



GETTLER-RYAN INC.

TRANSMITTAL



September 1, 2010
G-R #386346

RECEIVED

2:08 pm, Sep 28, 2010

Alameda County
Environmental Health

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

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

RE: **Chevron Service Station**
#9-8341 MTI
3530 MacArthur Boulevard
Oakland, California
RO 0000405
RWQCB-Case No. 01-1930

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	August 26, 2010	Groundwater Monitoring and Sampling Report Second Semi-Annual Event of August 4, 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 (including PDF submittal of the entire report to GeoTracker):**

Ms. Stacie H. Frerichs, Chevron EMC, 6111 Bollinger Canyon Road, Room 3596, San Ramon, CA 94583 **(PDF ONLY)**

Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to **September 15, 2010**, at which time this final report will be distributed to the following:

- cc: Mr. Chuck Headlee, RWQCB-S.F. Bay Region, 1515 Clay St., Suite 1400, Oakland. CA 94612
(No Hard Copy)
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-CRA UPLOAD TO ALAMEDA CO.)
Mr. Hai Pham, Property Owner, 3530 MacArthur Blvd. Gas Station, Inc., 3530 MacArthur Blvd., Oakland. CA 94619

Enclosures

trans/9-8341-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

_____ (date)

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

Re: Chevron Facility # _____

Address: _____

I have reviewed the attached routine groundwater monitoring report dated _____.

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 #9-8341
 Site Address: 3530 Macarthur Blvd.
 City: Oakland, CA

Job # 386346
 Event Date: 8.4.10
 Sampler: FT

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 <u>Yes/No</u>
MW-1	OK	Nb	Nb	Nb	OK	—————>	—————>	Y	N	2' CIRCULAR VAULT	
MW-2	OK	—————>	—————>	S=3	OK	—————>	—————>	Y	N	BOUNT L. 1/8" / 3	
MW-3	OK	OK	M22	OK	OK	SEE NOTE	SEE NOTE	N	N	MOUNTAIN 1/2" / 2	YES

Comments MW-3 STATION OWNER HAS PUT A NEW CEMENT PAD WHERE (MW-3) IS, IS ≈ 6' THICK WHICH PUTS THE WELL ≈ 6' BELOW THIS PAD. UNABLE TO SECURE WELL COVER (SEE PHOTOS).



August 26, 2010
G-R Job #386346

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

RE: Second Semi-Annual Event of August 4, 2010
Groundwater Monitoring & Sampling Report
Chevron Service Station #9-8341
3530 MacArthur Boulevard
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

