**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

November 12, 2009
(date)



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

Re: Chevron Facility #_9-3864_____

Address: 5101 Telegraph Avenue, Oakland, California_____

I have reviewed the attached report titled *Second Semi-Annual 2009 Groundwater Monitoring Report*_____ and dated November 12, 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

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

November 12, 2009 Reference No. 611951

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

Re: Second Semi-Annual 2009 Groundwater Monitoring Report
Former Chevron Service Station No. 9-3864
5101 Telegraph Avenue
Oakland, California
LOP Case #RO0000351

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 October 7, 2009) presents the results of the monitoring and sampling of well C-3 during third quarter 2009. Well MW-3 was inaccessible due to a parked vehicle and unable to be sampled. Wells C-3 and MW-3 are sampled on a semi-annual basis during the first and third quarters, and wells MW-1, MW-2 and MW-5 are sampled annually during the first quarter. Also attached are Figure 1 (Vicinity Map) showing the site location, and Figure 2 (Concentration Map) presenting the second semi-annual 2009 analytical results along with a rose diagram. The monitoring results during 2009 are discussed below.

During 2009, petroleum hydrocarbon concentrations in the site wells generally were similar to or less than those observed during 2008. Total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tertiary butyl ether (MTBE) were not detected in wells MW-1, MW-2, or MW-5 during 2009, and have not been detected in these wells for at least several years. Elevated concentrations of TPHg were detected in wells C-3 (4,200 micrograms per liter [µg/L] and 4,700 µg/L) and MW-3 (4,800 µg/L [first quarter event]) during 2009. Low concentrations of ethylbenzene and xylenes (up to 3 µg/L) were also detected in well C-3, and low concentrations of BTEX (up to 3 µg/L) were also detected in well MW-3. MTBE was not detected in wells C-3 and MW-3 during 2009, and has not been detected for the past several years. The TPHg and BTEX concentrations in wells C-3 and MW-3 have remained relatively stable over the past several years.

Based on the analytical results, impacted groundwater remains in the area of onsite well C-3 downgradient of the former underground storage tanks (USTs), and in the area of well MW-3

downgradient of the site. CRA recommends continued monitoring and sampling to further evaluate groundwater quality and concentration trends.

CRA prepared and submitted the June 26, 2009 *Site Status and Revised Work Plan* that proposed additional investigation to evaluate shallow soil vapor quality at the site and if impacted groundwater continues to migrate beneath the site from an upgradient offsite source (Figure 2). We are awaiting approval from ACEH to implement the proposed scope of work.

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

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Kelly M. Rider

James P. Kiernan, P.E. #C68498

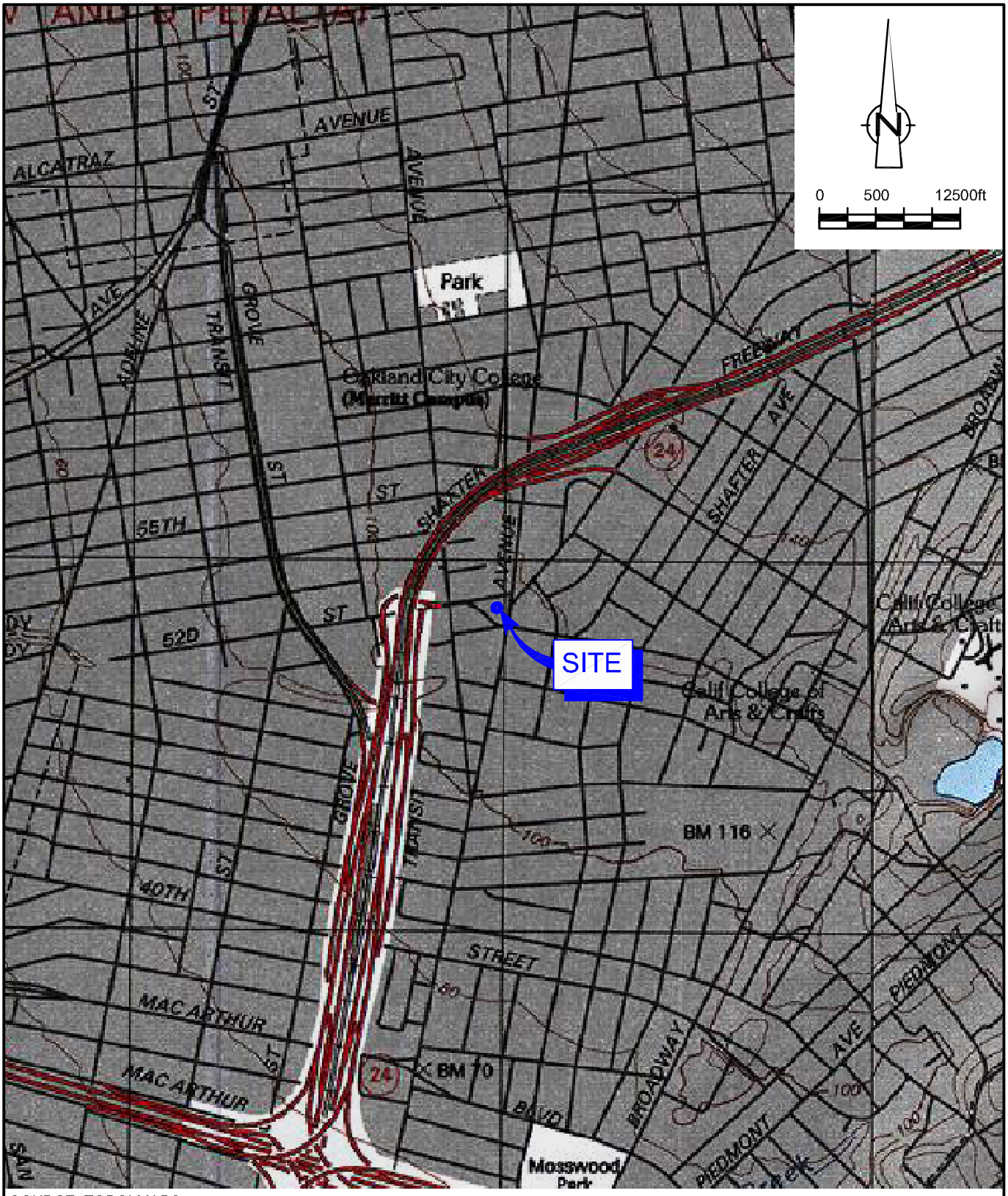
REGISTERED PROFESSIONAL ENGINEER
JAMES P. KIERNAN
No. 68498
Exp. 9/30/11
CIVIL
STATE OF CALIFORNIA

KR/jt/4
Encl.

| | |
|---|---|
| Figure 1 | Vicinity Map |
| Figure 2 | Concentration Map – September 15, 2009 |
| Attachment A | Groundwater Monitoring and Sampling Report |

cc: Ms. Stacie Frerichs, Chevron Environmental Management Company
Mr. John Gwynn, Gwynn-Shields & Associates

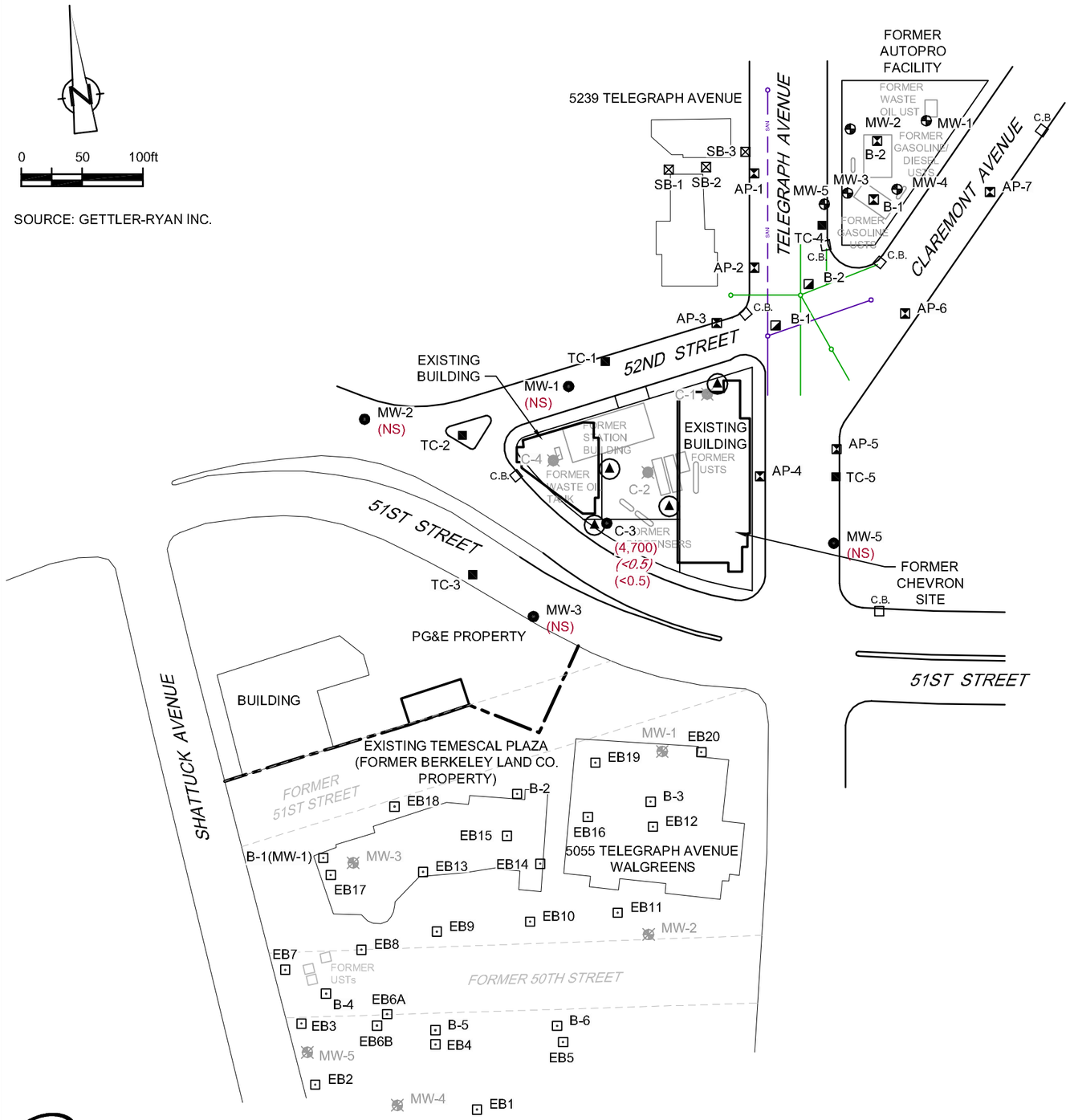
FIGURES

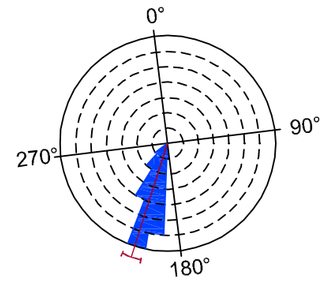



SOURCE: TOPO! MAPS.

