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2:55 pm, Mar 12, 2010

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 12, 2010
(date)

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

Re: Chevron Facility # 9-0517

Address: 3900 Piedmont Avenue, Oakland, California

I have reviewed the attached report titled First Semi-Annual 2010 Groundwater Monitoring Report and dated March 12, 2010.

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



March 12, 2010

Reference No. 611995

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

Re: First Semi-Annual 2010 Groundwater Monitoring Report
Former Chevron Service Station No. 9-0517
3900 Piedmont Avenue
Oakland, California
LOP Case #RO0000138

Dear Mr. Detterman:

Conestoga-Rovers & Associates (CRA) is submitting the attached *Groundwater Monitoring and Sampling Report* (report) on behalf of Chevron Environmental Management Company (Chevron) for the site referenced above (Figure 1). The report (prepared by Gettler-Ryan Inc. and dated February 23, 2010) presents the results of the sampling of wells MW-3 through MW-4 during first quarter 2010.

These wells are gauged and sampled on a semi-annual basis during the first and third quarters, wells MW-1 and MW-2 are gauged but no longer sampled. Also attached are Figure 1 (Vicinity Map) showing the site location, and Figure 2 (Concentration Map) presenting the first semi-annual 2010 analytical results along with a rose diagram.

Please note that CRA recently prepared and submitted to Alameda County Environmental Health (ACEH) a *Work Plan Addendum*, dated March 3, 2010, that requested changing the locations of two previously proposed exploratory borings outlined in the July 16, 2009 *Work Plan for Additional Site Investigation* to further evaluate the extent of impacted groundwater. The updated proposed boring locations are shown on Figure 2. We are currently awaiting ACEH concurrence to implement the work.



**CONESTOGA-ROVERS
& ASSOCIATES**

March 12, 2010

Reference No. 611995

- 2 -

Please contact Mr. James Kiernan at (916) 889-8917 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

A handwritten signature in blue ink, appearing to read 'Chris Benedict', written in a cursive style.

Christopher J. Benedict

A handwritten signature in blue ink, appearing to read 'James Kiernan', written in a cursive style.

James P. Kiernan, P.E. #C68498



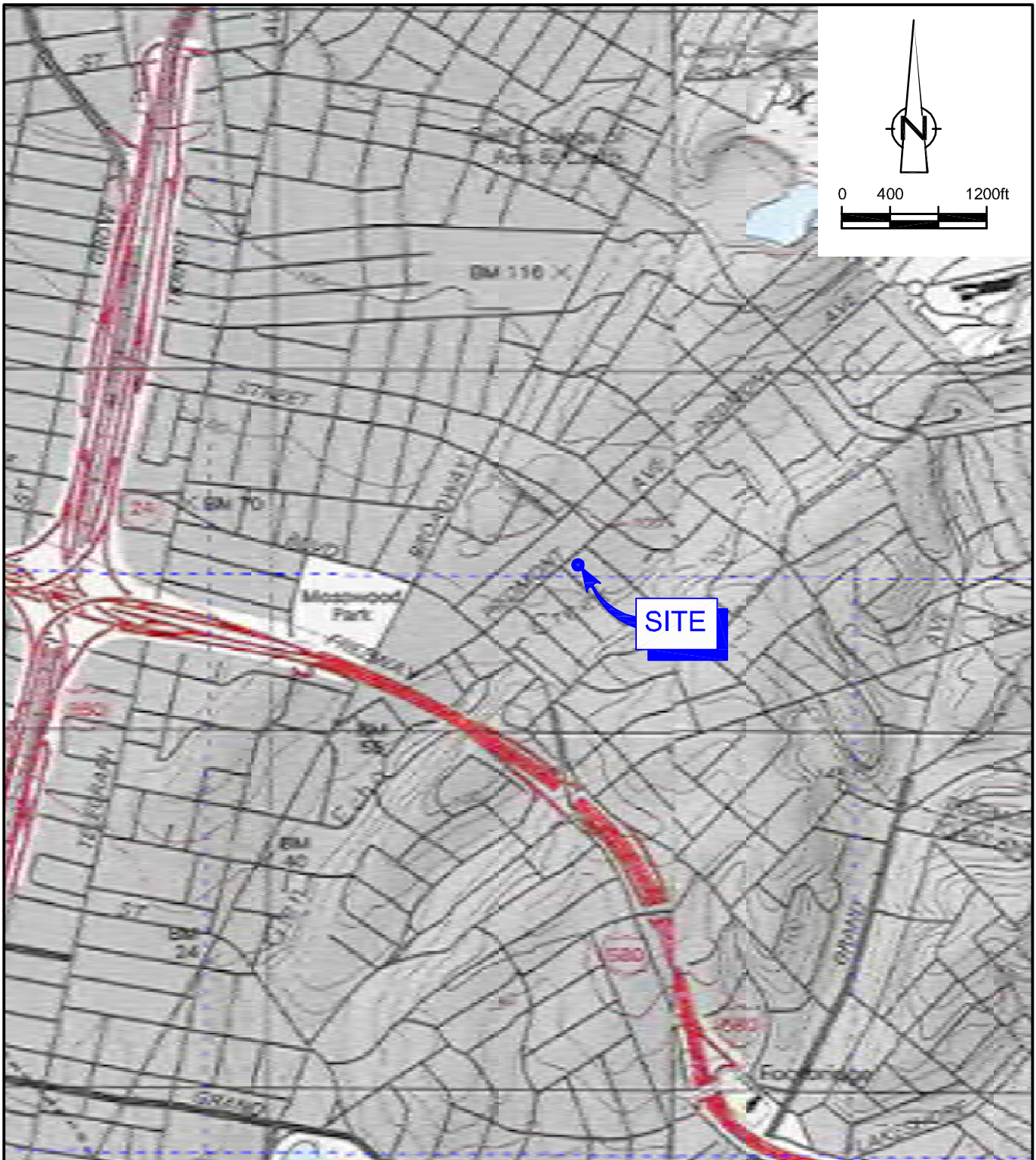
CB/jt/7
Encl.