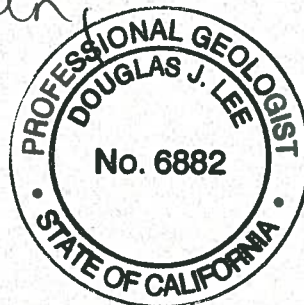
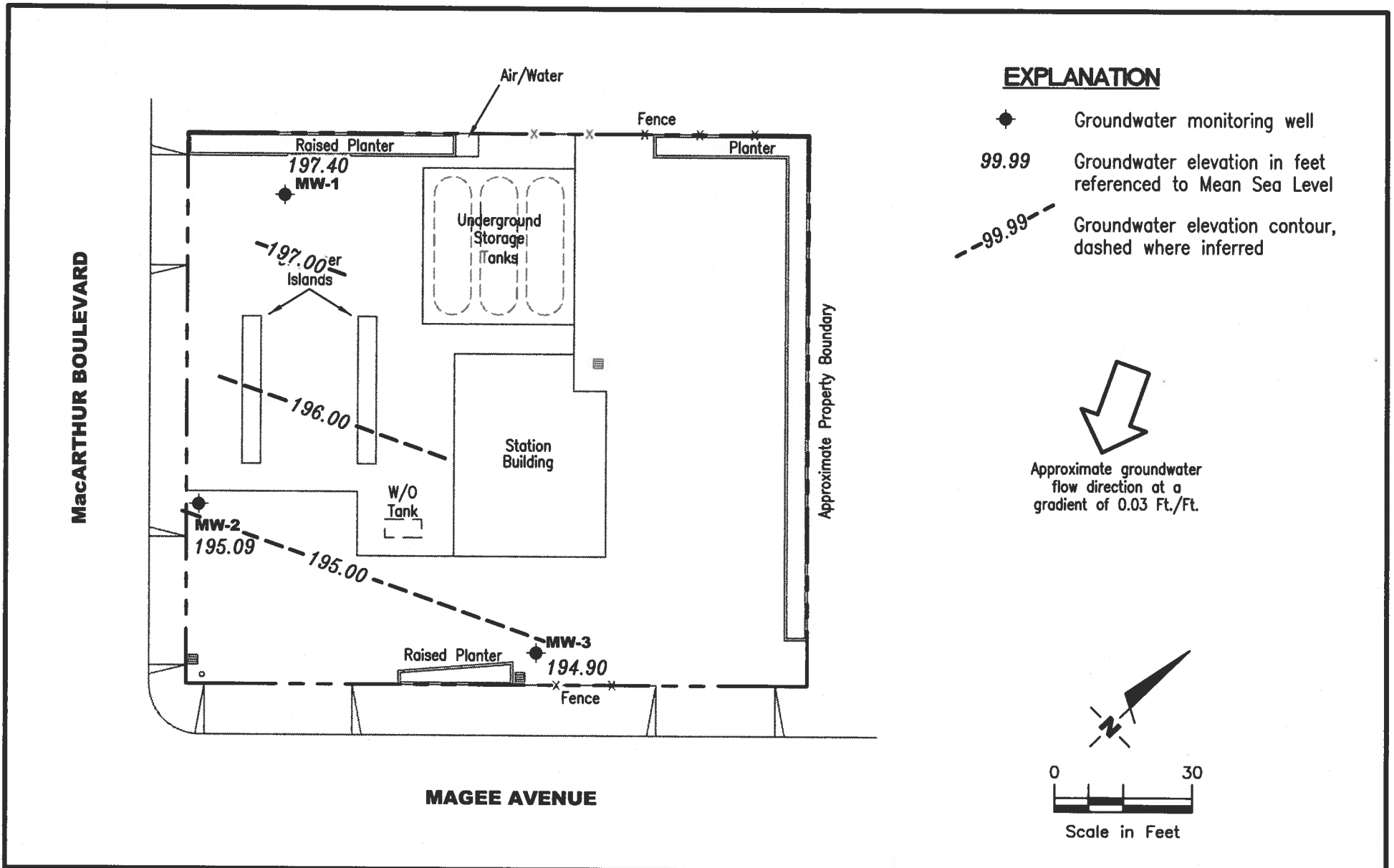


Figure 1: Potentiometric Map
Table 1: Groundwater Monitoring Data and Analytical Results
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports



Gettler - Ryan Inc.