figure 1

VICINITY MAP
FORMER CHEVRON SERVICE STATION 9-3864
5101 TELEGRAPH AVENUE
*Oakland, California*




HISTORICAL GROUNDWATER FLOW DIRECTION

## LEGEND

- PROPOSED SOIL VAPOR WELL LOCATION
- CHEVRON MONITORING WELL LOCATION
- CHEVRON EXPLORATORY BORING LOCATION
- AUTOPRO WELL LOCATION
- AUTOPRO EXPLORATORY BORING LOCATION
- 5239 TELEGRAPH EXPLORATORY BORING LOCATION
- AUTOPRO TRENCH EXPLORATORY BORING LOCATION
- FORMER BERKELEY LAND CO. EXPLORATORY BORING LOCATION
- ABANDONED CHEVRON WELL LOCATION
- FORMER BERKELEY LAND CO. WELL LOCATION
- STORM DRAIN LINE
- SANITARY SEWER LINE
- APPROXIMATE PROPERTY BOUNDARY
- (440) TPHg CONCENTRATION (ug/L)
- *(0.9)* BENZENE CONCENTRATION (ug/L)
- (18) MTBE CONCENTRATION (ug/L)
- (NS) NOT SAMPLED

figure 2

# CONCENTRATION MAP - SEPTEMBER 15, 2009
# FORMER CHEVRON STATION 9-3864
# 5101 TELEGRAPH AVENUE
*Oakland, California*

ATTACHMENT A

GROUNDWATER MONITORING AND SAMPLING REPORT

# GETTLER-RYAN INC.

## TRANSMITTAL

October 13, 2009
G-R #386358

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: Former Chevron Service Station**
**#9-3864 (MTI)**
**5101 Telegraph Avenue**
**Oakland, California**
**RO 0000351**

WE HAVE ENCLOSED THE FOLLOWING:

| COPIES | DATED | DESCRIPTION |
|---|---|---|
| 2 | October 7, 2009 | Groundwater Monitoring and Sampling Report<br>**Second Semi-Annual Event of September 15, 2009** |

COMMENTS:

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

Ms. Stacie H. Frerichs, Chevron Environmental Management Company, P.O. Box 6012, Room K2200, San Ramon, CA 94583

Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to ***October 26, 2009,*** at which time this final report will be distributed to the following:

cc: Mr. Chuck Headlee, RWQCB-San Francisco Bay Region, 1515 Clay St., Suite 1400, Oakland, CA 94612 **(No Hard Copy)**
Mr. John Gwynn, Gwynn-Schields & Associates, 300 Lakeside Dr., Ste. 1980, Oakland, CA 94612
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.)**

Enclosures
trans/9-3864-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

October 13, 2009
(date)

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

Re: Chevron Facility # 9-3864

Address: 5101 Telegraph Ave., Oakland, California

I have reviewed the attached routine groundwater monitoring report dated October 13, 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 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,

SHFrerichs

Stacie H. Frerichs
Project Manager

Enclosure: Report

# WELL CONDITION STATUS SHEET

Client/Facility #: Chevron #9-3864 Job # 386358

Site Address: 5101 Telegraph Avenue Event Date: 9-15-09

City: Oakland, CA Sampler: JW

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C-3 | O.K | O.K | O.K | (1) of (2) S | O.K | O K | O.K | N | N | 12" Emco/2 | No |
| MW-1 | ↑ | ↑ | ↑ | O.K | ↓ | ↓ | ↑ | ↓ | ↓ | 8" Emco/2 | ↓ |
| MW-2 | | | | O K | | | | | | " | |
| MW-3 | — | Inaccessible | | | — | Parked over | | all | day | — | — |
| MW-5 | ↓ | ↓ | ↓ | O.K | ↓ | ↓ | ↓ | ↓ | ↓ | 8" Emco/2 | ↓ |

Comments

# GETTLER-RYAN INC.

October 7, 2009
G-R Job #386358

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

**RE: Second Semi-Annual Event of September 15, 2009**
Groundwater Monitoring & Sampling Report
Former Chevron Service Station #9-3864
5101 Telegraph Avenue
Oakland, California

Dear Ms. Frerichs:

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

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

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

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

Sincerely,

Deanna L. Harding
Project Coordinator

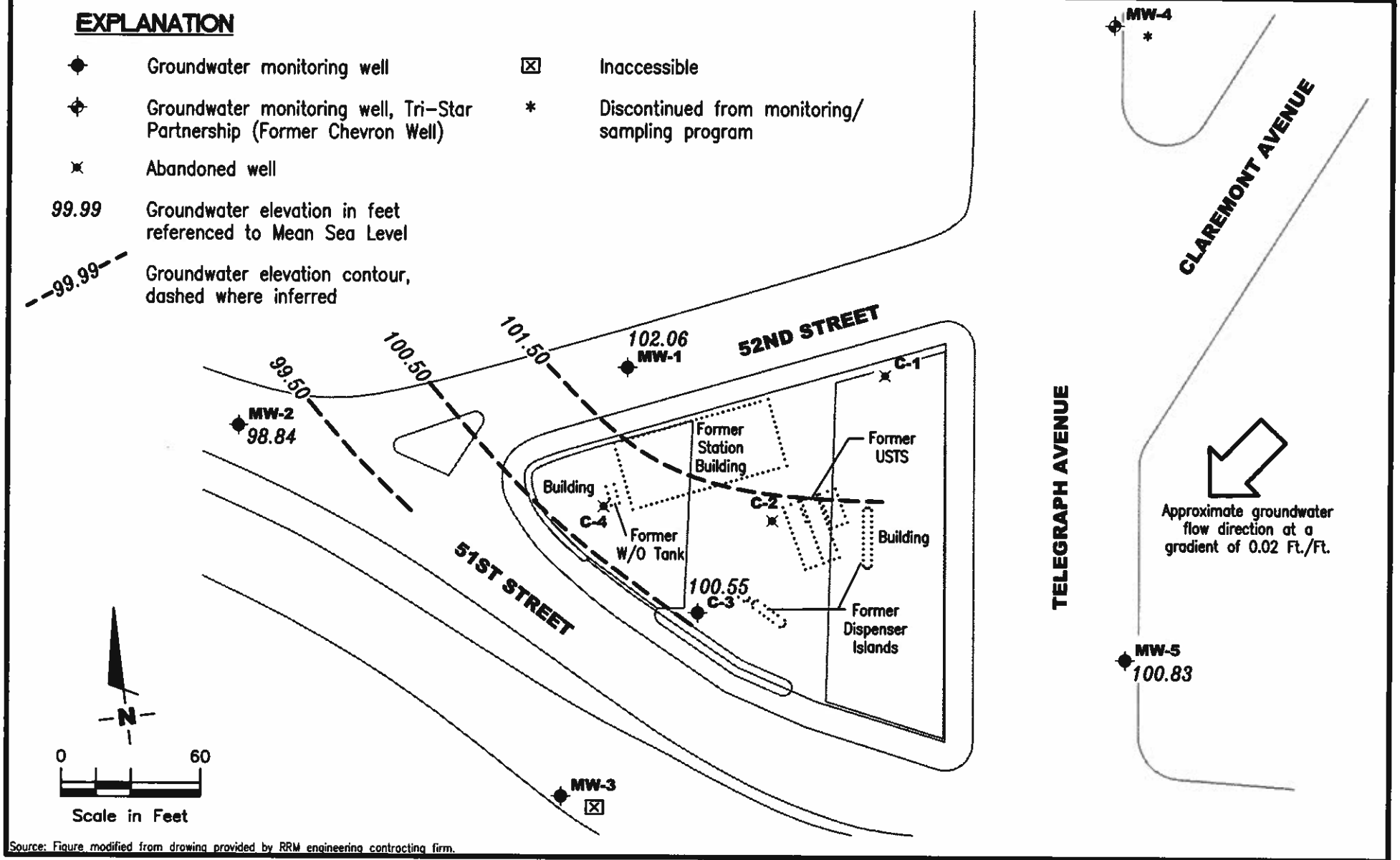
PROFESSIONAL GEOLOGIST
DOUGLAS J. LEE
No. 6882
STATE OF CALIFORNIA

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

Figure 1: Potentiometric Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Dissolved Oxygen Concentrations
Table 3: Groundwater Analytical Results - Oxygenate Compounds
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports

## EXPLANATION

- Groundwater monitoring well
- Groundwater monitoring well, Tri-Star Partnership (Former Chevron Well)
- Abandoned well
- 99.99 — Groundwater elevation in feet referenced to Mean Sea Level
- --99.99-- — Groundwater elevation contour, dashed where inferred
- ☒ — Inaccessible
- * — Discontinued from monitoring/ sampling program




Source: Figure modified from drawing provided by RRM engineering contracting firm.


