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

February 5, 2009
(date)

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

Re: Chevron Facility #_9-2029_____

Address: 890 West MacArthur Boulevard, Oakland, California_____

I have reviewed the attached report titled *Fourth Quarter 2008 Groundwater Monitoring Report*_____ and dated February 5, 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,

SH Frerichs

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

February 5, 2009 Reference No. 611974

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

Re: Fourth Quarter 2008 Groundwater Monitoring Report
Former Chevron Service Station 9-2029
890 West MacArthur Boulevard
Oakland, California
LOP Case #RO0002438

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 December 29, 2008) presents the results of the monitoring and sampling of offsite wells MW-5 through MW-8 performed during fourth quarter 2008. Wells MW-5 through MW-8 (installed in August 2008) are monitored and sampled on a quarterly basis. Also attached are Figure 1 (Vicinity Map) showing the site location, and Figure 2 (Concentration Map) presenting the fourth quarter 2008 analytical results along with a rose diagram. The monitoring results during 2008 are discussed below.

During the fourth quarter 2008 event, elevated concentrations of total petroleum hydrocarbons as gasoline (TPHg) (14,000 micrograms per liter [µg/L]), benzene (1,000 µg/L), and methyl tertiary butyl ether (MTBE) (300 µg/L) were detected in well MW-6; toluene (15 µg/L), ethylbenzene (1,300 µg/L), and xylenes (550 µg/L) were also detected. These concentrations were generally greater than those detected in this well during third quarter 2008. Lower concentrations of TPHg, benzene, and MTBE were detected in wells MW-5 (6,000 µg/L, 93 µg/L, and 8 µg/L, respectively) and MW-7 (1,100 µg/L, 80 µg/L, and 6 µg/L, respectively) during fourth quarter 2008. The TPHg and benzene concentrations detected in wells MW-5 and MW-7 during fourth quarter 2008 significantly increased from those observed during third quarter 2008, while the MTBE concentrations remained similar. Low concentrations of toluene (up to 6 µg/L), ethylbenzene (up to 65 µg/L), and xylenes (up to 6 µg/L) were also detected in wells MW-5 and MW-7 during 2008. TPHg, benzene, toluene, ethylbenzene, and xylenes (BTEX), and MTBE were not detected in well MW-8 during fourth quarter 2008; and only low concentrations of toluene (0.7 µg/L) and xylenes (0.6 µg/L) were detected during third quarter 2008. Tertiary butyl alcohol (TBA) was detected in wells MW-5 (up to 4 µg/L), MW-6 (up to 390 µg/L), and MW-7 (5 µg/L) during 2008; other fuel oxygenates (except MTBE) generally

were not detected. As TBA is a breakdown product of MTBE, the detections of TBA may indicate natural biodegradation of MTBE in the subsurface.

Based on the analytical results, impacted groundwater is present downgradient of the site in the area of wells MW-5, MW-6, and MW-7. With the exception of MTBE, concentrations generally increased in these wells from third to fourth quarter 2008. The increases may be due to typical seasonal fluctuations; however, more data is needed. CRA recommends continued monitoring and sampling to further evaluate groundwater quality and concentration trends.

Please contact Mr. James Kiernan at (916) 751-4102 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Christopher J. Benedict

James P. Kiernan, P.E. #C68498

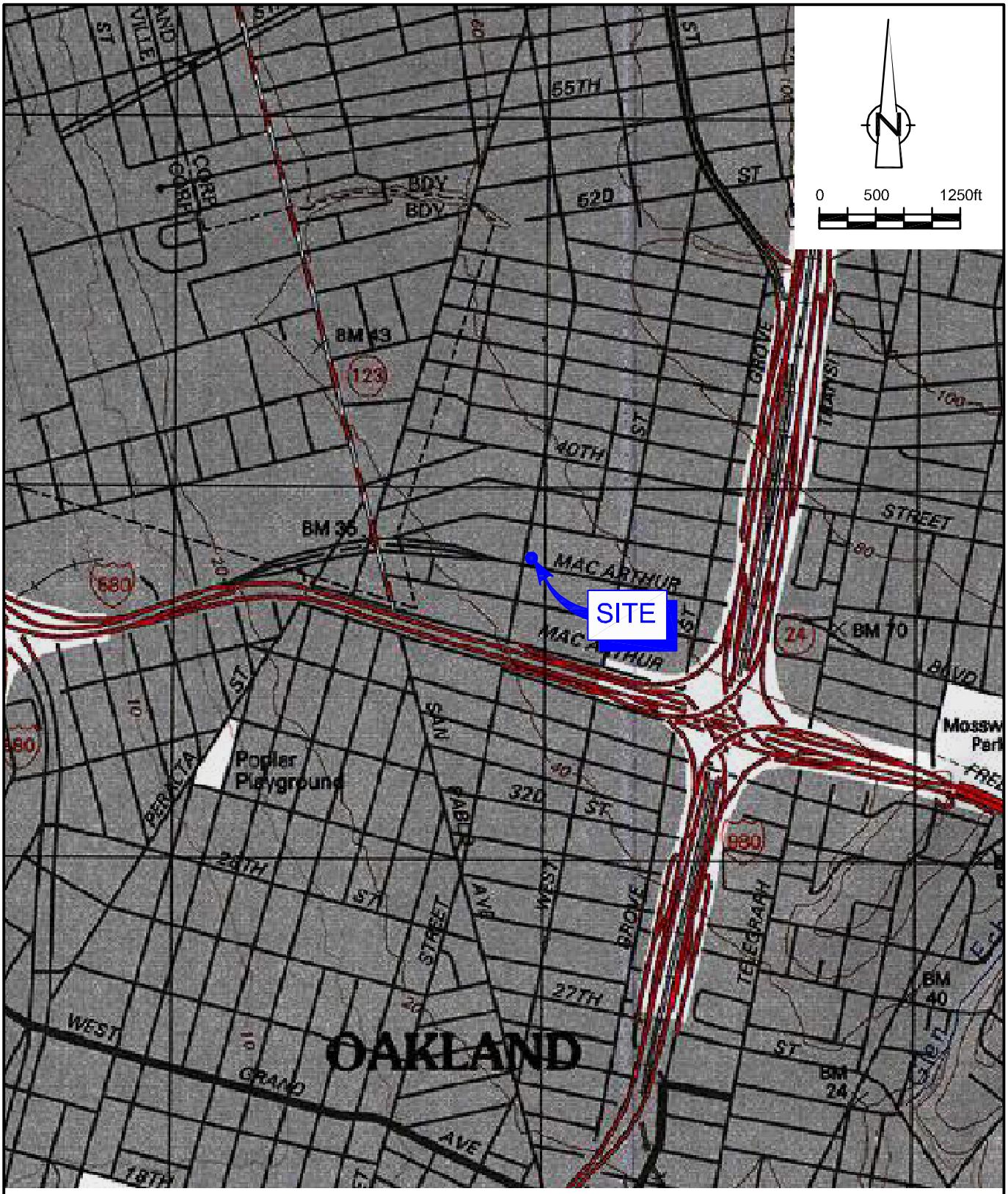
REGISTERED PROFESSIONAL ENGINEER
JAMES P. KIERNAN
No. 68498
Exp. 9/30/09
CIVIL
STATE OF CALIFORNIA

