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2:33 pm, Mar 24, 2009

Alameda County  
Environmental Health

Stacie H. Frerichs  
Team Lead  
Marketing Business Unit

**Chevron Environmental  
Management Company**  
6001 Bollinger Canyon Road  
San Ramon, CA 94583  
Tel (925) 842-9655  
Fax (925) 842-8370

March 18, 2009  
(date)

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

Re: Chevron Facility # 9-4612

Address: 3616 San Leandro Street, Oakland, California

I have reviewed the attached report titled First Quarter 2009 Groundwater Monitoring Report and dated March 18, 2009.

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

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

I declare under penalty of perjury that the foregoing is true and correct.

Sincerely,

Stacie H. Frerichs  
Project Manager

Enclosure: Report



**CONESTOGA-ROVERS  
& ASSOCIATES**

2000 Opportunity Dr, Suite 110, Roseville, California 95678  
Telephone: 916-677-3407, ext. 100 Facsimile: 916-677-3687  
[www.CRAworld.com](http://www.CRAworld.com)

March 18, 2009

Reference No. 611996

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

Re: First Quarter 2009 Groundwater Monitoring Report  
Former Chevron Service Station 9-4612  
3616 San Leandro Street  
Oakland, California  
LOP Case #RO0000233

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Dear Mr. Plunkett:

Conestoga-Rovers & Associates (CRA) is submitting the attached *Groundwater Monitoring and Sampling Report* (report) on behalf of Chevron Environmental Management Company (Chevron) for the referenced site. The report (prepared by Gettler-Ryan Inc. and dated February 25, 2009) presents the results of the first quarter 2009 monitoring event. Also attached are Figure 1 (Vicinity Map) showing the site location, and Figure 2 (Concentration Map) presenting the first quarter 2009 analytical results along with a rose diagram. Please contact Mr. James Kiernan at (916) 751-4102 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Sara Shinnefield

James P. Kiernan, P.E. #C68498

SS/kw/4

Figure 1 Vicinity Map  
Figure 2 Concentration Map

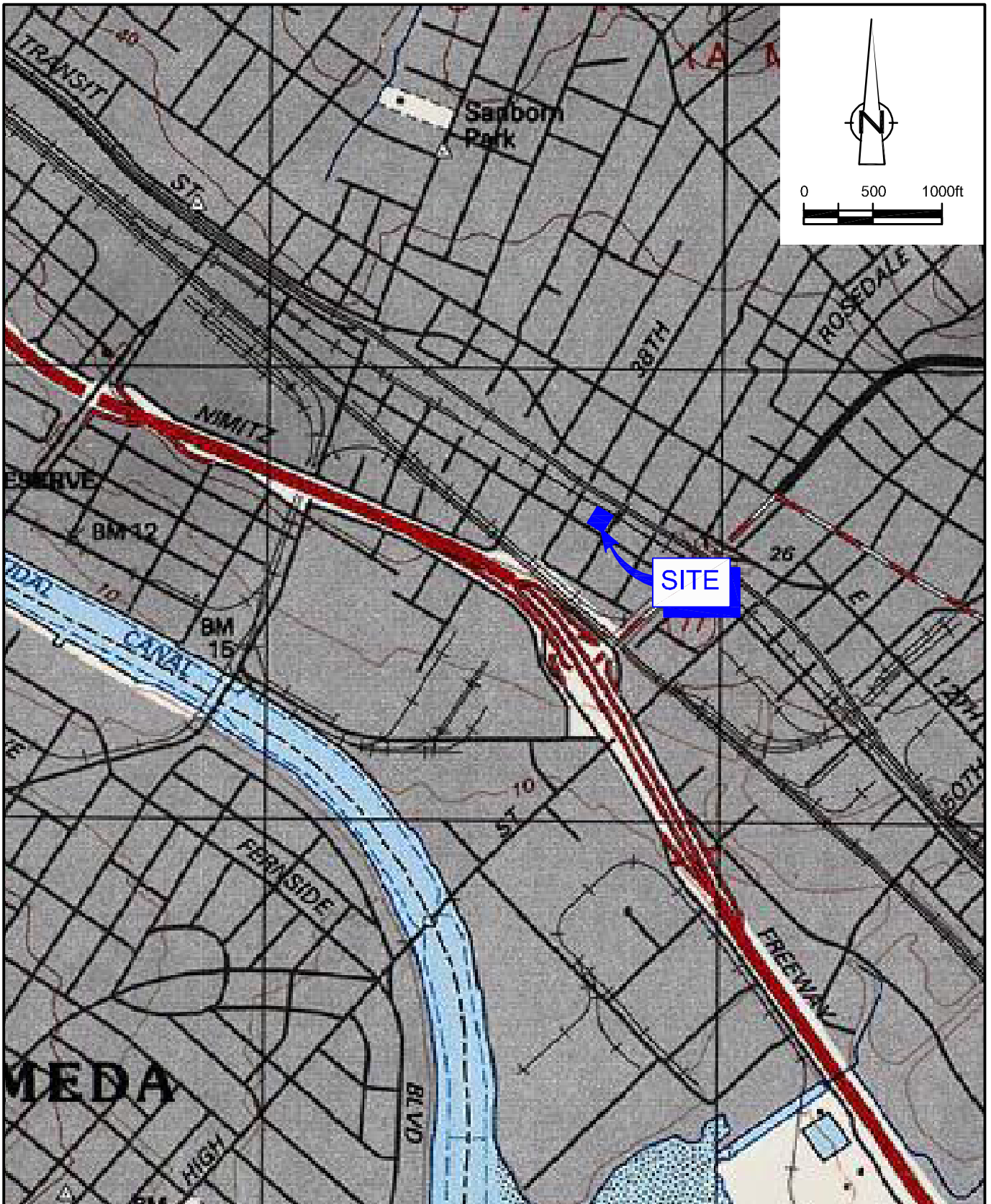
Attachment A Groundwater Monitoring and Sampling Report

cc: Mr. Rob Speer, Chevron Environmental Management Company  
Mr. Leonard B. Ratto, Ratto Land Company  
Mr. Terry McIlraith



Equal  
Employment  
Opportunity Employer

## FIGURES



SOURCE: TOPOI MAPS.

figure 1

VICINITY MAP  
 FORMER CHEVRON SERVICE STATION 9-4612  
 3616 San Leandro Street, Oakland, California



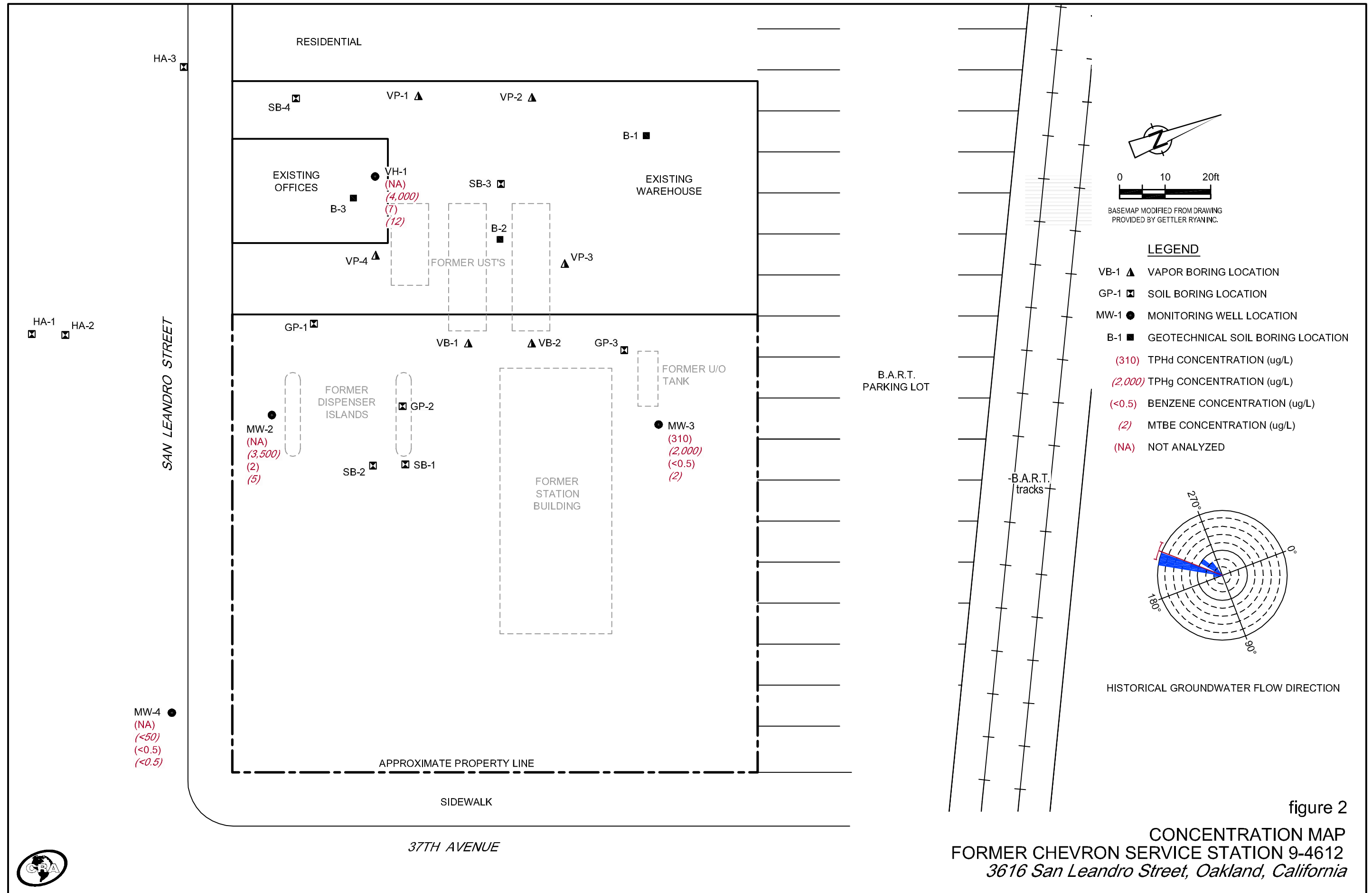


figure 2  
**CONCENTRATION MAP**  
 FORMER CHEVRON SERVICE STATION 9-4612  
 3616 San Leandro Street, Oakland, California



