RECEIVED

3:24 pm, Feb 10, 2009

Alameda County
Environmental Health

Stacie H. Frerichs
Team Lead
Marketing Business Unit

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

February 6, 2009
(date)

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

Re: Chevron Facility # 9-8341

Address: 3530 MacArthur Boulevard, Oakland, California

I have reviewed the attached report titled *Fourth Quarter 2008 Groundwater Monitoring and Sampling Report* and dated February 6, 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 6, 2009 Reference No. 611650

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

Re: Fourth Quarter 2008 Groundwater Monitoring Report and
Proposed Sampling Reductions
Chevron Service Station 9-8341
3530 MacArthur Boulevard
Oakland, California
LOP Case #RO0000405

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 8, 2008) presents the results of the monitoring and sampling of wells MW-1 through MW-3 during fourth quarter 2008. These wells 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 2008, petroleum hydrocarbon concentrations in the site wells generally were similar to those observed during 2007. Total petroleum hydrocarbons as gasoline (TPHg) and benzene, toluene, ethylbenzene, and xylenes (BTEX) were not detected in wells MW-1, MW-2, or MW-3 during 2008, and generally have not been detected in these wells throughout the course of monitoring. Elevated concentrations of methyl tertiary butyl ether (MTBE) (ranging from 740 to 1,700 micrograms per liter [µg/L]) were detected in well MW-2 during 2008; the detected concentrations are consistent with historical fluctuations. Although fluctuations occur, the MTBE concentrations in this well have significantly decreased since the start of monitoring. Low concentrations of MTBE (up to 2 µg/L) were detected in well MW-3 during 2008; low concentrations of MTBE are periodically detected in this well. MTBE was not detected in well MW-1 during 2008 and has not been detected since 1998.

Based on the analytical results, impacted groundwater (MTBE) remains beneath the site, primarily in the area of well MW-2 downgradient of the underground storage tanks (USTs) and dispensers. The MTBE concentrations in this well have significantly decreased since the start of monitoring. Only low concentrations of MTBE have been detected in well MW-3. CRA recommends continued monitoring and sampling to further evaluate groundwater quality and

Equal
Employment
Opportunity Employer

concentration trends. However, as petroleum hydrocarbons generally are not detected in wells MW-1 and MW-3, CRA proposes a reduction of the monitoring frequency of these wells to semi-annual. If we do not receive a response from ACEH regarding the proposed sampling reductions, we will assume consent and these wells will not be sampled during second quarter 2009.

As requested by Alameda County Environmental Health (ACEH), five borings downgradient and crossgradient of the site were attempted in December 2006 to further evaluate the extent of impacted groundwater. The proposed boring locations were in MacArthur Boulevard and Magee Avenue as the nearby property owners would not grant access. However, the borings could not be completed due to underground utility conflicts. Available options to further investigate the extent of impacted groundwater are currently being evaluated.

