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9:01 am, Mar 25, 2010

Alameda County
Environmental Health

Stacie H. Frerichs
Team Lead
Marketing Business Unit

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

March 24, 2010
(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 *First Semi-Annual 2010 Groundwater Monitoring Report*_____ and dated March 24, 2010.

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

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

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

Sincerely,

SH Frerichs

Stacie H. Frerichs
Project Manager

Enclosure: Report

CONESTOGA-ROVERS
& ASSOCIATES

10969 Trade Center Drive, Suite 106, Rancho Cordova, CA 95670
Telephone: 916-889-8900 Facsimile: 916-889-8999
www.CRAworld.com

March 24, 2010 Reference No. 611650

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

Re: First Semi-Annual 2010 Groundwater Monitoring Report
Former Chevron Service Station No. 9-8341
3530 MacArthur Boulevard
Oakland, California
LOP Case #RO0000405

Dear Mr. Detterman:

Conestoga-Rovers & Associates (CRA) is submitting the attached *Groundwater Monitoring and Sampling Report* (report) to Alameda County Environmental Health (ACEH) on behalf of Chevron Environmental Management Company (Chevron) for the site referenced above. The report (prepared by Gettler-Ryan Inc. and dated February 24, 2010) presents the results of the monitoring and sampling of wells MW-1 through MW-3 during first quarter 2010. These wells are monitored and sampled on a semi-annual basis during the first and third quarters. Also attached are Figure 1 (Vicinity Map) showing the site location, and Figure 2 (Concentration Map) presenting the first semi-annual 2010 analytical results along with a rose diagram.