6747 Sierra Court
Dublin, CA 94568

Suite J
(925) 551-7555

POTENTIOMETRIC MAP

Chevron Service Station #9-8341
3530 MacArthur Boulevard
Oakland, California

FIGURE

1

JOB NUMBER
386346

REVIEWED BY

DATE
August 4, 2010

REVISED DATE

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-8341
3530 MacArthur Boulevard
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)	ETHANOL♦ (µg/L)
MW-1										
04/04/96	202.47	198.65	3.82	<50	<0.5	<0.5	<0.5	<0.5	ND	--
11/01/96	202.47	196.97	5.02	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/06/97	202.47	199.72	2.75	<50	<0.5	<0.5	<0.5	<0.5	14	--
04/14/97	202.47	197.71	4.76	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/17/97	202.47	196.72	5.75	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	202.47	196.97	5.50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
02/04/98	202.47	199.80	2.67	<50	4.2	<0.5	<0.5	<0.5	94	--
04/03/98	202.47	197.06	5.41	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/29/98	202.47	192.26	10.21	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/26/98	202.47	195.66	6.81	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/18/99	202.47	196.05	6.42	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
04/15/99	202.47	197.13	5.34	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
07/22/99	202.47	196.97	5.50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/13/99	202.47	196.43	6.04	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/21/00	202.47	197.11	5.36	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/10/00	202.47	197.60	4.87	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
07/12/00	202.47	197.05	5.42	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
10/05/00	202.47	196.79	5.68	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
01/05/01	202.47	197.30	5.17	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
04/05/01	202.47	197.83	4.64	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
08/20/01	202.47	197.29	5.18	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
11/26/01	202.47	197.65	4.82	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/14/02	202.47	197.68	4.79	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/07/02	202.47	197.55	4.92	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
08/02/02	202.47	197.36	5.11	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
11/11/02	202.47	197.40	5.07	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/03/03	202.47	197.69	4.78	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/05/03	202.47	198.86	3.61	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/04/03 ⁴	202.47	197.39	5.08	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
11/19/03 ⁴	202.47	197.44	5.03	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
02/16/04 ⁴	202.47	198.01	4.46	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
06/03/04 ⁴	202.47	197.52	4.95	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
08/20/04 ⁴	202.47	197.22	5.25	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
11/15/04 ⁴	202.47	197.86	4.61	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
02/14/05 ⁴	202.47	198.18	4.29	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
05/16/05 ⁴	202.47	198.62	3.85	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/31/05 ⁴	202.47	197.19	5.28	69	12	12	<0.5	12	<0.5	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-8341
3530 MacArthur Boulevard
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)	ETHANOL♦ (µg/L)
MW-1 (cont)										
11/30/05 ⁴	202.47	197.36	5.11	<50	<0.5	<0.5	<0.5	1	<0.5	--
02/17/06 ⁴	202.47	198.47	4.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/19/06 ⁴	202.47	198.09	4.38	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/25/06 ⁴	202.47	197.23	5.24	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/22/06 ⁴	202.47	197.09	5.38	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/01/07 ⁴	202.47	198.00	4.47	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
04/30/07 ⁴	202.47	197.96	4.51	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/31/07 ⁴	202.47	197.40	5.07	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
10/27/07 ⁴	202.47	197.46	5.01	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/08/08 ⁴	202.47	199.06	3.41	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/02/08 ⁴	202.47	198.17	4.30	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/31/08 ⁴	202.47	197.26	5.21	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/13/08 ⁴	202.47	197.65	4.82	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/13/09 ⁴	202.47	198.40	4.07	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/08/09 ⁴	202.47	198.15	4.32	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/27/09 ⁴	202.47	197.12	5.35	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/03/10 ⁴	202.47	198.52	3.95	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/04/10⁴	202.47	197.40	5.07	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
MW-2										
04/04/96	198.88	196.07	2.81	<50	<0.5	<0.5	<0.5	<0.5	6,100	--
11/01/96	198.88	195.27	3.61	<500	<5.0	<5.0	<5.0	<5.0	2,600	--
01/06/97	198.88	195.97	2.91	<2,000	31	<20	<20	<20	4,000	--
04/14/97	198.88	195.43	3.45	<2,000	<20	<20	<20	<20	5,100/5,800 ¹	--
07/17/97	198.88	194.98	3.90	<500	<5.0	<5.0	<5.0	<5.0	2,300/2,900 ¹	--
10/29/97	198.88	192.96	5.92	120 ²	12	<0.5	<0.5	<0.5	810/900 ¹	--
02/04/98	198.88	195.05	3.83	<1,000	<10	<10	<10	<10	2,100/2,800 ¹	--
04/03/98	198.88	191.55	7.33	<1,000	<10	<10	<10	<10	3,800/3,600 ¹	--
07/29/98	198.88	189.86	9.02	120 ³	<0.5	<0.5	<0.5	<0.5	2,800/3,900 ¹	--
10/26/98	198.88	192.77	6.11	<50	<0.5	<0.5	<0.5	<0.5	1,200	--
01/18/99	198.88	194.67	4.21	<1,000	<10	<10	<10	10.5	2,530	--
04/15/99	198.88	194.56	4.32	<50	<0.5	<0.5	<0.5	<0.5	5,270	--
07/22/99	198.88	193.73	5.15	<50	8.92	<0.5	<0.5	<0.5	1,450	--
10/13/99	198.88	192.23	6.65	<250	<2.5	<2.5	<2.5	<2.5	1,740	--
01/21/00	198.88	192.78	6.10	69.6	<0.5	<0.5	<0.5	<0.5	1,110	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-8341
3530 MacArthur Boulevard
Oakland, California