Figure 1 Vicinity Map
Figure 2 Concentration Map - January 29, 2010

Attachment A First Semi-Annual 2010 Groundwater Monitoring and Sampling Report

cc: Ms. Stacie Frerichs, Chevron
Mr. Neil B. and Mrs. Diane C. Goodhue

FIGURES



SOURCE: TOPO! MAPS.

figure 1
 VICINITY MAP
 FORMER CHEVRON SERVICE 9-0517
 3900 PIEDMONT AVENUE
 Oakland, California



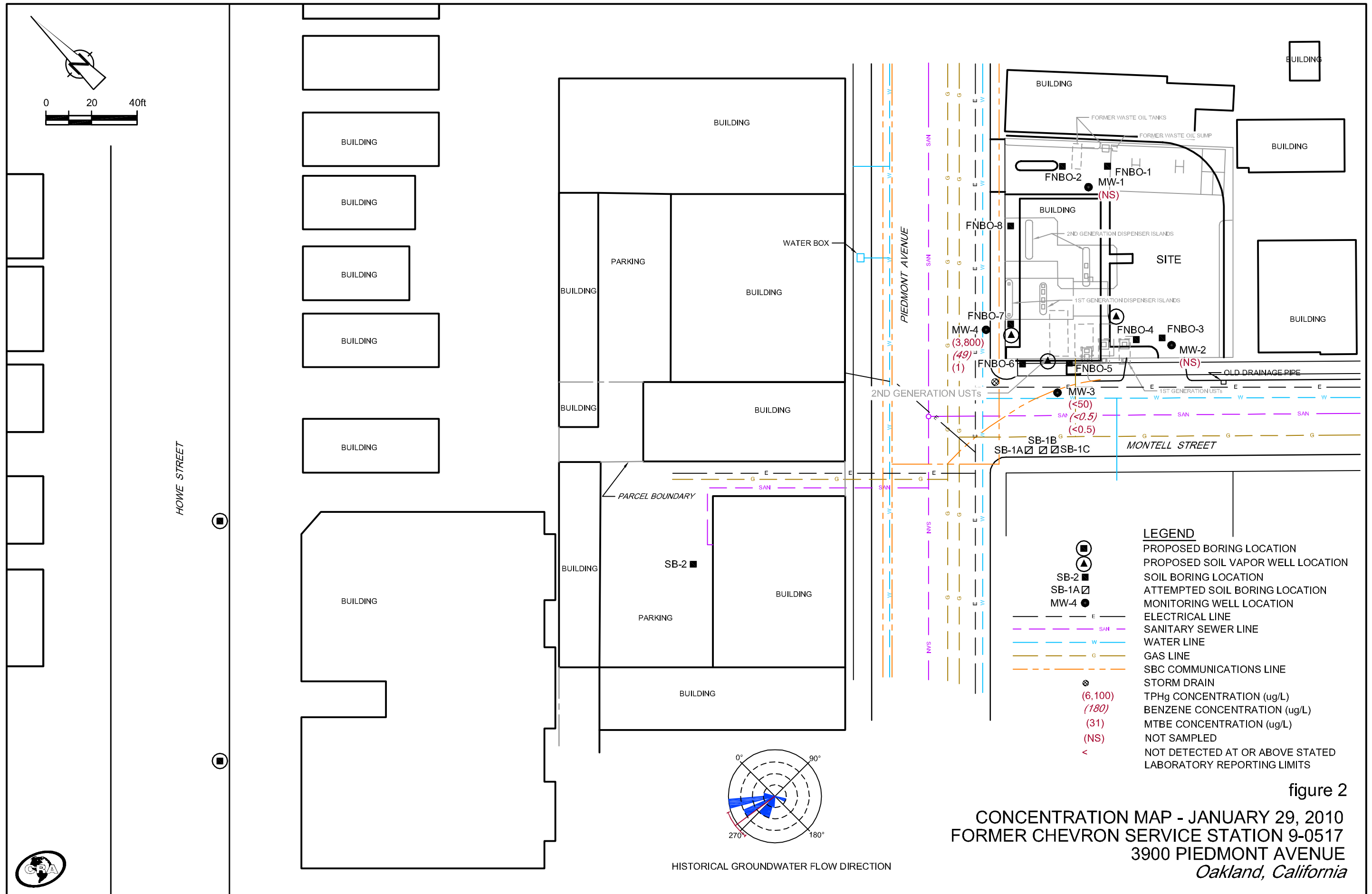


figure 2

CONCENTRATION MAP - JANUARY 29, 2010
 FORMER CHEVRON SERVICE STATION 9-0517
 3900 PIEDMONT AVENUE
 Oakland, California

ATTACHMENT A

FIRST SEMI-ANNUAL 2010 GROUNDWATER MONITORING AND SAMPLING REPORT



GETTLER-RYAN INC.