As requested by ACEH in a letter dated January 28, 2009, CRA prepared and submitted a *Site Conceptual Model and Work Plan for Additional Investigation* (SCM/work plan), dated April 29, 2009, to summarize site conditions, evaluate any data gaps, and propose additional investigation to address any identified data gaps. In the SCM/work plan, the drilling of four borings in MacArthur Boulevard and the drilling of an additional boring onsite were proposed (Figure 2) to further evaluate the extent of impacted soil and groundwater. A response to the SCM/work plan has not been received from ACEH to date. Therefore, as communicated to ACEH in an e-mail dated February 19, 2010, as significant time has passed since submittal of the SCM/work plan, the additional investigation will be implemented as proposed. We will provide ACEH notification with regards to the planned fieldwork dates.

Equal
Employment
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CONESTOGA-ROVERS
& ASSOCIATES

March 24, 2010 Reference No. 611650

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

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

FOR Christopher J. Benedict

James P. Kiernan, P.E. #C68498

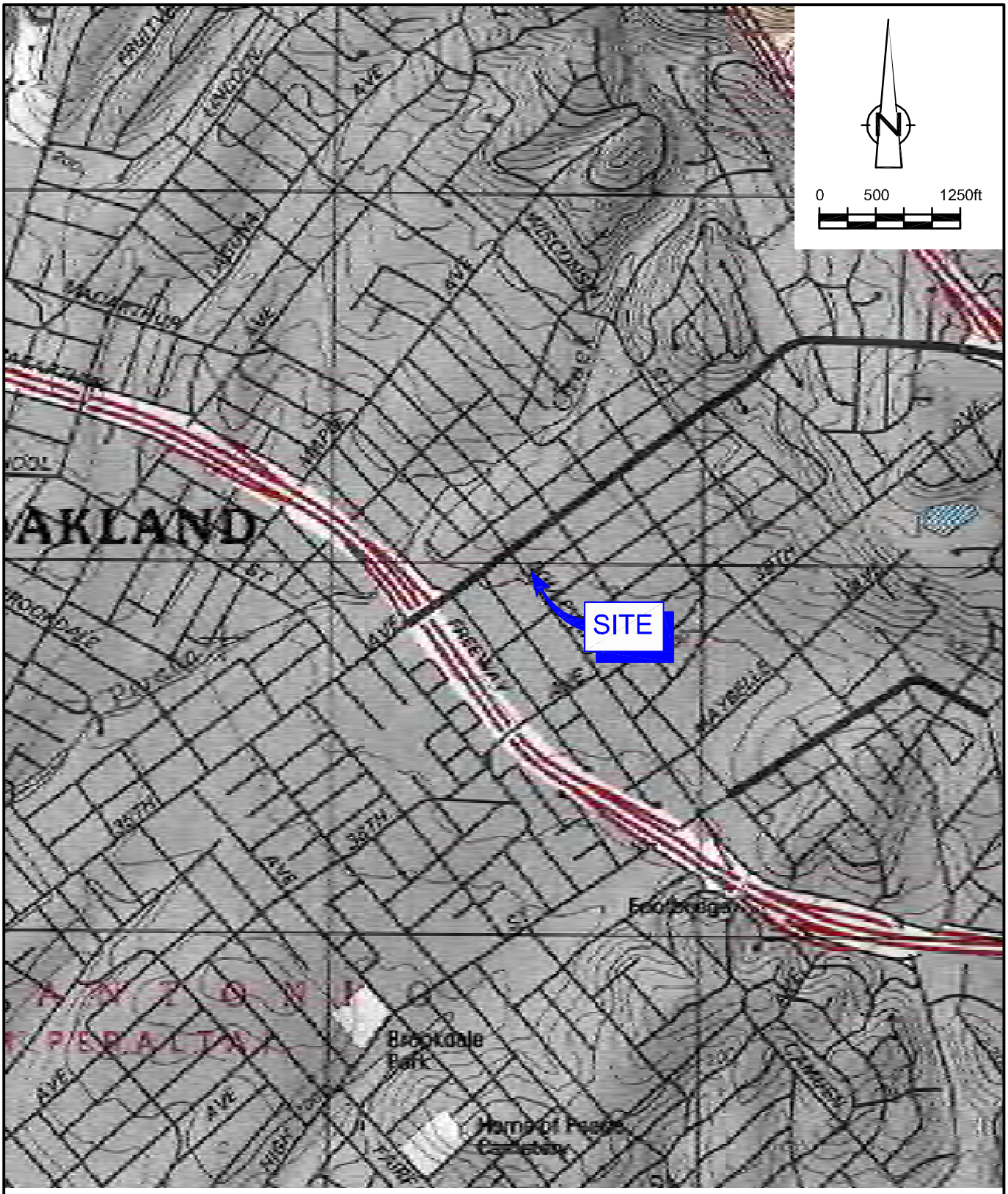
REGISTERED PROFESSIONAL ENGINEER
JAMES P. KIERNAN
No. 68498
Exp. 9/30/11
CIVIL
STATE OF CALIFORNIA

