated. Field Technicians use preprinted Bill of Lading forms.

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 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. The steam cleaner is used to decon reels, pumps and bailers.

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.

DISSOLVED OXYGEN READINGS

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 between wells 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.

OXYIDATON REDUCTION POTENTIAL READINGS

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

FERROUS IRON MEASUREMENTS

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

WELL GAUGING DATA

Project # 090922-201 Date 9-24-09 Client chevron

Site 1633 Harrison St. Oakland CA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-9	0855	2					20.47	24.05		
MW-13	0900	2				20.90	26.60	(TT)		
MW-15	0950	2				20.47	26.13			
MW-16			parked over (trucks)							

CHEVRON WELL MONITORING DATA SHEET

Project #: <u>090924- J01</u>	Station #: <u>9-0020</u>
Sampler: <u>J0</u>	Date: <u>9-24-09</u>
Weather: <u>overcast</u>	Ambient Air Temperature: <u>20°</u>
Well I.D.: <u>MW-9</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth: <u>24.05</u>	Depth to Water: <u>20.47</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>21.18</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>0.5</u> (Gals.) X	<u>3</u> Specified Volumes =	<u>1.5</u> Gals. Calculated Volume
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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
<u>0953</u>	<u>68.3</u>	<u>7.31</u>	<u>542</u>	<u>38</u>	<u>0.5</u>	
<u>0955</u>	<u>69.0</u>	<u>7.10</u>	<u>557</u>	<u>49</u>	<u>1.0</u>	
<u>0957</u>	<u>68.7</u>	<u>7.05</u>	<u>565</u>	<u>53</u>	<u>1.5</u>	

Did well dewater? Yes No Gallons actually evacuated: 1.5

Sampling Date: 9-24-09 Sampling Time: 1005 Depth to Water: 20.89

Sample I.D.: MW-9 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 #: <u>090924- J01</u>	Station #: <u>9-0020</u>
Sampler: <u>J0</u>	Date: <u>9-24-09</u>
Weather: <u>overcast</u>	Ambient Air Temperature: <u>70°</u>
Well I.D.: <u>MW-13</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth: <u>26.60</u>	Depth to Water: <u>20.90</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>22.04 (TS)</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>0.9</u> (Gals.) X	<u>3</u> Specified Volumes	<u>2.7</u> Gals. Calculated Volume
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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 <u>μS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
<u>0905</u>	<u>68.0</u>	<u>7.61</u>	<u>543</u>	<u>37</u>	<u>0.9</u>	
<u>0907</u>	<u>67.8</u>	<u>7.41</u>	<u>544</u>	<u>45</u>	<u>1.8</u>	
<u>0909</u>	<u>67.9</u>	<u>7.57</u>	<u>573</u>	<u>47</u>	<u>2.7</u>	

Did well dewater? Yes No Gallons actually evacuated: 2.7

Sampling Date: 9-24-09 Sampling Time: 0915 Depth to Water: 21.39 (TV)

Sample I.D.: MW-13 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 #: <u>090924-301</u>	Station #: <u>9-0020</u>
Sampler: <u>30</u>	Date: <u>9-24-09</u>
Weather: <u>overcast</u>	Ambient Air Temperature: <u>70°</u>
Well I.D.: <u>MW-15</u>	Well Diameter: <u>3</u> 3 4 6 8 _____
Total Well Depth: <u>26.13</u>	Depth to Water: <u>20.47</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>21.60</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>0.9</u> (Gals.) X	<u>3</u> Specified Volumes	=	<u>2.7</u> Gals.	
I Case Volume	Specified Volumes	Calculated Volume		

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

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
<u>0924</u>	<u>67.2</u>	<u>7.47</u>	<u>568</u>	<u>231</u>	<u>0.9</u>	<u>reddish tint</u>
<u>0926</u>	<u>67.1</u>	<u>7.39</u>	<u>577</u>	<u>277</u>	<u>1.8</u>	↓
<u>0928</u>	<u>67.0</u>	<u>7.34</u>	<u>584</u>	<u>382</u>	<u>2.7</u>	↓