TRANSMITTAL

CRA
MAR 02 2010
Received

March 1, 2010
G-R #386420

TO: Mr. James Kiernan
Conestoga-Rovers & Associates
10969 Trade Center Dr, Suite 107
Rancho Cordova, CA 95670

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

RE: **Former Chevron Service Station
#9-0517 (MTI)
3900 Piedmont Avenue
Oakland, California
RO 0000138**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
2	February 23, 2010	Groundwater Monitoring and Sampling Report First Semi-Annual Event of January 29, 2010

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 Environmental Management Company, 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 15, 2010**, at which time this final report will be distributed to the following:

cc: Mr. Mark Detterman, 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.)
Mr. Neil B. Goodhue and Mrs. Diane C. Goodhue, 300 Hillside Avenue, Piedmont, CA 94611

Enclosures

trans/9-0517-SHF



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 1, 2010
(date)

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

Re: Chevron Facility # 9-0517

Address: 3900 Piedmont Ave., Oakland, California

I have reviewed the attached routine groundwater monitoring report dated March 1, 2010.

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

WELL CONDITION STATUS SHEET

Client/Facility #: Chevron #9-0517
 Site Address: 3900 Piedmont Avenue
 City: Oakland, CA

Job #: 386420
 Event Date: 1-29-10
 Sampler: Joe

WELL ID	Vault Frame Condition	Gasket/O-Ring (M)missing	BOLTS (M) Missing (R) Replaced	Bolt Flanges B= Broken S= Stripped R=Retap	APRON Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Yes / No
mw-1	O.K	M	O.K	O.K	O.K	O.K	O.K	N	N	8" Bostit-L / 3	No
mw-2	↓	M	(1) of (3) broken inside flange	↓	↓	↓	TOC extends too far.	↓	↓	"	↓
mw-3	↓	M	O.K	↓	↓	↓	O.K	↓	↓	"	↓
mw-d	↓	O.K	O.K	↓	↓	↓	O.K	↓	↓	6" Morrison / 2	↓

Comments _____



GETTLER - RYAN Inc.

February 23, 2010
G-R Job #386420

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

RE: First Semi-Annual Event of January 29, 2010
Groundwater Monitoring & Sampling Report
Former Chevron Service Station #9-0517
3900 Piedmont Avenue
Oakland, California

Dear Ms. 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

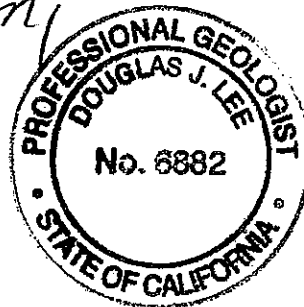
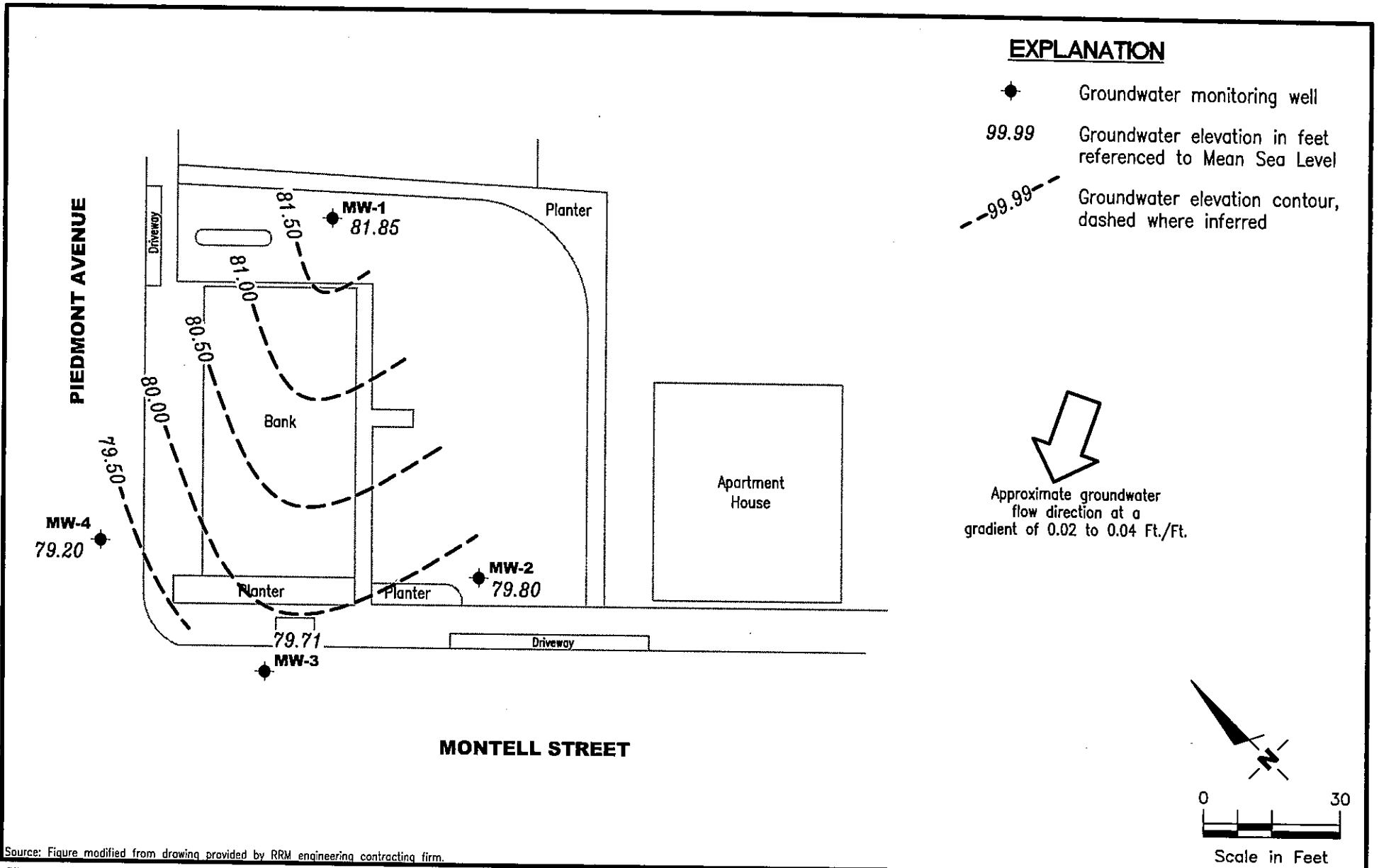