CB/jt/7
Encl.

Figure 1	Vicinity Map
Figure 2	Concentration Map – February 3, 2010
Attachment A	First Semi-Annual 2010 Groundwater Monitoring and Sampling Report

cc: Ms. Stacie Frerichs, Chevron
Mr. Hai Pham, 3530 MacArthur Blvd Gas Station, Inc.

FIGURES



SOURCE: TOPO! MAPS.

figure 1

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

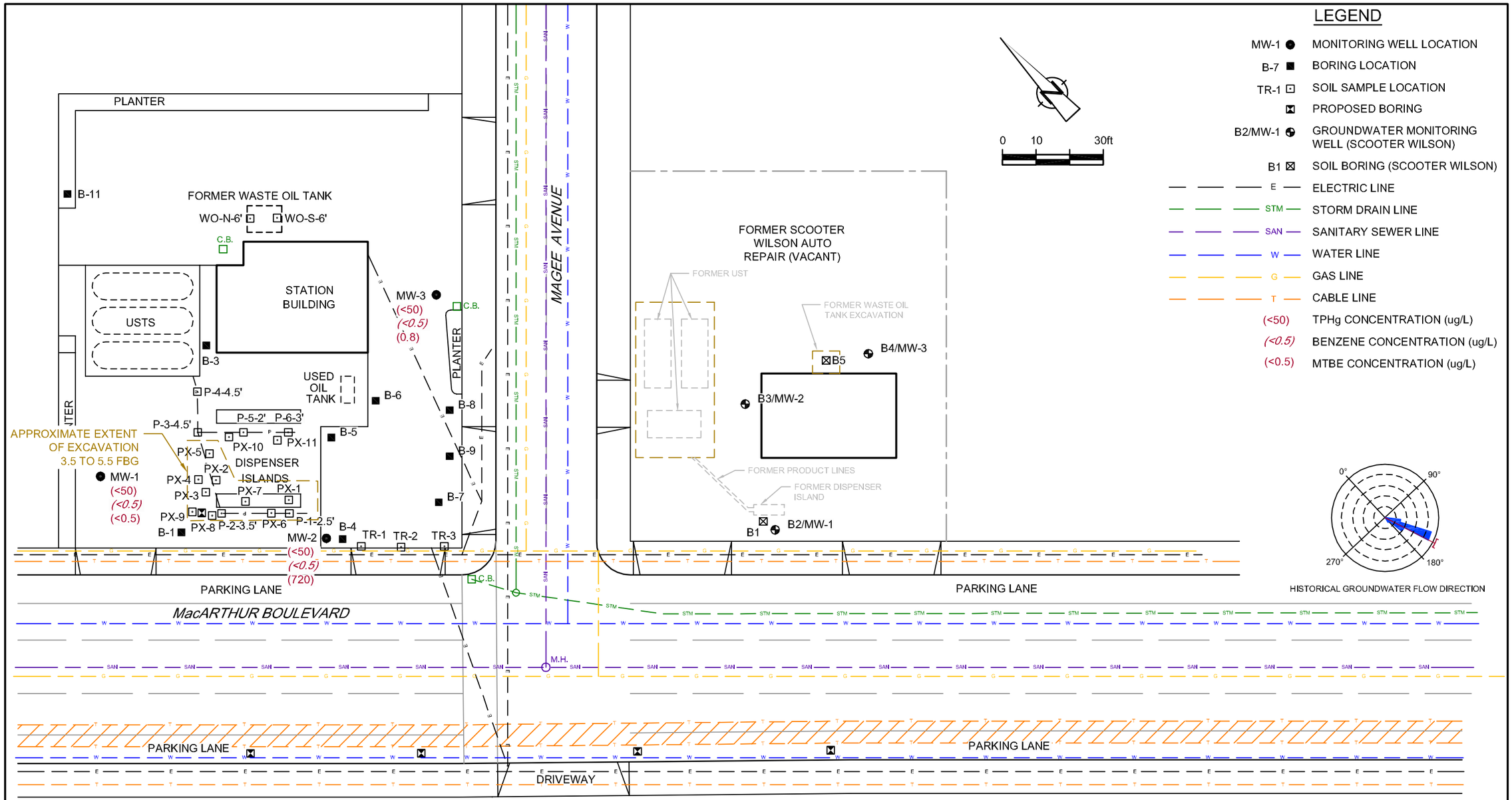


figure 2

CONCENTRATION MAP - FEBRUARY 3, 2010
FORMER CHEVRON SERVICE STATION 9-8341
3530 MACARTHUR BOULEVARD
Oakland, California

ATTACHMENT A

FIRST SEMI-ANNUAL 2010 GROUNDWATER MONITORING AND SAMPLING REPORT

GETTLER-RYAN INC.

TRANSMITTAL

March 5, 2010
G-R #386346

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

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

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

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
2	February 24, 2010	Groundwater Monitoring and Sampling Report **First Semi-Annual Event of February 3, 2010**

COMMENTS:

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

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

Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to ***March 18, 2010,*** at which time this final report will be distributed to the following:

cc: Mr. Chuck Headlee, RWQCB-S.F. Bay Region, 1515 Clay St., Suite 1400, Oakland. CA 94612
(No Hard Copy)
Mr. Mark Detterman, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577
(No Hard Copy-UPLOAD TO ALAMEDA CO.)
Mr. Hai Pham, Property Owner, 3530 MacArthur Blvd. Gas Station, Inc., 3530 MacArthur Blvd., Oakland. CA 94619

Enclosures

trans/9-8341-SHF

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

March 5, 2010
(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 March 5, 2010.

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

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

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

Sincerely,

SH Frerichs

Stacie H. Frerichs
Project Manager

Enclosure: Report

WELL CONDITION STATUS SHEET

Client/Facility #: Chevron #9-8341
Site Address: 3530 Macarthur Blvd.
City: Oakland, CA

Job # 386346
Event Date: 12/3/10
Sampler: KE

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	NA	NA	NA	ok	→	→	n	n	24" circular Plate	no
mw-2	↓	OK	OK	OK	↓	OK	OK	n	↓	B.L. 8/3	↓
mw-3	↓	↓	↓	2(S)	↓	↓	↓	↓	↓	Norrisson 12/2	↓

Comments

GETTLER-RYAN INC.

February 24 , 2010
G-R Job #386346

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

RE: First Semi-Annual Event of February 3, 2010
Groundwater Monitoring & Sampling Report
Chevron Service Station #9-8341
3530 MacArthur Boulevard
Oakland, California

Dear Ms. Frerichs:

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

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

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

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

Sincerely,

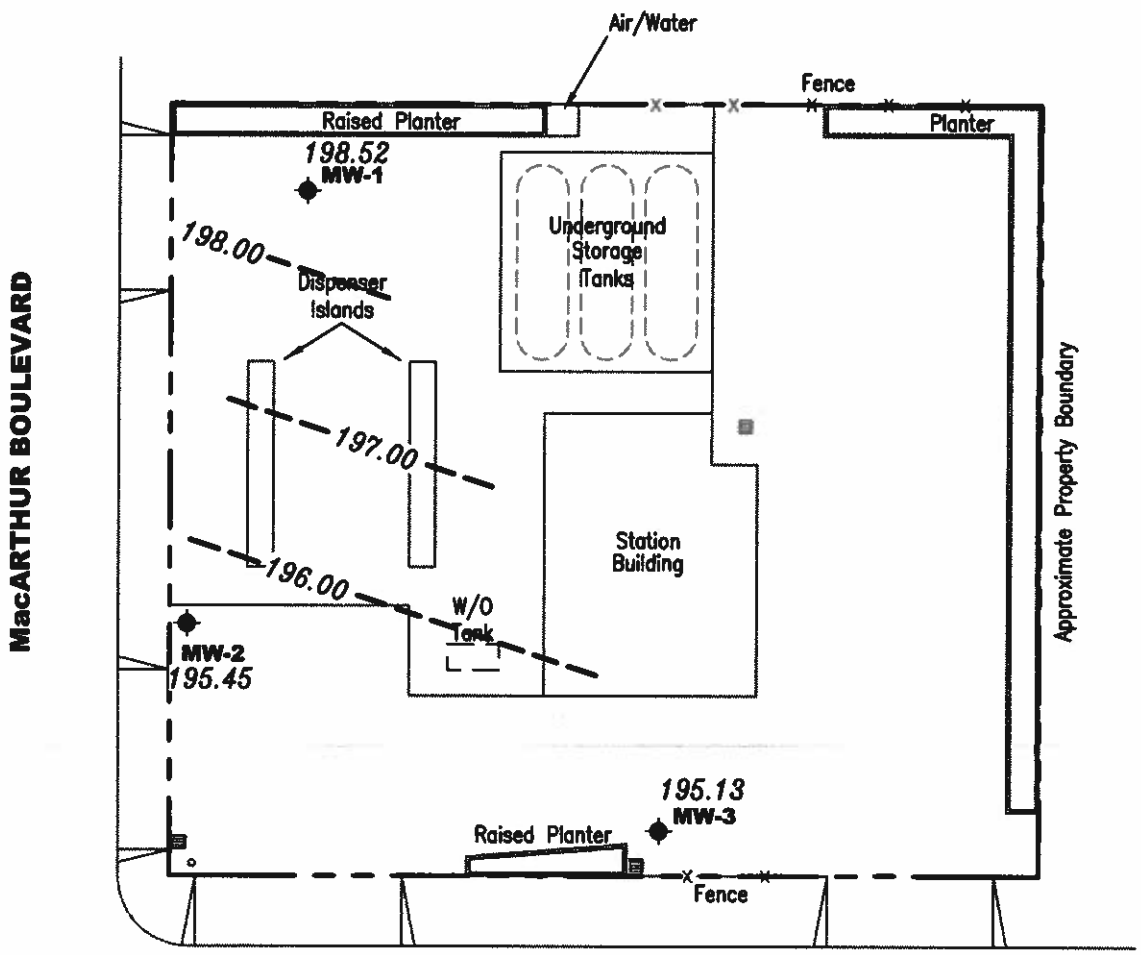
Cheryl A. Hanson
— FOR —

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
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports



EXPLANATION

- Groundwater monitaring 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	REVIEWED BY	DATE	REVISED DATE
386346		February 3, 2010	

FILE NAME: P:\Enviro\Chevron\9-8341\Q10-9-8341.dwg | Layout Tab: Pot1

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-8341

3530 MacArthur Boulevard

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	ETHANOL♦ (µg/L)
MW-1										
04/04/96	202.47	198.65	3.82	<50	<0.5	<0.5	<0.5	<0.5	ND	--
11/01/96	202.47	196.97	5.02	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/06/97	202.47	199.72	2.75	<50	<0.5	<0.5	<0.5	<0.5	14	--
04/14/97	202.47	197.71	4.76	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/17/97	202.47	196.72	5.75	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	202.47	196.97	5.50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
02/04/98	202.47	199.80	2.67	<50	4.2	<0.5	<0.5	<0.5	94	--
04/03/98	202.47	197.06	5.41	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/29/98	202.47	192.26	10.21	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/26/98	202.47	195.66	6.81	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/18/99	202.47	196.05	6.42	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
04/15/99	202.47	197.13	5.34	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
07/22/99	202.47	196.97	5.50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/13/99	202.47	196.43	6.04	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/21/00	202.47	197.11	5.36	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/10/00	202.47	197.60	4.87	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
07/12/00	202.47	197.05	5.42	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
10/05/00	202.47	196.79	5.68	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
01/05/01	202.47	197.30	5.17	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
04/05/01	202.47	197.83	4.64	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
08/20/01	202.47	197.29	5.18	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
11/26/01	202.47	197.65	4.82	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/14/02	202.47	197.68	4.79	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/07/02	202.47	197.55	4.92	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
08/02/02	202.47	197.36	5.11	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
11/11/02	202.47	197.40	5.07	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/03/03	202.47	197.69	4.78	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/05/03	202.47	198.86	3.61	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/04/03[4]	202.47	197.39	5.08	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
11/19/03[4]	202.47	197.44	5.03	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
02/16/04[4]	202.47	198.01	4.46	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
06/03/04[4]	202.47	197.52	4.95	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
08/20/04[4]	202.47	197.22	5.25	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
11/15/04[4]	202.47	197.86	4.61	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
02/14/05[4]	202.47	198.18	4.29	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
05/16/05[4]	202.47	198.62	3.85	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/31/05[4]	202.47	197.19	5.28	69	12	12	<0.5	12	<0.5	--