Did well dewater? Yes No Gallons actually evacuated: 2.7

Sampling Date: 9-24-09 Sampling Time: 0935 Depth to Water: 20.97

Sample I.D.: MW-15 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 #: <u>090924- J01</u>	Station #: <u>9-0020</u>
Sampler: <u>J0</u>	Date: <u>9-24-09</u>
Weather: <u>Sunny</u>	Ambient Air Temperature: <u>70°</u>
Well I.D.: <u>MW- 16</u>	Well Diameter: 2 3 4 6 8 <u> </u>
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

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: _____

_____ (Gals.) X	<u>3</u>	= _____ 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
P A R K E D over						

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Date: 9-24-09 Sampling Time: _____ Depth to Water: _____

Sample I.D.: MW- 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

CHAIN OF CUSTODY FORM

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

COC 1 of 1

Chevron Site Number: 90020
 Chevron Site Global ID: T0600100304
 Chevron Site Address: 1633 Harrison St., Oakland, CA
 Chevron PM: AARON COSTA
 Chevron PM Phone No.: (925)543-2961
 Retail and Terminal Business Unit (RTBU) Job
 Construction/Retail Job

Chevron Consultant: CRA
 Address: 5900 Hollis St. Suite A Emeryville,
 CA Consultant Contact: Charlotte Evans
 Consultant Phone No. 510-420-3351
 Consultant Project No. 090924-101
 Sampling Company: Blaine Tech Services
 Sampled By (Print): Jovitz
 Sampler Signature: [Signature]

ANALYSES REQUIRED

<input checked="" type="checkbox"/> EPA 8260B/GC/MS TPH-G	<input checked="" type="checkbox"/> BIEX	<input checked="" type="checkbox"/> GRO	<input checked="" type="checkbox"/> DRO	<input type="checkbox"/> ORO	<input type="checkbox"/> HC SCREEN	<input type="checkbox"/> MTBE	<input type="checkbox"/> DRO	<input type="checkbox"/> ORO	<input type="checkbox"/> STLC	<input type="checkbox"/> EPA 310.1 ALKALINITY	<input type="checkbox"/> EPA 413.1 OIL & GREASE	Preservation Codes H = HCL T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other
<input type="checkbox"/> EPA 8015B	<input type="checkbox"/> GRO	<input type="checkbox"/> DRO	<input type="checkbox"/> ORO	<input type="checkbox"/> HC SCREEN	<input type="checkbox"/> MTBE	<input type="checkbox"/> DRO	<input type="checkbox"/> ORO	<input type="checkbox"/> STLC	<input type="checkbox"/> EPA 310.1 ALKALINITY	<input type="checkbox"/> EPA 413.1 OIL & GREASE	Special Instructions Must meet lowest detection limits possib. for 8260 Compounds	

Charge Code: **NWRTB-0090020-0-OML**
 NWRTB 00SITE NUMBER-0- WBS
(WBS ELEMENTS:
 SITE ASSESSMENT: **A1L** REMEDIATION IMPLEMENTATION: **R5L**
 SITE MONITORING: **OML** OPERATION MAINTENANCE & MONITORING: **M1L**
THIS IS A LEGAL DOCUMENT. ALL FIELDS MUST BE FILLED OUT CORRECTLY AND COMPLETELY.

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

SAMPLE ID				Sample Time	# of Containers	Container Type
Field Point Name	Matrix	Top Depth	Date (yyymmdd)			
MW-9	W		090924	1005	9	HCL VOAS
MW-13	↓		↓	0915	↓	↓
MW-15	↓		↓	0935	↓	↓
QA	T		↓	1010	2	↓

Relinquished By: [Signature] Company: BTS Date/Time: 9-24-09 1535
 Relinquished To: [Signature] Company: BTS (sample custody) Date/Time: 9-24-09 1535

Turnaround Time:
 Standard 24 Hours 48 hours 72
 Hours Other

Relinquished By: _____ Company: _____ Date/Time: _____
 Relinquished To: _____ Company: _____ Date/Time: _____

Sample Integrity: (Check by lab on arrival)
 Intact: _____ On Ice: _____ Temp: _____

Relinquished By: _____ Company: _____ Date/Time: _____
 Relinquished To: _____ Company: _____ Date/Time: _____