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


**POTENTIOMETRIC MAP**
Former Chevron Service Station #9-3864
5101 Telegraph Avenue
Oakland, California

FIGURE
1

| PROJECT NUMBER | REVIEWED BY | DATE | REVISED DATE |
|---|---|---|---|
| 386358 | | September 15, 2009 | |

FILE NAME: P:\Enviro\Chevron\9-3864\Q09-9-3864.DWG | Layout Tab: Pot3

# Table 1

## Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-3864

5101 Telegraph Avenue

Oakland, California

| WELL ID/ DATE | | TOC (ft.) | GWE (msl) | DTW (ft.) | TPH-GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| C-3 | | | | | | | | | | |
| 12/06/90 | | 115.70 | 98.84 | 16.86 | 210 | 2.0 | <0.5 | <0.5 | 1.0 | -- |
| 12/06/90 | (D) | -- | -- | -- | 220 | 2.0 | 0.6 | <0.5 | 2.0 | -- |
| 06/06/91 | | 115.70 | 100.01 | 15.69 | 6,400 | 310 | 21 | 16 | 21 | -- |
| 09/16/92 | | 115.70 | 99.81 | 15.89 | 7,100 | 130 | 26 | 12 | 30 | -- |
| 12/04/91 | | 115.70 | 100.32 | 15.38 | 5,100 | 120 | 18 | 17 | 20 | -- |
| 06/02/92 | | 115.70 | 100.30 | 15.40 | 6,700 | 140 | 44 | 17 | 37 | -- |
| 12/21/92 | | 115.70 | 101.79 | 13.91 | 13,000 | 390 | 360 | 100 | 410 | -- |
| 03/11/93 | | 115.70 | 101.95 | 13.75 | 5,100 | 86 | 20 | 12 | 23 | -- |
| 06/11/93 | | 115.70 | 101.03 | 14.67 | 7,200 | 91 | 38 | 19 | 38 | -- |
| 09/13/93 | | 115.70 | 100.17 | 15.53 | 6,800 | 100 | 52 | 41 | 75 | -- |
| 12/14/93 | | 115.70 | 101.30 | 14.40 | 8,600 | 74 | 23 | 18 | 36 | -- |
| 03/16/94 | | 115.70 | 101.44 | 14.26 | 6,000 | 100 | 42 | 27 | 30 | -- |
| 06/17/94 | | 115.70 | 100.60 | 15.10 | 15,000 | 170 | 120 | 120 | 270 | -- |
| 08/29/94 | | 115.70 | 100.30 | 15.40 | 26,000 | 51 | <0.5 | 58 | 107 | -- |
| 12/06/94 | | 115.70 | 101.90 | 13.80 | 34,000 | 88 | 140 | 98 | 390 | -- |
| 03/31/95 | | 115.70 | 102.91 | 12.79 | 2,800 | 42 | <5.0 | <5.0 | 6.6 | -- |
| 06/24/95 | | 115.70 | 100.84 | 14.86 | 5,200 | 34 | <10 | <10 | 13 | -- |
| 09/12/95 | | 115.70 | 100.76 | 14.94 | 7,000 | 45 | <10 | 28 | 42 | -- |
| 12/29/95 | | 115.70 | 102.12 | 13.58 | 5,100 | 20 | <10 | <10 | 19 | <50 |
| 02/29/96 | | 115.70 | 102.88 | 12.82 | 2,600 | 15 | <5.0 | 17 | 16 | <25 |
| 06/26/96 | | 115.70 | 101.32 | 14.38 | 4,400 | <10 | <10 | <10 | <10 | <50 |
| 09/12/96 | | 115.70 | 100.75 | 14.95 | 5,800 | 73 | 22 | 18 | 17 | 61 |
| 12/11/96 | | 115.70 | 103.08 | 12.62 | 8,800 | 81 | <20 | <20 | 37 | 200 |
| 03/31/97 | | 115.70 | 100.70 | 15.00 | 8,100 | 38 | 62 | 30 | 42 | 38 |
| 06/29/97 | | 115.70 | 100.08 | 15.62 | 5,800 | <10 | <10 | <10 | 67 | <50 |
| 09/30/97 | | 115.70 | 100.70 | 15.00 | 6,200 | <10 | 28 | 21 | 27 | 130 |
| 12/12/97 | | 115.70 | 103.68 | 12.02 | 330 | 1.6 | 1.1 | <1.0 | 3.4 | <5.0 |
| 02/19/98 | | 115.70 | 103.26 | 12.44 | 110 | 1.7 | <0.5 | <0.5 | 0.51 | <2.5 |
| 06/16/98 | | 115.70 | 102.29 | 13.41 | 7,400 | 63 | 16 | <10 | <10 | 170 |
| 08/31/98 | | 115.70 | 101.70 | 14.00 | 4,400 | 6.4 | <2.5 | 5.4 | 16 | 15 |
| 12/23/98 | | 115.70 | 102.91 | 12.79 | 11,000 | 83 | 37 | 69 | 76 | 86 |
| 03/09/99 | | 115.70 | 102.70 | 13.00 | 6,500 | 45 | 38 | 17 | 30 | 110 |
| 06/23/99[1] | | 115.70 | 101.92 | 13.78 | -- | -- | -- | -- | -- | -- |
| 09/30/99 | | 115.70 | 99.70 | 16.00 | 3,870 | 29.7 | 8.72 | 7.08 | 7.75 | <50 |
| 02/29/00 | | 115.70 | 102.14 | 13.56 | 2,660 | 22.5 | <5.0 | 11.2 | 11.6 | <50 |

# Table 1

## Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-3864

5101 Telegraph Avenue

Oakland, California

| WELL ID/ DATE | TOC (ft.) | GWE (msl) | DTW (ft.) | TPH-GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|
| **C-3 (cont)** | | | | | | | | | |
| 09/18/00[3] | 115.70 | 103.25 | 12.45 | 740[4] | 6.0 | 4.5 | <2.5 | 6.0 | <13 |
| 03/21/01[3] | 115.70 | 102.05 | 13.65 | 1,700[4] | 21 | 12 | 14 | 19 | 59 |
| 09/04/01[3] | 115.70 | 101.09 | 14.61 | 4,100 | <10 | 4.8 | 6.5 | 14 | <5.0/<2[5] |
| 03/22/02[3,6] | 115.70 | 102.49 | 13.21 | 3,600 | <5.0 | <5.0 | 6.1 | <15 | <2.5 |
| 09/16/02[3] | 115.70 | 100.39 | 15.31 | 4,000 | <10 | <5.0 | 4.3 | <10 | 7.9 |
| 03/28/03[3] | 115.70 | 101.38 | 14.32 | 2,400 | <2.5 | <2.5 | 5.5 | <7.5 | <13 |
| 09/02/03[3,7] | 115.70 | 101.33 | 14.37 | 2,800 | 1 | 0.9 | 0.9 | 4 | <0.5 |
| 03/18/04[7,8] | 115.70 | 101.56 | 14.14 | 5,300 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 09/15/04[7] | 115.70 | 101.50 | 14.20 | 3,200 | 0.8 | 0.8 | 1 | 3 | 10 |
| 03/11/05[7] | 115.70 | 102.79 | 12.91 | 4,200 | 0.6 | 0.5 | 1 | 3 | <0.5 |
| 09/29/05[7] | 115.70 | 101.13 | 14.57 | 4,900 | 0.6 | 0.5 | 2 | 3 | <0.5 |
| 03/24/06 | 115.70 | INACCESSIBLE - VEHICLE PARKED OVER WELL | | | -- | -- | -- | -- | -- |
| 09/12/06[7] | 115.70 | 101.29 | 14.41 | 5,900 | <1 | <1 | <1 | 2 | <1 |
| 03/05/07[7] | 115.70 | 102.81 | 12.89 | 4,600 | <0.5 | <0.5 | 0.8 | 2 | <0.5 |
| 09/21/07[7] | 115.70 | 101.39 | 14.31 | 5,000 | <0.5 | <0.5 | 0.6 | 1 | <0.5 |
| 03/06/08[7] | 115.70 | 102.15 | 13.55 | 3,600 | <0.5 | <0.5 | 1 | 1 | <0.5 |
| 09/05/08[7] | 115.70 | 101.00 | 14.70 | 2,700 | <0.5 | <0.5 | 0.9 | 1 | <0.5 |
| 03/30/09[7] | 115.70 | 102.28 | 13.42 | 4,200 | <0.5 | <0.5 | 0.8 | 3 | <0.5 |
| **09/15/09[7]** | **115.70** | **100.55** | **15.15** | **4,700** | **<0.5** | **<0.5** | **<0.5** | **1** | **<0.5** |
| **MW-1** | | | | | | | | | |
| 09/20/93 | 115.05 | 102.37 | 12.68 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | -- |
| 12/14/93 | 115.05 | 105.01 | 10.04 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 03/16/94 | 115.05 | 103.10 | 11.95 | <50 | <0.5 | 1.7 | <0.5 | 2.1 | -- |
| 06/17/94 | 115.05 | 102.51 | 12.54 | 350 | 1.2 | 3.7 | 2.0 | 12 | -- |
| 08/29/94 | 115.05 | 101.98 | 13.07 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 12/06/94 | 115.05 | 104.45 | 10.60 | 140 | 0.9 | 2.8 | 1.1 | 4.2 | -- |
| 03/31/95 | 115.05 | 104.74 | 10.31 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 06/24/95 | 115.05 | 102.44 | 12.61 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 09/12/95 | 115.05 | 102.00 | 13.05 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 02/02/96 | 115.05 | 106.19 | 8.86 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 02/29/96 | 115.05 | 105.39 | 9.66 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 06/26/96 | 115.05 | 102.85 | 12.20 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 09/12/96 | 115.05 | 101.55 | 13.50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |

# Table 1

## Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-3864

5101 Telegraph Avenue

Oakland, California

| WELL ID/ DATE | TOC (ft.) | GWE (msl) | DTW (ft.) | TPH-GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|
| **MW-1 (cont)** | | | | | | | | | |
| 12/11/96 | 115.05 | 105.90 | 9.15 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 03/31/97 | 115.05 | 102.30 | 12.75 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 06/29/97 | 115.05 | 102.01 | 13.04 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 09/30/97 | 115.05 | 101.80 | 13.25 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 12/12/97 | 115.05 | 106.06 | 8.99 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 02/19/98 | 115.05 | 105.64 | 9.41 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 06/16/98 | 115.02 | 103.48 | 11.54 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 2.6 |
| 08/31/98 | 115.02 | 102.51 | 12.51 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 12/23/98 | 115.02 | 103.03 | 11.99 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 03/09/99 | 115.02 | 104.57 | 10.45 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 09/30/99 | 115.02 | 102.07 | 12.95 | SAMPLED ANNUALLY | | -- | -- | -- | -- |
| 02/29/00 | 115.02 | 105.90 | 9.12 | <50 | <0.5 | 0.816 | <0.5 | <0.5 | <5.0 |
| 09/18/00 | 115.02 | 104.14 | 10.88 | -- | -- | -- | -- | -- | -- |
| 03/21/01 | 115.02 | 104.01 | 11.01 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 |
| 09/04/01 | 115.02 | 103.60 | 11.42 | -- | -- | -- | -- | -- | --/<2[5] |
| 03/22/02[6] | 115.02 | 104.68 | 10.34 | 100 | <0.50 | 24 | 0.80 | 4.9 | 15 |
| 09/16/02 | 115.02 | 102.35 | 12.67 | SAMPLED ANNUALLY | | -- | -- | -- | -- |
| 03/28/03 | 115.02 | 103.29 | 11.73 | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 |
| 09/02/03 | 115.02 | 102.74 | 12.28 | SAMPLED ANNUALLY | | -- | -- | -- | -- |
| 03/18/04[7] | 115.02 | 103.11 | 11.91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 09/15/04 | 115.02 | 101.89 | 13.13 | SAMPLED ANNUALLY | | -- | -- | -- | -- |
| 03/11/05[7] | 115.02 | 104.29 | 10.73 | <50 | <0.5 | 2 | <0.5 | <0.5 | <0.5 |
| 09/29/05 | 115.02 | 101.97 | 13.05 | SAMPLED ANNUALLY | | -- | -- | -- | -- |
| 03/24/06[7] | 115.02 | 104.61 | 10.41 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 09/12/06 | 115.02 | 101.91 | 13.11 | SAMPLED ANNUALLY | | -- | -- | -- | -- |
| 03/05/07[7] | 115.02 | 103.93 | 11.09 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 09/21/07 | 115.02 | 102.07 | 12.95 | SAMPLED ANNUALLY | | -- | -- | -- | -- |
| 03/06/08[7] | 115.02 | 102.92 | 12.10 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 09/05/08 | 115.02 | 102.54 | 12.48 | SAMPLED ANNUALLY | | -- | -- | -- | -- |
| 03/30/09[7] | 115.02 | 103.64 | 11.38 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **09/15/09** | **115.02** | **102.06** | **12.96** | **SAMPLED ANNUALLY** | | -- | -- | -- | -- |

# Table 1

## Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-3864

5101 Telegraph Avenue

Oakland, California

| WELL ID/ DATE | TOC (ft.) | GWE (msl) | DTW (ft.) | TPH-GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|
| **MW-2** | | | | | | | | | |
| 09/20/93 | 112.08 | 99.93 | 12.15 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | -- |
| 12/14/93 | 112.08 | 97.36 | 14.72 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 03/16/94 | 112.08 | 100.92 | 11.16 | <50 | <0.5 | 1.1 | <0.5 | 0.9 | -- |
| 06/17/94 | 112.08 | 100.41 | 11.67 | 330 | 1.4 | 3.3 | 1.9 | 11 | -- |
| 08/29/94 | 112.08 | 100.08 | 12.00 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 12/06/94 | 112.08 | 102.57 | 9.51 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 03/31/95 | 112.08 | 103.24 | 8.84 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 06/24/95 | 112.08 | 100.44 | 11.64 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 09/12/95 | 112.08 | 100.00 | 12.08 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 12/29/95 | 112.08 | 101.58 | 10.50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 02/29/96 | 112.08 | 104.08 | 8.00 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 06/26/96 | 112.08 | 100.58 | 11.50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 09/12/96 | 112.08 | 99.81 | 12.27 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 12/11/96 | 112.08 | 104.17 | 7.91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 03/31/97 | 112.08 | 100.20 | 11.88 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 06/29/97 | 112.08 | 99.89 | 12.19 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 09/30/97 | 112.08 | 99.46 | 12.62 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 12/12/97 | 112.08 | 102.85 | 9.23 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 02/19/98 | 112.08 | 104.87 | 7.21 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 06/16/98 | 112.03 | 101.10 | 10.93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 08/31/98 | 112.03 | 99.69 | 12.34 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 12/23/98 | 112.03 | 100.59 | 11.44 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 03/09/99 | 112.03 | 103.23 | 8.80 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 09/30/99 | 112.03 | 101.22 | 10.81 | SAMPLED ANNUALLY | | -- | -- | -- | -- |
| 02/29/00 | 112.03 | 105.12 | 6.91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| 09/18/00 | 112.03 | 101.00 | 11.03 | -- | -- | -- | -- | -- | -- |
| 03/21/01 | 112.03 | 101.61 | 10.42 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 |
| 09/04/01 | 112.03 | 101.04 | 10.99 | -- | -- | -- | -- | -- | --/<2[5] |
| 03/22/02 | 112.03 | 102.14 | 9.89 | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 |
| 09/16/02 | 112.03 | 100.02 | 12.01 | SAMPLED ANNUALLY | | -- | -- | -- | -- |
| 03/28/03 | 112.03 | 101.23 | 10.80 | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 |
| 09/02/03 | 112.03 | 100.15 | 11.88 | SAMPLED ANNUALLY | | -- | -- | -- | -- |
| 03/18/04[7] | 112.03 | 101.04 | 10.99 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 09/15/04 | 112.03 | 99.15 | 12.88 | SAMPLED ANNUALLY | | -- | -- | -- | -- |

# Table 1

## Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-3864

5101 Telegraph Avenue

Oakland, California

| WELL ID/ DATE | TOC (ft.) | GWE (msl) | DTW (ft.) | TPH-GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|
| **MW-2 (cont)** | | | | | | | | | |
| 03/11/05[7] | 112.03 | 102.13 | 9.90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 09/29/05 | 112.03 | 99.33 | 12.70 | SAMPLED ANNUALLY | | -- | -- | -- | -- |
| 03/24/06[7] | 112.03 | 103.04 | 8.99 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 09/12/06 | 112.03 | 98.97 | 13.06 | SAMPLED ANNUALLY | | -- | -- | -- | -- |
| 03/05/07[7] | 112.03 | 101.57 | 10.46 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 09/21/07 | 112.03 | 99.35 | 12.68 | SAMPLED ANNUALLY | | -- | -- | -- | -- |
| 03/06/08[7] | 112.03 | 100.98 | 11.05 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 09/05/08 | 112.03 | 99.22 | 12.81 | SAMPLED ANNUALLY | | -- | -- | -- | -- |
| 03/30/09[7] | 112.03 | 101.23 | 10.80 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **09/15/09** | **112.03** | **98.84** | **13.19** | **SAMPLED ANNUALLY** | | -- | -- | -- | -- |
| **MW-3** | | | | | | | | | |
| 09/20/93 | 113.67 | 97.25 | 16.42 | 6,600 | 400 | 11 | 32 | 23 | -- |
| 12/14/93 | 113.67 | 98.95 | 14.72 | 8,400 | 390 | 9.4 | 13 | <2.5 | -- |
| 03/16/94 | 113.67 | 98.45 | 15.22 | 6,900 | 260 | 30 | 32 | 27 | -- |
| 06/17/94 | 113.67 | 97.62 | 16.05 | 10,000 | 190 | 61 | 58 | 190 | -- |
| 08/29/94 | 113.67 | 97.44 | 16.23 | 7,200 | 74 | 9.8 | 26 | 24 | -- |
| 12/06/94 | 113.67 | 99.35 | 14.32 | 13,000 | 610 | 86 | 88 | 140 | -- |
| 03/31/95 | 113.67 | 99.98 | 13.69 | 4,300 | 120 | <10 | 12 | <10 | -- |
| 06/24/95 | 113.67 | 98.02 | 15.65 | 6,200 | 210 | 24 | 29 | 12 | -- |
| 09/12/95 | 113.67 | 97.68 | 15.99 | 7,200 | 190 | <20 | <20 | <20 | -- |
| 12/29/95 | 113.67 | 99.67 | 14.00 | 7,100 | 200 | <10 | 45 | 24 | <50 |
| 02/29/96 | 113.67 | 100.91 | 12.76 | 1,200 | 30 | <5.0 | <5.0 | <5.0 | <25 |
| 06/26/96 | 113.67 | 98.44 | 15.23 | 7,900 | 180 | <20 | 35 | 28 | 240 |
| 09/12/96 | 113.67 | 97.73 | 15.94 | 11,000 | 150 | <5.0 | 35 | 28 | 170 |
| 12/11/96 | 113.67 | 99.86 | 13.81 | 7,500 | 75 | 8.8 | 30 | 45 | 110 |
| 03/31/97 | 113.67 | 98.23 | 15.44 | 8,700 | 100 | <10 | 20 | 23 | 50 |
| 06/29/97 | 113.67 | 97.99 | 15.68 | 9,300 | 120 | 28 | 22 | 19 | 150 |
| 09/30/97 | 113.67 | 97.76 | 15.91 | 8,200 | 78 | <10 | 22 | 25 | 96 |
| 12/12/97 | 113.67 | 100.82 | 12.85 | 68 | 1.8 | <0.5 | <0.5 | <0.5 | <2.5 |
| 02/19/98 | 113.67 | 100.41 | 13.26 | 220 | 5.6 | 1.5 | <0.5 | <0.5 | 6.1 |
| 06/16/98 | 113.63 | 99.12 | 14.51 | 7,500 | 97 | 21 | 21 | 27 | 160 |
| 08/31/98 | 113.63 | 98.62 | 15.01 | 7,600 | 24 | <2.5 | 9.5 | 16 | 38 |
| 12/23/98 | 113.63 | 100.03 | 13.60 | 5,800 | 69 | <50 | <50 | <50 | <250 |