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

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	ETHANOL♦ (µg/L)
MW-1 (cont)										
11/30/05[4]	202.47	197.36	5.11	<50	<0.5	<0.5	<0.5	1	<0.5	--
02/17/06[4]	202.47	198.47	4.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/19/06[4]	202.47	198.09	4.38	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/25/06[4]	202.47	197.23	5.24	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/22/06[4]	202.47	197.09	5.38	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/01/07[4]	202.47	198.00	4.47	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
04/30/07[4]	202.47	197.96	4.51	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/31/07[4]	202.47	197.40	5.07	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
10/27/07[4]	202.47	197.46	5.01	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/08/08[4]	202.47	199.06	3.41	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/02/08[4]	202.47	198.17	4.30	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/31/08[4]	202.47	197.26	5.21	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/13/08[4]	202.47	197.65	4.82	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/13/09[4]	202.47	198.40	4.07	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/08/09[4]	202.47	198.15	4.32	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/27/09[4]	202.47	197.12	5.35	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/03/10[4]	**202.47**	**198.52**	**3.95**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**--**
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	--
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	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-8341

3530 MacArthur Boulevard

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	ETHANOL♦ (µg/L)
MW-2 (cont)										
10/05/00	198.88	194.06	4.82	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
01/05/01	198.88	195.17	3.71	<50	<0.50	<0.50	<0.50	<0.50	1,800	--
04/05/01	198.88	192.94	5.94	<50	<0.50	<0.50	<0.50	<0.50	5,500	--
08/20/01	198.88	193.18	5.70	<50	<0.50	<0.50	<0.50	<0.50	2,000	--
11/26/01	198.88	193.55	5.33	<50	<0.50	<0.50	<0.50	<1.5	990	--
02/14/02	198.88	194.42	4.46	58	<0.50	<0.50	<0.50	<1.5	1,200	--
05/07/02	198.88	194.49	4.39	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
08/02/02	198.88	194.81	4.07	<50	<0.50	<0.50	<0.50	<1.5	490	--
11/11/02	198.88	194.76	4.12	<50	<0.50	<0.50	<0.50	<1.5	470	--
02/03/03	198.88	193.93	4.95	<50	<0.50	<0.50	<0.50	<1.5	690	--
05/05/03	198.88	194.38	4.50	<50	<0.5	<0.5	<0.5	<1.5	680	--
08/04/03[4]	198.88	195.02	3.86	<50	<0.5	<0.5	<0.5	<0.5	460	<50
11/19/03[4]	198.88	195.32	3.56	<50	<0.5	<0.5	<0.5	<0.5	540	<50
02/16/04[4]	198.88	195.73	3.15	<50	<1	<1	<1	<1	1,200	<130
06/03/04[4]	198.88	195.18	3.70	<50	<0.5	<0.5	<0.5	<0.5	190	<50
08/20/04[4]	198.88	194.85	4.03	<50	<0.5	<0.5	<0.5	<0.5	130	<50
11/15/04[4]	198.88	195.54	3.34	<50	<0.5	<0.5	<0.5	<0.5	230	<50
02/14/05[4]	198.88	195.54	3.34	<50	<0.5	<0.5	<0.5	<0.5	600	<50
05/16/05[4]	198.88	194.99	3.89	<50	<0.5	<0.5	<0.5	<0.5	130	--
08/31/05[4]	198.88	194.81	4.07	<50	<0.5	<0.5	<0.5	0.8	450	--
11/30/05[4]	198.88	193.13	5.75	<50	<0.5	<0.5	<0.5	2	280	--
02/17/06[4]	198.88	195.56	3.32	<50	<0.5	<0.5	<0.5	<0.5	790	--
05/19/06[4]	198.88	193.80	5.08	<50	<0.5	<0.5	<0.5	<0.5	530	--
08/25/06[4]	198.88	194.85	4.03	<50	<0.5	<0.5	<0.5	<0.5	330	--
11/22/06[4]	198.88	193.44	5.44	<50	<0.5	<0.5	<0.5	<0.5	310	--
02/01/07[4]	198.88	195.30	3.58	<50	<0.5	<0.5	<0.5	<0.5	770	--
04/30/07[4]	198.88	194.73	4.15	<50	<0.5	<0.5	<0.5	<0.5	92	--
07/31/07[4]	198.88	194.68	4.20	<50	<0.5	<0.5	<0.5	<0.5	20	--
10/27/07[4]	198.88	195.00	3.88	<50	<0.5	<0.5	<0.5	<0.5	220	--
02/08/08[4]	198.88	194.86	4.02	<50	<0.5	<0.5	<0.5	<0.5	860	--
05/02/08[4]	198.88	194.50	4.38	<50	<0.5	<0.5	<0.5	<0.5	1,700	--
07/31/08[4]	198.88	194.70	4.18	<50	<0.5	<0.5	<0.5	<0.5	770	--
11/13/08[4]	198.88	195.10	3.78	<50	<0.5	<0.5	<0.5	<0.5	740	--
02/13/09[4]	198.88	195.61	3.27	<50	<0.5	<0.5	<0.5	<0.5	970	--
05/08/09[4]	198.88	195.70	3.18	<250	<0.5	<0.5	<0.5	<0.5	910	--
07/27/09[4]	198.88	194.70	4.18	<50	<0.5	<0.5	<0.5	<0.5	37	--
02/03/10[4]	**198.88**	**195.45**	**3.43**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	720	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-8341