ATTACHMENT A

GROUNDWATER MONITORING AND SAMPLING REPORT



## TRANSMITTAL

March 4, 2009  
G-R #386473

TO: Mr. James Kiernan  
Conestoga-Rovers & Associates  
2000 Opportunity Drive, Suite 110  
Roseville, California 95678

FROM: Deanna L. Harding  
Project Coordinator  
Gettler-Ryan Inc.  
6747 Sierra Court, Suite J  
Dublin, California 94568

RE: **Former Chevron Service Station  
#9-4612 (MTI)  
3616 San Leandro Street  
Oakland, California  
RO 0000233**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
2	February 25, 2009	Groundwater Monitoring and Sampling Report First Quarter Event of February 2, 2009

### COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced report for **your use and distribution to the following:**

Ms. Stacie H. Frerichs, Chevron EMC, 6111 Bollinger Canyon Road, Room 3596,  
San Ramon, CA 94583

Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to **March 19, 2009**, at which time this final report will be distributed to the following:

cc: Mr. Leonard B. Ratto, Ratto Land Company, P.O. Box 6104, Oakland, CA 94603-0104  
Mr. Terry McIlraith, 407 Castello Road, Lafayette, CA 94549  
Mr. Steven Plunkett, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577 (No Hard Copy-UPLOAD TO ALAMEDA CO.)

### Enclosures

6747 Sierra Court, Suite J • Dublin, CA 94568 • (925) 551-7555 • Fax (925) 551-7888  
3140 Gold Camp Drive, Suite 170 • Rancho Cordova, CA 95670 • (916) 631-1300 • Fax (916) 631-1317  
1364 N. McDowell Blvd., Suite B2 • Petaluma, CA 94954 • (707) 789-3255 • Fax (707) 789-3218



Stacie H. Frerichs  
Team Lead  
Marketing Business Unit

Chevron Environmental  
Management Company  
6001 Bollinger Canyon Road  
San Ramon, CA 94583  
Tel (925) 842-9655  
Fax (925) 842-8370

March 4, 2009  
(date)

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

Re: Chevron Facility # 9-4612

Address: 3616 San Leandro Street, Oakland, California

I have reviewed the attached routine groundwater monitoring report dated March 4, 2009.

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

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

I declare under penalty of perjury that the foregoing is true and correct.

Sincerely,

A handwritten signature in black ink that reads "Stacie H. Frerichs".

Stacie H. Frerichs  
Project Manager

Enclosure: Report







February 25, 2009  
G-R Job #386473

Ms. Stacie H. Frerichs  
Chevron Environmental Management Company  
6111 Bollinger Canyon Road, Room 3596  
San Ramon, CA 94583

**RE: First Quarter Event of February 2, 2009**  
Groundwater Monitoring & Sampling Report  
Former Chevron Service Station #9-4612  
3616 San Leandro Street  
Oakland, California

Dear Ms. H. Frerichs:

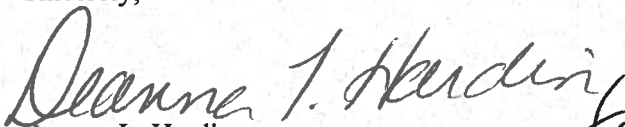
This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

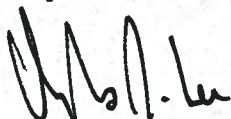
Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Static water level data, groundwater elevations, and separate-phase hydrocarbon thickness (if any) are presented in the attached Table 1. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. The chain of custody document and laboratory analytical report are also attached. All groundwater and decontamination water generated during sampling activities was removed from the site, per the Standard Operating Procedure.

Please call if you have any questions or comments regarding this report. Thank you.

Sincerely,

  
Deanna L. Harding  
Project Coordinator

  
Douglas J. Lee

Senior Geologist, P.G. No. 6882

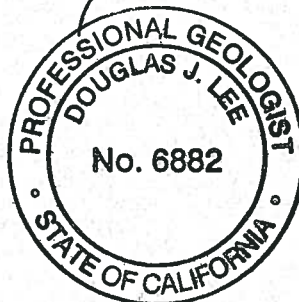
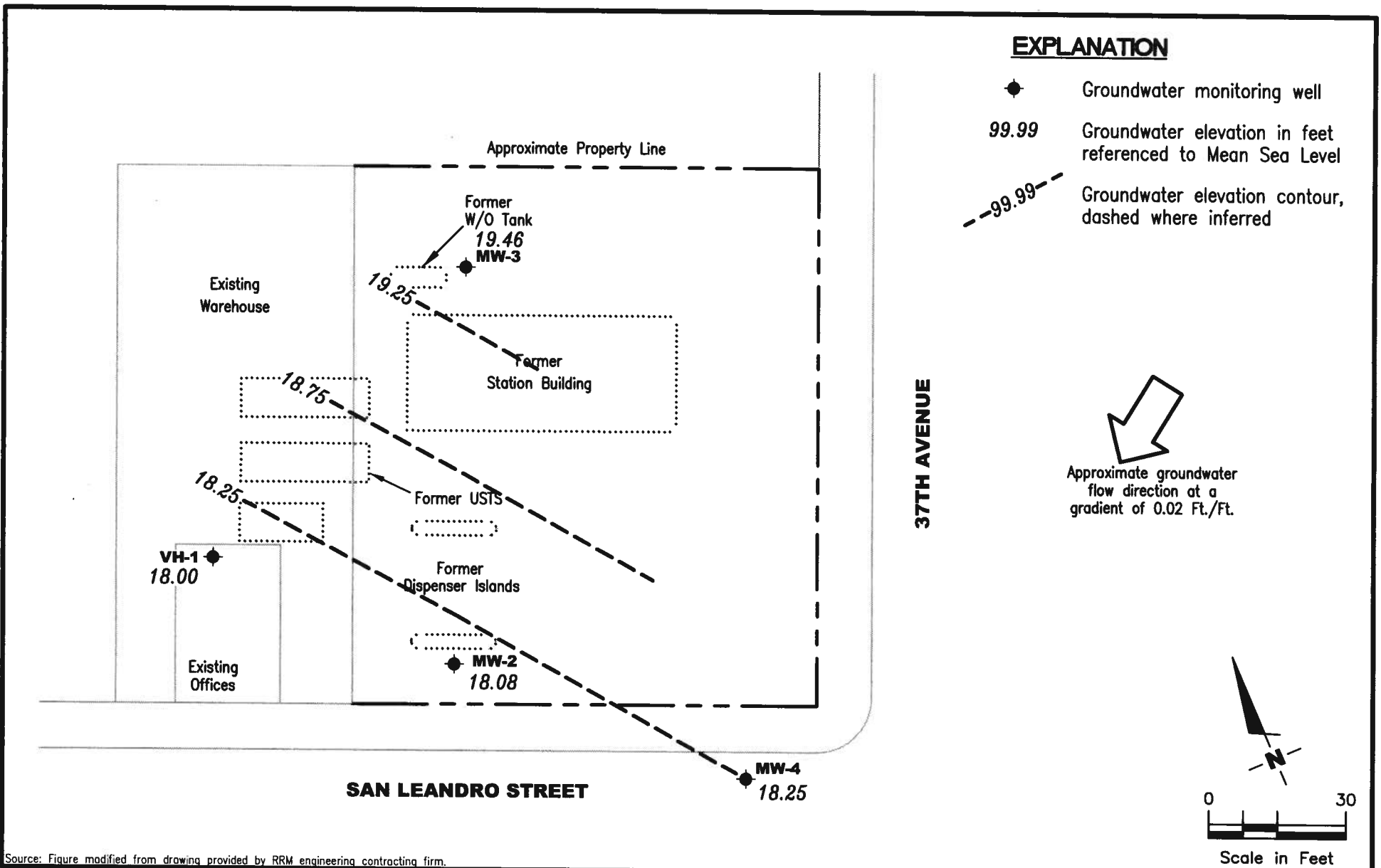


Figure 1: Potentiometric Map  
Table 1: Groundwater Monitoring Data and Analytical Results  
Table 2: Dissolved Oxygen Concentrations  
Table 3: Groundwater Analytical Results - Oxygenate Compounds  
Attachments: Standard Operating Procedure - Groundwater Sampling  
Field Data Sheets  
Chain of Custody Document and Laboratory Analytical Reports



Source: Figure modified from drawing provided by RRM engineering contracting firm.