# Table 1
## Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-3864
5101 Telegraph Avenue
Oakland, California

| WELL ID/ DATE | TOC (ft.) | GWE (msl) | DTW (ft.) | TPH-GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|
| **MW-3 (cont)** | | | | | | | | | |
| 03/09/99 | 113.63 | 99.59 | 14.04 | 5,300 | <10 | <10 | 16 | 20 | 88 |
| 06/23/99[1] | 113.63 | -- | -- | -- | -- | -- | -- | -- | -- |
| 07/19/99[1] | 113.63 | -- | -- | -- | -- | -- | -- | -- | -- |
| 09/30/99 | 113.63 | 96.74 | 16.89 | 8,660 | 53.7 | 16.9 | 17 | 19.6 | 132 |
| 02/29/00 | 113.63 | INACCESSIBLE | -- | -- | -- | -- | -- | -- | -- |
| 09/18/00[3] | 113.63 | 100.41 | 13.22 | 2,400[4] | 14 | 6.8 | 4.7 | 7.4 | 28 |
| 03/21/01[3] | 113.63 | 98.88 | 14.75 | 7,600[4] | 41 | 30 | <25 | 50 | 160 |
| 09/04/01 | 113.63 | INACCESSIBLE - CAR PARKED OVER WELL | | | -- | -- | -- | -- | -- |
| 03/22/02[3] | 113.63 | 99.46 | 14.17 | 7,600 | <10 | 4.2 | 11 | <25 | <5.0 |
| 09/16/02[3] | 113.63 | 97.34 | 16.29 | 5,900 | <20 | <10 | 7.7 | <15 | 21 |
| 03/28/03[3] | 113.63 | 98.67 | 14.96 | 3,500 | <20 | 3.3 | 7.3 | 10 | <13 |
| 09/02/03[3,7] | 113.63 | 98.20 | 15.43 | 4,500 | 3 | 2 | 2 | 5 | <0.5 |
| 03/18/04[7,8] | 113.63 | 98.91 | 14.72 | 5,300 | 3 | 1 | 3 | 4 | <0.5 |
| 09/15/04 | 113.63 | INACCESSIBLE - CAR PARKED OVER WELL | | | -- | -- | -- | -- | -- |
| 03/11/05[7] | 113.63 | 99.72 | 13.91 | 4,500 | 2 | 1 | 2 | 4 | <0.5 |
| 09/29/05[7] | 113.63 | 98.06 | 15.57 | 5,300 | 3 | 1 | 2 | 4 | <0.5 |
| 03/24/06[7] | 113.63 | 100.10 | 13.53 | 3,300 | 1 | 0.6 | 1 | 2 | <0.5 |
| 09/12/06[7] | 113.63 | 98.16 | 15.47 | 6,100 | 2 | 1 | 2 | 4 | <0.5 |
| 03/05/07[7] | 113.63 | 99.69 | 13.94 | 4,000 | 1 | 0.6 | 0.8 | 2 | <0.5 |
| 09/21/07[7] | 113.63 | 98.24 | 15.39 | 5,900 | 2 | 1 | 1 | 4 | <0.5 |
| 03/06/08[7] | 113.63 | 99.02 | 14.61 | 3,900 | 2 | 0.8 | 2 | 3 | <0.5 |
| 09/05/08[7] | 113.63 | 98.13 | 15.50 | 5,100 | 1 | 0.7 | 2 | 3 | <0.5 |
| 03/30/09[7] | 113.63 | 99.13 | 14.50 | 4,800 | 2 | 0.7 | 1 | 3 | <0.5 |
| **09/15/09** | **113.63** | **INACCESSIBLE** | -- | -- | -- | -- | -- | -- | -- |
| | | | | | | | | | |
| **MW-5** | | | | | | | | | |
| 09/20/93 | 116.74 | 101.43 | 15.31 | 590 | 25 | 1.8 | 0.6 | 2.0 | -- |
| 12/14/93 | 116.74 | 102.19 | 14.55 | 210 | 11 | 6.3 | 2.3 | 6.1 | -- |
| 03/16/94 | 116.74 | 101.77 | 14.97 | 270 | 12 | 16 | 4.8 | 17 | -- |
| 06/17/94 | 116.74 | 101.36 | 15.38 | 220 | 24 | 17 | 6.7 | 28 | -- |
| 08/29/94 | 116.74 | 101.54 | 15.20 | 1,000 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 12/06/94 | 116.74 | 102.09 | 14.65 | 110 | 9.2 | 9.7 | 2.2 | 11 | -- |
| 03/31/95 | 116.74 | 103.04 | 13.70 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 06/24/95 | 116.74 | 101.95 | 14.79 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |

# Table 1
## Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-3864
5101 Telegraph Avenue
Oakland, California

| WELL ID/ DATE | TOC (ft.) | GWE (msl) | DTW (ft.) | TPH-GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|
| **MW-5 (cont)** | | | | | | | | | |
| 09/12/95 | 116.74 | 102.15 | 14.59 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 12/29/95 | 116.74 | 101.76 | 14.98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 02/29/96 | 116.74 | 103.07 | 13.67 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 06/26/96 | 116.74 | 102.50 | 14.24 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 09/12/96 | 116.74 | 102.12 | 14.62 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 12/11/96 | 116.74 | 102.93 | 13.81 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 03/31/97 | 116.74 | 101.29 | 15.45 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 06/29/97 | 116.74 | 102.07 | 14.67 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 09/30/97 | 116.74 | 101.89 | 14.85 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 12/12/97 | 116.74 | 102.99 | 13.75 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 02/19/98 | 116.74 | 103.68 | 13.06 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 06/16/98 | 116.70 | 102.35 | 14.35 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 08/31/98 | 116.70 | 101.54 | 15.16 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 12/23/98 | 116.70 | 102.15 | 14.55 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 03/09/99 | 116.70 | 102.63 | 14.07 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 09/30/99 | 116.70 | 100.80 | 15.90 | SAMPLED ANNUALLY | | -- | -- | -- | -- |
| 02/29/00 | 116.70 | 103.40 | 13.30 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| 09/18/00 | 116.70 | 101.62 | 15.08 | -- | -- | -- | -- | -- | -- |
| 03/21/01 | 116.70 | 102.04 | 14.66 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 |
| 09/04/01 | 116.70 | 101.26 | 15.44 | -- | -- | -- | -- | -- | --/<2[5] |
| 03/22/02[6] | 116.70 | 101.99 | 14.71 | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 |
| 09/16/02 | 116.70 | 101.02 | 15.68 | SAMPLED ANNUALLY | | -- | -- | -- | -- |
| 03/28/03 | 116.70 | 101.65 | 15.05 | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 |
| 09/02/03 | 116.70 | 101.34 | 15.36 | SAMPLED ANNUALLY | | -- | -- | -- | -- |
| 03/18/04[7] | 116.70 | 102.14 | 14.56 | <50 | 1 | 0.7 | 1 | 3 | <0.5 |
| 09/15/04 | 116.70 | 101.30 | 15.40 | SAMPLED ANNUALLY | | -- | -- | -- | -- |
| 03/11/05[7] | 116.70 | 102.50 | 14.20 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 09/29/05 | 116.70 | 101.23 | 15.47 | SAMPLED ANNUALLY | | -- | -- | -- | -- |
| 03/24/06[7] | 116.70 | 102.77 | 13.93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 09/12/06 | 116.70 | 102.03 | 14.67 | SAMPLED ANNUALLY | | -- | -- | -- | -- |
| 03/05/07[7] | 116.70 | 102.03 | 14.67 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 09/21/07 | 116.70 | 101.10 | 15.60 | SAMPLED ANNUALLY | | -- | -- | -- | -- |
| 03/06/08[7] | 116.70 | 102.20 | 14.50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