WELL ID/ DATE	TOC (<i>µ</i> L)	GWE (<i>msl</i>)	DTW (<i>ft</i>)	TPH-GRO (<i>µ</i> g/L)	B (<i>µ</i> g/L)	T (<i>µ</i> g/L)	E (<i>µ</i> g/L)	X (<i>µ</i> g/L)	MTBE (<i>µ</i> g/L)	ETHANOL♦ (<i>µ</i> g/L)
MW-2 (cont)										
04/10/00	198.88	194.42	4.46	<500	<5.0	<5.0	<5.0	<5.0	1,700	--
07/12/00	198.88	195.24	3.64	<50.0	<0.500	<0.500	<0.500	<0.500	187	--
10/05/00	198.88	194.06	4.82	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
01/05/01	198.88	195.17	3.71	<50	<0.50	<0.50	<0.50	<0.50	1,800	--
04/05/01	198.88	192.94	5.94	<50	<0.50	<0.50	<0.50	<0.50	5,500	--
08/20/01	198.88	193.18	5.70	<50	<0.50	<0.50	<0.50	<0.50	2,000	--
11/26/01	198.88	193.55	5.33	<50	<0.50	<0.50	<0.50	<1.5	990	--
02/14/02	198.88	194.42	4.46	58	<0.50	<0.50	<0.50	<1.5	1,200	--
05/07/02	198.88	194.49	4.39	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
08/02/02	198.88	194.81	4.07	<50	<0.50	<0.50	<0.50	<1.5	490	--
11/11/02	198.88	194.76	4.12	<50	<0.50	<0.50	<0.50	<1.5	470	--
02/03/03	198.88	193.93	4.95	<50	<0.50	<0.50	<0.50	<1.5	690	--
05/05/03	198.88	194.38	4.50	<50	<0.5	<0.5	<0.5	<1.5	680	--
08/04/03 ⁴	198.88	195.02	3.86	<50	<0.5	<0.5	<0.5	<0.5	460	<50
11/19/03 ⁴	198.88	195.32	3.56	<50	<0.5	<0.5	<0.5	<0.5	540	<50
02/16/04 ⁴	198.88	195.73	3.15	<50	<1	<1	<1	<1	1,200	<130
06/03/04 ⁴	198.88	195.18	3.70	<50	<0.5	<0.5	<0.5	<0.5	190	<50
08/20/04 ⁴	198.88	194.85	4.03	<50	<0.5	<0.5	<0.5	<0.5	130	<50
11/15/04 ⁴	198.88	195.54	3.34	<50	<0.5	<0.5	<0.5	<0.5	230	<50
02/14/05 ⁴	198.88	195.54	3.34	<50	<0.5	<0.5	<0.5	<0.5	600	<50
05/16/05 ⁴	198.88	194.99	3.89	<50	<0.5	<0.5	<0.5	<0.5	130	--
08/31/05 ⁴	198.88	194.81	4.07	<50	<0.5	<0.5	<0.5	0.8	450	--
11/30/05 ⁴	198.88	193.13	5.75	<50	<0.5	<0.5	<0.5	2	280	--
02/17/06 ⁴	198.88	195.56	3.32	<50	<0.5	<0.5	<0.5	<0.5	790	--
05/19/06 ⁴	198.88	193.80	5.08	<50	<0.5	<0.5	<0.5	<0.5	530	--
08/25/06 ⁴	198.88	194.85	4.03	<50	<0.5	<0.5	<0.5	<0.5	330	--
11/22/06 ⁴	198.88	193.44	5.44	<50	<0.5	<0.5	<0.5	<0.5	310	--
02/01/07 ⁴	198.88	195.30	3.58	<50	<0.5	<0.5	<0.5	<0.5	770	--
04/30/07 ⁴	198.88	194.73	4.15	<50	<0.5	<0.5	<0.5	<0.5	92	--
07/31/07 ⁴	198.88	194.68	4.20	<50	<0.5	<0.5	<0.5	<0.5	20	--
10/27/07 ⁴	198.88	195.00	3.88	<50	<0.5	<0.5	<0.5	<0.5	220	--
02/08/08 ⁴	198.88	194.86	4.02	<50	<0.5	<0.5	<0.5	<0.5	860	--
05/02/08 ⁴	198.88	194.50	4.38	<50	<0.5	<0.5	<0.5	<0.5	1,700	--
07/31/08 ⁴	198.88	194.70	4.18	<50	<0.5	<0.5	<0.5	<0.5	770	--
11/13/08 ⁴	198.88	195.10	3.78	<50	<0.5	<0.5	<0.5	<0.5	740	--
02/13/09 ⁴	198.88	195.61	3.27	<50	<0.5	<0.5	<0.5	<0.5	970	--
05/08/09 ⁴	198.88	195.70	3.18	<250	<0.5	<0.5	<0.5	<0.5	910	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-8341
3530 MacArthur Boulevard
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)	ETHANOL♦ (µg/L)
MW-2 (cont)										
07/27/09 ⁴	198.88	194.70	4.18	<50	<0.5	<0.5	<0.5	<0.5	37	--
02/03/10 ⁴	198.88	195.45	3.43	<50	<0.5	<0.5	<0.5	<0.5	720	--
08/04/10 ⁴	198.88	195.09	3.79	<50	<0.5	<0.5	<0.5	<0.5	500	--
MW-3										
11/01/96	199.10	194.91	4.19	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/06/97	199.10	195.29	3.81	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/14/97	199.10	194.93	4.17	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/17/97	199.10	194.92	4.18	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	199.10	193.90	5.20	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
02/04/98	199.10	194.71	4.39	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/03/98	199.10	195.78	3.32	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/29/98	199.10	189.24	9.86	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/26/98	199.10	193.59	5.51	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/18/99	199.10	194.68	4.42	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
04/15/99	199.10	194.54	4.56	<50	<0.5	<0.5	<0.5	1.16	<5.0	--
07/22/99	199.10	192.45	6.65	<50	<0.5	<0.5	<0.5	<0.5	3.94	--
10/13/99	199.10	193.79	5.31	<50	<0.5	<0.5	<0.5	<0.5	6.55	--
01/21/00	199.10	193.18	5.92	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/10/00	199.10	194.32	4.78	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
07/12/00	199.10	193.86	5.24	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
10/05/00	199.10	195.17	3.93	<50.0	<0.500	<0.500	<0.500	<0.500	39.7	--
01/05/01	199.10	194.85	4.25	<50	<0.50	<0.50	<0.50	<0.50	2.9	--
04/05/01	199.10	194.72	4.38	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
08/20/01	199.10	194.35	4.75	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
11/26/01	199.10	193.60	5.50	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/14/02	199.10	194.82	4.28	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/07/02	199.10	194.58	4.52	85	<0.50	<0.50	<0.50	<1.5	610	--
08/02/02	199.10	194.72	4.38	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
11/11/02	199.10	195.04	4.06	<50	<0.50	<0.50	<0.50	<1.5	4.5	--
02/03/03	199.10	194.02	5.08	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/05/03	199.10	194.50	4.60	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/04/03 ⁴	199.10	194.75	4.35	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
11/19/03 ⁴	199.10	194.86	4.24	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
02/16/04 ⁴	199.10	195.32	3.78	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
06/03/04 ⁴	199.10	193.74	5.36	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-8341
3530 MacArthur Boulevard
Oakland, California