2/5/09

CB/kw/3
Encl.

Attachment A Fourth Quarter 2008 Groundwater Monitoring and Sampling Report

cc: Ms. Stacie Frerichs, Chevron Environmental Management Company
Mr. Stephen O'Kane



SOURCE: TOPO! MAPS.

figure 1

VICINITY MAP
CHEVRON SERVICE STATION 9-2029
890 WEST MACARTHUR BOULEVARD
Oakland, California

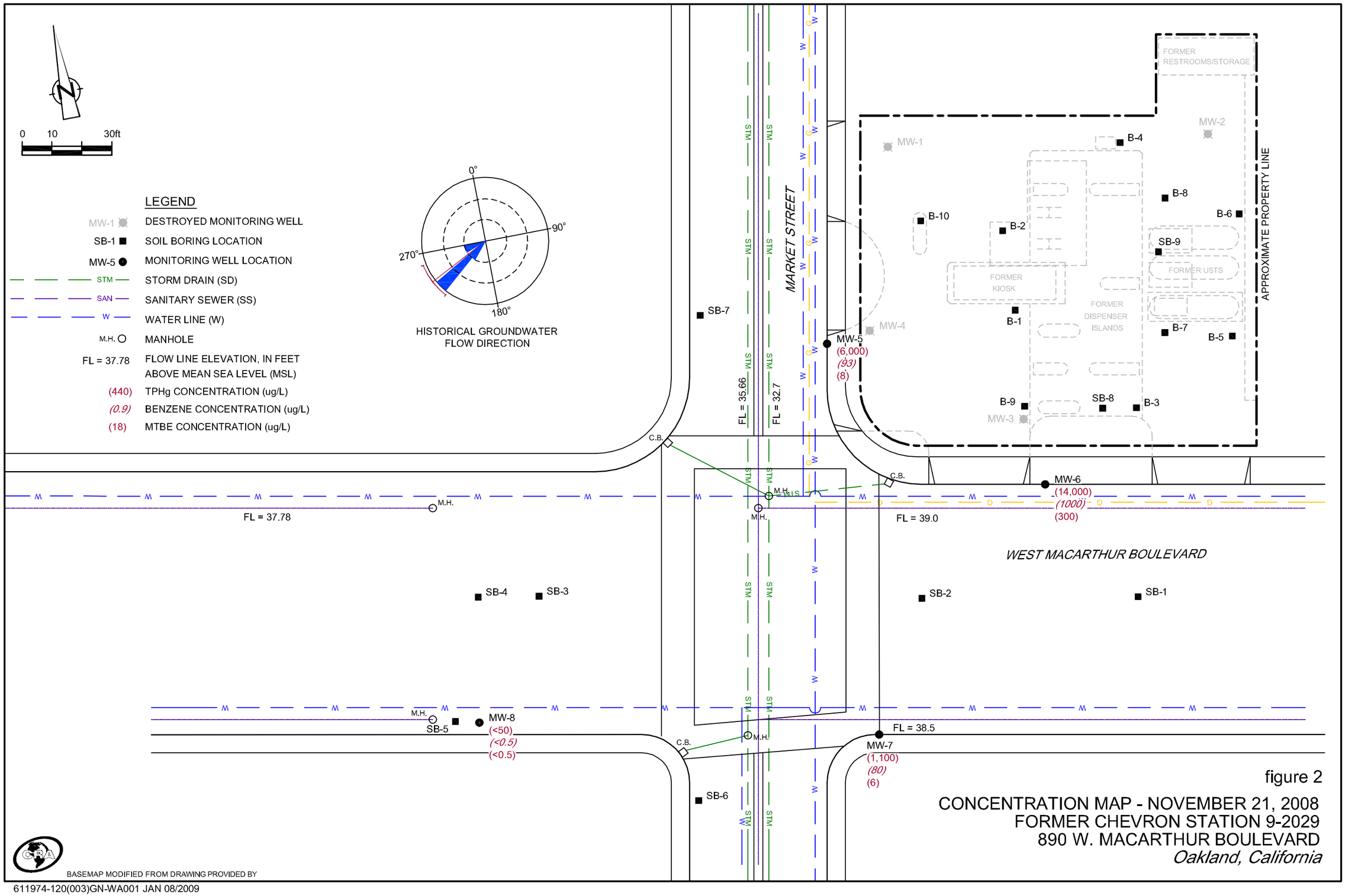


figure 2

CONCENTRATION MAP - NOVEMBER 21, 2008
FORMER CHEVRON STATION 9-2029
890 W. MACARTHUR BOULEVARD
Oakland, California

BASEMAP MODIFIED FROM DRAWING PROVIDED BY

611974-120(003)GN-WA001 JAN 08/2009

ATTACHMENT A

FOURTH QUARTER 2008 GROUNDWATER MONITORING AND SAMPLING REPORT

GETTLER-RYAN INC.

TRANSMITTAL

December 31, 2008
G-R #386911

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
#9-2029 (MTI)
890 West MacArthur Blvd.
Oakland, California
RO 0002438

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
2	December 29, 2008	Groundwater Monitoring and Sampling Report **Fourth Quarter Event of November 21, 2008**

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 Hartung-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 ***January 14, 2009*** at which time the final report will be distributed to the following:

cc: 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

Chevron

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

December 31, 2008
(date)

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

Re: Chevron Facility #9-2029

Address: 890 W. MacArthur Blvd., Oakland, California

I have reviewed the attached routine groundwater monitoring report dated December 31, 2008.