3530 MacArthur Boulevard

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	ETHANOL♦ (µg/L)
MW-3										
11/01/96	199.10	194.91	4.19	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/06/97	199.10	195.29	3.81	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/14/97	199.10	194.93	4.17	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/17/97	199.10	194.92	4.18	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	199.10	193.90	5.20	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
02/04/98	199.10	194.71	4.39	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/03/98	199.10	195.78	3.32	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/29/98	199.10	189.24	9.86	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/26/98	199.10	193.59	5.51	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/18/99	199.10	194.68	4.42	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
04/15/99	199.10	194.54	4.56	<50	<0.5	<0.5	<0.5	1.16	<5.0	--
07/22/99	199.10	192.45	6.65	<50	<0.5	<0.5	<0.5	<0.5	3.94	--
10/13/99	199.10	193.79	5.31	<50	<0.5	<0.5	<0.5	<0.5	6.55	--
01/21/00	199.10	193.18	5.92	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/10/00	199.10	194.32	4.78	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
07/12/00	199.10	193.86	5.24	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
10/05/00	199.10	195.17	3.93	<50.0	<0.500	<0.500	<0.500	<0.500	39.7	--
01/05/01	199.10	194.85	4.25	<50	<0.50	<0.50	<0.50	<0.50	2.9	--
04/05/01	199.10	194.72	4.38	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
08/20/01	199.10	194.35	4.75	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
11/26/01	199.10	193.60	5.50	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/14/02	199.10	194.82	4.28	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/07/02	199.10	194.58	4.52	85	<0.50	<0.50	<0.50	<1.5	610	--
08/02/02	199.10	194.72	4.38	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
11/11/02	199.10	195.04	4.06	<50	<0.50	<0.50	<0.50	<1.5	4.5	--
02/03/03	199.10	194.02	5.08	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/05/03	199.10	194.50	4.60	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/04/03[4]	199.10	194.75	4.35	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
11/19/03[4]	199.10	194.86	4.24	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
02/16/04[4]	199.10	195.32	3.78	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
06/03/04[4]	199.10	193.74	5.36	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
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	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-8341

3530 MacArthur Boulevard

Oakland, California

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

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-8341

3530 MacArthur Boulevard

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	ETHANOL♦ (µg/L)
QA										--
04/05/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
08/20/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
11/26/01	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/14/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/07/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
08/02/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
11/11/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/03/03	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/05/03	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/04/03[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/19/03[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/16/04[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/03/04[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/20/04[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/15/04[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/14/05[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/16/05[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/31/05[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/30/05[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/17/06[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/19/06[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/25/06[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/22/06[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/01/07[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
04/30/07[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/31/07[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
10/27/07[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/08/08[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/02/08[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/31/08[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/13/08[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/13/09[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/08/09[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/27/09[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
DISCONTINUED										

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-8341

3530 MacArthur Boulevard

Oakland, California

EXPLANATIONS:

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

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

GRO = Gasoline Range Organics
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl Tertiary Butyl Ether

ND = Not Detected
-- = Not Measured/Not Analyzed
(µg/L) = Micrograms per liter
QA = Quality Assurance/Trip Blank

♦ Ethanol by EPA Method 8260.

1 Confirmation run.

2 Chromatogram report indicates an unidentified hydrocarbon and gas.

3 Chromatogram report indicates an unidentified hydrocarbon.

4 BTEX and MTBE by EPA Method 8260.

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

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

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). Purging continues until these parameters stabilize.

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

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

A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-8341 Job Number: 386346
Site Address: 3530 Macarthur Blvd. Event Date: 2/3/10 (inclusive)
City: Oakland, CA Sampler: KE

Well ID MW-1 Date Monitored: 2/3/10
Well Diameter 2 in.
Total Depth 27.25 ft.
Depth to Water 3.95 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.

23.30 xVF .17 = 4 x3 case volume = Estimated Purge Volume: 12 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.61

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): 1125 Weather Conditions: Sunny
Sample Time/Date: 1145 12/3/10 Water Color: Cloudy Odor: Y / (N)
Approx. Flow Rate: 2 gpm. Sediment Description: light
Did well de-water? no If yes, Time: — Volume: — gal. DTW @ Sampling: 5.02

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - (µS))	Temperature ((C) / F)	D.O. (mg/L)	ORP (mV)
1127	4	7.23	339	17.4		
1129	8	7.19	346	18.0		
1131	12	7.12	350	18.3		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(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: 2/3/10 (inclusive)
City: Oakland, CA | Sampler: KE

Well ID: MW-2 | Date Monitored: 2/3/10
Well Diameter: 2 in.
Total Depth: 32.75 ft.
Depth to Water: 3.43 ft. ☐ Check if water column is less then 0.50 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