COC # _____

WELLHEAD INSPECTION CHECKLIST

Page 1 of 1

Client Chevron Date 9-24-09
 Site Address 1633 Harniss St. Oakland CA.
 Job Number 090924-601 Technician JO

Well ID	Well Inspected - No Corrective Action Required	WELL IS SECURABLE BY DESIGN (12" or less)	WELL IS CLEARLY MARKED WITH THE WORDS "MONITORING WELL" (12" or less)	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
MW-9								X		
MW-13		X	X	X				X		
MW-15		X	X	X				X		
MW-16										

NOTES: MW-13, 1/2 Bolt missing 2/2 Tabs stripped, MW-15 2/2 Tabs stripped, MW-9 city monument slip on 130x 10 bolts.

MW-16 Parked over

CHEVRON-NORTHERN CALIFORNIA TYPE **A** BILL OF LADING

SOURCE RECORD **BILL OF LADING**

FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT CHEVRON FACILITIES IN THE STATE OF CALIFORNIA. THE NON-HAZARDOUS PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND- WATER WELLS IS COLLECTED BY THE CONTRACTOR, MADE UP INTO LOADS OF APPROPRIATE SIZE AND HAULED BY IWM TO THEIR FACILITY IN SAN JOSE, CALIFORNIA.

The contractor performing this work is BLAINE TECH SERVICES, INC. (BTS), 1680 Rogers Ave. San Jose CA (408)573-0555). Blaine Tech Services, Inc. is authorized by CHEVRON PRODUCTS COMPANY (CHEVRON) to recover, collect, apportion into loads, and haul the Non-Hazardous Well Purgewater that is drawn from wells at the CHEVRON facility indicated below and to deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one Chevron facility to BTS; from one Chevron facility to BTS via another Chevron facility; or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of CHEVRON.

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:

9-0020 CHEVRON # Aaron Costa Chevron Engineer
1633 Harrison St street number street name Oakland city CA state

WELL I.D.	GALS.	WELL I.D.	GALS.
<u>MW-9</u>	<u>/ 1.5</u>		
<u>MW-13</u>	<u>/ 2.7</u>		
<u>MW-15</u>	<u>/ 2.7</u>		
	<u>/</u>		
	<u>/</u>		
	<u>/</u>		
	<u>/</u>		
	<u>/</u>		
	<u>/ 0.5</u>		

added equip. / 0.5
 rinse water / 7.40.5
 any other adjustments /

TOTAL GALS. RECOVERED 7.4
 loaded onto BTS vehicle # 86

BTS event # 090924-101 time 1045 date 9 / 24 / 09
 signature [Signature]

REC'D AT BTS time 1530 date 9 / 24 / 09

unloaded by signature [Signature]

ATTACHMENT B

LANCASTER LABORATORIES OCTOBER 8, 2009 ANALYTICAL REPORT

ANALYTICAL RESULTS

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

925-842-8582

Prepared by:

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

October 06, 2009

Project: 90020

Samples arrived at the laboratory on Saturday, September 26, 2009. The PO# for this group is 0015040460 and the release number is COSTA. The group number for this submittal is 1163646.

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
MW-9-W-090924 NA Water	5788279
MW-13-W-090924 NA Water	5788280
MW-15-W-090924 NA Water	5788281
QA-T-090924 NA Water	5788282

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

ELECTRONIC COPY TO
ELECTRONIC COPY TO

Chevron c/o CRA
CRA

Attn: Report Contact

Attn: Charlotte Evans

Questions? Contact your Client Services Representative
Jill M Parker at (717) 656-2300

Respectfully Submitted,



Marla S. Lord
Senior Specialist

Sample Description: MW-9-W-090924 NA Water
Facility# 90020 BTST
1633 Harrison-Oakland T0600100304 MW-9