Figure 1: Potentiometric Map
Table 1: Groundwater Monitoring Data and Analytical Results
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports



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 #9-0517
 3900 Piedmont Avenue
 Oakland, California

FIGURE
1

PROJECT NUMBER
 386420

REVIEWED BY

DATE
 January 29, 2010

REVISED DATE

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-0517
3900 Piedmont Avenue
Oakland, California

WELL ID/ DATE	TOC* (%)	GWE (msl)	DTW (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-1									
08/03/98	87.89	75.46	12.43	<50	<0.5	<0.5	<0.5	<0.5	<2.5
11/23/98	87.89	78.84	9.05	<50	<0.5	<0.5	<0.5	<0.5	<2.0
02/08/99	87.89	81.39	6.50	<50	<0.5	<0.5	<0.5	<0.5	<2.5
05/07/99	87.89	80.76	7.13	<50	<0.5	<0.5	<0.5	<0.5	<5.0
08/23/99	87.89	78.74	9.15	<50	<0.5	<0.5	<0.5	<0.5	<2.5
11/03/99	87.89	78.35	9.54	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/15/00	87.89	81.99	5.90	<50	<0.5	<0.5	<0.5	<0.5	<5.0
05/12/00 ³	87.89	80.84	7.05	<50	<0.50	<0.50	<0.50	<0.50	<2.5
07/31/00	87.89	79.49	8.40	<50	<0.50	<0.50	<0.50	<0.50	<2.5
10/30/00	87.89	79.24	8.65	<50.0	<0.500	<0.500	<0.500	<1.50	<2.50
02/27/01	87.89	82.06	5.83	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
05/15/01	87.89	80.18	7.71	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
08/23/01	87.89	DRY	--	--	--	--	--	--	--
02/25/02	87.89	81.18	6.71	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/05/02	87.89	79.00	8.89	<50	<0.50	<0.50	<0.50	<1.5	<2.5
02/11/03	87.89	80.53	7.36	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/09/03 ⁵	87.89	78.42	9.47	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/25/04 ⁵	87.89	81.59	6.30	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/23/04 ⁵	87.89	77.77	10.12	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/11/05 ⁵	87.89	81.10	6.79	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/15/05 ⁵	87.89	79.00	8.89	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/10/06 ⁵	87.89	81.24	6.65	<50	1	<0.5	<0.5	<0.5	<0.5
08/02/06 ⁵	87.89	80.16	7.73	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/09/07 ⁵	87.89	80.12	7.77	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/23/07 ⁵	87.89	78.30	9.59	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/18/08 ⁵	87.89	80.48	7.41	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/12/08 ⁵	87.89	78.11	9.78	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/19/09 ⁵	87.89	82.28	5.61	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/07/09	87.89	77.67	10.22	--	--	--	--	--	--
01/29/10	87.89	81.85	6.04	--	--	--	--	--	--
MW-2									
08/03/98	86.09	74.75	11.34	<50	<0.5	<0.5	<0.5	<0.5	3.4
11/23/98	86.09	79.19	6.90	<50	<0.5	<0.5	<0.5	<0.5	<2.0
02/08/99	86.09	80.86	5.23	<50	<0.5	<0.5	<0.5	<0.5	<2.5

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-0517
3900 Piedmont Avenue
Oakland, California