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,

SH Frerichs

Stacie H. Frerichs
Project Manager

Enclosure: Report

WELL CONDITION STATUS SHEET

Client/Facility #: Chevron #9-2029
Site Address: 890 West Macarthur Blvd.
City: Oakland, CA

Job # 386911
Event Date: 11-21-08
Sampler: SIT

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-5	OK									Morrison/6"/2	
MW-6	OK									"	
MW-7	OK									"	
MW-8	OK									"	

Comments

GETTLER-RYAN INC.

December 29, 2008
G-R Job #386911

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

RE: Fourth Quarter Event of November 21, 2008
Groundwater Monitoring & Sampling Report
Former Chevron Service Station #9-2029
890 West MacArthur Boulevard
Oakland, California

Dear Ms. Hartung-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.

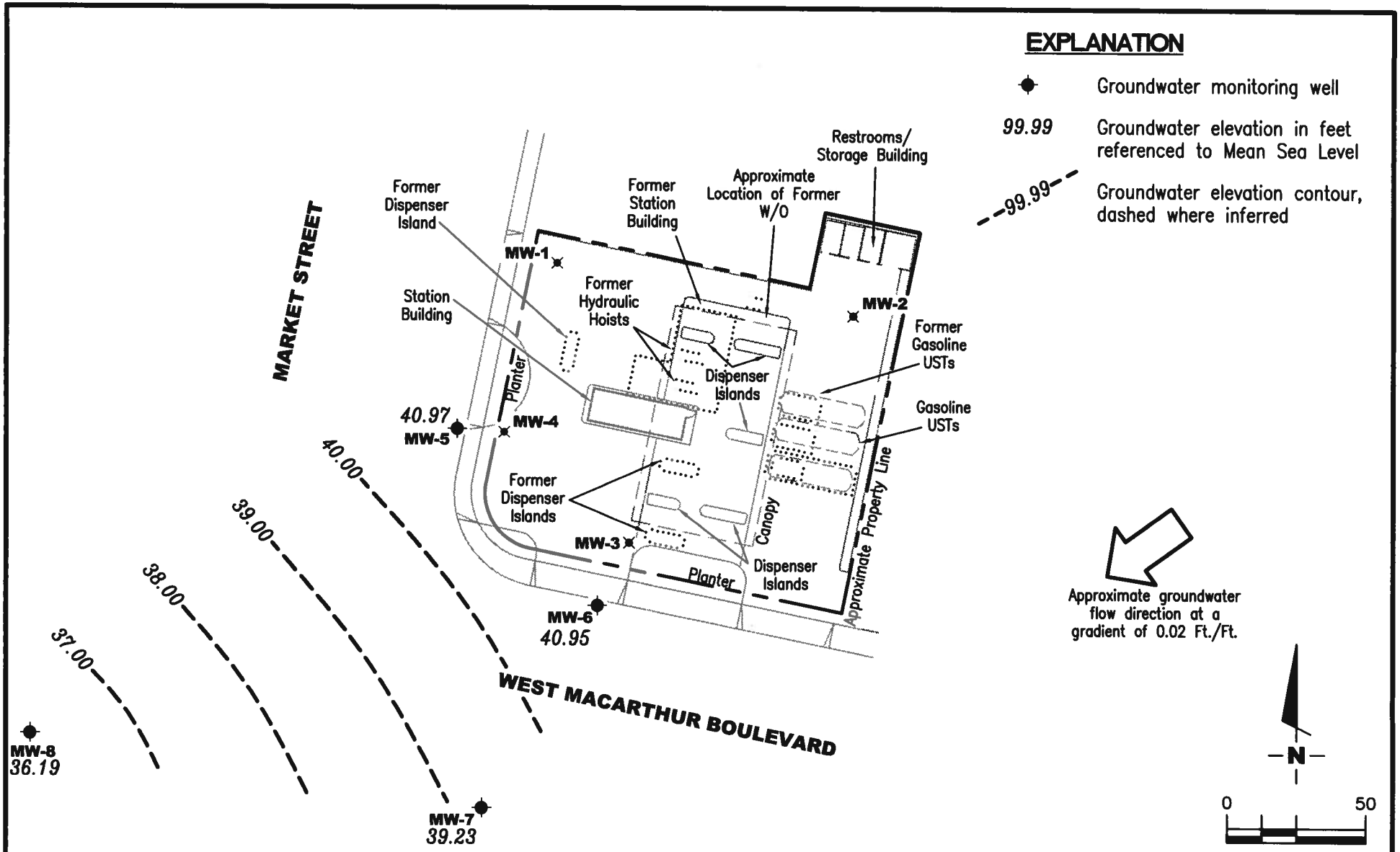
Sincerely,

-FOR-
Deanna L. Harding
Project Coordinator

Douglas J. Lee
Senior Geologist, P.G. No. 6882

PROFESSIONAL GEOLOGIST
DOUGLAS J. LEE
No. 6882
STATE OF CALIFORNIA

Figure 1: Potentiometric Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: 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 eng. and Virgil Chavez Surveying, MONITORING WELL PLAT, DRAWING NO. 211902, Dated: 10/08.

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

POTENTIOMETRIC MAP
Former Chevron Service Station #9-2029
890 West MacArthur Boulevard
Oakland, California