# Table 1

## Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-3864

5101 Telegraph Avenue

Oakland, California

| WELL ID/ DATE | TOC (ft.) | GWE (msl) | DTW (ft.) | TPH-GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|
| **MW-5 (cont)** | | | | | | | | | |
| 09/05/08 | 116.70 | 101.24 | 15.46 | SAMPLED ANNUALLY | | -- | -- | -- | -- |
| 03/30/09[7] | 116.70 | 101.90 | 14.80 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **09/15/09** | **116.70** | **100.83** | **15.87** | **SAMPLED ANNUALLY** | | -- | -- | -- | -- |
| **C-1** | | | | | | | | | |
| 12/06/90 | 117.45 | 102.11 | 15.34 | 1,900 | 17 | 11 | 3.0 | 21 | -- |
| 06/06/91 | 117.45 | 102.83 | 14.62 | 3,400 | 21 | 15 | 11 | 18 | -- |
| 12/04/91 | 117.45 | 102.97 | 14.48 | 2,700 | 22 | 16 | 13 | 23 | -- |
| 06/02/92 | 117.45 | 102.92 | 14.53 | 1,900 | 170 | 170 | 13 | 83 | -- |
| 09/16/92 | 117.45 | 102.52 | 14.93 | 810 | 5.8 | 5.7 | 2.0 | 6.3 | -- |
| 12/21/92 | 117.45 | 103.72 | 13.73 | 75 | 2.4 | 2.9 | 1.4 | 4.7 | -- |
| 03/11/93 | 117.45 | 103.62 | 13.83 | 150 | 2.4 | 20 | 3.3 | 23 | -- |
| 06/11/93 | 117.45 | 103.26 | 14.19 | 400 | 4.3 | 2.3 | 1.0 | 3.5 | -- |
| 09/13/93 | 117.45 | 102.85 | 14.60 | 4,100 | 62 | 43 | 34 | 57 | -- |
| 12/14/93 | 117.45 | 103.67 | 13.78 | 3,100 | 9.5 | 4.5 | 1.2 | 11 | -- |
| 03/16/94 | 117.45 | 103.44 | 14.01 | 410 | 6.3 | 3.1 | 1.3 | 4.5 | -- |
| 06/17/94 | 117.45 | 102.90 | 14.55 | 3,700 | 100 | 42 | 30 | 91 | -- |
| 08/29/94 | 117.45 | 102.96 | 14.49 | 2,600 | 15 | <0.5 | 6.7 | 9.7 | -- |
| 12/06/94 | 117.45 | 104.04 | 13.41 | 510 | 2.0 | 2.2 | 1.7 | 9.4 | -- |
| 03/31/95 | 117.45 | 105.33 | 12.12 | 5,440 | 9.0 | 2.3 | 2.0 | 3.6 | -- |
| 06/24/95 | 117.45 | 103.45 | 14.00 | 260 | 5.8 | 1.0 | 0.94 | 0.88 | -- |
| 09/12/95 | 117.45 | 103.42 | 14.03 | 650 | 14 | 1.1 | 1.6 | 2.4 | -- |
| 12/29/95 | 117.45 | 104.50 | 12.95 | 990 | 32 | 6.3 | 4.0 | 3.2 | 46 |
| 02/29/96 | 117.45 | 105.27 | 12.18 | 840 | 2.5 | <1.0 | 2.6 | 7.3 | <5.0 |
| 06/26/96 | 117.45 | 103.72 | 13.73 | 290 | 3.6 | 0.73 | 1.0 | 1.1 | 9.9 |
| 09/12/96 | 117.45 | 103.32 | 14.13 | 1,200 | 17 | 1.8 | 4.0 | 4.4 | 24 |
| 12/11/96 | 117.45 | 104.66 | 12.79 | 7,700 | <10 | 53 | 19 | 44 | 87 |
| ABANDONED | | | | | | | | | |
| **C-2** | | | | | | | | | |
| 12/06/90 | 116.16 | 100.82 | 15.34 | 210 | 140 | 9.0 | 2.0 | 11 | -- |
| 06/06/91 | 116.16 | 101.54 | 14.62 | 4,800 | 340 | 23 | 19 | 23 | -- |
| 12/04/91 | 116.16 | 100.73 | 15.43 | 3,900 | 85 | 15 | 9.1 | 15 | -- |
| 06/02/92 | 116.16 | 101.74 | 14.42 | 3,300 | 76 | 9.2 | 14 | 15 | -- |

# Table 1
## Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #9-3864
5101 Telegraph Avenue
Oakland, California

| WELL ID/ DATE | TOC (ft.) | GWE (msl) | DTW (ft.) | TPH-GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|
| **C-2 (cont)** | | | | | | | | | |
| 09/16/92 | 116.16 | 101.35 | 14.81 | 3,000 | 16 | 15 | 3.4 | 7.5 | -- |
| 12/21/92 | 116.16 | 102.79 | 13.37 | 2,200 | 21 | 12 | 7.1 | 15 | -- |
| 03/11/93 | 116.16 | 102.69 | 13.47 | 2,200 | 33 | 24 | 12 | 25 | -- |
| 06/11/93 | 116.16 | 102.18 | 13.98 | 2,600 | 21 | 25 | 11 | 26 | -- |
| 09/13/93 | 116.16 | 101.61 | 14.55 | 2,100 | 31 | 25 | 18 | 39 | -- |
| 12/14/93 | 116.16 | 102.46 | 13.70 | 3,800 | <2.5 | 24 | 12 | 20 | -- |
| 03/16/94 | 116.16 | 102.51 | 13.65 | 2,600 | 12 | 15 | 10 | 17 | -- |
| 06/17/94 | 116.16 | 102.87 | 13.29 | 2,400 | 17 | 19 | 28 | 71 | -- |
| 08/29/94 | 116.16 | 111.60 | 4.56 | 3,000 | 29 | 15 | 20 | 4.2 | -- |
| 12/06/94 | 116.16 | 102.98 | 13.18 | 1,900 | 7.9 | 30 | 14 | 31 | -- |
| 03/31/95 | 116.16 | 104.10 | 12.06 | 890 | <1.3 | <1.3 | 2.6 | <1.3 | -- |
| 06/24/95 | 116.16 | 102.19 | 13.97 | 730 | 4.8 | <0.5 | 5.4 | 0.96 | -- |
| 09/12/95 | 116.16 | 102.28 | 13.88 | 1,600 | <2.5 | <2.5 | 5.4 | <2.5 | -- |
| 12/29/95 | 116.16 | 103.31 | 12.85 | 1,000 | 9.1 | 2.7 | 8.7 | 2.7 | 19 |
| 02/29/96 | 116.16 | 104.09 | 12.07 | 850 | <2.5 | <2.5 | 8.7 | 11 | <12 |
| 06/26/96 | 116.16 | 102.50 | 13.66 | 2,500 | 14 | <5.0 | 13 | 6.3 | <25 |
| 09/12/96 | 116.16 | 102.25 | 13.91 | 1,800 | 26 | 19 | 17 | 31 | 37 |
| 12/11/96 | 116.16 | 103.82 | 12.34 | 2,800 | <5.0 | 34 | 14 | <5.0 | 41 |
| ABANDONED | | | | | | | | | |
| | | | | | | | | | |
| **C-4** | | | | | | | | | |
| 12/06/90 | 116.10 | 98.42 | 17.68 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 12/18/90 | 116.10 | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 06/06/91 | 116.10 | 99.61 | 16.49 | <50 | 1.0 | 1.0 | <0.5 | 0.7 | -- |
| 12/04/91 | 116.10 | 99.28 | 16.82 | 70 | 6.5 | 9.8 | 1.7 | 8.6 | -- |
| 06/02/92 | 116.10 | 99.18 | 16.92 | 70 | 3.0 | 4.4 | 1.8 | 9.0 | -- |
| 09/16/92 | 116.10 | 98.39 | 17.71 | <50 | 1.4 | 1.8 | <0.5 | 1.1 | -- |
| 12/21/92 | 116.10 | 100.74 | 15.36 | <50 | 0.6 | 0.7 | <0.5 | 1.5 | -- |
| 03/11/93 | 116.10 | 100.61 | 15.49 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | -- |
| 06/11/93 | 116.10 | 99.83 | 16.27 | 52 | 0.9 | 3.1 | 0.7 | 3.8 | -- |
| 09/13/93 | 116.10 | 98.92 | 17.18 | 64 | 0.9 | 1.0 | <0.5 | 1.7 | -- |
| 12/14/93 | 116.10 | 101.03 | 15.07 | <50 | <0.5 | 0.8 | <0.5 | 0.7 | -- |
| 03/16/94 | 116.10 | 100.19 | 15.91 | <50 | <0.5 | 1.0 | <0.5 | 0.8 | -- |
| 06/17/94 | 116.10 | 99.46 | 16.64 | 230 | 0.6 | 2.2 | 2.2 | 11 | -- |
| 08/29/94 | 116.10 | 99.05 | 17.05 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |

# Table 1

## Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-3864

5101 Telegraph Avenue

Oakland, California

| WELL ID/ DATE | TOC (ft.) | GWE (msl) | DTW (ft.) | TPH-GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|
| **C-4 (cont)** | | | | | | | | | |
| 12/06/94 | 116.10 | 101.52 | 14.58 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 03/31/95 | 116.10 | 102.26 | 13.84 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 06/24/95 | 116.10 | 100.05 | 16.05 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 09/12/95 | 116.10 | 99.87 | 16.23 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 12/29/95 | 116.10 | 101.35 | 14.75 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 02/29/96 | 116.10 | 102.40 | 13.70 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 06/26/96 | 116.10 | 100.30 | 15.80 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 09/12/96 | 116.10 | 99.67 | 16.43 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 12/11/96 | 116.10 | 103.18 | 12.92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| ABANDONED | | | | | | | | | |
| | | | | | | | | | |
| **MW-4** | | | | | | | | | |
| 09/20/93 | 118.10 | 107.17 | 10.93 | 5,800 | 16 | 4.2 | 35 | 48 | -- |
| 12/14/93 | 118.10 | 108.33 | 9.77 | 7,100 | 19 | 6.5 | 24 | 35 | -- |
| 03/16/94 | 118.10 | 107.99 | 10.11 | 8,500 | 83 | 43 | 60 | 70 | -- |
| 06/17/94 | 118.10 | 107.20 | 10.90 | 21,000 | 150 | 20 | 140 | 350 | -- |
| 08/29/94 | 118.10 | 107.28 | 10.82 | 10,000 | 86 | 71 | 44 | 85 | -- |
| 12/06/94 | 118.10 | 108.70 | 9.40 | 13,000 | 68 | 56 | 67 | 110 | -- |
| 03/31/95 | 118.10 | 109.31 | 8.79 | 6,700 | 100 | 9.4 | 26 | 23 | -- |
| 06/24/95 | 118.10 | 107.60 | 10.50 | 6,300 | <20 | <20 | <20 | 24 | -- |
| 09/12/95 | 118.10 | 107.90 | 10.20 | 7,100 | 65 | 16 | <10 | 21 | -- |
| 12/29/95 | 118.10 | 108.86 | 9.24 | 3,300 | <10 | <10 | 12 | 14 | 720 |
| 02/29/96 | 118.10 | 111.85 | 6.25 | 5,100 | <10 | 37 | 23 | 21 | 85 |
| 06/26/96 | 118.10 | 107.92 | 10.18 | 6,800 | <20 | <20 | <20 | <20 | <100 |
| 09/12/96 | 118.10 | 107.53 | 10.57 | 13,000 | 150 | <10 | 38 | 35 | 240 |
| 12/11/96 | 118.10 | 109.39 | 8.71 | 26,000 | <20 | <20 | <20 | 170 | <100 |
| 03/31/97 | 118.10 | 107.18 | 10.92 | 12,000 | 120 | 74 | 45 | 70 | 240 |
| 06/29/97 | 118.10 | 106.43 | 11.67 | 8,800 | 24 | <10 | 35 | 36 | 62 |
| 09/30/97 | 118.10 | 107.20 | 10.90 | 10,000 | <10 | <10 | 37 | 35 | 72 |
| 12/12/97 | 118.10 | 105.16 | 12.94 | 4,600 | 95 | 41 | 20 | 25 | 91 |
| 02/19/98 | 118.10 | 110.33 | 7.77 | 5,400 | 87 | 16 | 32 | 31 | 110 |
| 06/16/98[2] | 118.08 | 107.82 | 10.26 | 10,000 | <20 | <20 | 35 | 37 | 150 |
| NOT MONITORED/SAMPLED | | | | | | | | | |