29.32 xVF .17 = 4.9 x3 case volume = Estimated Purge Volume: 14.9 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.29

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): 1155 | Weather Conditions: Sunny
Sample Time/Date: 1215 12/3/10 | Water Color: Cloudy | Odor: Y / (N)
Approx. Flow Rate: 2 gpm. | Sediment Description: light
Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 4.27

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature (C F)	D.O. (mg/L)	ORP (mV)
1158	6	7.78	469	20.4		
1201	12	7.63	480	20.8		
1203	15	7.52	486	21.3		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(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: 2/3/10 (inclusive)
City: Oakland, CA Sampler: KE

Well ID MW-3 Date Monitored: 2/3/10
Well Diameter 2 in.
Total Depth 32.16 ft.
Depth to Water 3.97 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.

28.19 xVF .17 = 4.7 x3 case volume = Estimated Purge Volume: 14.3 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.60

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): 1225 Weather Conditions: Sunny
Sample Time/Date: 1245 / 2/3/10 Water Color: Cloudy Odor: Y (N)
Approx. Flow Rate: 2 gpm. Sediment Description: Lt Brn
Did well de-water? No If yes, Time: — Volume: — gal. DTW @ Sampling: 4.83

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature (C) F	D.O. (mg/L)	ORP (mV)
1228	6	7.89	408	18.3		
1231	12	7.78	418	19.2		
1233	16	7.74	429	20.0		

LABORATORY INFORMATION

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

COMMENTS:

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

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories

02-05-10-08

For Lancaster Laboratories use only
Acct. #: 12099 Sample # 5901880-82 Group #: 019633

CRA MTI Project #: 61H-1650

Grp#1181756

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: Kyle Gerbland

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water	Matrix: Oil	Matrix: Air	Total Number of Containers	Preservation Codes	Analyses Requested: 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
mw-1	2/3/10	1145	X			X			6	H H	X	X						
mw-2		1215	X			X			6	H H	X	X						
mw-3		1245	X			X			6	H H	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:	2/3/10	1415	Received by: GETTLER-RYAN FEDEX 02-03-10		1415
Relinquished by:	2-5-10	1845	Received by: a. Bakuzes 05FEB10		1845
Relinquished by: a. Bakuzes 05 FEB10		1636	Received by: FED EX		
Relinquished by Commercial Carrier: UPS (FedEx) Other			Received by: Gary Mark	2/8/10	920
Temperature Upon Receipt 0.5-4.5 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

RECEIVED
FEB 19 2010
GETTLER-RYAN INC.
GENERAL CONTRACTORS

Prepared by:

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

February 18, 2010

Project: 98341

Samples arrived at the laboratory on Monday, February 08, 2010. The PO# for this group is 98341 and the release number is MTI. The group number for this submittal is 1181756.

Client Sample Description	Lancaster Labs (LLI) #
MW-1-W-100203 Grab Water	5901880
MW-2-W-100203 Grab Water	5901881
MW-3-W-100203 Grab Water	5901882

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

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,

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: MW-1-W-100203 Grab Water
Facility# 98341 Job# 386346 MTI# 61H-1650 GRD
3530 MacArthur-Oakland T0600101790 MW-1

LLI Sample # WW 5901880
LLI Group # 1181756
CA

Project Name: 98341

Collected: 02/03/2010 11:45 by KE

Submitted: 02/08/2010 09:20
Reported: 02/18/2010 at 18:07
Discard: 03/21/2010

Account Number: 12099

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

MBO01

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

General Sample Comments

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

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F100471AA	02/16/2010 07:51	Anita M Dale	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	F100471AA	02/16/2010 07:51	Anita M Dale	1
01146	GC VOA Water Prep	SW-846 5030B	1	10040A20A	02/11/2010 19:35	Tyler O Griffin	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10040A20A	02/11/2010 19:35	Tyler O Griffin	1

Lancaster Laboratories

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Analysis Report

Sample Description: MW-2-W-100203 Grab Water
Facility# 98341 Job# 386346 MTI# 61H-1650 GRD
3530 MacArthur-Oakland T0600101790 MW-2

LLI Sample # WW 5901881
LLI Group # 1181756
CA

Project Name: 98341

Collected: 02/03/2010 12:15 by KE

Account Number: 12099

Submitted: 02/08/2010 09:20
Reported: 02/18/2010 at 18:07
Discard: 03/21/2010

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

MBO02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
06054	Benzene	71-43-2	N.D.	0.5	1
06054	Ethylbenzene	100-41-4	N.D.	0.5	1
06054	Methyl Tertiary Butyl Ether	1634-04-4	720	0.5	1
06054	Toluene	108-88-3	N.D.	0.5	1
06054	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1

General Sample Comments

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

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z100472AA	02/16/2010 14:33	Ginelle L Feister	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	Z100472AA	02/16/2010 14:33	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	10040A20A	02/11/2010 19:56	Tyler O Griffin	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10040A20A	02/11/2010 19:56	Tyler O Griffin	1