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

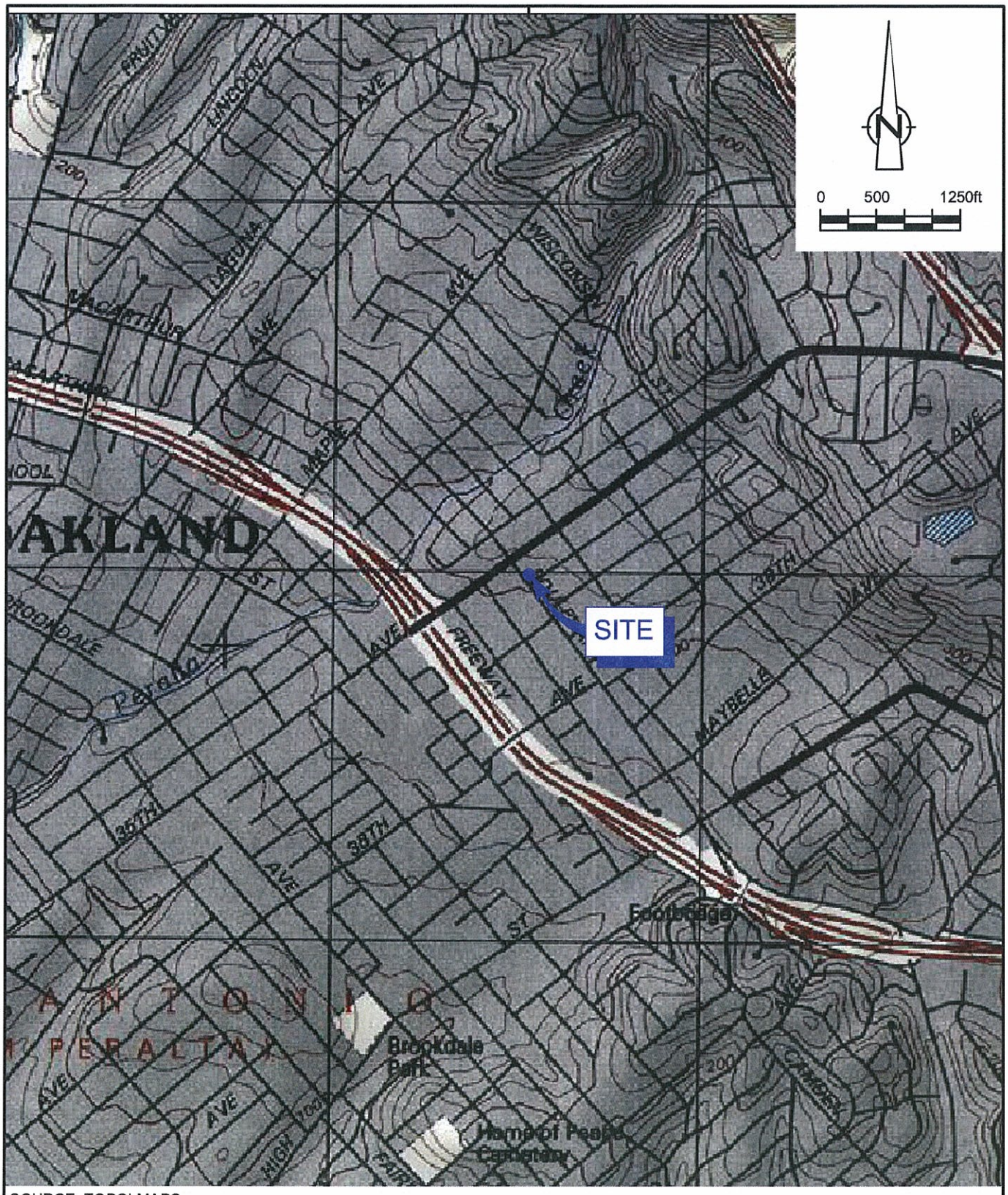
James P. Kiernan, P.E. #C68498

CB/kw/2
Encl.

Figure 1 Vicinity Map
Figure 2 Concentration Map – November 13, 2008

Attachment A Fourth Quarter 2008 Groundwater Monitoring and Sampling Report

cc: Ms. Stacie Frerichs, Chevron Environmental Management Company



SOURCE: TOPO! MAPS.

figure 1

VICINITY MAP
CHEVRON SERVICE STATION 9-8341
3530 MACARTHUR BOULEVARD
Oakland, California