WELL ID/ DATE	TOC (<i>ft.</i>)	GWE (<i>mst</i>)	DTW (<i>ft.</i>)	TPH-GRO (<i>µg/L</i>)	B (<i>µg/L</i>)	T (<i>µg/L</i>)	E (<i>µg/L</i>)	X (<i>µg/L</i>)	MTBE (<i>µg/L</i>)	ETHANOL♦ (<i>µg/L</i>)
MW-3 (cont)										
08/20/04 ⁴	199.10	194.75	4.35	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
11/15/04 ⁴	199.10	195.21	3.89	<50	<0.5	<0.5	<0.5	<0.5	2	<50
02/14/05 ⁴	199.10	195.18	3.92	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
05/16/05 ⁴	199.10	195.34	3.76	<50	<0.5	<0.5	<0.5	<0.5	0.6	--
08/31/05 ⁴	199.10	194.89	4.21	54	7	7	<0.5	12	<0.5	--
11/30/05 ⁴	199.10	195.31	3.79	<50	<0.5	<0.5	<0.5	1	<0.5	--
02/17/06 ⁴	199.10	195.04	4.06	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/19/06 ⁴	199.10	194.49	4.61	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/25/06 ⁴	199.10	194.94	4.16	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/22/06 ⁴	199.10	195.45	3.65	<50	<0.5	<0.5	<0.5	1	<0.5	--
02/01/07 ⁴	199.10	194.90	4.20	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
04/30/07 ⁴	199.10	195.12	3.98	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/31/07 ⁴	199.10	195.07	4.03	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
10/27/07 ⁴	199.10	194.66	4.44	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/08/08 ⁴	199.10	195.05	4.05	<50	<0.5	<0.5	<0.5	<0.5	1	--
05/02/08 ⁴	199.10	194.97	4.13	<50	<0.5	<0.5	<0.5	<0.5	2	--
07/31/08 ⁴	199.10	194.62	4.48	<50	<0.5	<0.5	<0.5	<0.5	0.6	--
11/13/08 ⁴	199.10	194.42	4.68	<50	<0.5	<0.5	<0.5	<0.5	1	--
02/13/09 ⁴	199.10	195.29	3.81	<50	<0.5	<0.5	<0.5	<0.5	0.5	--
05/08/09 ⁴	199.10	195.22	3.88	<50	<0.5	<0.5	<0.5	<0.5	0.6	--
07/27/09 ⁴	199.10	194.84	4.26	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/03/10 ⁴	199.10	195.13	3.97	<50	<0.5	<0.5	<0.5	<0.5	0.8	--
08/04/10⁴	199.10	194.90	4.20	<50	<0.5	<0.5	<0.5	<0.5	1	--
TRIP BLANK										
11/01/96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/06/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/14/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/17/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
02/04/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/03/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/29/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/26/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/18/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
04/15/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-8341
3530 MacArthur Boulevard
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)	ETHANOL♦ (µg/L)
TRIP BLANK (cont)										
07/22/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/13/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/21/00	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/10/00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
07/12/00	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
10/05/00	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
01/05/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
QA										
04/05/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
08/20/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
11/26/01	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/14/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/07/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
08/02/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
11/11/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/03/03	--	--	--	<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	--
08/04/03 ⁴	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/19/03 ⁴	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/16/04 ⁴	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/03/04 ⁴	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/20/04 ⁴	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/15/04 ⁴	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/14/05 ⁴	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/16/05 ⁴	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/31/05 ⁴	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/30/05 ⁴	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/17/06 ⁴	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/19/06 ⁴	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/25/06 ⁴	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/22/06 ⁴	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/01/07 ⁴	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
04/30/07 ⁴	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/31/07 ⁴	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
10/27/07 ⁴	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/08/08 ⁴	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/02/08 ⁴	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-8341
3530 MacArthur Boulevard
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)	ETHANOL♦ (µg/L)
QA (cont)										
07/31/08 ⁴	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/13/08 ⁴	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/13/09 ⁴	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/08/09 ⁴	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/27/09 ⁴	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
DISCONTINUED										