FIGURE
1

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
386911		November 21, 2008	

FILE NAME: P:\Enviro\Chevron\9-2029\Q08-9-2029.DWG | Layout Tab: Pot4

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-2029

890 West MacArthur Blvd.

Oakland, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-5									
08/22/08[1]	49.39	9.97	39.42	--	--	--	--	--	--
08/27/08[3]	49.39	10.03	39.36	54	0.5	0.8	<0.5	0.7	10
11/21/08[3]	**49.39**	**8.42**	**40.97**	**6,000**	**93**	**6**	**37**	**6**	**8**
MW-6									
08/22/08[1]	49.07	8.98	40.09	--	--	--	--	--	--
08/27/08[3]	49.07	8.98	40.09	6,000	990	4	350	530	440
11/21/08[3]	**49.07**	**8.12**	**40.95**	**14,000**	**1,000**	**15**	**1,300**	**550**	**300**
MW-7									
08/22/08[1]	48.74	10.20	38.54	--	--	--	--	--	--
08/27/08[3]	48.74	10.19	38.55	<50	<0.5	0.6	<0.5	0.7	6
11/21/08[3]	**48.74**	**9.51**	**39.23**	**1,100**	**80**	**<0.5**	**65**	**0.7**	**6**
MW-8									
08/22/08[1]	47.61	12.41	35.20	--	--	--	--	--	--
08/27/08[3]	47.61	12.42	35.19	<50	<0.5	0.7	<0.5	0.6	<0.5
11/21/08[3]	**47.61**	**11.42**	**36.19**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
MW-1									
03/12/02[1]	50.71	6.50	44.21	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[2]
06/07/02	50.71	8.69	42.02	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[2]
09/13/02	50.71	9.28	41.43	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[2]
12/13/02	50.71	8.48	42.23	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[2]
03/01/03	50.71	7.34	43.37	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<0.5[2]
06/27/03[3]	50.71	9.29	41.42	<50	<0.5	0.6	<0.5	<0.5	<0.5
09/30/03[3]	50.71	10.17	40.54	<50	<0.5	0.6	<0.5	<0.5	<0.5
12/03/03[3]	50.71	7.82	42.89	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/10/04[3]	50.71	6.57	44.14	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/30/04[3]	50.71	9.78	40.93	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/30/04[3]	50.71	9.91	40.80	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/29/04[3]	50.71	2.90	47.81	<50	<0.5	<0.5	<0.5	<0.5	<0.5

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-2029

890 West MacArthur Blvd.

Oakland, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-1 (cont)									
03/23/05[3]	50.71	2.90	47.81	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/22/05[3]	50.71	8.59	42.12	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/02/05[3]	50.71	9.38	41.33	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/02/05	50.71	8.44	42.27	--	--	--	--	--	--
03/20/06	50.71	3.05	47.66	--	--	--	--	--	--
06/01/06	50.71	6.77	43.94	--	--	--	--	--	--
09/11/06	50.71	9.18	41.53	--	--	--	--	--	--
DESTROYED									
MW-2									
03/12/02[1]	52.57	6.09	46.48	<50	<0.50	<0.50	<0.50	<1.5	<2.5/3[2]
06/07/02	52.57	8.65	43.92	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[2]
09/13/02	52.57	9.58	42.99	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[2]
12/13/02	52.57	8.50	44.07	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[2]
03/01/03	52.57	7.00	45.57	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<0.5[2]
06/27/03[3]	52.57	9.59	42.98	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/30/03[3]	52.57	10.64	41.93	<50	<0.5	<0.5	<0.5	<0.5	0.7
12/03/03[3]	52.57	7.54	45.03	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/10/04[3]	52.57	6.05	46.52	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/30/04[3]	52.57	10.15	42.42	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/30/04[3]	52.57	10.14	42.43	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/29/04[3]	52.57	2.29	50.28	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/23/05[3]	52.57	2.44	50.13	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/22/05[3]	52.57	8.99	43.58	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/02/05[3]	52.57	10.17	42.40	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/02/05	52.57	8.99	43.58	--	--	--	--	--	--
03/20/06	52.57	2.70	49.87	--	--	--	--	--	--
06/01/06	51.57	6.51	45.06	--	--	--	--	--	--
09/11/06	51.57	10.06	41.51	--	--	--	--	--	--
DESTROYED									
MW-3									
03/12/02[1]	50.31	6.50	43.81	12,000	600	8.5	1,100	370	700/650[2]
06/07/02	50.31	7.74	42.57	14,000	630	8.8	1,200	160	520/490[2]
09/13/02	50.31	9.73	40.58	3,000	270	3.2	200	11	600/640[2]
12/13/02	50.31	8.60	41.71	24,000	1,100	14	2,400	220	650/540[2]

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-2029

890 West MacArthur Blvd.

Oakland, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-3 (cont)									
03/01/03	50.31	6.75	43.56	16,000	500	9.0	1,200	130	460/330[2]
06/27/03[3]	50.31	9.25	41.06	9,500	390	6	450	30	470
09/30/03[3]	50.31	10.31	40.00	2,000	110	1	100	3	710
12/03/03[3]	50.31	8.18	42.13	19,000	970	8	2,100	85	420
03/10/04[3]	50.31	6.10	44.21	15,000	550	6	960	95	220
06/30/04[3]	50.31	9.80	40.51	3,200	150	1	100	3	660
09/30/04[3]	50.31	10.18	40.13	1,900	66	0.8	84	4	690
12/29/04[3]	50.31	4.58	45.73	16,000	470	7	820	47	170
03/23/05[3]	50.31	5.07	45.24	18,000	380	6	960	58	140
06/22/05[3]	50.31	8.12	42.19	16,000	700	6	950	62	300
09/02/05[3]	50.31	9.41	40.90	8,400	380	4	510	41	440
12/02/05[3]	50.31	7.97	42.34	16,000	490	6	1,200	32	170
03/20/06[3]	50.31	5.32	44.99	4,200	79	0.8	2	10	34
06/01/06[3]	50.31	7.07	43.24	5,400	67	1	26	3	28
09/11/06[3]	50.31	9.07	41.24	14,000	270	5	240	38	97
DESTROYED									
MW-4									
03/12/02[1]	49.93	5.34	44.59	9,700	360	5.3	1,100	150	170/170[2]
06/07/02	49.93	8.52	41.41	7,300	170	2.7	280	21	200/120[2]
09/13/02	49.93	9.86	40.07	5,800	92	4.5	80	14	190/160[2]
12/13/02	49.93	9.42	40.51	10,000	250	2.2	330	19	170/200[2]
03/01/03	49.93	7.33	42.60	12,000	300	4.6	900	110	160/100[2]
06/27/03[3]	49.93	9.62	40.31	7,500	110	2	200	58	130
09/30/03[3]	49.93	11.13	38.80	3,600	18	<1	16	7	520
12/03/03[3]	49.93	7.80	42.13	16,000	1,000	6	720	52	73
03/10/04[3]	49.93	6.69	43.24	2,200	230	3	610	71	55
06/30/04[3]	49.93	10.33	39.60	7,700	59	<1	78	17	110
09/30/04[3]	49.93	10.75	39.18	4,800	100	1	33	10	400
12/29/04[3]	49.93	3.34	46.59	13,000	250	3	480	27	42
03/23/05[3]	49.93	4.24	45.69	12,000	130	2	280	16	24
06/22/05[3]	49.93	7.95	41.98	6,400	290	2	11	11	18