CRA

611650-203(PRES001)GN-WA001 OCT 28/2008

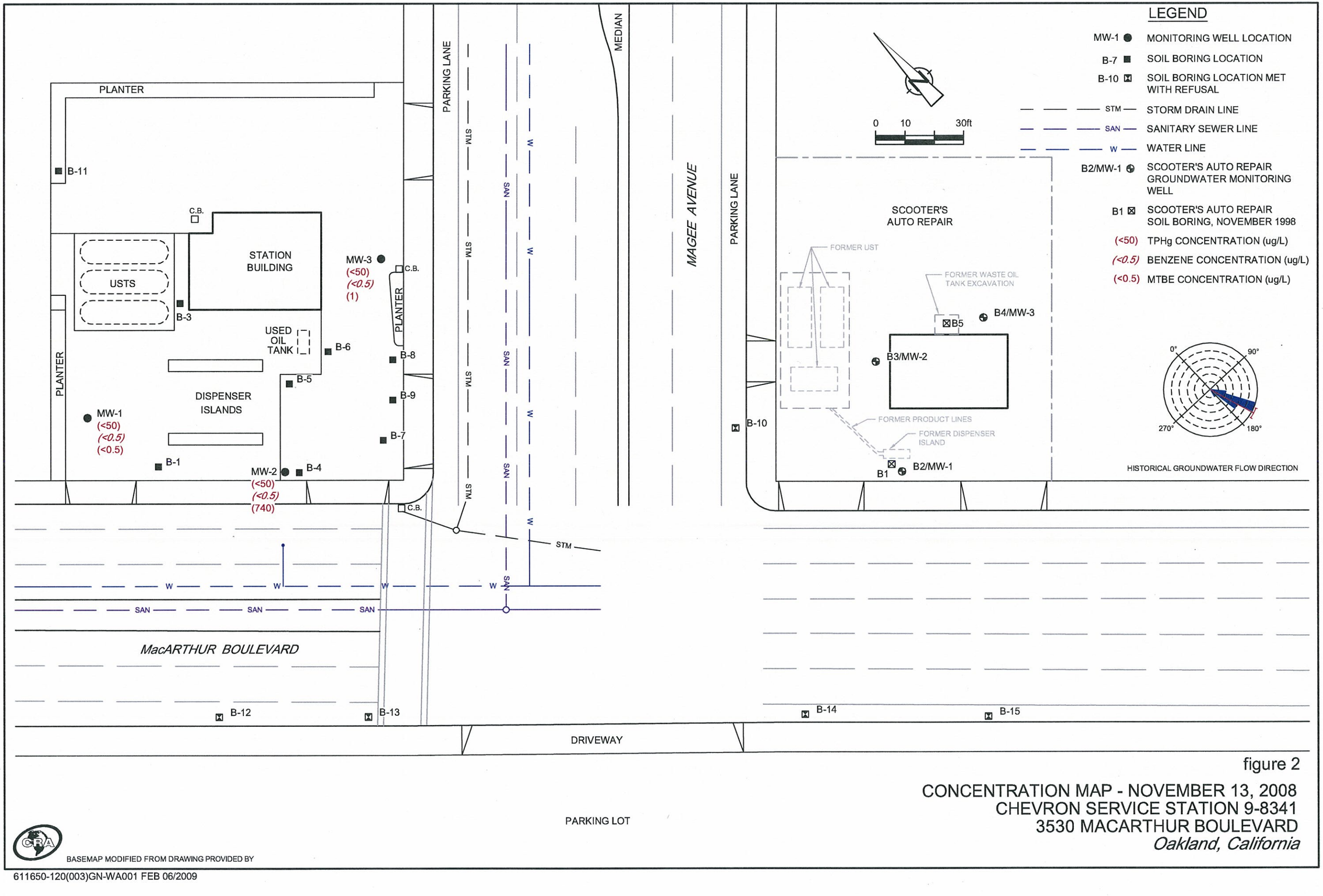


figure 2

CONCENTRATION MAP - NOVEMBER 13, 2008
CHEVRON SERVICE STATION 9-8341
3530 MACARTHUR BOULEVARD
Oakland, California

BASEMAP MODIFIED FROM DRAWING PROVIDED BY

611650-120(003)GN-WA001 FEB 06/2009

ATTACHMENT A

FOURTH QUARTER 2008 GROUNDWATER MONITORING AND SAMPLING REPORT

GETTLER-RYAN INC.