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-8341
3530 MacArthur Boulevard
Oakland, California

EXPLANATIONS:

Groundwater monitoring data and analytical results prior to April 10, 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

ND = Not Detected

-- = Not Measured/Not Analyzed

(µg/L) = Micrograms per liter

QA = Quality Assurance/Trip Blank

◆ Ethanol by EPA Method 8260.

¹ Confirmation run.

² Chromatogram report indicates an unidentified hydrocarbon and gas.

³ Chromatogram report indicates an unidentified hydrocarbon.

⁴ 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 #9-8341 Job Number: 386346
 Site Address: 3530 Macarthur Blvd. Event Date: 8.4.10 (inclusive)
 City: Oakland, CA Sampler: FS

Well ID: MW-1
 Well Diameter: 2 in.
 Total Depth: 27.25 ft.
 Depth to Water: 5.07 ft.

Date Monitored: 8.4.10

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.

22.18 xVF .17 = 3.77 x3 case volume = Estimated Purge Volume: 11.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.50

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 / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1115 Weather Conditions: FOL
 Sample Time/Date: 1145 / 8.4.10 Water Color: Bwn. Odor: Y / (N)
 Approx. Flow Rate: _____ gpm. Sediment Description: S-SILTY
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 8.65

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C F)	D.O. (mg/L)	ORP (mV)
<u>1121</u>	<u>3.5</u>	<u>7.16</u>	<u>378</u>	<u>19.6</u>	_____	_____
<u>1127</u>	<u>7.0</u>	<u>7.12</u>	<u>384</u>	<u>19.8</u>	_____	_____
<u>1135</u>	<u>11.0</u>	<u>7.10</u>	<u>392</u>	<u>20.0</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTX+MTBE(8260)</u>

COMMENTS: 2' circular vault (OK)

Add/Replaced Lock:

Add/Replaced Plug: _____

Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-8341 Job Number: 386346
 Site Address: 3530 Macarthur Blvd. Event Date: 8.4.10 (inclusive)
 City: Oakland, CA Sampler: FR

Well ID: MW-2
 Well Diameter: 2 in.
 Total Depth: 32.75 ft.
 Depth to Water: 3.79 ft.