LLI Sample # WW 5788279
LLI Group # 1163646
CA

Project Name: 90020

Collected: 09/24/2009 10:05 by JO

Account Number: 10991

Submitted: 09/26/2009 10:30

Chevron

Reported: 10/06/2009 at 13:28

6001 Bollinger Canyon Rd L4310

Discard: 11/06/2009

San Ramon CA 94583

HSO09

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	ug/l	ug/l	ug/l	
08202	t-Amyl methyl ether	994-05-8	N.D.	0.5	4	1
05382	Benzene	71-43-2	N.D.	0.5	4	1
05382	Bromodichloromethane	75-27-4	N.D.	1	5	1
05382	Bromoform	75-25-2	N.D.	1	5	1
05382	Bromomethane	74-83-9	N.D.	1	5	1
08202	t-Butyl alcohol	75-65-0	N.D.	5	80	1
05382	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
05382	Chlorobenzene	108-90-7	N.D.	0.8	5	1
05382	Chloroethane	75-00-3	N.D.	1	5	1
05382	Chloroform	67-66-3	N.D.	0.8	5	1
05382	Chloromethane	74-87-3	N.D.	1	5	1
05382	Dibromochloromethane	124-48-1	N.D.	1	5	1
05382	1,2-Dibromoethane	106-93-4	N.D.	0.5	4	1
05382	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
05382	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
05382	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
05382	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
05382	1,2-Dichloroethane	107-06-2	N.D.	0.5	4	1
05382	1,1-Dichloroethene	75-35-4	N.D.	0.8	5	1
05382	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
05382	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
05382	1,2-Dichloropropane	78-87-5	N.D.	1	5	1
08202	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	5	1
08202	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	5	1
08202	Ethanol	64-17-5	N.D.	50	250	1
08202	Ethyl t-butyl ether	637-92-3	N.D.	0.5	4	1
05382	Ethylbenzene	100-41-4	0.8	J 0.5	4	1
08202	Freon 113	76-13-1	N.D.	2	10	1
08202	di-Isopropyl ether	108-20-3	N.D.	0.5	4	1
08202	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	4	1
05382	Methylene Chloride	75-09-2	N.D.	2	5	1
05382	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	5	1
05382	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
05382	Toluene	108-88-3	N.D.	0.5	4	1
05382	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
05382	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	5	1
05382	Trichloroethene	79-01-6	N.D.	1	5	1
05382	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
05382	Vinyl Chloride	75-01-4	N.D.	1	5	1
05382	m+p-Xylene	179601-23-1	5	0.5	4	1
05382	o-Xylene	95-47-6	N.D.	0.5	4	1
GC Volatiles	SW-846 8015B		ug/l	ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	580	50	100	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-9-W-090924 NA Water
Facility# 90020 BTST
1633 Harrison-Oakland T0600100304 MW-9

LLI Sample # WW 5788279
LLI Group # 1163646
CA

Project Name: 90020

Collected: 09/24/2009 10:05 by JO

Account Number: 10991

Submitted: 09/26/2009 10:30
Reported: 10/06/2009 at 13:28
Discard: 11/06/2009

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

HSO09

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
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	W092732AA	10/01/2009 04:05	Kelly E Brickley	1
05382	EPA SW846/8260 (water)	SW-846 8260B	1	W092732AA	10/01/2009 04:05	Kelly E Brickley	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W092732AA	10/01/2009 04:05	Kelly E Brickley	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09274A20A	10/02/2009 14:12	Matthew S Woods	1
01146	GC VOA Water Prep	SW-846 5030B	1	09274A20A	10/02/2009 14:12	Matthew S Woods	1

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

Sample Description: MW-13-W-090924 NA Water
Facility# 90020 BTST
1633 Harrison-Oakland T0600100304 MW-13