**GETTLER - RYAN INC.**  
 6747 Sierra Court, Suite J  
 Dublin, CA 94568 (925) 551-7555

**POTENTIOMETRIC MAP**  
 Former Chevron Service Station #9-4612  
 3616 San Leandro Street  
 Oakland, California

FIGURE  
**1**

PROJECT NUMBER <b>386473</b>	REVIEWED BY	DATE February 2, 2009	REVISED DATE
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**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-4612  
3616 San Leandro Street  
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
<b>VH-1</b>											
08/10/88	--	--	13.00	--	11,000	3,300	200	520	540	--	--
06/01/89	--	--	10.32	--	15,000	2,200	120	540	310	--	--
09/15/89	--	--	15.69	--	5,600	1,900	90	350	160	--	--
12/08/89	--	--	14.77	--	11,000	1,900	69	270	99	--	--
03/07/91	--	--	11.26	--	4,500	820	39	120	77	--	--
09/24/91	--	--	12.98	--	3,300	520	19	39	27	--	--
01/08/92	--	--	13.77	--	5,000	600	34	81	76	--	--
04/20/92	--	--	8.18	--	7,400	670	60	110	140	--	--
03/26/93	27.85	21.14	6.71	--	4,900	600	40	72	94	--	--
05/27/93	27.85	19.27	8.58	--	13,000	1,600	120	230	220	--	--
08/18/93	27.85	17.39	10.46	--	2,700	210	10	8.1	18	--	--
11/03/93	27.85	15.28	12.57	--	4,600	680	42	35	68	--	--
02/10/94	27.85	18.77	9.08	--	1,900	260	19	22	29	--	--
05/12/94	27.85	19.76	8.09	--	2,000	390	28	3.9	29	--	--
08/26/94	27.85	17.10	10.75	--	4,900	500	<5.0	23	31	--	--
11/14/94	27.85	18.40	9.45	300	760	69	<2.0	<2.0	2.2	--	--
02/01/95	27.85	21.88	5.97	--	1,300	120	5.9	<0.5	13	--	--
05/12/95	27.85	20.14	7.71	--	4,400	460	31	45	49	--	--
08/22/95	27.85	18.59	9.26	--	2,900	310	15	28	32	--	--
12/19/95	27.85	19.05	8.80	--	930	53	<2.5	<2.5	<2.5	39	--
01/31/96	27.85	22.35	5.50	--	3,700	320	<10	41	40	180	--
04/30/96	27.85	19.81	8.04	--	3,900	270	<20	<20	<20	120	--
08/01/96	27.85	18.67	9.18	--	2,700	140	11	18	28	200	--
10/30/96	27.85	18.67	10.76	--	2,700	140	<12	<12	<12	280	--
02/07/97	27.85	19.75	8.10	--	220	13	0.6	<0.5	1.6	15	--
05/07/97	27.85	18.33	9.52	--	5,200	33	12	21	26	330	--
07/22/97	27.85	17.43	10.42	--	4,200	80	<10	16	24	400	--
11/03/97	27.85	16.85	11.00	--	2,400	150	6.8	6.5	9.5	510	--
01/28/98	27.85	20.75	7.10	--	850	69	4.8	5.0	11	38/48 <sup>12</sup>	--
05/08/98	27.85	20.14	7.71	--	4,200	200	30	40	42	310/200 <sup>12</sup>	--
07/29/98	27.85	18.40	9.45	--	3,800	54	10	27	30	35/290 <sup>12</sup>	--
11/06/98	27.85	17.15	10.70	--	4,800	100	20	12	23	360/210 <sup>12</sup>	--
02/09/99 <sup>5</sup>	27.85	21.87	5.98	--	2,950	79.5	<10	<10	<10	435/312 <sup>12</sup>	--
05/13/99	27.85	19.71	8.14	--	4,180	147	12.8	16.5	20.3	433245 <sup>12</sup>	--
09/07/99	27.85	17.94	9.91	--	2,750	57.6	<5.0	6.53	<5.0	297/233 <sup>12</sup>	--
11/24/99	27.85	17.36	10.49	--	2,550	38	3.18	2.54	5.21	--/216 <sup>1,12</sup>	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-4612  
3616 San Leandro Street  
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
<b>VH-1 (cont)</b>											
02/25/00	27.85	21.20	6.65	--	120	2.7	<0.5	<0.5	<0.5	20.5/11.9 <sup>12</sup>	--
05/10/00	27.85	19.76	8.09	--	1,400 <sup>8</sup>	63	3.3	3.1	4.9	230/110 <sup>12</sup>	--
7/31/00 <sup>11</sup>	27.85	18.30	9.55	--	360 <sup>8</sup>	22	2.7	1.6	3.1	100/88 <sup>12</sup>	--
10/30/00 <sup>11</sup>	27.85	17.91	9.94	--	987 <sup>10</sup>	47.0	1.00	<0.500	1.80	153/130 <sup>12</sup>	--
02/05/01	27.91	19.23	8.68	--	2,670	42.7	<5.00	<5.00	<5.00	225/160 <sup>12</sup>	--
05/07/01 <sup>11</sup>	27.91	19.61	8.30	--	1,800 <sup>6</sup>	100	8.2	10	7.9	440/110 <sup>12</sup>	--
08/06/01 <sup>11</sup>	27.91	18.09	9.82	--	1,000 <sup>6</sup>	67	6.1	2.1	7.1	270/140 <sup>12</sup>	--
11/12/01 <sup>11</sup>	27.91	17.29	10.62	--	220	1.2	<0.50	<0.50	<1.5	63/61 <sup>12</sup>	--
02/11/02 <sup>11</sup>	27.91	19.83	8.08	--	1,700	33	<5.0	6.3	3.8	64/52 <sup>12</sup>	--
05/13/02 <sup>11</sup>	27.91	19.21	8.70	--	2,700	54	4.1	5.6	6.2	100/80 <sup>12</sup>	--
08/09/02 <sup>11</sup>	27.91	18.50	9.41	--	2,400	37	2.4	1.2	3.4	86/89 <sup>12</sup>	--
11/07/02 <sup>11</sup>	27.91	17.34	10.57	--	150	1.3	<0.50	<0.50	<1.5	56/50 <sup>12</sup>	--
02/04/03 <sup>11</sup>	27.91	19.63	8.28	--	1,700	40	3.1	7.8	5.0	100/53 <sup>12</sup>	--
05/05/03 <sup>11</sup>	27.91	20.41	7.50	--	2,100	44	3.4	3.7	5.2	96/62 <sup>12</sup>	--
09/06/03 <sup>11,14</sup>	27.91	18.31	9.60	--	690	7	0.6	<0.5	0.6	59	--
11/14/03 <sup>11,14</sup>	27.91	17.99	9.92	--	1,000	3	0.6	2	0.7	47	--
02/13/04 <sup>14,15</sup>	27.91	19.98	7.93	--	2,400	30	2	4	3	47	--
05/13/04 <sup>14</sup>	27.91	19.24	8.67	--	1,900	49	4	3	5	74	--
08/17/04 <sup>14</sup>	27.91	18.26	9.65	--	1,800	11	1	0.9	2	58	--
11/10/04	27.91	INACCESSIBLE	--	--	--	--	--	--	--	--	--
02/08/05 <sup>14</sup>	27.91	20.08	7.83	--	2,700	26	3	4	5	48	--
06/03/05 <sup>14</sup>	27.91	19.71	8.20	--	3,100	40	5	6	9	45	--
08/05/05 <sup>14</sup>	27.91	17.81	10.10	--	2,500	34	4	0.6	6	46	--
12/02/05 <sup>14</sup>	27.91	18.93	8.98	--	3,500	69	7	2	8	57	--
03/03/06 <sup>14</sup>	NP <sup>18</sup>	20.66	7.25	--	4,100	37	6	6	8	40	--
05/31/06 <sup>14</sup>	NP <sup>18</sup>	19.74	8.17	--	4,100	33	5	3	8	34	--
08/18/06 <sup>14</sup>	27.91	18.79	9.12	--	3,300	23	4	1	5	33	--
11/17/06 <sup>14</sup>	27.91	18.64	9.27	--	3,200	18	3	0.6	3	33	--
02/09/07 <sup>14</sup>	NP <sup>18</sup>	19.53	8.38	--	3,600	23	4	2	5	28	--
05/11/07 <sup>14</sup>	NP <sup>18</sup>	19.53	8.38	--	3,200	14	3	1	5	26	--
08/10/07 <sup>14</sup>	NP <sup>18</sup>	18.41	9.50	--	2,400	10	2	0.6	3	21	--
11/08/07 <sup>14</sup>	NP <sup>18</sup>	18.25	9.66	--	3,000	10	2	0.5	2	18	--
02/07/08 <sup>14</sup>	NP <sup>18</sup>	20.76	7.15	--	4,000	14	3	5	5	14	--
05/02/08 <sup>14</sup>	NP <sup>18</sup>	18.96	8.95	--	3,000	14	3	2	4	17	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-4612  
3616 San Leandro Street  
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)	
<b>VH-1 (cont)</b>												
07/31/08 <sup>14</sup>	NP <sup>18</sup>	27.91	18.23	9.68	--	2,700	13	2	0.8	3	14	--
11/13/08 <sup>14</sup>	NP <sup>18</sup>	27.91	17.73	10.18	--	2,500	6	1	<0.5	1	12	--
02/02/09 <sup>14</sup>	NP <sup>18</sup>	27.91	18.00	9.91	--	4,000	7	1	<0.5	1	12	--
<b>MW-2</b>												
02/16/93		27.51	--	--	--	9,200	720	110	250	170	--	--
03/26/93		27.51	19.89	7.62	--	--	--	--	--	--	--	--
05/27/93		27.51	18.04	9.47	--	360	5.3	2.1	1.8	2.5	--	--
08/18/93		27.51	16.46	11.05	--	9,400	1,100	76	110	100	--	--
11/03/93		27.51	14.56	12.95	--	8,600	390	20	2.7	120	--	--
02/10/94		27.51	17.72	9.79	--	2,700	370	38	44	41	--	--
05/12/94		27.51	18.59	8.92	--	3,800	650	76	15	62	--	--
08/26/94		27.51	16.14	11.37	--	16,000	1,300	270	28	120	--	--
11/14/94		27.51	17.48	10.03	--	5,100	390	10	43	27	--	--
02/01/95		27.51	20.47	7.04	--	6,900	520	82	170	110	--	--
05/12/95		27.51	18.76	8.75	--	7,700	510	83	110	100	--	--
08/22/95		27.51	17.35	10.16	--	4,500	220	16	61	47	--	--
12/19/95		27.51	18.05	9.46	--	2,900	240	<10	19	18	220	--
01/31/96		27.51	21.91	5.60	--	3,900	320	18	72	39	<25	--
04/30/96		27.51	18.68	8.83	--	5,600	200	36	55	47	170	--
08/01/96		27.51	17.25	10.26	--	6,200	190	15	62	59	220	--
10/30/96		27.51	17.25	11.48	--	5,700	190	<25	67	36	260	--
02/07/97		27.51	18.11	9.40	--	8,300	210	34	70	59	330	--
05/07/97		27.51	17.57	9.94	--	6,900	190	12	38	37	530	--
07/22/97		27.51	16.36	11.15	--	10,000	18	25	62	41	630	--
11/03/97		27.51	15.93	11.58	--	6,500	260	8.5	26	14	590/9.6 <sup>4,12</sup>	--
01/28/98		27.51	19.38	8.13	--	6,700	65	13	67	54	280/94 <sup>12</sup>	--
05/08/98		27.51	18.89	8.62	--	5,500	91	38	43	61	220/62 <sup>12</sup>	--
07/29/98		27.51	17.06	10.45	--	3,600	41	8.9	3.6	14	16/94 <sup>12</sup>	--
11/06/98		27.51	15.89	11.62	--	6,900	77	<5.0	14	17	290/110 <sup>12</sup>	--
02/09/99 <sup>5</sup>		27.51	20.61	6.90	--	8,070	75.6	<10	<10	<10	397/144 <sup>12</sup>	--
05/13/99		27.51	18.21	9.30	--	5,890	120	<5.0	12.5	26.6	401/69.4 <sup>12</sup>	--
09/07/99		27.51	16.57	10.94	--	5,820	41.2	<5.0	14.6	<5.0	260/145 <sup>12</sup>	--
11/24/99		27.51	15.98	11.53	--	5,940	40.9	<10	10.8	<10	--/120 <sup>1,12</sup>	--
02/25/00		27.51	21.00	6.51	--	6,370	101	9.37	39.8	33.2	321/121 <sup>12</sup>	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-4612  
3616 San Leandro Street  
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
<b>MW-2 (cont)</b>											
05/10/00	27.51	18.49	9.02	--	6,100 <sup>8</sup>	110	13	27	31	'560/120 <sup>12</sup>	--
07/31/00 <sup>11</sup>	27.51	17.18	10.33	--	3,000 <sup>8</sup>	75	14	28	28	200/130 <sup>12</sup>	--
10/30/00 <sup>11</sup>	27.51	16.95	10.56	--	6,810 <sup>10</sup>	162	<5.00	8.05	<15.0	372/140 <sup>12</sup>	--
02/05/01 <sup>11</sup>	28.05	18.47	9.58	--	5,860	28.4	6.86	16.2	11.8	285/140 <sup>12</sup>	--
05/07/01 <sup>11</sup>	28.05	18.85	9.20	--	4,700 <sup>6</sup>	120	15	30	42	540/88 <sup>12</sup>	--
08/06/01 <sup>11</sup>	28.05	17.31	10.74	--	3,700 <sup>6</sup>	120	<20	28	33	490/110 <sup>12</sup>	--
11/12/01 <sup>11</sup>	28.05	16.60	11.45	--	7,000	29	<10	27	22	93/98 <sup>12</sup>	--
02/11/02 <sup>11</sup>	28.05	18.99	9.06	--	5,900	43	15	24	27	90/86 <sup>12</sup>	--
05/13/02 <sup>11</sup>	28.05	18.41	9.64	--	5,500	26	5.2	23	26	120/47 <sup>12</sup>	--
08/09/02 <sup>11</sup>	28.05	17.76	10.29	--	5,700	26	3.7	26	50	100/69 <sup>12</sup>	--
11/07/02 <sup>11</sup>	28.05	16.78	11.27	--	5,900	33	4.4	23	21	<100/69 <sup>12</sup>	--
02/04/03 <sup>11</sup>	28.05	18.92	9.13	--	5,400	22	4.7	13	14	<50/55 <sup>12</sup>	--
05/05/03 <sup>11</sup>	28.05	19.67	8.38	--	4,500	23	4.7	12	15	<50/31 <sup>12</sup>	--
09/06/03 <sup>11,14</sup>	28.05	17.65	10.40	--	3,200	13	2	7	7	54	--
11/14/03 <sup>11,14</sup>	28.05	17.43	10.62	--	4,000	11	2	7	6	55	--
02/13/04 <sup>14,15</sup>	28.05	19.26	8.79	--	6,200	6	2	8	8	31	--
05/13/04 <sup>14</sup>	28.05	18.49	9.56	--	3,200	6	3	13	11	34	--
08/17/04 <sup>14</sup>	28.05	17.57	10.48	--	4,300	7	1	6	5	46	--
11/10/04 <sup>14</sup>	28.05	18.52	9.53	--	3,000	5	1	6	7	37	--
02/08/05 <sup>14</sup>	28.05	19.34	8.71	--	4,700	3	2	10	8	22	--
06/03/05 <sup>14</sup>	28.05	19.04	9.01	--	4,100	4	3	15	11	23	--
08/05/05 <sup>14</sup>	28.05	18.29	9.76	--	3,500	4	1	<0.5	8	23	--
12/02/05 <sup>14</sup>	28.05	18.41	9.64	--	2,900	4	2	3	3	24	--
03/03/06 <sup>14</sup>	28.05	20.01	8.04	--	3,800	5	6	4	5	9	--
05/31/06 <sup>14</sup>	28.05	19.04	9.01	--	4,600	2	1	3	3	8	--
08/18/06 <sup>14</sup>	28.05	18.14	9.91	--	4,300	2	1	11	7	14	--
11/17/06 <sup>14</sup>	28.05	18.10	9.95	--	4,600	2	0.7	7	4	14	--
02/09/07 <sup>14</sup>	28.05	18.95	9.10	--	3,600	1	0.6	3	3	9	--
05/11/07 <sup>14</sup>	28.05	18.93	9.12	--	3,600	2	1	5	5	8	--
08/10/07 <sup>14</sup>	28.05	17.85	10.20	--	3,600	1	1	7	4	9	--
11/08/07 <sup>14</sup>	28.05	17.70	10.35	--	3,600	2	0.7	5	2	7	--
02/07/08 <sup>14</sup>	28.05	20.13	7.92	--	5,000	1	1	5	3	5	--
05/02/08 <sup>14</sup>	28.05	18.56	9.49	--	3,300	1	0.9	3	2	4	--
07/31/08 <sup>14</sup>	28.05	17.70	10.35	--	3,000	2	0.6	2	1	5	--
11/13/08 <sup>14</sup>	28.05	17.24	10.81	--	3,800	2	0.5	2	0.8	4	--
02/02/09 <sup>14</sup>	28.05	18.08	9.97	--	3,500	2	0.6	2	1	5	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-4612  
3616 San Leandro Street  
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
<b>MW-3</b>											
02/16/93	28.50	--	--	--	3,500	<0.5	8.1	4.6	7.7	--	--
03/26/93	28.50	21.32	7.18	--	--	--	--	--	--	--	--
05/27/93	28.50	19.17	9.33	--	4,200	580	84	150	100	--	--
08/18/93	28.50	16.50	12.00	1,400	910	12	3.7	6.2	3.8	--	<5,000
11/03/93	28.50	15.21	13.29	--	5,300	29	1.9	0.6	27	--	--
02/10/94	28.50	18.87	9.63	<50	63	<0.5	0.7	<0.5	<0.5	--	--
05/12/94	28.50	19.73	8.77	84	<50	<0.5	0.5	<0.5	<0.5	--	--
08/26/94	28.50	17.08	11.42	--	2,100	12	<0.5	5.0	0.5	--	--
11/14/94	28.50	18.43	10.07	--	140	0.78	<0.5	<0.5	<0.5	--	--
02/01/95	28.50	22.21	6.29	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/12/95	28.50	20.43	8.07	540 <sup>2</sup>	330	13	1.1	1.9	0.69	--	--
08/22/95	28.50	18.55	9.95	550 <sup>2</sup>	980	32	<1.0	<1.0	<1.0	--	--
12/19/95	28.50	19.10	9.40	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/31/96	28.50	23.45	5.05	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/30/96	28.50	20.10	8.40	240 <sup>2</sup>	320	2.4	<0.5	0.75	<0.5	7.8	--
08/01/96	28.50	18.70	9.80	470 <sup>2</sup>	980	9.6	<0.5	0.98	2.2	54	--
10/30/96	28.50	18.70	11.48	760 <sup>2</sup>	2,000	14	<10	<10	<10	140	--
02/07/97	28.50	19.90	8.60	61 <sup>2</sup>	200 <sup>2</sup>	<0.5	<0.5	<0.5	<0.5	8.9	--
05/07/97	28.50	19.49	9.01	550 <sup>2</sup>	3,500	14	3.9	3.6	8.0	160	--
07/22/97	28.50	17.38	11.12	800 <sup>2</sup>	3,500	55	<10	<10	<10	150	--
11/03/97	28.50	16.99	11.51	910 <sup>2</sup>	4,100	140	<5.0	<5.0	<5.0	380	--
01/28/98	28.50	21.16	7.34	--	1,100	24	<1.2	<1.2	2.8	33/6.1 <sup>12</sup>	--
05/08/98	28.50	20.44	8.06	250 <sup>2</sup>	990	3.6	7.7	0.7	2.2	37/7.5 <sup>12</sup>	--
07/29/98	28.50	18.25	10.25	290 <sup>2</sup>	1,200	13	<0.5	<0.5	1.4	11/28 <sup>12</sup>	--
11/06/98	28.50	17.11	11.39	390 <sup>2</sup>	2,600	5.3	<2.5	<2.5	3.0	91/41 <sup>12</sup>	--
02/09/99 <sup>5</sup>	28.50	22.40	6.10	184 <sup>2</sup>	406	<1.0	4.03	<1.0	<1.0	17.7/1.97 <sup>12</sup>	--
05/13/99	28.50	19.38	9.12	--	615	13.8	1.05	<0.5	<0.5	43.5/21.2 <sup>12</sup>	--
09/07/99	28.50	17.77	10.73	528 <sup>2</sup>	2,710	<5.0	<5.0	<5.0	<5.0	96.3/57.9 <sup>12</sup>	--
11/24/99	28.50	17.37	11.13	1,070 <sup>2</sup>	5,530	<5.0	<5.0	5.59	<5.0	--/66 <sup>1,12</sup>	--
02/25/00	28.50	22.22	6.28	--	189	4.68	<0.5	<0.5	<0.5	11.9/<2.0 <sup>12</sup>	--
03/01/00	28.50	21.80	6.70	380 <sup>2</sup>	--	--	--	--	--	--	--
05/10/00	28.50	19.90	8.60	830 <sup>7</sup>	1,600 <sup>6</sup>	22	<10	<10	<10	'100/51 <sup>12</sup>	--
07/31/00 <sup>11</sup>	28.50	18.43	10.07	490 <sup>7</sup>	2,200 <sup>6</sup>	76	10	<5.0	13	230/52 <sup>12</sup>	--
10/30/00 <sup>11</sup>	28.50	17.97	10.53	580 <sup>9</sup>	3,320 <sup>10</sup>	<5.00	<5.00	<5.00	<15.0	147/64 <sup>12</sup>	--
02/05/01 <sup>11</sup>	29.04	19.78	9.26	--	3,960	<5.00	6.02	<5.00	<5.00	159/70 <sup>12</sup>	--