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-2029

890 West MacArthur Blvd.

Oakland, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-4 (cont)									
09/02/05[3]	49.93	9.46	40.47	3,700	180	1	13	7	18
12/02/05[3]	49.93	7.60	42.33	11,000	840	5	480	24	34
03/20/06[3]	49.93	4.50	45.43	790	14	<0.5	1	0.6	2
06/01/06[3]	49.93	7.30	42.63	5,100	48	0.8	42	4	2
09/11/06[3]	49.93	9.38	40.55	6,700	64	3	44	3	4
DESTROYED									
TRIP BLANK									
QA									
03/12/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
06/07/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
09/13/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
12/13/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
03/01/03	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
06/27/03[3]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/30/03[3]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/03/03[3]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/10/04[3]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/30/04[3]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/30/04[3]	--	--	--	<50	<0.5	<0.7	<0.8	<0.8	<0.5
12/29/04[3]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/23/05[3]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/22/05[3]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/02/05[3]	--	--	--	<50	<0.5	1[4]	<0.5	1[4]	<0.5
12/02/05[3]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/20/06[3]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/01/06[3]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/11/06[3]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/27/08[3]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/21/08[3]	--	--	--	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-2029

890 West MacArthur Blvd.

Oakland, California

EXPLANATIONS:

TOC = Top of Casing
(ft.) = Feet
DTW = Depth to Water
GWE = Groundwater Elevation
(msl) = Mean sea level

TPH-G = Total Petroleum Hydrocarbons as Gasoline
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 were surveyed on October 1, 2008 by CRA. The benchmark for this survey was a USGS bronze disk located near the north end of the curb return at the Northwest corner of 38th Street and Broadway, (Benchmark Elevation = 85.41 feet, NGVD29).
TOC elevations were surveyed on March 14, 2002, by Virgil Chavez Land Surveying. The benchmark for this survey was a USGS bronze disk located near the north end of the curb return at the Northwest corner of 38th Street and Broadway, (Benchmark Elevation = 85.41 feet, NGVD29).

[1] Well development performed.
[2] MTBE by EPA method 8260.
[3] BTEX and MTBE by EPA Method 8260.
[4] Analytical result confirmed.

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Former Chevron Service Station #9-2029

890 West MacArthur Blvd.

Oakland, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
MW-5	08/27/08	--	2	10	<0.5	<0.5	<0.5	--	--
	11/21/08	--	**4**	**8**	**<0.5**	**<0.5**	**<0.5**	--	--
MW-6	08/27/08	--	390	440	<0.5	<0.5	6	--	--
	11/21/08	--	**320**	**300**	**<13**	**<13**	**<13**	--	--
MW-7	08/27/08	--	<2	6	<0.5	<0.5	<0.5	--	--
	11/21/08	--	**5**	**6**	**<0.5**	**<0.5**	**<0.5**	--	--
MW-8	08/27/08	--	<2	<0.5	<0.5	<0.5	<0.5	--	--
	11/21/08	--	**<2**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	--	--
MW-1	03/12/02	--	<100	<2	<2	<2	<2	<2	<2
	06/07/02	--	<100	<2	<2	<2	<2	<2	<2
	09/13/02	--	<100	<2	<2	<2	<2	<2	<2
	12/13/02	--	<100	<2	<2	<2	<2	<2	<2
	03/01/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	06/27/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/30/03	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	12/03/03	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	03/10/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	06/30/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/30/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	12/31/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	03/23/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	06/22/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/02/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	DESTROYED								
MW-2	03/12/02	--	<100	3	<2	<2	<2	<2	<2
	06/07/02	--	<100	<2	<2	<2	<2	<2	<2
	09/13/02	--	<100	<2	<2	<2	<2	<2	<2
	12/13/02	--	<100	<2	<2	<2	<2	<2	<2

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Former Chevron Service Station #9-2029

890 West MacArthur Blvd.

Oakland, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
MW-2 (cont)	03/01/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	06/27/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/30/03	<50	<5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5
	12/03/03	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	03/10/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	06/30/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/30/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	12/31/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	03/23/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	06/22/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	09/02/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	DESTROYED								
MW-3	03/12/02	--	<100	650	<2	<2	18	<2	<2
	06/07/02	--	230	490	<5.0	<5.0	11	<5.0	<5.0
	09/13/02	--	170	640	<2	<2	8	<2	<2
	12/13/02	--	240	540	<2	<2	29	31	<2
	03/01/03	--	160	330	<0.5	<0.5	10	<0.5	<0.5
	06/27/03	--	200	470	<0.5	<0.5	11	<0.5	<0.5
	09/30/03	<50	120	710	<0.5	<0.5	6	0.7	<0.5
	12/03/03	<250	200	420	<3	<3	14	<3	<3
	03/10/04	<50	140	220	<0.5	<0.5	5	<0.5	<0.5
	06/30/04	<50	100	660	<0.5	<0.5	5	<0.5	<0.5
	09/30/04	<50	72	690	<0.5	<0.5	4	0.5	<0.5
	12/31/04	<50	77	170	<0.5	<0.5	5	<0.5	<0.5
	03/23/05	<50	<5	140	<0.5	<0.5	4	<0.5	3
	06/22/05	<250	150	300	<3	<3	6	<3	<3
	09/02/05	<100	99	440	<1	<1	<1	<1	<1
	12/02/05	<100	66	170	<1	<1	5	<1	<1
	03/20/06	<50	14	34	<0.5	<0.5	<0.5	<0.5	<0.5
	06/01/06	<50	12	28	<0.5	<0.5	0.8	<0.5	<0.5
	09/11/06	<50	47	97	<0.5	<0.5	2	<0.5	<0.5
	DESTROYED								
MW-4	03/12/02	--	<100	170	<2	<2	13	<2	<2
	06/07/02	--	<100	120	<2	<2	14	<2	<2
	09/13/02	--	<100	160	<2	<2	14	<2	<2