LLI Sample # WW 5788280
LLI Group # 1163646
CA

Project Name: 90020

Collected: 09/24/2009 09:15 by JO

Account Number: 10991

Submitted: 09/26/2009 10:30

Chevron

Reported: 10/06/2009 at 13:28

6001 Bollinger Canyon Rd L4310

Discard: 11/06/2009

San Ramon CA 94583

HSO13

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	ug/l	ug/l	ug/l	
08202	t-Amyl methyl ether	994-05-8	N.D.	0.5	4	1
05382	Benzene	71-43-2	N.D.	0.5	4	1
05382	Bromodichloromethane	75-27-4	N.D.	1	5	1
05382	Bromoform	75-25-2	N.D.	1	5	1
05382	Bromomethane	74-83-9	N.D.	1	5	1
08202	t-Butyl alcohol	75-65-0	N.D.	5	80	1
05382	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
05382	Chlorobenzene	108-90-7	N.D.	0.8	5	1
05382	Chloroethane	75-00-3	N.D.	1	5	1
05382	Chloroform	67-66-3	N.D.	0.8	5	1
05382	Chloromethane	74-87-3	N.D.	1	5	1
05382	Dibromochloromethane	124-48-1	N.D.	1	5	1
05382	1,2-Dibromoethane	106-93-4	N.D.	0.5	4	1
05382	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
05382	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
05382	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
05382	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
05382	1,2-Dichloroethane	107-06-2	N.D.	0.5	4	1
05382	1,1-Dichloroethene	75-35-4	N.D.	0.8	5	1
05382	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
05382	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
05382	1,2-Dichloropropane	78-87-5	N.D.	1	5	1
08202	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	5	1
08202	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	5	1
08202	Ethanol	64-17-5	N.D.	50	250	1
08202	Ethyl t-butyl ether	637-92-3	N.D.	0.5	4	1
05382	Ethylbenzene	100-41-4	N.D.	0.5	4	1
08202	Freon 113	76-13-1	N.D.	2	10	1
08202	di-Isopropyl ether	108-20-3	N.D.	0.5	4	1
08202	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	4	1
05382	Methylene Chloride	75-09-2	N.D.	2	5	1
05382	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	5	1
05382	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
05382	Toluene	108-88-3	N.D.	0.5	4	1
05382	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
05382	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	5	1
05382	Trichloroethene	79-01-6	N.D.	1	5	1
05382	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
05382	Vinyl Chloride	75-01-4	N.D.	1	5	1
05382	m+p-Xylene	179601-23-1	N.D.	0.5	4	1
05382	o-Xylene	95-47-6	N.D.	0.5	4	1

Preservation requirements were not met. The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt. The pH of this sample was pH = 5.

GC Volatiles **SW-846 8015B** **ug/l** **ug/l** **ug/l**

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



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-13-W-090924 NA Water
Facility# 90020 BTST
1633 Harrison-Oakland T0600100304 MW-13

LLI Sample # WW 5788280
LLI Group # 1163646
CA

Project Name: 90020

Collected: 09/24/2009 09:15 by JO

Account Number: 10991

Submitted: 09/26/2009 10:30

Chevron

Reported: 10/06/2009 at 13:28

6001 Bollinger Canyon Rd L4310

Discard: 11/06/2009

San Ramon CA 94583

HSO13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC Volatiles	SW-846 8015B		ug/l	ug/l	ug/l	
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
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	W092732AA	10/01/2009 04:28	Kelly E Brickley	1
05382	EPA SW846/8260 (water)	SW-846 8260B	1	W092732AA	10/01/2009 04:28	Kelly E Brickley	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W092732AA	10/01/2009 04:28	Kelly E Brickley	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09274A20A	10/02/2009 14:34	Matthew S Woods	1
01146	GC VOA Water Prep	SW-846 5030B	1	09274A20A	10/02/2009 14:34	Matthew S Woods	1

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

Sample Description: MW-15-W-090924 NA Water
Facility# 90020 BTST
1633 Harrison-Oakland T0600100304 MW-15