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Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
<b>MW-3 (cont)</b>											
05/07/01 <sup>11</sup>	29.04	20.29	8.75	--	2,800 <sup>6</sup>	61	12	<10	20	230/49 <sup>12</sup>	--
05/10/01 <sup>11</sup>	29.04	20.21	8.83	390 <sup>13</sup>	--	--	--	--	--	--	--
08/06/01 <sup>11</sup>	29.04	18.59	10.45	870 <sup>7</sup>	1,600 <sup>6</sup>	39	14	1.3	5.6	130/43 <sup>12</sup>	--
11/12/01 <sup>11</sup>	29.04	17.82	11.22	1,400	3,100	3.6	23	2.3	5.6	40/46 <sup>12</sup>	--
02/11/02 <sup>11</sup>	29.04	20.66	8.38	700	4,000	10	<5.0	4.2	5.5	44/42 <sup>12</sup>	--
05/13/02 <sup>11</sup>	29.04	19.84	9.20	730	2,500	18	<5.0	<5.0	5.2	44/32 <sup>12</sup>	--
08/09/02 <sup>11</sup>	29.04	18.87	10.17	560	2,700	17	<5.0	<5.0	<10	45/33 <sup>12</sup>	--
11/07/02 <sup>11</sup>	29.04	17.91	11.13	660	2,600	24	<5.0	2.0	4.8	51/37 <sup>12</sup>	--
02/04/03 <sup>11</sup>	29.04	20.44	8.60	370	2,200	13	1.5	2.7	5.0	<50/24 <sup>12</sup>	--
05/05/03 <sup>11</sup>	29.04	21.22	7.82	580	2,100	14	1.8	2.0	3.9	<20/19 <sup>12</sup>	--
09/06/03 <sup>11,14</sup>	29.04	18.79	10.25	780	1,800	2	0.6	0.6	1	28	--
11/14/03 <sup>11,14</sup>	29.04	18.52	10.52	860	2,000	1	0.6	0.6	0.9	30	--
02/13/04 <sup>14,15</sup>	29.04	20.76	8.28	590	3,600	1	0.6	1	2	21	--
05/13/04 <sup>14</sup>	29.04	19.87	9.17	670	1,600	1	<0.5	0.5	1	20	--
08/17/04 <sup>14</sup>	29.04	18.79	10.25	900	2,500	1	<0.5	<0.5	0.7	25	--
11/10/04 <sup>14</sup>	29.04	19.81	9.23	780	1,500	1	0.6	0.5	1	27	--
02/08/05 <sup>14</sup>	29.04	20.92	8.12	530	2,500	1	0.6	2	3	11	--
06/03/05 <sup>14</sup>	29.04	20.47	8.57	600	1,700	1	<0.5	0.7	1	9	--
08/05/05 <sup>14</sup>	29.04	18.44	10.60	530 <sup>16</sup>	980	0.6	<0.5	<0.5	0.8	9	--
12/02/05 <sup>14</sup>	29.04	19.46	9.58	1,400 <sup>17</sup>	2,400	1	2	0.8	1	7	--
03/03/06 <sup>14</sup>	29.04	21.46	7.58	530	2,300	0.8	1	<0.5	1	4	--
05/31/06 <sup>14</sup>	29.04	20.51	8.53	480	2,700	0.6	<0.5	<0.5	0.8	4	--
08/18/06 <sup>14</sup>	29.04	19.33	9.71	410	2,700	<0.5	<0.5	<0.5	0.6	6	--
11/17/06 <sup>14</sup>	29.04	19.23	9.81	390	2,600	<0.5	<0.5	<0.5	1	4	--
02/09/07 <sup>14</sup>	29.04	20.16	8.88	640	2,100	<0.5	<0.5	<0.5	1	3	--
05/11/07 <sup>14</sup>	29.04	20.33	8.71	350	1,400	<0.5	<0.5	<0.5	2	2	--
08/10/07 <sup>14</sup>	29.04	19.06	9.98	340	1,300	<0.5	<0.5	<0.5	1	2	--
11/08/07 <sup>14</sup>	29.04	18.93	10.11	440	1,400	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/07/08 <sup>14</sup>	29.04	21.76	7.28	320	2,100	<0.5	0.7	1	2	0.7	--
05/02/08 <sup>14</sup>	29.04	19.86	9.18	260	1,300	<0.5	<0.5	<0.5	<0.5	2	--
07/31/08 <sup>14</sup>	29.04	18.91	10.13	500	2,900	<0.5	<0.5	<0.5	<0.5	1	--
11/13/08 <sup>14</sup>	29.04	18.46	10.58	880	1,800	<0.5	<0.5	<0.5	<0.5	2	--
02/02/09 <sup>14</sup>	29.04	19.46	9.58	310 <sup>19</sup>	2,000	<0.5	<0.5	<0.5	<0.5	2	--