Date Monitored: 8.4.10

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]: 9.58
 $28.96 \times VF .17 = 4.92$ x3 case volume = Estimated Purge Volume: 15.0 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): 1245 Weather Conditions: SUNNY
 Sample Time/Date: 1330 / 8.4.10 Water Color: Bur Odor: Y / 10
 Approx. Flow Rate: 1 gpm. Sediment Description: S. SILTY
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 9.46

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>1252</u>	<u>5.0</u>	<u>6.64</u>	<u>396</u>	<u>20.5</u>		
<u>1259</u>	<u>10.0</u>	<u>6.69</u>	<u>404</u>	<u>20.6</u>		
<u>1307</u>	<u>15.0</u>	<u>6.72</u>	<u>414</u>	<u>20.8</u>		

LABORATORY INFORMATION

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

COMMENTS: Bourne L. 8" (3SE)

Add/Replaced Lock:

Add/Replaced Plug: _____

Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-8341 Job Number: 386346
 Site Address: 3530 Macarthur Blvd. Event Date: 8.4.10 (inclusive)
 City: Oakland, CA Sampler: FT

Well ID: MW-3
 Well Diameter: 2 in.
 Total Depth: 32.16 ft.
 Depth to Water: 4.20 ft.

Date Monitored: 8.4.10

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]: 9.79
 $27.96 \times VF .17 = 4.75$ x3 case volume = Estimated Purge Volume: 14.0 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 / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1200 Weather Conditions: Fog
 Sample Time/Date: 1232 / 8.4.10 Water Color: Blue Odor: Y / 0
 Approx. Flow Rate: 1 gpm. Sediment Description: S. SILTY
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 8.95

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>1207</u>	<u>4.5</u>	<u>6.69</u>	<u>367</u>	<u>19.9</u>	_____	_____
<u>1214</u>	<u>9.0</u>	<u>6.72</u>	<u>376</u>	<u>20.1</u>	_____	_____
<u>1222</u>	<u>14.0</u>	<u>6.76</u>	<u>383</u>	<u>20.3</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- <u>2</u>	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTX+MTBE(8260)

COMMENTS:

MONITOR 12"

STATION OWNER HAS PUT A NEW CEMENT PAD IN THE LOCATION OF THE WELL 6' THICK. WELL IS BELOW THIS PAD ≈ 6' CAN'T SECURE WELL COVER.

Add/Replaced Lock:

Add/Replaced Plug: _____

Add/Replaced Ball: _____



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2881 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

August 12, 2010

Project: 98341

Submittal Date: 08/05/2010
Group Number: 1206246
PO Number: 98341
Release Number: MTI
State of Sample Origin: CA

RECEIVED

AUG 12 2010

GETTLER-RYAN INC.
GENERAL CONTRACTORS

Client Sample Description

MW-1-W-100804 Grab Water
MW-2-W-100804 Grab Water
MW-3-W-100804 Grab Water

Lancaster Labs (LLI) #

6050874
6050875
6050876

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

ELECTRONIC COPY TO Chevron c/o CRA
ELECTRONIC COPY TO Gettler-Ryan, Inc.

Attn: Report Contact

Attn: Rachelle Munoz



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 Ext. 1241

Respectfully Submitted,

A handwritten signature in black ink that reads "Valerie L. Tomayko".

Valerie L. Tomayko
Group Leader



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-1-W-100804 Grab Water

Facility# 98341 Job# 386346 MTI# 61H-1650 GRD
3530 MacArthur-Oakland T0600101790 MW-1

LLI Sample # WW 6050874
LLI Group # 1206246
Account # 12099

Project Name: 98341

Collected: 08/04/2010 11:45 by FT

Submitted: 08/05/2010 09:00

Reported: 08/12/2010 12:14

Discard: 09/12/2010

Chevron c/o CRA

Suite 110

2000 Opportunity Drive

Roseville CA 95678

MBO01

CAT No.	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B				
10943	Benzene 71-43-2	N.D.	0.5 ug/l	1
10943	Ethylbenzene 100-41-4	N.D.	0.5 ug/l	1
10943	Methyl Tertiary Butyl Ether 1634-04-4	N.D.	0.5 ug/l	1
10943	Toluene 108-88-3	N.D.	0.5 ug/l	1
10943	Xylene (Total) 1330-20-7	N.D.	0.5 ug/l	1
GC Volatiles SW-846 8015B				
01728	TPH-GRO N. CA water C6-C12 n.a.	N.D.	50 ug/l	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	Z102221AA	08/10/2010 14:08	Daniel H Heller	1
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	Z102221AA	08/10/2010 14:08	Daniel H Heller	1
01146	GC VOA Water Prep	SW-846 5030B	1	10218C20A	08/08/2010 21:58	Tyler O Griffin	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10218C20A	08/08/2010 21:58	Tyler O Griffin	1