LLI Sample # WW 5788281
LLI Group # 1163646
CA

Project Name: 90020

Collected: 09/24/2009 09:35 by JO

Account Number: 10991

Submitted: 09/26/2009 10:30

Chevron

Reported: 10/06/2009 at 13:28

6001 Bollinger Canyon Rd L4310

Discard: 11/06/2009

San Ramon CA 94583

HSO15

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	ug/l	ug/l	ug/l	
08202	t-Amyl methyl ether	994-05-8	N.D.	0.5	4	1
05382	Benzene	71-43-2	N.D.	0.5	4	1
05382	Bromodichloromethane	75-27-4	N.D.	1	5	1
05382	Bromoform	75-25-2	N.D.	1	5	1
05382	Bromomethane	74-83-9	N.D.	1	5	1
08202	t-Butyl alcohol	75-65-0	N.D.	5	80	1
05382	Carbon Tetrachloride	56-23-5	N.D.	1	5	1
05382	Chlorobenzene	108-90-7	N.D.	0.8	5	1
05382	Chloroethane	75-00-3	N.D.	1	5	1
05382	Chloroform	67-66-3	N.D.	0.8	5	1
05382	Chloromethane	74-87-3	N.D.	1	5	1
05382	Dibromochloromethane	124-48-1	N.D.	1	5	1
05382	1,2-Dibromoethane	106-93-4	N.D.	0.5	4	1
05382	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	1
05382	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	1
05382	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	1
05382	1,1-Dichloroethane	75-34-3	N.D.	1	5	1
05382	1,2-Dichloroethane	107-06-2	N.D.	0.5	4	1
05382	1,1-Dichloroethene	75-35-4	N.D.	0.8	5	1
05382	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	1
05382	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	1
05382	1,2-Dichloropropane	78-87-5	N.D.	1	5	1
08202	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	5	1
08202	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	5	1
08202	Ethanol	64-17-5	N.D.	50	250	1
08202	Ethyl t-butyl ether	637-92-3	N.D.	0.5	4	1
05382	Ethylbenzene	100-41-4	N.D.	0.5	4	1
08202	Freon 113	76-13-1	N.D.	2	10	1
08202	di-Isopropyl ether	108-20-3	N.D.	0.5	4	1
08202	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	4	1
05382	Methylene Chloride	75-09-2	N.D.	2	5	1
05382	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	5	1
05382	Tetrachloroethene	127-18-4	N.D.	0.8	5	1
05382	Toluene	108-88-3	N.D.	0.5	4	1
05382	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	1
05382	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	5	1
05382	Trichloroethene	79-01-6	N.D.	1	5	1
05382	Trichlorofluoromethane	75-69-4	N.D.	2	5	1
05382	Vinyl Chloride	75-01-4	N.D.	1	5	1
05382	m+p-Xylene	179601-23-1	N.D.	0.5	4	1
05382	o-Xylene	95-47-6	N.D.	0.5	4	1
GC Volatiles	SW-846 8015B		ug/l	ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	100	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: MW-15-W-090924 NA Water
Facility# 90020 BTST
1633 Harrison-Oakland T0600100304 MW-15

LLI Sample # WW 5788281
LLI Group # 1163646
CA

Project Name: 90020

Collected: 09/24/2009 09:35 by JO

Account Number: 10991

Submitted: 09/26/2009 10:30

Chevron

Reported: 10/06/2009 at 13:28

6001 Bollinger Canyon Rd L4310

Discard: 11/06/2009

San Ramon CA 94583

HSO15

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
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	W092732AA	10/01/2009 04:51	Kelly E Brickley	1
05382	EPA SW846/8260 (water)	SW-846 8260B	1	W092732AA	10/01/2009 04:51	Kelly E Brickley	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W092732AA	10/01/2009 04:51	Kelly E Brickley	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09274A20A	10/02/2009 14:56	Matthew S Woods	1
01146	GC VOA Water Prep	SW-846 5030B	1	09274A20A	10/02/2009 14:56	Matthew S Woods	1

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



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: QA-T-090924 NA Water
Facility# 90020 BTST
1633 Harrison-Oakland T0600100304 QA

LLI Sample # WW 5788282
LLI Group # 1163646
CA

Project Name: 90020

Collected: 09/24/2009 10:10

Account Number: 10991

Submitted: 09/26/2009 10:30

Chevron

Reported: 10/06/2009 at 13:28

6001 Bollinger Canyon Rd L4310

Discard: 11/06/2009

San Ramon CA 94583

HSOQA

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	ug/l	ug/l	ug/l	
06054	Benzene	71-43-2	N.D.	0.5	1	1
06054	Ethylbenzene	100-41-4	N.D.	0.5	1	1
06054	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1	1
06054	Toluene	108-88-3	N.D.	0.5	1	1
06054	Xylene (Total)	1330-20-7	N.D.	0.5	1	1
GC	Volatiles	SW-846 8015B	ug/l	ug/l	ug/l	
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
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	D092733AA	10/01/2009 01:42	Michael A Ziegler	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D092733AA	10/01/2009 01:42	Michael A Ziegler	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09274A20A	10/02/2009 11:59	Matthew S Woods	1
01146	GC VOA Water Prep	SW-846 5030B	1	09274A20A	10/02/2009 11:59	Matthew S Woods	1

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

Quality Control Summary

Client Name: Chevron

Group Number: 1163646

Reported: 10/06/09 at 01:28 PM

Matrix QC may not be reported if 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.