# Table 1

## Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-3864

5101 Telegraph Avenue

Oakland, California

| WELL ID/ DATE | TOC (ft.) | GWE (msl) | DTW (ft.) | TPH-GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|
| **TRIP BLANK** | | | | | | | | | |
| 12/06/90 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 12/18/90 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 06/06/91 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 12/04/91 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 06/02/92 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 09/16/92 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 12/21/92 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 03/11/93 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <1.5 | -- |
| 06/11/93 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <1.5 | -- |
| 09/13/93 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <1.5 | -- |
| 12/14/93 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 03/16/94 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 06/17/94 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 08/29/94 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 12/06/94 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 03/31/95 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 06/24/95 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 09/12/95 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 12/29/95 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 02/29/96 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 06/26/96 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 09/12/96 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- |
| 12/11/96 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 03/31/97 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 06/29/97 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 09/30/97 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 12/12/97 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 02/19/98 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 06/16/98 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 08/31/98 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 12/23/98 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 2.9 |
| 03/09/99 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 09/30/99 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |
| 02/29/00 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 |

# Table 1

## Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-3864

5101 Telegraph Avenue

Oakland, California

| WELL ID/ DATE | TOC (ft.) | GWE (msl) | DTW (ft.) | TPH-GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|
| **TRIP BLANK (cont)** | | | | | | | | | |
| 09/18/00 | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 |
| 03/21/01 | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 |
| 09/04/01 | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 |
| **QA** | | | | | | | | | |
| 03/22/02 | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 |
| 09/16/02 | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 |
| 03/28/03 | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 |
| 09/02/03[7] | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 03/18/04[7] | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 09/15/04[7] | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 03/11/05[7] | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 09/29/05[7] | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 03/24/06[7] | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 09/12/06[7] | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 03/05/07[7] | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 09/21/07[7] | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 03/06/08[7] | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 09/05/08[7] | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 03/30/09[7] | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **DISCONTINUED** | | | | | | | | | |

# Table 1

## Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-3864

5101 Telegraph Avenue

Oakland, California

**EXPLANATIONS:**

Groundwater monitoring data and laboratory analytical results prior to February 9, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

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

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

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

1 ORC installed.
2 Transfer of title to Tri-Star Partnership, Inc. effective July 14, 1998.
3 ORC in well.
4 Laboratory report indicates gasoline C6-C12.
5 MTBE by EPA Method 8260.
6 Split samples taken by Harding ESE.
7 BTEX and MTBE by EPA Method 8260.
8 ORC removed from well.

# Table 2

**Dissolved Oxygen Concentrations**

Former Chevron Service Station #9-3864

5101 Telegraph Avenue

Oakland, California

| WELL ID | DATE | PRE-PURGE (mg/L) | POST-PURGE (mg/L) |
|---|---|---|---|
| C-3[1] | 09/18/00 | 3.64 | -- |
| | 03/21/01 | 1.00 | -- |
| | 09/04/01 | 1.40 | -- |
| | 03/22/02 | 1.10 | -- |
| | 09/16/02 | 1.20 | -- |
| | 03/28/03[2] | -- | -- |
| | 09/02/03 | 0.80 | -- |
| | 03/18/04[3] | 0.56 | -- |
| MW-3[1] | 09/18/00 | 4.01 | -- |
| | 03/21/01 | 1.30 | -- |
| | 09/04/01 | INACCESSIBLE - CAR PARKED OVER WELL | |
| | 03/22/02 | 1.30 | -- |
| | 09/16/02 | 1.00 | -- |
| | 03/28/03[2] | -- | -- |
| | 09/02/03 | 0.90 | -- |
| | 03/18/04[3] | 1.21 | -- |

**EXPLANATIONS:**

(mg/L) = Milligrams per liter

-- = Not Measured

[1] ORC in well.

[2] Meter inoperable; unable to take Dissolved Oxygen measurements

[3] ORC removed from well.

# Table 3

**Groundwater Analytical Results - Oxygenate Compounds**

Former Chevron Service Station #9-3864

5101 Telegraph Avenue

Oakland, California

| WELL ID | DATE | TBA (µg/L) | MTBE (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) |
|---|---|---|---|---|---|---|---|---|
| C-3 | 09/04/01 | <100 | <2 | <2 | <2 | <2 | <2 | <2 |
| | 09/02/03 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 03/18/04 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 09/15/04 | -- | 10 | -- | -- | -- | -- | -- |
| | 03/11/05 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 09/29/05 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 03/24/06 | INACCESSIBLE - CAR PARKED OVER WELL | | | -- | -- | -- | -- |
| | 09/12/06 | -- | <1 | -- | -- | -- | -- | -- |
| | 03/05/07 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 09/21/07 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 03/06/08 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 09/05/08 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 03/30/09 | -- | <0.5 | -- | -- | -- | -- | -- |
| | **09/15/09** | -- | **<0.5** | -- | -- | -- | -- | -- |
| MW-1 | 09/04/01 | <100 | <2 | <2 | <2 | <2 | <2 | <2 |
| | 03/18/04 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 09/15/04 | SAMPLED ANNUALLY | | -- | -- | -- | -- | -- |
| | 03/11/05 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 03/24/06 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 03/05/07 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 03/06/08 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 03/30/09 | -- | <0.5 | -- | -- | -- | -- | -- |
| MW-2 | 09/04/01 | <100 | <2 | <2 | <2 | <2 | <2 | <2 |
| | 03/18/04 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 09/15/04 | SAMPLED ANNUALLY | | -- | -- | -- | -- | -- |
| | 03/11/05 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 03/24/06 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 03/05/07 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 03/06/08 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 03/30/09 | -- | <0.5 | -- | -- | -- | -- | -- |

# Table 3

**Groundwater Analytical Results - Oxygenate Compounds**

Former Chevron Service Station #9-3864

5101 Telegraph Avenue

Oakland, California

| WELL ID | DATE | TBA (µg/L) | MTBE (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) |
|---|---|---|---|---|---|---|---|---|
| MW-3 | 09/02/03 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 03/18/04 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 09/15/04 | INACCESSIBLE - CAR PARKED OVER WELL | | | -- | -- | -- | -- |
| | 03/11/05 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 09/29/05 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 03/24/06 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 09/12/06 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 03/05/07 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 09/21/07 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 03/06/08 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 09/05/08 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 03/30/09 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 09/15/09 | INACCESSIBLE | -- | -- | -- | -- | -- | -- |
| MW-5 | 09/04/01 | <100 | <2 | <2 | <2 | <2 | <2 | <2 |
| | 03/18/04 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 09/15/04 | SAMPLED ANNUALLY | | -- | -- | -- | -- | -- |
| | 03/11/05 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 03/24/06 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 03/05/07 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 03/06/08 | -- | <0.5 | -- | -- | -- | -- | -- |
| | 03/30/09 | -- | <0.5 | -- | -- | -- | -- | -- |

# Table 3

**Groundwater Analytical Results - Oxygenate Compounds**

Former Chevron Service Station #9-3864

5101 Telegraph Avenue

Oakland, California

**EXPLANATIONS:**

TBA = t-Butyl alcohol

MTBE = Methyl Tertiary Butyl Ether

DIPE = di-Isopropyl ether

ETBE = Ethyl t-butyl ether

TAME = t-Amyl methyl ether

1,2-DCA = 1,2-Dichloroethane

EDB = 1,2-Dibromoethane

(µg/L) = Micrograms per liter

-- = Not Analyzed

**ANALYTICAL METHOD:**

EPA Method 8260 for Oxygenate Compounds

# STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

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

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize.

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

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

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-3864 Job Number: 386358
Site Address: 5101 Telegraph Avenue Event Date: 9-15-09 (inclusive)
City: Oakland, CA Sampler: Joe

Well ID C-3 Date Monitored: 9-15-09
Well Diameter 2 in.
Total Depth 29.10 ft.
Depth to Water 15.15 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 | t2"= 5.80 |

☐ Check if water column is less then 0.50 ft.

13.95 xVF 0.17 = 2.37 x3 case volume = Estimated Purge Volume: 7.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.94

**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): 0718 Weather Conditions: Clear
Sample Time/Date: 0800 9-15-09 Water Color: clear Odor: (Y) / N Strong
Approx. Flow Rate: ~ gpm. Sediment Description:
Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 16.08

| Time (2400 hr.) | Volume (gal.) | pH | Conductivity (µmhos/cm - (mS)) | Temperature (C / F) | D.O. (mg/L) | ORP (mV) |
|---|---|---|---|---|---|---|
| 0725 | 2.5 | 6.54 | 598 | 20.4 | | |
| 0730 | 5 | 6.67 | 615 | 21.0 | | |
| 0737 | 7.5 | 6.63 | 624 | 21.5 | | |
| | | | | | | |

### LABORATORY INFORMATION

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

COMMENTS:

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Chevron #9-3864** Job Number: **386358**

Site Address: **5101 Telegraph Avenue** Event Date: 9-15-09 (inclusive)

City: **Oakland, CA** Sampler: Joe

Well ID MW-1 Date Monitored: 9-15-09

Well Diameter 2 in.