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WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
<b>MW-4</b>											
08/22/95	27.27	18.16	9.11	--	9,600	100	<10	<10	<10	--	--
12/19/95	27.27	18.97	8.30	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/31/96	27.27	21.67	5.60	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/30/96	27.27	20.27	7.00	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
08/01/96	27.27	18.12	9.15	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
10/30/96	27.27	18.12	10.74	--	110	<0.5	<0.5	<0.5	<0.5	<2.5	--
02/07/97	27.27	19.47	7.80	--	80	<0.5	<0.5	<0.5	<0.5	4.1	--
05/07/97	27.27	21.42	5.85	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/22/97	27.27	17.22	10.05	--	150	<0.5	<0.5	<0.5	<0.5	<2.5	--
11/03/97	27.27	16.55	10.72	--	52	0.9	<0.5	<0.5	<0.5	-- <sup>3</sup>	--
01/28/98	27.27	20.76	6.51	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5/<2.0 <sup>12</sup>	--
05/08/98	27.27	20.25	7.02	--	56	<0.5	<0.5	<0.5	<0.5	<2.5/<2.0 <sup>12</sup>	--
07/29/98	27.27	18.32	8.95	--	<50	0.9	<0.5	<0.5	<0.5	<2.5/<2.0 <sup>12</sup>	--
11/06/98	27.27	16.68	10.59	--	72	<0.5	<0.5	<0.5	<0.5	<2.5/<2.0 <sup>12</sup>	--
02/09/99	27.27	21.41	5.86	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0/<1.1 <sup>12</sup>	--
05/13/99	27.27	19.32	7.95	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0/<2.0 <sup>12</sup>	--
09/07/99	27.27	17.79	9.48	--	70.2	<0.5	<0.5	<0.5	<0.5	<2.0/<1.0 <sup>12</sup>	--
11/24/99	27.27	17.22	10.05	--	227	<0.5	<0.5	<0.5	<0.5	--/<0.5 <sup>12</sup>	--
02/25/00	27.27	INACCESSIBLE		--	--	--	--	--	--	--	--
03/01/00	27.27	21.10	6.17	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5/<2.0 <sup>12</sup>	--
05/10/00	27.27	INACCESSIBLE - CAR PARKED OVER WELL		--	--	--	--	--	--	--	--
07/31/00	27.27	17.90	9.37	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0 <sup>12</sup>	--
10/30/00	27.27	17.80	9.47	--	54.0 <sup>10</sup>	<0.500	<0.500	<0.500	<1.50	<2.50/<2.0 <sup>12</sup>	--
02/05/01	27.27	INACCESSIBLE - CAR PARKED OVER WELL		--	--	--	--	--	--	--	--
05/07/01	27.27	19.46	7.81	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0 <sup>12</sup>	--
08/06/01	27.27	17.49	9.78	--	<50	1.1	0.52	<0.50	1.1	6.0/<2.0 <sup>12</sup>	--
11/12/01	27.27	16.86	10.41	--	93	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>12</sup>	--
02/11/02	27.27	19.63	7.64	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>12</sup>	--
05/13/02	27.27	18.95	8.32	--	54	<0.50	0.84	<0.50	<1.5	<2.5/<2 <sup>12</sup>	--
08/09/02	27.27	18.02	9.25	--	54	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>12</sup>	--
11/07/02	27.27	16.85	10.42	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 <sup>12</sup>	--
02/04/03	27.27	19.52	7.75	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<0.5 <sup>12</sup>	--
05/05/03	27.27	20.37	6.90	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5/<0.5 <sup>12</sup>	--
09/06/03 <sup>14</sup>	27.27	17.77	9.50	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/14/03 <sup>14</sup>	27.27	17.47	9.80	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--