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: D092733AA Sample number(s): 5788282									
Benzene	N.D.	0.5	1	ug/l	103		79-120		
Ethylbenzene	N.D.	0.5	1	ug/l	100		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	1	ug/l	107		76-120		
Toluene	N.D.	0.5	1	ug/l	100		79-120		
Xylene (Total)	N.D.	0.5	1	ug/l	100		80-120		
Batch number: W092732AA Sample number(s): 5788279-5788281									
t-Amyl methyl ether	N.D.	0.5	4	ug/l	94	93	77-120	1	30
Benzene	N.D.	0.5	4	ug/l	96	96	79-120	0	30
Bromodichloromethane	N.D.	1.	5	ug/l	97	98	80-120	1	30
Bromoform	N.D.	1.	5	ug/l	94	94	61-120	1	30
Bromomethane	N.D.	1.	5	ug/l	68	68	40-137	0	30
t-Butyl alcohol	N.D.	5.	80	ug/l	98	99	73-120	1	30
Carbon Tetrachloride	N.D.	1.	5	ug/l	99	98	75-123	1	30
Chlorobenzene	N.D.	0.8	5	ug/l	100	98	80-120	2	30
Chloroethane	N.D.	1.	5	ug/l	68	70	49-129	2	30
Chloroform	N.D.	0.8	5	ug/l	99	99	77-122	1	30
Chloromethane	N.D.	1.	5	ug/l	83	83	60-129	1	30
Dibromochloromethane	N.D.	1.	5	ug/l	96	95	80-120	1	30
1,2-Dibromoethane	N.D.	0.5	4	ug/l	96	97	80-120	2	30
1,2-Dichlorobenzene	N.D.	1.	5	ug/l	100	100	80-120	0	30
1,3-Dichlorobenzene	N.D.	1.	5	ug/l	98	99	80-120	2	30
1,4-Dichlorobenzene	N.D.	1.	5	ug/l	99	99	80-120	0	30
1,1-Dichloroethane	N.D.	1.	5	ug/l	96	95	79-120	2	30
1,2-Dichloroethane	N.D.	0.5	4	ug/l	107	106	70-130	1	30
1,1-Dichloroethene	N.D.	0.8	5	ug/l	92	90	74-123	2	30
cis-1,2-Dichloroethene	N.D.	0.8	5	ug/l	95	94	80-120	2	30
trans-1,2-Dichloroethene	N.D.	0.8	5	ug/l	96	94	80-120	2	30
1,2-Dichloropropane	N.D.	1.	5	ug/l	95	96	78-120	1	30
cis-1,3-Dichloropropene	N.D.	1.	5	ug/l	96	95	80-120	1	30
trans-1,3-Dichloropropene	N.D.	1.	5	ug/l	97	99	79-120	2	30
Ethanol	N.D.	50.	250	ug/l	90	87	40-158	3	30
Ethyl t-butyl ether	N.D.	0.5	4	ug/l	93	92	76-120	2	30
Ethylbenzene	N.D.	0.5	4	ug/l	94	95	79-120	0	30
Freon 113	N.D.	2.	10	ug/l	88	88	69-128	1	30
di-Isopropyl ether	N.D.	0.5	4	ug/l	96	95	71-124	1	30
Methyl Tertiary Butyl Ether	N.D.	0.5	4	ug/l	96	96	76-120	0	30
Methylene Chloride	N.D.	2.	5	ug/l	96	96	80-120	0	30
1,1,2,2-Tetrachloroethane	N.D.	1.	5	ug/l	98	98	71-117	1	30
Tetrachloroethene	N.D.	0.8	5	ug/l	99	100	80-121	1	30
Toluene	N.D.	0.5	4	ug/l	96	97	79-120	1	30
1,1,1-Trichloroethane	N.D.	0.8	5	ug/l	101	101	75-127	0	30
1,1,2-Trichloroethane	N.D.	0.8	5	ug/l	97	97	80-120	0	30
Trichloroethene	N.D.	1.	5	ug/l	97	99	80-120	2	30
Trichlorofluoromethane	N.D.	2.	5	ug/l	90	89	64-129	1	30
Vinyl Chloride	N.D.	1.	5	ug/l	81	81	59-120	0	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: 1163646