TRANSMITTAL

December 17, 2008
G-R #386346

TO: Mr. Brian Carey
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: 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
2	December 8, 2008	Groundwater Monitoring and Sampling Report **Fourth Quarter Event of November 13, 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 H. Frerichs, Chevron EMC, 6111 Bollinger Canyon Road, Room 3596, San Ramon, CA 94583

Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to ***December 30, 2008,*** 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. 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

trans/9-8341-SHF

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 17, 2008
(date)

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

Re: Chevron Facility #9-8341

Address: 3530 MacArthur Blvd., Oakland, California

I have reviewed the attached routine groundwater monitoring report dated December 17, 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 #9-8341** Job # **386346**

Site Address: **3530 Macarthur Blvd.** Event Date: 11-13-08

City: **Oakland, CA** 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 Yes / No
MW-1	OK	M	N/A	N/A	OK	OK	OK	N	N	1' DIAMOND PLATE 2' CIRCULAR VAULT	
MW-2	OK	→	→	→	→	→	→	N	N	BOART L | 8" | 3	
MW-3	OK	→	S=2	→	OK	→	→	N	N	MORRISON | 12" | 2	

Comments

GETTLER-RYAN INC.

December 8, 2008
G-R Job #386346

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

RE: Fourth Quarter Event of November 13, 2008
Groundwater Monitoring & Sampling Report
Chevron Service Station #9-8341
3530 MacArthur Boulevard
Oakland, California

Dear Ms. H. Frerichs:

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

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

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

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

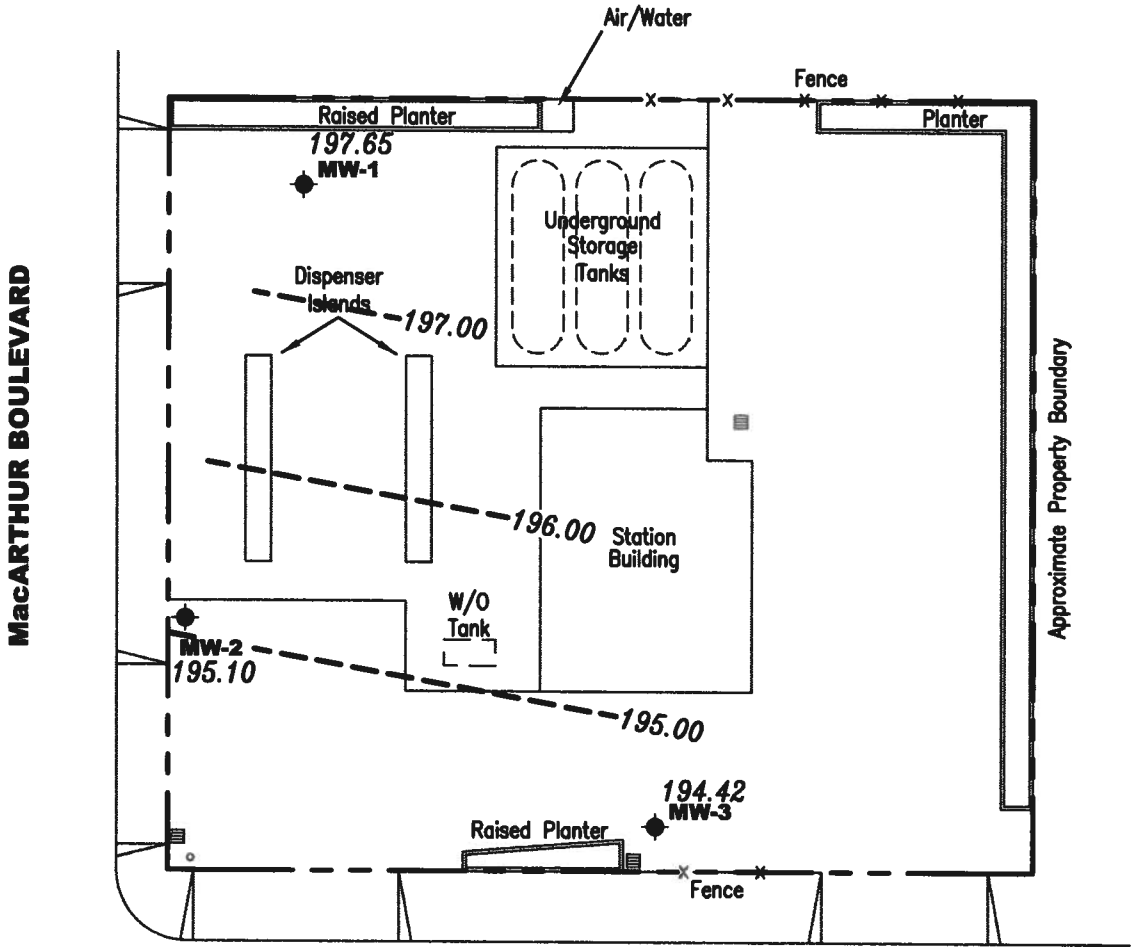
Sincerely,

Deanna L. Harding
Project Coordinator

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

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

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



EXPLANATION

- Groundwater monitoring well
- 99.99 — Groundwater elevation in feet referenced to Mean Sea Level
- 99.99 — Groundwater elevation contour, dashed where inferred

Approximate groundwater flow direction at a gradient of 0.04 Ft./Ft.

N

0 30

Scale in Feet

Gettler - Ryan Inc.
6747 Sierra Court, Suite J
Dublin, CA 94568
(925) 551-7555

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

FIGURE 1

JOB NUMBER 386346 | REVIEWED BY | DATE November 13, 2008 | REVISED DATE

FILE NAME: P:\Enviro\Chevron\9-8341\Q08-9-8341.dwg | Layout Tab: Pot4

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-G (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	197.45	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

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-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	ETHANOL♦ (µg/L)
MW-1 (cont)										
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	--
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**	**--**
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 (ft.)	GWE (msl)	DTW (ft.)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	ETHANOL♦ (µg/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	--

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-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	ETHANOL♦ (µg/L)
MW-2 (cont)										
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**	**--**
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

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-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	ETHANOL♦ (µg/L)
MW-3 (cont)										
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
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**	**--**
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	--

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-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	ETHANOL♦ (µg/L)
TRIP BLANK (cont)										
04/15/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
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	--

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-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	ETHANOL♦ (µg/L)
QA (cont)										--
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	--
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**	--

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-G = Total Petroleum Hydrocarbons as Gasoline

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. 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 #9-8341 Job Number: 386346
Site Address: 3530 Macarthur Blvd. Event Date: 11-13-08 (inclusive)
City: Oakland, CA Sampler: FT

Well ID MW-1 Date Monitored: 11-13-08
Well Diameter 2 in.
Total Depth 27.26 ft.
Depth to Water 4.82 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.

22.44 xVF .17 = 3.81 x3 case volume = Estimated Purge Volume: 11.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.30

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): 1015 Weather Conditions: SUNNY
Sample Time/Date: 1045 / 11-13-08 Water Color: LT. BRN. Odor: Y / (N)
Approx. Flow Rate: ≈ 2.0 gpm. Sediment Description:
Did well de-water? No If yes, Time: Volume: gal. DTW @ Sampling: 9.25

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1017	3.5	7.22	550	21.2		
1020	7.0	7.19	557	20.9		
1024	11.0	7.17	562	20.6		

LABORATORY INFORMATION

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

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-8341 Job Number: 386346
Site Address: 3530 Macarthur Blvd. Event Date: 11.13.08 (inclusive)
City: Oakland, CA Sampler: FT

Well ID MW-2 Date Monitored: 11.13.08
Well Diameter 2 in.
Total Depth 32.78 ft.
Depth to Water 3.78 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.

29.00 xVF .17 = 4.93 x3 case volume = Estimated Purge Volume: 15.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.58

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): 1114 Weather Conditions: Sunny
Sample Time/Date: 1136 / 11.13.08 Water Color: LT. BRN. Odor: Y / (N)
Approx. Flow Rate: ≈2.0 gpm. Sediment Description: S. SILTY
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 9.52

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1119	5.0	7.21	606	22.5		
1122	10.0	7.18	615	22.1		
1125	15.0	7.15	621	21.9		

LABORATORY INFORMATION

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

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-8341 | Job Number: 386346
Site Address: 3530 Macarthur Blvd. | Event Date: 11.13.08 (inclusive)
City: Oakland, CA | Sampler: FT

Well ID: MW-3 | Date Monitored: 11.13.08
Well Diameter: 2 in.
Total Depth: 32.35 ft.
Depth to Water: 4.68 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.