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Former Chevron Service Station #9-4612  
3616 San Leandro Street  
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
<b>MW-4 (cont)</b>											
02/13/04 <sup>14</sup>	27.27	19.91	7.36	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/13/04 <sup>14</sup>	27.27	18.99	8.28	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/17/04 <sup>14</sup>	27.27	17.64	9.63	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/10/04 <sup>14</sup>	27.27	18.81	8.46	--	52	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/08/05 <sup>14</sup>	27.27	20.07	7.20	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/03/05 <sup>14</sup>	27.27	19.66	7.61	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/05/05 <sup>14</sup>	27.27	17.83	9.44	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
12/02/05 <sup>14</sup>	27.27	18.92	8.35	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
03/03/06 <sup>14</sup>	27.27	20.82	6.45	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/31/06 <sup>14</sup>	27.27	19.76	7.51	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/18/06 <sup>14</sup>	27.27	18.85	8.42	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/17/06 <sup>14</sup>	27.27	18.31	8.96	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/09/07 <sup>14</sup>	27.27	19.54	7.73	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/11/07 <sup>14</sup>	27.27	19.67	7.60	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/10/07 <sup>14</sup>	27.27	18.26	9.01	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/08/07 <sup>14</sup>	27.27	18.01	9.26	--	<50	<0.5	<0.5	<0.5	1	1	--
02/07/08 <sup>14</sup>	27.27	20.89	6.38	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/02/08 <sup>14</sup>	27.27	19.15	8.12	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/31/08 <sup>14</sup>	27.27	17.99	9.28	--	75	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/13/08 <sup>14</sup>	27.27	17.34	9.93	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/02/09 <sup>14</sup>	27.27	18.25	9.02	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
<b>TRIP BLANK</b>											
05/27/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
08/18/93	--	--	--	1,400	<50	<0.5	<0.5	<0.5	<1.5	--	<5,000
11/03/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/10/94	--	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/12/94	--	--	--	84	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/26/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
11/14/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/01/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
05/12/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
08/22/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
12/19/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/31/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-4612  
3616 San Leandro Street  
Oakland, California

WELL ID/ DATE	TOC* (fL)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
<b>TRIP BLANK (cont)</b>											
04/30/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
08/01/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/30/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
02/07/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/07/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/22/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/28/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--<2.0 <sup>12</sup>	--
05/08/98	--	--	--	--	--	--	--	--	--	--<2.0 <sup>12</sup>	--
07/29/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--<2.0 <sup>12</sup>	--
11/06/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
02/09/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
05/13/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0/<2.0 <sup>12</sup>	--
09/07/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
11/24/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
02/25/00	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
03/01/00	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/10/00	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
07/31/00	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
10/30/00	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<1.50	<2.50	--
02/05/01	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
05/07/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
05/10/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
08/06/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
<b>QA</b>											
11/12/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/11/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/13/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
08/09/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
11/07/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/04/03	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/05/03	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
09/06/03 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/14/03 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/13/04 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/13/04 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/17/04 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-4612  
3616 San Leandro Street  
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TOG (µg/L)
QA (cont)											
11/10/04 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/08/05 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/03/05 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/05/05 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
12/02/05 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
03/03/06 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/31/06 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/18/06 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/17/06 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/09/07 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/11/07 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/10/07 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/08/07 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/07/08 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/02/08 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/31/08 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/13/08 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/02/09 <sup>14</sup>	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-4612  
3616 San Leandro Street  
Oakland, California

**EXPLANATIONS:**

Groundwater monitoring data and laboratory analytical results prior to May 10, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing (ft.) = Feet	DRO = Diesel Range Organics	MTBE = Methyl tertiary butyl ether
GWE = Groundwater Elevation (msl) = Mean sea level	GRO = Gasoline Range Organics	TOG = Total Oil and Grease (µg/L) = Micrograms per liter
DTW = Depth to Water	B = Benzene	NP = No purge
TPH = Total Petroleum Hydrocarbons	T = Toluene	-- = Not Measured/Not Analyzed
	E = Ethylbenzene	QA = Quality Assurance/Trip Blank
	X = Xylenes	

- \* TOC elevations were re-surveyed on March 8, 2001, by Virgil Chavez Land Surveying. The benchmark for the survey was a City of Oakland benchmark, being a cut square top of curb at the centerline return at the northwest corner of East 14th and 37th Avenue, (Benchmark Elevation = 38.21 feet, NGVD 29).
- 1 Lab could not get a good ion chromatogram match for MTBE. See laboratory report.
- 2 Chromatogram pattern indicates an unidentified hydrocarbon.
- 3 No value for MTBE could be determined; see lab report for analyses.
- 4 Confirmation run.
- 5 ORC was installed.
- 6 Laboratory report indicates gasoline C6-C12.
- 7 Laboratory report indicates unidentified hydrocarbons <C16.
- 8 Laboratory report indicates gasoline C6-C12 + unidentified hydrocarbons <C6.
- 9 Laboratory report indicates unidentified hydrocarbons >C16.
- 10 Laboratory report indicates hydrocarbon pattern present in the requested fuel quantization range but does not resemble the pattern of the requested fuel.
- 11 ORC in well.
- 12 MTBE by EPA Method 8260.
- 13 Laboratory report indicates unidentified hydrocarbons C9-C17.
- 14 BTEX and MTBE by EPA Method 8260.
- 15 ORC removed from well.
- 16 Laboratory report indicates the observed sample pattern is not typical of #2 fuel/diesel. It elutes in the DRO range earlier and later than #2 fuel.
- 17 Laboratory report indicates the observed sample pattern is not typical of #2 fuel/diesel. It elutes in the DRO range earlier than #2 fuel.
- 18 No Purge, unable to access well with truck.
- 19 Laboratory report indicates the LCS/LCSD recovery for the DRO analysis is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

**Table 2**  
**Dissolved Oxygen Concentrations**  
Former Chevron Service Station #9-4612  
3616 San Leandro Street  
Oakland, California

WELL ID	DATE	Before Purging (mg/L)	After Purging (mg/L)
VH-1	05/10/00	0.90	--
	07/31/00	1.25	--
	10/30/00	1.97	--
	05/07/01	1.10	--
	08/06/01	1.40	--
	11/12/01	0.90	--
	02/11/02	1.10	--
	05/13/02	0.70	--
MW-2	05/10/00	0.57	--
	07/31/00	1.26	--
	10/30/00	1.25	--
	05/07/01	0.90	--
	08/06/01	1.10	--
	11/12/01	0.80	--
	02/11/02	0.60	--
	05/13/02	0.80	--
MW-3	05/10/00	1.56	--
	07/31/00	1.46	--
	10/30/00	1.18	--
	05/07/01	0.70	--
	08/06/01	0.90	--
	11/12/01	0.50	--
	02/11/02	0.80	--
	05/13/02	1.80	--
MW-4	05/10/00	INACCESSIBLE - CAR PARKED OVER WELL	
	07/31/00	0.64	--
	10/30/00	0.97	--
	02/05/01	INACCESSIBLE - CAR PARKED OVER WELL	
	05/07/01	0.50	--
	08/06/01	0.70	--
	11/12/01	1.00	--
	02/11/02	1.00	--
	05/13/02	2.90	--

**EXPLANATIONS:**

(mg/L) = Milligrams per liter  
-- = Not Measured

**Table 3**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Former Chevron Service Station #9-4612  
3616 San Leandro Street  
Oakland, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	
VH-1	02/05/01	<500	<50	160	<2.0	<2.0	<2.0	
	05/07/01	--	--	110	--	--	--	
	08/06/01	--	--	140	--	--	--	
	11/12/01	--	--	61	--	--	--	
	02/11/02	--	--	52	--	--	--	
	05/13/02	--	--	80	--	--	--	
	08/09/02	--	--	89	--	--	--	
	11/07/02	--	--	50	--	--	--	
	02/04/03	--	--	53	--	--	--	
	05/05/03	--	--	62	--	--	--	
	09/06/03	--	--	59	--	--	--	
	11/14/03	--	--	47	--	--	--	
	02/13/04	--	--	47	--	--	--	
	05/13/04	--	--	74	--	--	--	
	08/17/04	--	--	58	--	--	--	
	11/10/04	INACCESSIBLE	--	--	--	--	--	--
	02/08/05	--	--	48	--	--	--	--
	06/03/05	--	--	45	--	--	--	--
	08/05/05	--	--	46	--	--	--	--
	12/02/05	--	--	57	--	--	--	--
	03/03/06	--	--	40	--	--	--	--
	05/31/06	--	--	34	--	--	--	--
	08/18/06	--	--	33	--	--	--	--
	11/17/06	--	--	33	--	--	--	--
	02/09/07	--	--	28	--	--	--	--
	05/11/07	--	--	26	--	--	--	--
	08/10/07	--	--	21	--	--	--	--
	11/08/07	--	--	18	--	--	--	--
	02/07/08	--	--	14	--	--	--	--
	05/02/08	--	--	17	--	--	--	--
	07/31/08	--	--	14	--	--	--	--
	11/13/08	--	--	12	--	--	--	--
<b>02/02/09</b>	--	--	<b>12</b>	--	--	--	--	



**Table 3**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Former Chevron Service Station #9-4612  
3616 San Leandro Street  
Oakland, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-2	02/05/01	<500	<50	140	<2.0	<2.0	<2.0
	05/07/01	--	--	88	--	--	--
	08/06/01	--	--	110	--	--	--
	11/12/01	--	--	98	--	--	--
	02/11/02	--	--	86	--	--	--
	05/13/02	--	--	47	--	--	--
	08/09/02	--	--	69	--	--	--
	11/07/02	--	--	69	--	--	--
	02/04/03	--	--	55	--	--	--
	05/05/03	--	--	31	--	--	--
	09/06/03	--	--	54	--	--	--
	11/14/03	--	--	55	--	--	--
	02/13/04	--	--	31	--	--	--
	05/13/04	--	--	34	--	--	--
	08/17/04	--	--	46	--	--	--
	11/10/04	--	--	37	--	--	--
	02/08/05	--	--	22	--	--	--
	06/03/05	--	--	23	--	--	--
	08/05/05	--	--	23	--	--	--
	12/02/05	--	--	24	--	--	--
	03/03/06	--	--	9	--	--	--
	05/31/06	--	--	8	--	--	--
	08/18/06	--	--	14	--	--	--
	11/17/06	--	--	14	--	--	--
	02/09/07	--	--	9	--	--	--
	05/11/07	--	--	8	--	--	--
	08/10/07	--	--	9	--	--	--
	11/08/07	--	--	7	--	--	--
	02/07/08	--	--	5	--	--	--
	05/02/08	--	--	4	--	--	--
	07/31/08	--	--	5	--	--	--
	11/13/08	--	--	4	--	--	--
	02/02/09	--	--	5	--	--	--