Reported: 10/06/09 at 01:28 PM

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>
m+p-Xylene	N.D.	0.5	4	ug/l	97	97	80-120	0	30
o-Xylene	N.D.	0.5	4	ug/l	95	96	80-120	1	30
Batch number: 09274A20A	Sample number(s): 5788279-5788282								
TPH-GRO N. CA water C6-C12	N.D.	50.	100	ug/l	118	118	75-135	0	30

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: D092733AA	Sample number(s): 5788282				UNSPK: P788152				
Benzene	94	107	80-126	13	30				
Ethylbenzene	91	102	71-134	12	30				
Methyl Tertiary Butyl Ether	99	110	72-126	11	30				
Toluene	91	106	80-125	15	30				
Xylene (Total)	91	104	79-125	13	30				
Batch number: W092732AA	Sample number(s): 5788279-5788281				UNSPK: P784077				
t-Amyl methyl ether	100		75-122						
Benzene	107		80-126						
Bromodichloromethane	108		78-125						
Bromoform	102		60-121						
Bromomethane	75		38-149						
t-Butyl alcohol	104		67-119						
Carbon Tetrachloride	115		81-138						
Chlorobenzene	109		87-124						
Chloroethane	88		51-145						
Chloroform	112		81-134						
Chloromethane	91		67-154						
Dibromochloromethane	104		74-116						
1,2-Dibromoethane	104		77-116						
1,2-Dichlorobenzene	109		84-119						
1,3-Dichlorobenzene	110		86-121						
1,4-Dichlorobenzene	107		85-121						
1,1-Dichloroethane	109		84-129						
1,2-Dichloroethane	114		66-141						
1,1-Dichloroethene	106		85-142						
cis-1,2-Dichloroethene	106		85-125						
trans-1,2-Dichloroethene	111		87-126						
1,2-Dichloropropane	107		83-124						
cis-1,3-Dichloropropene	104		75-125						
trans-1,3-Dichloropropene	105		74-119						
Ethanol	83		37-164						
Ethyl t-butyl ether	103		74-122						
Ethylbenzene	107		71-134						
Freon 113	106		89-148						
di-Isopropyl ether	105		70-129						
Methyl Tertiary Butyl Ether	102		72-126						
Methylene Chloride	99		79-120						

*- 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: 10/06/09 at 01:28 PM

Group Number: 1163646

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>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>
1,1,2,2-Tetrachloroethane	104		73-119						
Tetrachloroethene	114		80-128						
Toluene	107		80-125						
1,1,1-Trichloroethane	117		80-143						
1,1,2-Trichloroethane	106		77-124						
Trichloroethene	111		88-133						
Trichlorofluoromethane	104		73-152						
Vinyl Chloride	94		66-133						
m+p-Xylene	108		79-125						
o-Xylene	105		79-125						

 Batch number: 09274A20A
 TPH-GRO N. CA water C6-C12

 Sample number(s): 5788279-5788282 UNSPK: P788275
 118 63-154

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: BTEX+MTBE by 8260B
 Batch number: D092733AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5788282	101	102	94	99
Blank	100	100	96	103
LCS	100	100	95	109
MS	101	100	94	105
MSD	102	101	96	108
Limits:	80-116	77-113	80-113	78-113

 Analysis Name: EPA SW846/8260 (water)
 Batch number: W092732AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5788279	93	91	92	95
5788280	94	91	92	90
5788281	95	92	91	90
Blank	93	93	92	89
LCS	93	92	94	95
LCSD	92	89	94	95
MS	93	93	94	95
Limits:	80-116	77-113	80-113	78-113

 Analysis Name: TPH-GRO N. CA water C6-C12
 Batch number: 09274A20A
 Trifluorotoluene-F

5788279 85

*- 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: 10/06/09 at 01:28 PM

Group Number: 1163646

Surrogate Quality Control

5788280	75
5788281	77
5788282	74
Blank	80
LCS	110
LCSD	106
MS	108

Limits: 63-135

*- Outside of specification

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

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

Lancaster Laboratories Explanation of Symbols and Abbreviations

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

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<	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.		

U.S. EPA data qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike amount not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

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.

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