27.67 xVF .17 = 4.70 x3 case volume = Estimated Purge Volume: 14.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.21

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): 1037 | Weather Conditions: Sunny
Sample Time/Date: 1105 / 11.13.08 | Water Color: CLEAR Odor: Y / (N)
Approx. Flow Rate: ≈1.5 gpm. | Sediment Description: ____
Did well de-water? No If yes, Time: ____ Volume: ____ gal. DTW @ Sampling: 9.21

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature ((C) / F)	D.O. (mg/L)	ORP (mV)
1040	4.5	7.19	513	21.4		
1043	9.0	7.16	520	21.1		
1048	14.0	7.14	526	20.9		

LABORATORY INFORMATION

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

COMMENTS: ____

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

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories

111308-07

For Lancaster Laboratories use only
Acct. #: 12099 Sample # 5528858-61 Group #: 008886

1120125

CRA MTI Project #: 61H-1650

Facility #: SS#9-8341 G-R#386346 Global ID#T0600101790
Site Address: 3530 MACARTHUR BLVD., OAKLAND, CA
Chevron PM: MTI Lead Consultant: CRAKJ
Consultant/Office: ~~G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568~~
Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)
Consultant Phone #: 925-551-7555 Fax #: 925-551-7899
Sampler: FRANK TERMINONI

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water	Matrix: Oil	Matrix: Air	Potable	NPDES	Total Number of Containers	BTEX + MTBE 8260	8021	TPH 8015 MOD GRO	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 full scan	Oxygenates	Total Lead Method	Dissolved Lead Method
QA	11-13-08					W					2	X	X							
MW-1		1145	X								6	X	X							
MW-2		1136	X								6	X	X							
MW-3		1105	X								6	X	X							

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

	Date	Time		Date	Time
Relinquished by:	11-13-08	1550	Received by: A. Salazar 13NOV08	13NOV08	1550
Relinquished by: A. Salazar 13NOV08		1630	Received by: FEDEX		
Relinquished by:			Received by:		
Relinquished by Commercial Carrier: UPS FedEx Other			Received by:	11/14/08	0800
Temperature Upon Receipt 3.4 °C			Custody Seals Intact? Yes No		

Lancaster Laboratories

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

Analysis Report

ANALYTICAL RESULTS

Prepared for:

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

916-677-3407

RECEIVED
NOV 26 2008
GETTLER-RYAN INC.
GENERAL CONTRACTORS

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 1120125. Samples arrived at the laboratory on Friday, November 14, 2008. The PO# for this group is 98341 and the release number is MTI.

Client Description	Lancaster Labs Number
QA-T-081113 NA Water	5528858
MW-1-W-081113 Grab Water	5528859
MW-2-W-081113 Grab Water	5528860
MW-3-W-081113 Grab Water	5528861

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

Lancaster Laboratories

Analysis Report

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

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

Respectfully Submitted,

Dorothy M. Love

Dorothy M. Love
Group Leader

Lancaster Laboratories

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

Analysis Report

Lancaster Laboratories Sample No. WW5528858 **Group No. 1120125**

QA-T-081113 NA Water
Facility# 98341 Job# 386346 MTI# 61H-1650 GRD
3530 MacArthur-Oakland T0600101790 QA
Collected:11/13/2008

Account Number: 12099

Submitted: 11/14/2008 08:55
Reported: 11/26/2008 at 11:04
Discard: 12/27/2008

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

8341Q

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
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	SW-846 8015B modified	1	11/20/2008 19:54	Kathie J Bowman	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	11/22/2008 17:30	Kelly E Brickley	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/20/2008 19:54	Kathie J Bowman	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/22/2008 17:30	Kelly E Brickley	1

Lancaster Laboratories

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

Analysis Report

Lancaster Laboratories Sample No. WW5528859 **Group No. 1120125**

MW-1-W-081113 Grab Water
Facility# 98341 Job# 386346 MTI# 61H-1650 GRD
3530 MacArthur-Oakland T0600101790 MW-1
Collected:11/13/2008 11:45 by FT