WELL ID/ DATE	TOC* (fL)	GWE (msl)	DTW (fL)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-2 (cont)									
05/07/99	86.09	79.97	6.12	<50	<0.5	<0.5	<0.5	<0.5	<5.0
08/23/99	86.09	79.68	6.41	<50	<0.5	<0.5	<0.5	<0.5	<2.5
11/03/99	86.09	78.80	7.29	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/15/00	86.09	81.60	4.49	<50	<0.5	<0.5	<0.5	<0.5	<5.0
05/12/00	86.09	80.19	5.90	4,000 ³	240	26	100	76	<100
07/31/00	86.09	79.51	6.58	<50	<0.50	<0.50	<0.50	<0.50	<2.5
10/30/00	86.09	79.86	6.23	<50.0	<0.500	2.92	<0.500	1.88	4.89
02/27/01	86.09	81.49	4.60	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
05/15/01	86.09	79.79	6.30	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
08/23/01	86.09	78.81	7.28	<50	<0.50	<0.50	<0.50	<0.50	<2.5
02/25/02	86.09	80.48	5.61	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/05/02	86.09	78.99	7.10	<50	<0.50	<0.50	<0.50	<1.5	<2.5
02/11/03	86.09	78.64	7.45	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/09/03 ⁵	86.09	78.44	7.65	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/25/04 ⁵	86.09	81.24	4.85	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/23/04 ⁵	86.09	77.86	8.23	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/11/05 ⁵	86.09	80.16	5.93	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/15/05 ⁵	86.09	78.50	7.59	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/10/06 ⁵	86.09	80.36	5.73	<50	0.6	<0.5	<0.5	<0.5	<0.5
08/02/06 ⁵	86.09	79.14	6.95	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/09/07 ⁵	86.09	79.80	6.29	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/23/07 ⁵	86.09	78.69	7.40	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/18/08 ⁵	86.09	79.62	6.47	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/12/08 ⁵	86.09	79.01	7.08	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/19/09 ⁵	86.09	79.59	6.50	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/07/09	86.09	77.58	8.51	--	--	--	--	--	--
01/29/10	86.09	79.80	6.29	--	--	--	--	--	--
MW-3									
08/03/98	86.28	74.20	12.08	4000	160	<5.0	<5.0	73	180
11/23/98	86.28	78.59	7.69	4000	67.7	7.56	17.1	24.5	41.2
02/08/99	86.28	80.01	6.27	<50	<0.5	<0.5	<0.5	<0.5	<2.5
05/07/99	86.28	79.32	6.96	1800	53.6	8.96	33	18.6	21.4
08/23/99	86.28	78.36	7.92	3970	155	24	88.8	39.8	185
11/03/99	86.28	78.36	7.92	3320	108	19.9	98.4	44.8	<25

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-0517
3900 Piedmont Avenue
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-3 (cont)									
02/15/00	86.28	80.54	5.74	779	26.7	3.82	15.4	4.24	<12.5
05/12/00	86.28	79.52	6.76	12,000 ³	3,100	120	980	1,400	820
07/31/00	86.28	78.98	7.30	1,200 ³	32	<5.0	11	7.3	39
10/30/00	86.28	79.26	7.02	3,300 ⁴	119	<5.00	40.0	<15.0	<25.0
02/27/01	86.28	80.39	5.89	432 ³	15.5	1.53	14.9	1.06	15.7
05/15/01	86.28	79.21	7.07	3,220 ³	96.4	12.6	11.5	11.6	128
08/23/01	86.28	78.23	8.05	2,300	48	<10	<10	<10	100
02/25/02	86.28	79.55	6.73	3,100	27	2.1	4.8	6.6	<2.5
08/05/02	86.28	78.33	7.95	4,100	87	21	90	47	21
02/11/03	86.28	79.23	7.05	3,700	21	2.3	4.4	9.0	<20
08/09/03 ⁵	86.28	78.05	8.23	1,600	12	1	2	4	0.7
02/25/04 ⁵	86.28	80.43	5.85	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/23/04 ⁵	86.28	77.23	9.05	3,000	21	3	3	9	<0.5
02/11/05 ⁵	86.28	79.26	7.02	540	15	1	<0.5	0.8	<0.5
08/15/05 ⁵	86.28	77.87	8.41	2,600	11	1	1	2	<0.5
02/10/06 ⁵	86.28	79.35	6.93	970	20	2	<0.5	3	<0.5
08/02/06 ⁵	86.28	78.28	8.00	1,000	16	1	<0.5	3	<0.5
02/09/07 ⁵	86.28	78.95	7.33	590	3	<0.5	<0.5	0.5	<0.5
08/23/07 ⁵	86.28	77.45	8.83	2,700	18	4	2	8	<0.5
02/18/08 ⁵	86.28	79.01	7.27	1,300	8	1	0.6	1	<0.5
08/12/08 ⁵	86.28	76.70	9.58	2,000	21	3	1	4	<0.5
02/19/09 ⁵	86.28	79.52	6.76	810	<0.5	<0.5	<0.5	1	<0.5
08/07/09 ⁵	86.28	77.11	9.17	900	4	0.9	3	3	<0.5
01/29/10 ⁵	86.28	79.71	6.57	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW-4									
08/03/98	87.22	74.30	12.92	1900	110	12	<0.5	55	130
11/23/98	87.22	77.82	9.40	4080	136	17.8	37.2	30.1	51.8
02/08/99 ¹	87.22	79.40	7.82	2900	150	16	<5.0	15	230/30.7 ²
05/07/99	87.22	79.80	7.42	6050	161	<25	39.8	36.9	<250/30.2 ²
08/23/99	87.22	77.83	9.39	3930	203	37.6	58.6	42.2	255
11/03/99	87.22	77.41	9.81	5350	324	44.7	91.5	56.1	<50
02/15/00	87.22	79.50	7.72	4080	161	27.7	31.1	39.1	73.9
05/12/00	87.22	79.31	7.91	3,600 ³	170	27	49	64	170
07/31/00	87.22	78.57	8.65	2,900 ³	160	20	15	56	170