Total Depth 21.60 ft.

Depth to Water 12.96 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.

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

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

**Purge Equipment:**

Disposable Bailer _____
Stainless Steel Bailer _____
Stack Pump _____
Suction Pump _____
Grundfos _____
Peristaltic Pump _____
QED Bladder Pump _____
Other: _____

**Sampling Equipment:**

Disposable Bailer _____
Pressure Bailer _____
Discrete Bailer _____
Peristaltic Pump _____
QED Bladder Pump _____
Other: _____

Time Started: _____ (2400 hrs)
Time Completed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: _____ ft
Visual Confirmation/Description: _____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ gal
Amt Removed from Well: _____ gal
Water Removed: _____
Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____

Sample Time/Date: _____ / _____ Water Color: _____ Odor: Y / N _____

Approx. Flow Rate: _____ gpm. Sediment Description: _____

Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: _____

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

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

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-3864 Job Number: 386358
Site Address: 5101 Telegraph Avenue Event Date: 9-15-09 (inclusive)
City: Oakland, CA Sampler: Joe

Well ID MW-2
Well Diameter 2 in.
Total Depth 24.34 ft.
Depth to Water 13.19 ft.

Date Monitored: 9-15-09

| 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.

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

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

**Purge Equipment:**
Disposable Bailer _____
Stainless Steel Bailer _____
Stack Pump _____
Suction Pump _____
Grundfos _____
Peristaltic Pump _____
QED Bladder Pump _____
Other: _____

**Sampling Equipment:**
Disposable Bailer _____
Pressure Bailer _____
Discrete Bailer _____
Peristaltic Pump _____
QED Bladder Pump _____
Other: _____

Time Started: _____ (2400 hrs)
Time Completed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: _____ ft
Visual Confirmation/Description: _____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ gal
Amt Removed from Well: _____ gal
Water Removed: _____
Product Transferred to: _____

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

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

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

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING
## FIELD DATA SHEET

Client/Facility#: Chevron #9-3864 Job Number: 386358
Site Address: 5101 Telegraph Avenue Event Date: 9-15-09 (inclusive)
City: Oakland, CA Sampler: Joe

Well ID mw-3 Date Monitored: _____
Well Diameter 2 in.
Total Depth _____ ft.
Depth to Water _____ 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.

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

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

**Purge Equipment:**
Disposable Bailer _____
Stainless Steel Bailer _____
Stack Pump _____
Suction Pump _____
Grundfos _____
Peristaltic Pump _____
QED Bladder Pump _____
Other: _____

**Sampling Equipment:**
Disposable Bailer _____
Pressure Bailer _____
Discrete Bailer _____
Peristaltic Pump _____
QED Bladder Pump _____
Other: _____

Time Started: _____ (2400 hrs)
Time Completed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: _____ ft
Visual Confirmation/Description: _____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ gal
Amt Removed from Well: _____ gal
Water Removed: _____
Product Transferred to: _____

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

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

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| | x voa vial | YES | HCL | LANCASTER | TPH-GRO(8015)/BTEX+MTBE(8260) |
| | | | | | |
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COMMENTS: Inaccessible. Well was parked over all day.

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING
## FIELD DATA SHEET

Client/Facility#: Chevron #9-3864 Job Number: 386358
Site Address: 5101 Telegraph Avenue Event Date: 9-15-09 (inclusive)
City: Oakland, CA Sampler: Joe

Well ID MW-5 Date Monitored: 9-15-09
Well Diameter 2 in.
Total Depth 21.65 ft.
Depth to Water 15.87 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.

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

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

**Purge Equipment:**
Disposable Bailer _____
Stainless Steel Bailer _____
Stack Pump _____
Suction Pump _____
Grundfos _____
Peristaltic Pump _____
QED Bladder Pump _____
Other: _____

**Sampling Equipment:**
Disposable Bailer _____
Pressure Bailer _____
Discrete Bailer _____
Peristaltic Pump _____
QED Bladder Pump _____
Other: _____

Time Started: _____ (2400 hrs)
Time Completed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: _____ ft
Visual Confirmation/Description: _____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ gal
Amt Removed from Well: _____ gal
Water Removed: _____
Product Transferred to: _____

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

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

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

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

# Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories

091509-02

For Lancaster Laboratories use only

Acct. #: 12099 Sample # 5777551 Group #: 019014

C# 1162013

CRA MTI Project #: 61H-1951

Facility #: SS#9-3864 G-R#386358 Global ID#T0600100343

Site Address: 5101 TELEGRAPH AVENUE, OAKLAND, CA

Chevron PM: MTI Lead Consultant: CRAKJ

Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568

Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)

Consultant Phone #: 925-551-7555 Fax #: 925-551-7899

Sampler: JOE AJEMIAN

**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

| Sample Identification | Date Collected | Time Collected | Matrix: Grab | Composite | Soil | Potable ☐ NPDES ☐ Water | Oil ☐ Air | Total Number of Containers | Analyses Requested / Preservation Codes: 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 | — | — | ✓ | | | ✓ | | 2 | ✓ | ✓ | | | | | |
| C-3 | 9-15-09 | 0810 | " | | | " | | 6 | ✓ | ✓ | | | | | |

**Comments / Remarks**
*QA not analyzed per Deanna Harding. jmp 9/17/09

**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: | 9-15-09 | 0915 | Received by: | 9-15-09 | 0915 |
| Relinquished by: | 15 SEP 09 | 1630 | Received by: FED EX | | |
| Relinquished by: | | | Received by: | | |
| Relinquished by Commercial Carrier: UPS FedEx Other | | | Received by: | 9/16/09 | 0905 |
| Temperature Upon Receipt 2.6 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



Prepared by:

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

September 23, 2009

## SAMPLE GROUP

The sample group for this submittal is 1162013. Samples arrived at the laboratory on Wednesday, September 16, 2009. The PO# for this group is 93864 and the release number is MTI.

| Client Description | Lancaster Labs Number |
|---|---|
| C-3-W-090915 Grab Water | 5777551 |

## METHODOLOGY

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,

Susan M Goshert

Susan M. Goshert
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. WW 5777551**

**Group No. 1162013**
**CA**

**C-3-W-090915 Grab Water**
**Facility# 93864 Job# 386358 MTI# 61H-1951 GRD**
**5101 Telegraph Ave-Oakland T0600100343 C-3**

Collected: 09/15/2009 08:00 by JA

Account Number: 12099

Submitted: 09/16/2009 09:05
Reported: 09/23/2009 at 18:49
Discard: 10/24/2009

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

TAO03

| 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 | 1 | 0.5 | 1 |
| **GC Volatiles** | **SW-846 8015B** | | **ug/l** | **ug/l** | |
| 01728 | TPH-GRO N. CA water C6-C12 | n.a. | 4,700 | 250 | 5 |

## General Sample Comments

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

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

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | D092643AA | 09/22/2009 02:05 | Michael A Ziegler | 1 |
| 06054 | BTEX+MTBE by 8260B | SW-846 8260B | 1 | D092643AA | 09/22/2009 02:05 | Michael A Ziegler | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 09260A20A | 09/17/2009 21:40 | Matthew S Woods | 5 |
| 01728 | TPH-GRO N. CA water C6-C12 | SW-846 8015B | 1 | 09260A20A | 09/17/2009 21:40 | Matthew S Woods | 5 |

Lancaster Laboratories

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# Analysis Report



## Quality Control Summary

Client Name: Chevron c/o CRA
Reported: 09/23/09 at 06:49 PM

Group Number: 1162013

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: D092643AA | Sample number(s): 5777551 | | | | | | | |
| Benzene | N.D. | 0.5 | ug/l | 87 | | 79-120 | | |
| Ethylbenzene | N.D. | 0.5 | ug/l | 86 | | 79-120 | | |
| Methyl Tertiary Butyl Ether | N.D. | 0.5 | ug/l | 98 | | 76-120 | | |
| Toluene | N.D. | 0.5 | ug/l | 88 | | 79-120 | | |
| Xylene (Total) | N.D. | 0.5 | ug/l | 88 | | 80-120 | | |
| Batch number: 09260A20A | Sample number(s): 5777551 | | | | | | | |
| TPH-GRO N. CA water C6-C12 | N.D. | 50. | ug/l | 118 | 118 | 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: D092643AA | Sample number(s): 5777551 UNSPK: P777427 | | | | | | | | |
| Benzene | 95 | 106 | 80-126 | 10 | 30 | | | | |
| Ethylbenzene | 92 | 100 | 71-134 | 8 | 30 | | | | |
| Methyl Tertiary Butyl Ether | 101 | 110 | 72-126 | 8 | 30 | | | | |
| Toluene | 95 | 102 | 80-125 | 7 | 30 | | | | |
| Xylene (Total) | 94 | 102 | 79-125 | 8 | 30 | | | | |
| Batch number: 09260A20A | Sample number(s): 5777551 UNSPK: P776162 | | | | | | | | |
| TPH-GRO N. CA water C6-C12 | 118 | | 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: D092643AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---|---|---|---|---|
| 5777551 | 98 | 98 | 94 | 98 |
| Blank | 101 | 100 | 94 | 97 |
| LCS | 102 | 102 | 94 | 100 |
| MS | 103 | 103 | 94 | 102 |
| MSD | 102 | 102 | 93 | 102 |

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

## Quality Control Summary

Client Name: Chevron c/o CRA
Reported: 09/23/09 at 06:49 PM

Group Number: 1162013

### Surrogate Quality Control

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

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 09260A20A
Trifluorotoluene-F

| | |
|---|---|
| 5777551 | 120 |
| Blank | 87 |
| LCS | 118 |
| LCSD | 121 |
| MS | 121 |
| 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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