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Former Chevron Service Station #9-2029

890 West MacArthur Blvd.

Oakland, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
MW-4 (cont)	12/13/02	--	<100	200	<2	<2	17	<2	<2
	03/01/03	--	19	100	<0.5	<0.5	8	<0.5	<0.5
	06/27/03	--	22	130	<0.5	<0.5	11	<0.5	<0.5
	09/30/03	<100	<10	520	<1	<1	9	<1	<1
	12/03/03	<50	18	73	<0.5	<0.5	5	<0.5	<0.5
	03/10/04	<50	11	55	<0.5	<0.5	4	<0.5	<0.5
	06/30/04	<100	<10	110	<1	<1	6	<1	<1
	09/30/04	<50	17	400	<0.5	<0.5	7	<0.5	<0.5
	12/31/04	<50	11	42	<0.5	<0.5	2	<0.5	<0.5
	03/23/05	<50	<5	24	<0.5	<0.5	1	<0.5	0.9
	06/22/05	<50	15	18	<0.5	<0.5	1	<0.5	<0.5
	09/02/05	<50	6	18	<0.5	<0.5	<0.5	<0.5	<0.5
	12/02/05	<50	11	34	<0.5	<0.5	1	<0.5	<0.5
	03/20/06	<50	<5	2	<0.5	<0.5	<0.5	<0.5	<0.5
	06/01/06	<50	<5	2	<0.5	<0.5	<0.5	<0.5	<0.5
	09/11/06	<50	<5	4	<0.5	<0.5	<0.5	<0.5	<0.5
	DESTROYED								

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Former Chevron Service Station #9-2029

890 West MacArthur Blvd.

Oakland, California

EXPLANATIONS:

TBA = t-Butyl alcohol
MTBE = Methyl Tertiary Butyl Ether
DIPE = Di-Isopropyl ether
ETBE = Ethyl t-butyl ether
TAME = t-Amyl methyl ether
1,2-DCA = 1,2-Dichloroethane
EDB = 1,2-Dibromoethane
(µg/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 #9-2029 | Job Number: 386911
Site Address: 890 West Macarthur Blvd. | Event Date: 11-21-08 (inclusive)
City: Oakland, CA | Sampler: SH

Well ID: MW-5 | Date Monitored: 11-21-08
Well Diameter: 2 in.
Total Depth: 24.99 ft.
Depth to Water: 8.42 ft.

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

☐ Check if water column is less then 0.50 ft.

16.57 xVF .17 = 2.82 x3 case volume = Estimated Purge Volume: 8.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.73

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	X
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): 1016 | Weather Conditions: Clear
Sample Time/Date: 1040 / 11-21-08 | Water Color: Clear | Odor: (Y) N
Approx. Flow Rate: 1 gpm. | Sediment Description: light
Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 9.37

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - (US))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1019	3	6.83	598	16.5		
1022	6	6.43	596	16.8		
1025	8.5	6.41	593	16.8		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-5	6 x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX(8260)/ 5 OXYS(8260)

COMMENTS: _____

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-2029 Job Number: 386911
Site Address: 890 West Macarthur Blvd. Event Date: 11-21-08 (inclusive)
City: Oakland, CA Sampler: SH

Well ID MW-6 Date Monitored: 11-21-08
Well Diameter 2 in.
Total Depth 24.97 ft.
Depth to Water 8.12 ft.

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

☐ Check if water column is less then 0.50 ft.

16.85 xVF .17 = 2.86 x3 case volume = Estimated Purge Volume: 9 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.49

Purge Equipment:		Sampling Equipment:	
Disposable Bailer		Disposable Bailer	X
Stainless Steel Bailer		Pressure Bailer	
Stack Pump	X	Discrete Bailer	
Suction Pump		Peristaltic Pump	
Grundfos		QED Bladder Pump	
Peristaltic Pump		Other:	
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): 1057 Weather Conditions: Clear
Sample Time/Date: 1120 / 11-21-08 Water Color: Clear Odor: Y / (N)
Approx. Flow Rate: 1 gpm. Sediment Description: light
Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 9.73

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1100	3	7.31	593	17.3		
1103	6	7.29	577	17.8		
1106	9	7.25	562	17.8		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 6	6 voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX(8260)/ 5 OXYS(8260)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-2029 Job Number: 386911
Site Address: 890 West Macarthur Blvd. Event Date: 11-21-08 (inclusive)
City: Oakland, CA Sampler: SH

Well ID MW- 7 Date Monitored: 11-21-08
Well Diameter 2 in.
Total Depth 24.98 ft.
Depth to Water 9.51 ft.

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

☐ Check if water column is less then 0.50 ft.

15.47 xVF .17 = 2.63 x3 case volume = Estimated Purge Volume: 8 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.60

Purge Equipment:
Disposable Bailer
Stainless Steel Bailer
Stack Pump X
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): 1137 Weather Conditions: Clear
Sample Time/Date: 1155 / 11-21-08 Water Color: Clear Odor: Y / N
Approx. Flow Rate: 1 gpm. Sediment Description: Light
Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 10.21

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1139	2	7.03	642	17.2		
1142	5	7.12	683	17.1		
1145	8	7.15	680	17.3		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 7	6 x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX(8260)/ 5 OXYS(8260)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-2029 Job Number: 386911
Site Address: 890 West Macarthur Blvd. Event Date: 11-21-08 (inclusive)
City: Oakland, CA Sampler: SH

Well ID MW-8 Date Monitored: 11-21-08
Well Diameter 2 in.
Total Depth 24.98 ft.
Depth to Water 11.42 ft.

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

☐ Check if water column is less then 0.50 ft.