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-0517
3900 Piedmont Avenue
Oakland, California

WELL ID/ DATE	TOC* (%)	GWE (msl)	DTW (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-4 (cont)									
10/30/00	87.22	78.14	9.08	5,630 ⁴	301	17.8	11.8	51.5	<25.0
02/27/01	87.22	79.92	7.30	2,140 ³	95.1	12.8	53.4	43.0	235
05/15/01	87.22	79.07	8.15	4,580 ³	200	44.1	46.3	51.7	172
08/23/01	87.22	77.89	9.33	2,700	250	44	21	72	130
02/25/02	87.22	79.42	7.80	4,100	100	18	27	39	<10
08/05/02	87.22	80.12	7.10	4,100	130	18	50	20	<10
02/11/03	87.22	79.10	8.12	4,100	100	23	20	51	<50
08/09/03 ⁵	87.22	77.67	9.55	3,700	110	24	10	45	8
02/25/04 ⁵	87.22	79.16	8.06	5,400	94	28	34	49	5
08/23/04 ⁵	87.22	77.03	10.19	5,100	100	26	7	43	5
02/11/05 ⁵	87.22	79.25	7.97	3,900	58	16	25	16	2
08/15/05 ⁵	87.22	78.40	8.82	2,400	76	16	11	26	3
02/10/06 ⁵	87.22	79.41	7.81	1,600	68	16	8	27	4
08/10/06 ⁵	87.22	78.64	8.58	2,500	100	19	5	30	3
02/09/07 ⁵	87.22	78.51	8.71	6,200	200	39	16	52	3
08/23/07 ⁵	87.22	76.84	10.38	5,800	190	48	20	61	3
02/18/08 ⁵	87.22	79.11	8.11	4,900	110	24	11	32	2
08/12/08 ⁵	87.22	76.64	10.58	6,100	180	31	9	52	3
02/19/09 ⁵	87.22	79.50	7.72	2,900	84	20	5	24	2
08/07/09 ⁵	87.22	76.80	10.42	4,900	120	34	11	36	2
01/29/10 ⁵	87.22	79.20	8.02	3,800	49	15	4	17	1
TRIP BLANK									
08/03/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
11/23/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0
02/08/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
05/07/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
08/23/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
11/03/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/15/00	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
05/12/00	--	--	--	<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

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-0517
3900 Piedmont Avenue
Oakland, California

WELL ID/ DATE	TOC* (fl.)	GWE (msl)	DTW (fl.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
TRIP BLANK (cont)									
02/27/01	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
05/15/01	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
08/23/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
QA									
02/25/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/05/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
02/11/03	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
08/09/03 ⁵	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/25/04 ⁵	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/23/04 ⁵	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/11/05 ⁵	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/15/05 ⁵	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/10/06 ⁵	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/02/06 ⁵	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/09/07 ⁵	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/23/07 ⁵	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/18/08 ⁵	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/12/08 ⁵	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/19/09 ⁵	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/07/09 ⁵	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
DISCONTINUED	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-0517
3900 Piedmont Avenue
Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to May 12, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing
(ft.) = Feet

GWE = Groundwater Elevation

(msl) = Mean sea level

DTW = Depth to Water

TPH = Total Petroleum Hydrocarbons

GRO = Gasoline Range Organics

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl Tertiary Butyl Ether

(µg/L) = Micrograms per liter

-- = Not Measured/Not Analyzed

QA = Quality Assurance/Trip Blank

* TOC elevations are referenced to msl.

¹ Chromatogram pattern indicates gas and an unidentified hydrocarbon.

² Confirmation run.

³ Laboratory report indicates gasoline C6-C12.

⁴ Laboratory report indicates hydrocarbon pattern present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.

⁵ BTEX and MTBE by EPA Method 8260.

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. (GR) field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. All work is performed in accordance with the GR Health & Safety Plan and all client-specific programs. The scope of work and type of analysis to be performed is determined prior to commencing field work.

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, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). 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 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, as directed by the scope of work. 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. 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 #9-0517
 Site Address: 3900 Piedmont Avenue
 City: Oakland, CA

Job Number: 386420
 Event Date: 1-29-10 (inclusive)
 Sampler: Jae

Well ID: MW-1
 Well Diameter: 2 in.
 Total Depth: 16.75 ft.
 Depth to Water: 6.04 ft.