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Analysis Report

Sample Description: MW-3-W-100203 Grab Water
Facility# 98341 Job# 386346 MTI# 61H-1650 GRD
3530 MacArthur-Oakland T0600101790 MW-3

LLI Sample # WW 5901882
LLI Group # 1181756
CA

Project Name: 98341

Collected: 02/03/2010 12:45 by KE

Account Number: 12099

Submitted: 02/08/2010 09:20
Reported: 02/18/2010 at 18:07
Discard: 03/21/2010

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

MBO03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
06054	Benzene	71-43-2	N.D.	0.5	1
06054	Ethylbenzene	100-41-4	N.D.	0.5	1
06054	Methyl Tertiary Butyl Ether	1634-04-4	0.8	0.5	1
06054	Toluene	108-88-3	N.D.	0.5	1
06054	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1

General Sample Comments

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

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F100461AA	02/15/2010 23:25	Kelly E Keller	1
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	F100461AA	02/15/2010 23:25	Kelly E Keller	1
01146	GC VOA Water Prep	SW-846 5030B	1	10040A20A	02/11/2010 20:18	Tyler O Griffin	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10040A20A	02/11/2010 20:18	Tyler O Griffin	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: Chevron c/o CRA
Reported: 02/18/10 at 06:07 PM

Group Number: 1181756

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: F100461AA	Sample number(s): 5901882							
Benzene	N.D.	0.5	ug/l	88	88	79-120	0	30
Ethylbenzene	N.D.	0.5	ug/l	88	88	79-120	0	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	90	90	76-120	0	30
Toluene	N.D.	0.5	ug/l	89	89	79-120	1	30
Xylene (Total)	N.D.	0.5	ug/l	91	90	80-120	1	30
Batch number: F100471AA	Sample number(s): 5901880							
Benzene	N.D.	0.5	ug/l	92	90	79-120	2	30
Ethylbenzene	N.D.	0.5	ug/l	92	89	79-120	4	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	91	90	76-120	1	30
Toluene	N.D.	0.5	ug/l	93	90	79-120	3	30
Xylene (Total)	N.D.	0.5	ug/l	95	92	80-120	3	30
Batch number: Z100472AA	Sample number(s): 5901881							
Benzene	N.D.	0.5	ug/l	105		79-120		
Ethylbenzene	N.D.	0.5	ug/l	110		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	117		76-120		
Toluene	N.D.	0.5	ug/l	110		79-120		
Xylene (Total)	N.D.	0.5	ug/l	111		80-120		
Batch number: 10040A20A	Sample number(s): 5901880-5901882							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	109	109	75-135	0	30

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: F100461AA	Sample number(s): 5901882 UNSPK: P902271								
Benzene	100		80-126						
Ethylbenzene	105		71-134						
Methyl Tertiary Butyl Ether	91		72-126						
Toluene	98		80-125						
Xylene (Total)	117		79-125						
Batch number: F100471AA	Sample number(s): 5901880 UNSPK: P902919								
Benzene	95		80-126						
Ethylbenzene	95		71-134						
Methyl Tertiary Butyl Ether	91		72-126						
Toluene	95		80-125						

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron c/o CRA
Reported: 02/18/10 at 06:07 PM

Group Number: 1181756

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
Xylene (Total)	97		79-125						
Batch number: Z100472AA	Sample number(s): 5901881 UNSPK: P903922								
Benzene	116	111	80-126	4	30				
Ethylbenzene	121	116	71-134	4	30				
Methyl Tertiary Butyl Ether	119	115	72-126	4	30				
Toluene	120	116	80-125	4	30				
Xylene (Total)	119	114	79-125	4	30				
Batch number: 10040A20A	Sample number(s): 5901880-5901882 UNSPK: P901902								
TPH-GRO N. CA water C6-C12	109		63-154						

Surrogate Quality Control

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

Analysis Name: BTEX+MTBE by 8260B
Batch number: F100461AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5901882	99	102	102	101
Blank	98	99	100	99
LCS	100	103	102	101
LCSD	101	102	102	102
MS	100	101	100	100
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX+MTBE by 8260B
Batch number: F100471AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5901880	99	101	100	98
Blank	97	100	100	97
LCS	99	103	101	101
LCSD	103	104	101	102
MS	99	102	98	99
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX+MTBE by 8260B
Batch number: Z100472AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5901881	95	90	103	96
Blank	95	88	105	98
LCS	96	93	105	98
MS	97	92	104	98
MSD	96	92	103	98

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron c/o CRA
Reported: 02/18/10 at 06:07 PM

Group Number: 1181756

Surrogate Quality Control

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

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 10040A20A
Trifluorotoluene-F

5901880	91
5901881	86
5901882	78
Blank	90
LCS	115
LCSD	113
MS	109
Limits:	63-135

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Lancaster Laboratories
Explanation of Symbols and Abbreviations

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

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

< less than – The number following the sign is the 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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