13.56 xVF .17 = 2.31 x3 case volume = Estimated Purge Volume: 7 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: ~~22.09~~ 14.13

Purge Equipment:
Disposable Bailer X
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): 1208 Weather Conditions: Clear
Sample Time/Date: 1230 / 11-21-08 Water Color: Clear Odor: Y / N
Approx. Flow Rate: — gpm. Sediment Description: Light
Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 12.92

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm ~~µS~~)	Temperature ~~F~~ (C)	D.O. (mg/L)	ORP (mV)
1212	2.5	6.43	457	16.9		
1215	5	6.41	463	17.1		
1218	7	6.87	454	17.3		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-8	6 x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX(8260)/ 5 OXYS(8260)

COMMENTS:

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

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories

112408-05

For Lancaster Laboratories use only

Acct. #: 12099 Sample # 5540157-61 Group #: 009134

1121799

CRA MTI Project #: 61-1974

Facility #: ~~SS#9-2029 G-R#380911 Global ID#T0600173687~~ 890 WEST MACARTHUR BLVD., OAKLAND, CA

Site Address: MTI CRAKJ

Chevron PM: Lead Consultant: ~~G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568~~

Consultant/Office: ~~Deanna L. Harding (deanna@grinc.com)~~

Consultant Prj. Mgr.: 925-551-7555

Consultant Phone #: _____ Fax #: 925-551-7899

Sampler: SH

Matrix

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + ~~8260~~ 8021	TPH 8015 MOD GRO	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 full scan	5 Oxygenates (8260)	Total Lead Method	Dissolved Lead Method
										H	H				H		
QA	11-21-08	—	X			X			2	X	X						
MW-5	↓	1040	X			X			6	X	X				X		
MW-6		1120	X			X			6	X	X				X		
MW-7		1155	X			X			6	X	X				X		
MW-8		1230	X			X			6	X	X				X		

Analyses Requested

Preservation Codes

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 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 72 hour 48 hour
24 hour 4 day 5 day

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

EDF/EDD

	Relinquished by:	Date	Time	Received by:	Date	Time
1		11-22-08	0800		11-24-08	1135
2		11-24-08	1135		11/24/08	1254
3		11/24/08	1450			
	Relinquished by Commercial Carrier: UPS FedEx Other			Received by:		
	Temperature Upon Receipt 11.3 C°			Custody Seals Intact? Yes No		

Lancaster Laboratories
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Analysis Report

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

SAMPLE GROUP

The sample group for this submittal is 1121799. Samples arrived at the laboratory on Tuesday, November 25, 2008. The PO# for this group is 92029 and the release number is MTI.

Client Description	Lancaster Labs Number
QA-T-081121 NA Water	5540157
MW-5-W-081121 Grab Water	5540158
MW-6-W-081121 Grab Water	5540159
MW-7-W-081121 Grab Water	5540160
MW-8-W-081121 Grab Water	5540161

ELECTRONIC COPY TO Gettler-Ryan, Inc. Attn: Cheryl Hansen

Lancaster Laboratories

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Analysis Report

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

Respectfully Submitted,

Sarah Snyder
Specialist

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW5540157 **Group No. 1121799**

QA-T-081121 NA Water
Facility# 92029 Job# 386911 MTI# 61-1974 GRD
890 W Macarthur-Oakland T0600173887 QA
Collected:11/21/2008

Account Number: 12099

Submitted: 11/25/2008 09:55
Reported: 12/09/2008 at 11:15
Discard: 01/09/2009

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

2029Q

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	ug/l	1
06053	BTEX by 8260B					
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	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B modified	1	12/05/2008 12:11	Jennifer B Werner	1
06053	BTEX by 8260B	SW-846 8260B	1	12/02/2008 22:01	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/05/2008 12:11	Jennifer B Werner	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/02/2008 22:01	Michael A Ziegler	1

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Analysis Report

Lancaster Laboratories Sample No. WW5540158 **Group No. 1121799**

MW-5-W-081121 Grab Water
Facility# 92029 Job# 386911 MTI# 61-1974 GRD
890 W Macarthur-Oakland T0600173887 MW-5
Collected:11/21/2008 10:40 by SH

Account Number: 12099

Submitted: 11/25/2008 09:55
Reported: 12/09/2008 at 11:15
Discard: 01/09/2009

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

20295

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO N. CA water C6-C12	n.a.	6,000	250	ug/l	5
06056	BTEX+5 Oxygenates by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	8	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	4	2	ug/l	1
05401	Benzene	71-43-2	93	0.5	ug/l	1
05407	Toluene	108-88-3	6	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	37	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	6	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	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B modified	1	12/05/2008 23:35	Jennifer B Werner	5
06056	BTEX+5 Oxygenates by 8260B	SW-846 8260B	1	12/03/2008 11:16	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/05/2008 23:35	Jennifer B Werner	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/03/2008 11:16	Ginelle L Feister	1

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Analysis Report

Lancaster Laboratories Sample No. WW5540159 **Group No. 1121799**

MW-6-W-081121 Grab Water
Facility# 92029 Job# 386911 MTI# 61-1974 GRD
890 W Macarthur-Oakland T0600173887 MW-6
Collected:11/21/2008 11:20 by SH

Account Number: 12099

Submitted: 11/25/2008 09:55
Reported: 12/09/2008 at 11:16
Discard: 01/09/2009

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

20296

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO N. CA water C6-C12	n.a.	14,000	500	ug/l	10
06056	BTEX+5 Oxygenates by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	300	13	ug/l	25
02011	di-Isopropyl ether	108-20-3	N.D.	13	ug/l	25
02013	Ethyl t-butyl ether	637-92-3	N.D.	13	ug/l	25
02014	t-Amyl methyl ether	994-05-8	N.D.	13	ug/l	25
02015	t-Butyl alcohol	75-65-0	320	50	ug/l	25
05401	Benzene	71-43-2	1,000	13	ug/l	25
05407	Toluene	108-88-3	15	13	ug/l	25
05415	Ethylbenzene	100-41-4	1,300	13	ug/l	25
06310	Xylene (Total)	1330-20-7	550	13	ug/l	25

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	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B modified	1	12/06/2008 00:05	Jennifer B Werner	10
06056	BTEX+5 Oxygenates by 8260B	SW-846 8260B	1	12/03/2008 11:41	Ginelle L Feister	25
01146	GC VOA Water Prep	SW-846 5030B	1	12/06/2008 00:05	Jennifer B Werner	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/03/2008 11:41	Ginelle L Feister	25

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Analysis Report

Lancaster Laboratories Sample No. WW5540160 **Group No. 1121799**

MW-7-W-081121 Grab Water
Facility# 92029 Job# 386911 MTI# 61-1974 GRD
890 W Macarthur-Oakland T0600173887 MW-7
Collected:11/21/2008 11:55 by SH