Account Number: 12099

Submitted: 11/14/2008 08:55
Reported: 11/26/2008 at 11:04
Discard: 12/27/2008

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

83411

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
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	SW-846 8015B modified	1	11/20/2008 20:18	Kathie J Bowman	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	11/22/2008 17:51	Kelly E Brickley	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/20/2008 20:18	Kathie J Bowman	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/22/2008 17:51	Kelly E Brickley	1

Lancaster Laboratories

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

Analysis Report

Lancaster Laboratories Sample No. WW5528860 **Group No. 1120125**

MW-2-W-081113 Grab Water
Facility# 98341 Job# 386346 MTI# 61H-1650 GRD
3530 MacArthur-Oakland T0600101790 MW-2
Collected:11/13/2008 11:36 by FT

Account Number: 12099

Submitted: 11/14/2008 08:55
Reported: 11/26/2008 at 11:04
Discard: 12/27/2008

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

83412

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
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	740	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	SW-846 8015B modified	1	11/21/2008 02:50	Kathie J Bowman	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	11/22/2008 18:54	Kelly E Brickley	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/21/2008 02:50	Kathie J Bowman	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/22/2008 18:54	Kelly E Brickley	1

Lancaster Laboratories

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

Analysis Report

Lancaster Laboratories Sample No. WW5528861 **Group No. 1120125**

MW-3-W-081113 Grab Water
Facility# 98341 Job# 386346 MTI# 61H-1650 GRD
3530 MacArthur-Oakland T0600101790 MW-3
Collected:11/13/2008 11:05 by FT

Account Number: 12099

Submitted: 11/14/2008 08:55
Reported: 11/26/2008 at 11:04
Discard: 12/27/2008

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

83413

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
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	1	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	SW-846 8015B modified	1	11/24/2008 23:43	Linda C Pape	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	11/22/2008 19:16	Kelly E Brickley	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/24/2008 23:43	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/22/2008 19:16	Kelly E Brickley	1

Lancaster Laboratories

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

Analysis Report

Quality Control Summary

Client Name: Chevron c/o CRA
Reported: 11/26/08 at 11:04 AM

Group Number: 1120125

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: 08324A07A	Sample number(s): 5528858-5528860							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	100	109	75-135	9	30
Batch number: 08326F20A	Sample number(s): 5528861							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	100	100	75-135	0	30
Batch number: F083274AA	Sample number(s): 5528858-5528861							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	95		73-119		
Benzene	N.D.	0.5	ug/l	99		78-119		
Toluene	N.D.	0.5	ug/l	101		85-115		
Ethylbenzene	N.D.	0.5	ug/l	100		82-119		
Xylene (Total)	N.D.	0.5	ug/l	102		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: 08324A07A	Sample number(s): 5528858-5528860 UNSPK: 5528859								
TPH-GRO N. CA water C6-C12	136		63-154						
Batch number: 08326F20A	Sample number(s): 5528861 UNSPK: P530611								
TPH-GRO N. CA water C6-C12	109		63-154						
Batch number: F083274AA	Sample number(s): 5528858-5528861 UNSPK: 5528859								
Methyl Tertiary Butyl Ether	100	94	69-127	6	30				
Benzene	108	101	83-128	7	30				
Toluene	109	101	83-127	7	30				
Ethylbenzene	110	101	82-129	8	30				
Xylene (Total)	111	103	82-130	7	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: 08324A07A
Trifluorotoluene-F

*- 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: 11/26/08 at 11:04 AM

Group Number: 1120125

Surrogate Quality Control

5528858	113
5528859	112
5528860	109
Blank	112
LCS	122
LCSD	125
MS	126
Limits:	63-135

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 08326F20A

	Trifluorotoluene-F
5528861	84
Blank	83
LCS	109
LCSD	108
MS	109
Limits:	63-135

Analysis Name: BTEX+MTBE by 8260B
Batch number: F083274AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5528858	92	93	96	97
5528859	93	94	96	96
5528860	92	92	94	97
5528861	91	91	94	95
Blank	92	90	94	93
LCS	93	93	96	99
MS	94	93	95	98
MSD	93	92	95	98
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.

WARRANTY AND LIMITS OF LIABILITY – In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.