Date Monitored: 1-29-10

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.

xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ 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 _____
 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): _____ Weather Conditions: _____
 Sample Time/Date: 1 Water Color: _____ Odor: Y / N
 Approx. Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: _____

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

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)

COMMENTS: MW-0117

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-0517 Job Number: 386420
 Site Address: 3900 Piedmont Avenue Event Date: 1-29-10 (inclusive)
 City: Oakland, CA Sampler: Joe

Well ID: MW-2
 Well Diameter: 2 in.
 Total Depth: 16.60 ft.
 Depth to Water: 6.29 ft.

Date Monitored: 1-29-10

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]: _____
 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

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): _____ Weather Conditions: _____
 Sample Time/Date: _____ / _____ Water Color: _____ Odor: Y / N
 Approx. Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: _____

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

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYRE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTX+MTBE(8260)

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-0517
 Site Address: 3900 Piedmont Avenue
 City: Oakland, CA

Job Number: 386420
 Event Date: 1-29-10 (inclusive)
 Sampler: Joe

Well ID: MW-3
 Well Diameter: 2 in.
 Total Depth: 17.70 ft.
 Depth to Water: 6.57 ft.

Date Monitored: 1-29-10

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]: 8.79
 $11.13 \times VF = 0.17 = 1.89$ x3 case volume = Estimated Purge Volume: 6 gal.

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): 0755
 Sample Time/Date: 0815 11-29-10
 Approx. Flow Rate: _____ gpm.
 Did well de-water? _____ If yes, Time: _____

Weather Conditions: Foggy
 Water Color: clear Odor: Y10
 Sediment Description: _____
 Volume: _____ gal. DTW @ Sampling: 7.15

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - US)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>0802</u>	<u>2</u>	<u>7.47</u>	<u>783</u>	<u>17.2</u>		
<u>0806</u>	<u>4</u>	<u>7.35</u>	<u>781</u>	<u>17.6</u>		
<u>0809</u>	<u>6</u>	<u>7.33</u>	<u>786</u>	<u>17.5</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX+MTBE(8260)</u>

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-0517 Job Number: 386420
 Site Address: 3900 Piedmont Avenue Event Date: 1-29-10 (inclusive)
 City: Oakland, CA Sampler: Jan

Well ID: MW-4
 Well Diameter: 2 in.
 Total Depth: 16.32 ft.
 Depth to Water: 8.02 ft.

Date Monitored: 1-29-10

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 8.30 xVF 0.17 = 1.41 x3 case volume = Estimated Purge Volume: 4.5 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.68

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): 0725 Weather Conditions: Foggy
 Sample Time/Date: 0745 1-29-10 Water Color: clear Odr: 01 N Strong
 Approx. Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 8.61

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>0730</u>	<u>1.5</u>	<u>6.93</u>	<u>591</u>	<u>17.8</u>		
<u>0735</u>	<u>3</u>	<u>6.83</u>	<u>610</u>	<u>18.0</u>		
<u>0738</u>	<u>4.5</u>	<u>6.86</u>	<u>618</u>	<u>17.5</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX+MTBE(8260)</u>

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

Chevron California Region Analysis Request/Chain of Custody



012910-02

For Lancaster Laboratories use only
 Acct. #: 12099 Sample #: 5896561-02 Group #: 019598

CRA MTI Project #: 61H-1995

1180752

Facility #: SS#9-0517 G-R#386420 Global ID#T0600102248
 Site Address: 3900 PIEDMONT AVENUE, OAKLAND, CA
 Chevron PM: MTI Lead Consultant: CRAKJ
 Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568
 Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)
 Consultant Phone #: 925-551-7555 Fax #: 925-551-7899
 Sampler: JOE ASEMIAN

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix			Total Number of Containers	Analyses Requested				Preservation Codes		Preservative Codes	
					Soil	Water	Oil <input type="checkbox"/> Air <input type="checkbox"/>		BTEX + MTBE 8260 <input type="checkbox"/>	TPH 8015 MOD GRO	TPH 8015 MOD DRO <input type="checkbox"/>	Silica Gel Cleanup	8260 full scan	Oxygenates		Total Lead Method
MW-3	1-29-10	0815	✓			✓		6	✓	✓						
MW-4	"	0745	"			"		6	✓	✓						

Preservative Codes
 H = HCl T = Thiosulfate
 N = HNO₃ B = NaOH
 S = H₂SO₄ O = Other

J value reporting needed
 Must meet lowest detection limits possible for 8260 compounds
 8021 MTBE Confirmation
 Confirm highest hit by 8260
 Confirm all hits by 8260
 Run ___ oxy's on highest hit
 Run ___ oxy's on all hits

Comments / Remarks

Turnaround Time Requested (TAT) (please circle)
 STD: TAT 24 hour 72 hour 48 hour 5 day

Data Package Options (please circle if required)
 QC Summary Type I - Full **EDF/EDD**
 Type VI (Raw Data) Coelt Deliverable not needed
 WIP (RWQCB)
 Disk

Relinquished by: [Signature]	Date: 1-29-10	Time: 0915	Received by: [Signature]	Date: 1-29-10	Time: 0715
Relinquished by: [Signature]	Date: 1-29-10	Time: 1630	Received by: [Signature]	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by Commercial Carrier: UPS FedEx Other	Received by: Mary Benford		Date: 2/1/10	Time: 0930	
Temperature Upon Receipt: 0.4-1.7 °C	Custody Seals Intact? Yes No				

ANALYTICAL RESULTS

Prepared for:

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

916-677-3407

Prepared by:

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

February 12, 2010

Project: 90517

RECEIVED

FEB 16 2010

GETTLER-RYAN INC.
GENERAL CONTRACTORS

Samples arrived at the laboratory on Monday, February 01, 2010. The PO# for this group is 90517 and the release number is MTI. The group number for this submittal is 1180752.