Analysis Report

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

Page 1 of 1

Sample Description: MW-2-W-100804 Grab Water

Facility# 98341 Job# 386346 MTI# 61H-1650 GRD
3530 MacArthur-Oakland T0600101790 MW-2

LLI Sample # WW 6050875
LLI Group # 1206246
Account # 12099

Project Name: 98341

Collected: 08/04/2010 13:30 by FT

Chevron c/o CRA

Suite 110

Submitted: 08/05/2010 09:00

2000 Opportunity Drive

Reported: 08/12/2010 12:14

Roseville CA 95678

Discard: 09/12/2010

MBO02

CAT No.	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	SW-846 8260B	ug/l	ug/l	
10943 Benzene	71-43-2	N.D.	0.5	1
10943 Ethylbenzene	100-41-4	N.D.	0.5	1
10943 Methyl Tertiary Butyl Ether	1634-04-4	500	0.5	1
10943 Toluene	108-88-3	N.D.	0.5	1
10943 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	Z102221AA	08/10/2010 14:34	Daniel H Heller	1
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	Z102221AA	08/10/2010 14:34	Daniel H Heller	1
01146	GC VOA Water Prep	SW-846 5030B	1	10218C20A	08/08/2010 22:20	Tyler O Griffin	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10218C20A	08/08/2010 22:20	Tyler O Griffin	1



Analysis Report

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Sample Description: MW-3-W-100804 Grab Water

Facility# 98341 Job# 386346 MTI# 61H-1650 GRD
3530 MacArthur-Oakland T0600101790 MW-3

LLI Sample # WW 6050876
LLI Group # 1206246
Account # 12099

Project Name: 98341

Collected: 08/04/2010 12:32 by FT

Chevron c/o CRA
Suite 110

Submitted: 08/05/2010 09:00

2000 Opportunity Drive
Roseville CA 95678

Reported: 08/12/2010 12:14

Discard: 09/12/2010

MBO03

CAT No.	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B				
10943	Benzene	71-43-2	N.D.	1
10943	Ethylbenzene	100-41-4	N.D.	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	1	1
10943	Toluene	108-88-3	N.D.	1
10943	Xylene (Total)	1330-20-7	N.D.	1
GC Volatiles SW-846 8015B				
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	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	Z102221AA	08/10/2010 14:59	Daniel H Heller	1
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	Z102221AA	08/10/2010 14:59	Daniel H Heller	1
01146	GC VOA Water Prep	SW-846 5030B	1	10218C20A	08/08/2010 22:42	Tyler O Griffin	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10218C20A	08/08/2010 22:42	Tyler O Griffin	1

Quality Control Summary

Client Name: Chevron c/o CRA
Reported: 08/12/10 at 12:14 PM

Group Number: 1206246

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: Z102221AA	Sample number(s): 6050874-6050876							
Benzene	N.D.	0.5	ug/l	89		79-120		
Ethylbenzene	N.D.	0.5	ug/l	92		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	95		76-120		
Toluene	N.D.	0.5	ug/l	91		79-120		
Xylene (Total)	N.D.	0.5	ug/l	93		80-120		
Batch number: 10218C20A	Sample number(s): 6050874-6050876							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	127	118	75-135	7	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: Z102221AA	Sample number(s): 6050874-6050876 UNSPK: P050850								
Benzene	95	95	80-126	0	30				
Ethylbenzene	97	98	71-134	0	30				
Methyl Tertiary Butyl Ether	94	99	72-126	4	30				
Toluene	96	96	80-125	0	30				
Xylene (Total)	97	98	79-125	1	30				
Batch number: 10218C20A	Sample number(s): 6050874-6050876 UNSPK: P050545								
TPH-GRO N. CA water C6-C12	127		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: UST VOCs by 8260B - Water
Batch number: Z102221AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6050874	95	95	100	99
6050875	95	94	101	98
6050876	96	96	100	98
Blank	96	95	101	98
LCS	97	98	100	101

*- 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: 08/12/10 at 12:14 PM

Group Number: 1206246

Surrogate Quality Control

MS	97	100	100	99
MSD	97	98	99	99
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12

Batch number: 10218C20A
Trifluorotoluene-F

6050874	92
6050875	90
6050876	91
Blank	89
LCS	117
LCSD	109
MS	125
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.



Explanation of Symbols and Abbreviations

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

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

U.S. EPA CLP Data Qualifiers:

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

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

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

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

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