**Table 3**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Former Chevron Service Station #9-4612  
3616 San Leandro Street  
Oakland, California

<b>WELL ID</b>	<b>DATE</b>	<b>ETHANOL (µg/L)</b>	<b>TBA (µg/L)</b>	<b>MTBE (µg/L)</b>	<b>DIPE (µg/L)</b>	<b>ETBE (µg/L)</b>	<b>TAME (µg/L)</b>
<b>MW-3</b>	02/05/01	<500	<50	70	<2.0	<2.0	<2.0
	05/07/01	--	--	49	--	--	--
	08/06/01	--	--	43	--	--	--
	11/12/01	--	--	46	--	--	--
	02/11/02	--	--	42	--	--	--
	05/13/02	--	--	32	--	--	--
	08/09/02	--	--	33	--	--	--
	11/07/02	--	--	37	--	--	--
	02/04/03	--	--	24	--	--	--
	05/05/03	--	--	19	--	--	--
	09/06/03	--	--	28	--	--	--
	11/14/03	--	--	30	--	--	--
	02/13/04	--	--	21	--	--	--
	05/13/04	--	--	20	--	--	--
	08/17/04	--	--	25	--	--	--
	11/10/04	--	--	27	--	--	--
	02/08/05	--	--	11	--	--	--
	06/03/05	--	--	9	--	--	--
	08/05/05	--	--	9	--	--	--
	12/02/05	--	--	7	--	--	--
	03/03/06	--	--	4	--	--	--
	05/31/06	--	--	4	--	--	--
	08/18/06	--	--	6	--	--	--
	11/17/06	--	--	4	--	--	--
	02/09/07	--	--	3	--	--	--
	05/11/07	--	--	2	--	--	--
	08/10/07	--	--	2	--	--	--
	11/08/07	--	--	<0.5	--	--	--
	02/07/08	--	--	0.7	--	--	--
	05/02/08	--	--	2	--	--	--
	07/31/08	--	--	1	--	--	--
	11/13/08	--	--	2	--	--	--
	<b>02/02/09</b>	--	--	<b>2</b>	--	--	--

**Table 3**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Former Chevron Service Station #9-4612  
3616 San Leandro Street  
Oakland, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-4	05/07/01	--	--	<2.0	--	--	--
	08/06/01	--	--	<2.0	--	--	--
	11/12/01	--	--	<2	--	--	--
	02/11/02	--	--	<2	--	--	--
	05/13/02	--	--	<2	--	--	--
	08/09/02	--	--	<2	--	--	--
	11/07/02	--	--	<2	--	--	--
	02/04/03	--	--	<0.5	--	--	--
	05/05/03	--	--	<0.5	--	--	--
	09/06/03	--	--	<0.5	--	--	--
	11/14/03	--	--	<0.5	--	--	--
	02/13/04	--	--	<0.5	--	--	--
	05/13/04	--	--	<0.5	--	--	--
	08/17/04	--	--	<0.5	--	--	--
	11/10/04	--	--	<0.5	--	--	--
	02/08/05	--	--	<0.5	--	--	--
	06/03/05	--	--	<0.5	--	--	--
	08/05/05	--	--	<0.5	--	--	--
	12/02/05	--	--	<0.5	--	--	--
	03/03/06	--	--	<0.5	--	--	--
	05/31/06	--	--	<0.5	--	--	--
	08/18/06	--	--	<0.5	--	--	--
	11/17/06	--	--	<0.5	--	--	--
	02/09/07	--	--	<0.5	--	--	--
	05/11/07	--	--	<0.5	--	--	--
	08/10/07	--	--	<0.5	--	--	--
	11/08/07	--	--	1	--	--	--
	02/07/08	--	--	<0.5	--	--	--
	05/02/08	--	--	<0.5	--	--	--
	07/31/08	--	--	<0.5	--	--	--
	11/13/08	--	--	<0.5	--	--	--
	02/02/09	--	--	<0.5	--	--	--

**Table 3**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Former Chevron Service Station #9-4612  
3616 San Leandro Street  
Oakland, California

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**EXPLANATIONS:**

TBA = t-Butyl alcohol  
MTBE = Methyl Tertiary Butyl Ether  
DIPE = di-Isopropyl ether  
ETBE = Ethyl t-butyl ether  
TAME = t-Amyl methyl ether  
( $\mu\text{g/L}$ ) = Micrograms per liter  
-- = Not Analyzed

**ANALYTICAL METHOD:**

EPA Method 8260 for Oxygenate Compounds

## STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Environmental Management Company, the purge water and decontamination water generated during sampling activities is transported by IWM to Chemical Waste Management located in Kettleman Hills, California.



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-4612 Job Number: 386473  
 Site Address: 3616 San Leandro Street Event Date: 2-2-09 (inclusive)  
 City: Oakland, CA Sampler: SH

Well ID: VH-1  
 Well Diameter: 21 1/2 in.  
 Total Depth: 28.47 ft.  
 Depth to Water: 9.91 ft.

Date Monitored: 2-2-09

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

18.56 xVF 1.06 = 12.25 x3 case volume = Estimated Purge Volume: 37 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

### Purge Equipment:

~~Disposable Bailer~~ \_\_\_\_\_  
~~Stainless Steel Bailer~~ \_\_\_\_\_  
~~Stack Pump~~ \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer X \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Water Removed: \_\_\_\_\_  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): N/A Weather Conditions: Clear  
 Sample Time/Date: 1230 / 2-2-09 Water Color: Clear Odor: PTN Strong  
 Approx. Flow Rate: \_\_\_\_\_ gpm. Sediment Description: Clear 1/4"  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 9.91

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - 25)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>VH-1</u>	<u>1</u> x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)
	x 500ml ambers	YES	NP	LANCASTER	TPH-D (8015)

COMMENTS: Well in restroom, unable to pump well. No purge sample taken

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-4612 Job Number: 386473  
 Site Address: 3616 San Leandro Street Event Date: 2-2-09 (inclusive)  
 City: Oakland, CA Sampler: SH

Well ID: MW-2 Date Monitored: 2-2-09  
 Well Diameter: 2 1/4 in.  
 Total Depth: 19.36 ft.  
 Depth to Water: 9.97 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.  
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.85  
 xVF 1.17 = 1.59 x3 case volume = Estimated Purge Volume: 5 gal.

**Purge Equipment:**  
 Disposable Bailer X  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer X  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Water Removed: \_\_\_\_\_  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1137 Weather Conditions: Clear  
 Sample Time/Date: 1205 / 2-2-09 Water Color: Cloudy Odor: Y 1 (N)  
 Approx. Flow Rate: \_\_\_\_\_ gpm. Sediment Description: 1.9 ft  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 1132

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - IS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1141</u>	<u>1.5</u>	<u>7.39</u>	<u>709</u>	<u>20.2</u>		
<u>1145</u>	<u>3</u>	<u>7.24</u>	<u>713</u>	<u>19.8</u>		
<u>1150</u>	<u>5</u>	<u>7.27</u>	<u>719</u>	<u>19.6</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8260)
	x 500ml ambers	YES	NP	LANCASTER	TPH-D (8015)

COMMENTS: \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-4612 Job Number: 386473  
 Site Address: 3616 San Leandro Street Event Date: 2-2-09 (inclusive)  
 City: Oakland, CA Sampler: SH

Well ID: MW-3  
 Well Diameter: 2.24 in.  
 Total Depth: 18.03 ft.  
 Depth to Water: 9.58 ft.

Date Monitored: 2-2-09

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

8.45 xVF 1.7 = 1.44 x3 case volume = Estimated Purge Volume: 4.5 gal.  
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.27

### Purge Equipment:

Disposable Bailer X  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer X  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Water Removed: \_\_\_\_\_  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 10:39 Weather Conditions: Clear  
 Sample Time/Date: 11:10 / 2-2-09 Water Color: Cloudy Odor: (X) N Strong  
 Approx. Flow Rate: \_\_\_\_\_ gpm. Sediment Description: light  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 10.13

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>10:44</u>	<u>1.5</u>	<u>7.63</u>	<u>647</u>	<u>21.2</u>		
<u>10:49</u>	<u>3</u>	<u>7.57</u>	<u>642</u>	<u>20.1</u>		
<u>10:53</u>	<u>4.5</u>	<u>7.29</u>	<u>639</u>	<u>16.8</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>2 x 500ml amber</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTX+MTBE(8260)</u>
		<u>YES</u>	<u>NP</u>	<u>LANCASTER</u>	<u>TPH-D (8015)</u>

### COMMENTS:

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_





# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-4612 Job Number: 386473  
 Site Address: 3616 San Leandro Street Event Date: 2-2-09 (inclusive)  
 City: Oakland, CA Sampler: JH

Well ID: MW-4 Date Monitored: 2-2-09  
 Well Diameter: (2) 4 in.  
 Total Depth: 17.85 ft.  
 Depth to Water: 9.02 ft.  Check if water column is less than 0.50 ft.  
8.83 xVF .17 = 1.50 x3 case volume = Estimated Purge Volume: 4.5 gal.  
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.79

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

### Purge Equipment:

Disposable Bailer   
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Water Removed: \_\_\_\_\_  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 0943 Weather Conditions: Clear  
 Sample Time/Date: 1010 2-2-09 Water Color: Cloudy Odor: Y N  
 Approx. Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 9.35

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm µS)	Temperature (C F)	D.O. (mg/L)	ORP (mV)
<u>0949</u>	<u>1.5</u>	<u>7.63</u>	<u>552</u>	<u>19.7</u>	_____	_____
<u>0954</u>	<u>3</u>	<u>7.52</u>	<u>547</u>	<u>19.3</u>	_____	_____
<u>0959</u>	<u>4.5</u>	<u>7.47</u>	<u>539</u>	<u>19.1</u>	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>2 x 500ml ambers</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTX+MTBE(8260)</u>
		<u>YES</u>	<u>NP</u>	<u>LANCASTER</u>	<u>TPH-D (8015)</u>

### COMMENTS:

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_





# Analysis Report

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

## ANALYTICAL RESULTS

RECEIVED

Prepared for:

Chevron c/o CRA  
Suite 110  
2000 Opportunity Dr  
Roseville CA 95678

FEB 17 2009

GETTLER-RYAN INC.  
GENERAL CONTRACTORS

916-677-3407

Prepared by:

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

## SAMPLE GROUP

The sample group for this submittal is 1130922. Samples arrived at the laboratory on Thursday, February 05, 2009. The PO# for this group is 94612 and the release number is MTI.