Client Sample DescriptionMW-3-W-100129 Grab Water
MW-4-W-100129 Grab WaterLancaster Labs (LLI) #5896561
5896562

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

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: 717-656-2661 • www.lancasterlabs.com

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

Respectfully Submitted,

Martha L Sidel

Martha L. Sidel
Senior Chemist

Sample Description: MW-3-W-100129 Grab Water
 Facility# 90517 Job# 386420 MTI# 61H-1995 GRD
 3900 Piedmont Ave-Oakland T0600102248 MW-3

LLI Sample # WW 5896561
 LLI Group # 1180752
 CA

Project Name: 90517

Collected: 01/29/2010 08:15 by JA

Account Number: 12099

Submitted: 02/01/2010 09:30

Chevron c/o CRA

Reported: 02/12/2010 at 12:57

Suite 110

Discard: 03/15/2010

2000 Opportunity Drive
Roseville CA 95678

PAO03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
06054	Benzene	71-43-2	N.D.	0.5	1
06054	Ethylbenzene	100-41-4	N.D.	0.5	1
06054	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
06054	Toluene	108-88-3	N.D.	0.5	1
06054	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC	Volatiles	SW-846 8015B	ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1

General Sample Comments

State of California Lab Certification No. 2501

Trip blank vials were not received by the laboratory for this sample group.

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
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D100401AA	02/09/2010 23:31	Florida A Cimino	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	D100401AA	02/09/2010 23:31	Florida A Cimino	1
01146	GC VOA Water Prep	SW-846 5030B	1	10033A94A	02/03/2010 02:13	Marie D John	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10033A94A	02/03/2010 02:13	Marie D John	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-4-W-100129 Grab Water
Facility# 90517 Job# 386420 MTI# 61H-1995 GRD
3900 Piedmont Ave-Oakland T0600102248 MW-4

LLI Sample # WW 5896562
LLI Group # 1180752
CA

Project Name: 90517

Collected: 01/29/2010 07:45 by JA

Account Number: 12099

Submitted: 02/01/2010 09:30
Reported: 02/12/2010 at 12:57
Discard: 03/15/2010

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

PA004

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles			SW-846 8260B	ug/l	
06054	Benzene	71-43-2	49	0.5	1
06054	Ethylbenzene	100-41-4	4	0.5	1
06054	Methyl Tertiary Butyl Ether	1634-04-4	1	0.5	1
06054	Toluene	108-88-3	15	0.5	1
06054	Xylene (Total)	1330-20-7	17	0.5	1
GC Volatiles			SW-846 8015B	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	3,800	250	5

General Sample Comments

State of California Lab Certification No. 2501
Trip blank vials were not received by the laboratory for this sample group.

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
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D100401AA	02/09/2010 23:54	Florida A Cimino	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	D100401AA	02/09/2010 23:54	Florida A Cimino	1
01146	GC VOA Water Prep	SW-846 5030B	1	10033A94A	02/03/2010 10:36	Marie D John	5
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10033A94A	02/03/2010 10:36	Marie D John	5

Quality Control Summary

 Client Name: Chevron c/o CRA
 Reported: 02/12/10 at 12:57 PM

Group Number: 1180752

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

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: D100401AA	Sample number(s): 5896561-5896562							
Benzene	N.D.	0.5	ug/l	89		79-120		
Ethylbenzene	N.D.	0.5	ug/l	90		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	88		76-120		
Toluene	N.D.	0.5	ug/l	88		79-120		
Xylene (Total)	N.D.	0.5	ug/l	92		80-120		
Batch number: 10033A94A	Sample number(s): 5896561-5896562							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	109	109	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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: D100401AA	Sample number(s): 5896561-5896562 UNSPK: P895290								
Benzene	107	100	80-126	7	30				
Ethylbenzene	109	102	71-134	6	30				
Methyl Tertiary Butyl Ether	103	96	72-126	8	30				
Toluene	110	103	80-125	6	30				
Xylene (Total)	111	103	79-125	8	30				
Batch number: 10033A94A	Sample number(s): 5896561-5896562 UNSPK: P895284								
TPH-GRO N. CA water C6-C12	109		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: D100401AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5896561	96	92	99	98
5896562	96	91	107	106
Blank	98	90	100	100
LCS	97	91	98	100
MS	98	94	103	102

*- 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: 02/12/10 at 12:57 PM

Group Number: 1180752

Surrogate Quality Control

MSD	99	96	102	102
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 10033A94A
Trifluorotoluene-F

5896561	86
5896562	98
Blank	84
LCS	95
LCSD	96
MS	93
Limits:	63-135

*- 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:

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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