Account Number: 12099

Submitted: 11/25/2008 09:55
Reported: 12/09/2008 at 11:16
Discard: 01/09/2009

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

20297

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO N. CA water C6-C12	n.a.	1,100	50	ug/l	1
06056	BTEX+5 Oxygenates by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	6	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	5	2	ug/l	1
05401	Benzene	71-43-2	80	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	65	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	0.7	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	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B modified	1	12/05/2008 20:07	Jennifer B Werner	1
06056	BTEX+5 Oxygenates by 8260B	SW-846 8260B	1	12/04/2008 21:32	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/05/2008 20:07	Jennifer B Werner	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/04/2008 21:32	Michael A Ziegler	1

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Analysis Report

Lancaster Laboratories Sample No. WW5540161 **Group No. 1121799**

MW-8-W-081121 Grab Water
Facility# 92029 Job# 386911 MTI# 61-1974 GRD
890 W Macarthur-Oakland T0600173887 MW-8
Collected:11/21/2008 12:30 by SH

Account Number: 12099

Submitted: 11/25/2008 09:55
Reported: 12/09/2008 at 11:16
Discard: 01/09/2009

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

20298

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	ug/l	1
06056	BTEX+5 Oxygenates by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	2	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	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B modified	1	12/05/2008 20:37	Jennifer B Werner	1
06056	BTEX+5 Oxygenates by 8260B	SW-846 8260B	1	12/03/2008 10:01	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/05/2008 20:37	Jennifer B Werner	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/03/2008 10:01	Ginelle L Feister	1

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Analysis Report

Quality Control Summary

Client Name: Chevron c/o CRA
Reported: 12/09/08 at 11:16 AM

Group Number: 1121799

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: 08339B08A	Sample number(s): 5540157-5540161							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	100	109	75-135	9	30
Batch number: D083373AA	Sample number(s): 5540157							
Benzene	N.D.	0.5	ug/l	90		78-119		
Toluene	N.D.	0.5	ug/l	94		85-115		
Ethylbenzene	N.D.	0.5	ug/l	91		82-119		
Xylene (Total)	N.D.	0.5	ug/l	95		83-113		
Batch number: D083393AA	Sample number(s): 5540160							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	106		73-119		
di-Isopropyl ether	N.D.	0.5	ug/l	98		70-123		
Ethyl t-butyl ether	N.D.	0.5	ug/l	99		74-120		
t-Amyl methyl ether	N.D.	0.5	ug/l	102		79-113		
t-Butyl alcohol	N.D.	2.	ug/l	97		74-117		
Benzene	N.D.	0.5	ug/l	94		78-119		
Toluene	N.D.	0.5	ug/l	95		85-115		
Ethylbenzene	N.D.	0.5	ug/l	94		82-119		
Xylene (Total)	N.D.	0.5	ug/l	95		83-113		
Batch number: Z083382AA	Sample number(s): 5540158-5540159,5540161							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	98		73-119		
di-Isopropyl ether	N.D.	0.5	ug/l	96		70-123		
Ethyl t-butyl ether	N.D.	0.5	ug/l	97		74-120		
t-Amyl methyl ether	N.D.	0.5	ug/l	101		79-113		
t-Butyl alcohol	N.D.	2.	ug/l	85		74-117		
Benzene	N.D.	0.5	ug/l	97		78-119		
Toluene	N.D.	0.5	ug/l	106		85-115		
Ethylbenzene	N.D.	0.5	ug/l	104		82-119		
Xylene (Total)	N.D.	0.5	ug/l	103		83-113		

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: 08339B08A	Sample number(s): 5540157-5540161 UNSPK: P540148								
TPH-GRO N. CA water C6-C12	128		63-154						
Batch number: D083373AA	Sample number(s): 5540157 UNSPK: P540308								
Benzene	87	87	83-128	0	30				

*- 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: 12/09/08 at 11:16 AM

Group Number: 1121799

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
Toluene	88	88	83-127	0	30				
Ethylbenzene	87	88	82-129	2	30				
Xylene (Total)	87	88	82-130	2	30				
Batch number: D083393AA	Sample number(s): 5540160 UNSPK: P541612								
Methyl Tertiary Butyl Ether	108	88	69-127	20	30				
di-Isopropyl ether	99	84	68-129	17	30				
Ethyl t-butyl ether	101	84	78-119	18	30				
t-Amyl methyl ether	104	83	72-125	21	30				
t-Butyl alcohol	97	78	70-121	20	30				
Benzene	100	83	83-128	6	30				
Toluene	102	84	83-127	20	30				
Ethylbenzene	101	82	82-129	21	30				
Xylene (Total)	102	82	82-130	20	30				
Batch number: Z083382AA	Sample number(s): 5540158-5540159,5540161 UNSPK: 5540161								
Methyl Tertiary Butyl Ether	100	104	69-127	4	30				
di-Isopropyl ether	97	98	68-129	2	30				
Ethyl t-butyl ether	97	100	78-119	3	30				
t-Amyl methyl ether	100	103	72-125	2	30				
t-Butyl alcohol	114	75	70-121	41*	30				
Benzene	103	103	83-128	0	30				
Toluene	110	111	83-127	0	30				
Ethylbenzene	110	110	82-129	0	30				
Xylene (Total)	108	108	82-130	0	30				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 08339B08A

	Trifluorotoluene-F
5540157	109
5540158	124
5540159	114
5540160	121
5540161	108
Blank	111
LCS	117
LCSD	119
MS	123
Limits:	63-135

Analysis Name: BTEX by 8260B
Batch number: D083373AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene

*- 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: 12/09/08 at 11:16 AM

Group Number: 1121799

Surrogate Quality Control

5540157	88	96	94	94
Blank	87	98	96	96
LCS	89	100	96	97
MS	89	99	95	97
MSD	91	100	96	99
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX+5 Oxygenates by 8260B
Batch number: D083393AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5540160	91	95	91	98
Blank	90	96	93	95
LCS	94	101	95	101
MS	92	99	93	99
MSD	92	98	92	98
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX+5 Oxygenates by 8260B
Batch number: Z083382AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5540158	97	92	111	95
5540159	98	95	106	95
5540161	100	96	109	93
Blank	101	97	107	95
LCS	101	97	107	99
MS	100	98	107	102
MSD	101	99	106	99
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:

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 limit of quantitation, 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 quatitated 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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