<u>Client Description</u>	<u>Lancaster Labs Number</u>
QA-T-090202 NA Water	5593000
VH-1-W-090202 Grab Water	5593001
MW-2-W-090202 Grab Water	5593002
MW-3-W-090202 Grab Water	5593003
MW-4-W-090202 Grab Water	5593004

ELECTRONIC      Gettler-Ryan, Inc.  
COPY TO

Attn: Cheryl Hansen



## **Analysis Report**

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

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

Respectfully Submitted,

*Martha L Seidel*

Martha L. Seidel  
Senior Chemist

Lancaster Laboratories Sample No. **WW5593000**

Group No. **1130922**

QA-T-090202 NA Water  
 Facility# 94612 Job# 386473 MTI# 61H-1996 GRD  
 3616 San Leandro-Oakland T0600100333 QA  
 Collected: 02/02/2009

Account Number: 12099

Submitted: 02/05/2009 09:10  
 Reported: 02/16/2009 at 17:20  
 Discard: 03/19/2009

Chevron c/o CRA  
 Suite 110  
 2000 Opportunity Drive  
 Roseville CA 95678

QASLO

CAT No.	Analysis Name	CAS Number	As Received	As Received	Units	Dilution Factor
			Result	Method Detection Limit		
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	ug/l	1
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

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

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	02/06/2009 23:58	Katrina T Longenecker	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	02/10/2009 02:43	Kelly E Brickley	1
01146	GC VOA Water Prep	SW-846 5030B	1	02/06/2009 23:58	Katrina T Longenecker	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	02/10/2009 02:43	Kelly E Brickley	1

**Lancaster Laboratories Sample No. WW5593001**
**Group No. 1130922**
**VH-1-W-090202 Grab Water**
**Facility# 94612 Job# 386473 MTI# 61H-1996 GRD**
**3616 San Leandro-Oakland T0600100333 VH-1**

Collected: 02/02/2009 12:30 by SH

Account Number: 12099

Submitted: 02/05/2009 09:10

Reported: 02/16/2009 at 17:20

Discard: 03/19/2009

Chevron c/o CRA

Suite 110

2000 Opportunity Drive

Roseville CA 95678

SLVH1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01728	TPH-GRO N. CA water C6-C12	n.a.	4,000		50	ug/l	1
06054	BTEX+MTBE by 8260B						
02010	Methyl Tertiary Butyl Ether	1634-04-4	12		0.5	ug/l	1
05401	Benzene	71-43-2	7		0.5	ug/l	1
05407	Toluene	108-88-3	1		0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.		0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	1		0.5	ug/l	1

State of California Lab Certification No. 2116

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

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	02/08/2009 21:44	Katrina T Longenecker	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	02/10/2009 03:10	Kelly E Brickley	1
01146	GC VOA Water Prep	SW-846 5030B	1	02/08/2009 21:44	Katrina T Longenecker	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	02/10/2009 03:10	Kelly E Brickley	1

Lancaster Laboratories Sample No. **WW5593002**

Group No. **1130922**

**MW-2-W-090202 Grab Water**

Facility# **94612** Job# **386473** MTI# **61H-1996 GRD**

**3616 San Leandro-Oakland T0600100333 MW-2**

Collected: 02/02/2009 12:05 by SH

Account Number: 12099

Submitted: 02/05/2009 09:10

Reported: 02/16/2009 at 17:20

Discard: 03/19/2009

Chevron c/o CRA

Suite 110

2000 Opportunity Drive

Roseville CA 95678

SLMW2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01728	TPH-GRO N. CA water C6-C12	n.a.	3,500		250	ug/l	5
06054	BTEX+MTBE by 8260B						
02010	Methyl Tertiary Butyl Ether	1634-04-4	5		0.5	ug/l	1
05401	Benzene	71-43-2	2		0.5	ug/l	1
05407	Toluene	108-88-3	0.6		0.5	ug/l	1
05415	Ethylbenzene	100-41-4	2		0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	1		0.5	ug/l	1

State of California Lab Certification No. 2116

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

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	02/08/2009 22:06	Katrina T Longenecker	5
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	02/10/2009 03:37	Kelly E Brickley	1
01146	GC VOA Water Prep	SW-846 5030B	1	02/08/2009 22:06	Katrina T Longenecker	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	02/10/2009 03:37	Kelly E Brickley	1

**Lancaster Laboratories Sample No. WW5593003**
**Group No. 1130922**
**MW-3-W-090202 Grab Water**
**Facility# 94612 Job# 386473 MTI# 61H-1996 GRD**
**3616 San Leandro-Oakland T0600100333 MW-3**

Collected: 02/02/2009 11:10 by SH

Account Number: 12099

Submitted: 02/05/2009 09:10

Reported: 02/16/2009 at 17:20

Discard: 03/19/2009

Chevron c/o CRA

Suite 110

2000 Opportunity Drive

Roseville CA 95678

SLMW3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
06609	TPH-DRO CA C10-C28	n.a.	310		50	ug/l	1
	The LCS/LCSD recovery for the DRO analysis is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.						
01728	TPH-GRO N. CA water C6-C12	n.a.	2,000		50	ug/l	1
06054	BTEX+MTBE by 8260B						
02010	Methyl Tertiary Butyl Ether	1634-04-4	2		0.5	ug/l	1
05401	Benzene	71-43-2	N.D.		0.5	ug/l	1
05407	Toluene	108-88-3	N.D.		0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.		0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.		0.5	ug/l	1

State of California Lab Certification No. 2116

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

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	02/09/2009 14:03	Diane V Do	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	02/07/2009 05:47	Katrina T Longenecker	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	02/10/2009 04:04	Kelly E Brickley	1
01146	GC VOA Water Prep	SW-846 5030B	1	02/07/2009 05:47	Katrina T Longenecker	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	02/10/2009 04:04	Kelly E Brickley	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	02/07/2009 03:15	Sherry L Morrow	1



Lancaster Laboratories Sample No. **WW5593004**

Group No. **1130922**

**MW-4-W-090202 Grab Water**  
**Facility# 94612 Job# 386473 MTI# 61H-1996 GRD**  
**3616 San Leandro-Oakland T0600100333 MW-4**  
 Collected: 02/02/2009 10:20 by SH

Account Number: 12099

Submitted: 02/05/2009 09:10  
 Reported: 02/16/2009 at 17:20  
 Discard: 03/19/2009

Chevron c/o CRA  
 Suite 110  
 2000 Opportunity Drive  
 Roseville CA 95678

SLMW4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	Detection Limit 50	ug/l	1
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

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

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	02/07/2009 06:08	Katrina T Longenecker	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	02/10/2009 04:30	Kelly E Brickley	1
01146	GC VOA Water Prep	SW-846 5030B	1	02/07/2009 06:08	Katrina T Longenecker	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	02/10/2009 04:30	Kelly E Brickley	1

## Quality Control Summary

 Client Name: Chevron c/o CRA  
 Reported: 02/16/09 at 05:20 PM

Group Number: 1130922

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>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: 090370012A TPH-DRO CA C10-C28	N.D.	32.	ug/l	55*	56*	63-119	2	20
Batch number: 09037B20A TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	109	100	75-135	9	30
Batch number: 09037B20B TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	109	100	75-135	9	30
Batch number: P090403AA Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	92	91	73-119	1	30
Benzene	N.D.	0.5	ug/l	88	87	78-119	1	30
Toluene	N.D.	0.5	ug/l	88	87	85-115	1	30
Ethylbenzene	N.D.	0.5	ug/l	87	85	82-119	3	30
Xylene (Total)	N.D.	0.5	ug/l	88	87	83-113	1	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: 09037B20A TPH-GRO N. CA water C6-C12	123	123	63-154				UNSPK: P592836		
Batch number: 09037B20B TPH-GRO N. CA water C6-C12	123	123	63-154				UNSPK: P592836		
Batch number: P090403AA Methyl Tertiary Butyl Ether	89	89	69-127				UNSPK: P592966		
Benzene	90	90	83-128						
Toluene	91	91	83-127						
Ethylbenzene	88	88	82-129						
Xylene (Total)	87	87	82-130						

### 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.

\*- Outside of specification

- (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 c/o CRA  
Reported: 02/16/09 at 05:20 PM

Group Number: 1130922

### Surrogate Quality Control

Analysis Name: TPH-DRO CA C10-C28  
Batch number: 090370012A  
Orthoterphenyl

5593003	68
Blank	83
LCS	78
LCSD	81

Limits: 59-131

Analysis Name: TPH-GRO N. CA water C6-C12  
Batch number: 09037B20A  
Trifluorotoluene-F

5593000	98
5593003	145*
5593004	99
Blank	98
LCS	127
LCSD	125
MS	126

Limits: 63-135

Analysis Name: TPH-GRO N. CA water C6-C12  
Batch number: 09037B20B  
Trifluorotoluene-F

5593001	161*
5593002	122
Blank	98
LCS	127
LCSD	125
MS	126

Limits: 63-135

Analysis Name: BTEX+MTBE by 8260B  
Batch number: P090403AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5593000	89	89	87	84
5593001	89	90	87	85
5593002	89	88	87	88
5593003	89	89	87	90
5593004	89	89	87	84
Blank	89	89	88	84
LCS	89	91	88	84
LCSD	89	90	87	84
MS	89	92	87	85

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

**\*- Outside of specification**

- (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:

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

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

### Inorganic Qualifiers

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