**Eric Frohnapple, P.E.**
Project Manager
Marketing Business Unit

**Chevron Environmental Management Company**
6111 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 543-5336
Fax (925) 543-2324
ericf@chevron.com

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

Re: Former Chevron Service Station No. 9-9708
5910 MacArthur Boulevard
Oakland, California

I accept the **Second Semi-Annual 2010 Groundwater Monitoring Report** dated January 20, 2010.

I agree with the conclusions and recommendations presented in this document. The information included is accurate to the best of my knowledge, and appears to meet local agency and Regional Board guidelines. This **Second Semi-Annual 2010 Groundwater Monitoring 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 to the best of my knowledge.

Sincerely,

Eric Frohnapple, P.E.
Project Manager

Attachment: Second Semi-Annual 2010 Groundwater Monitoring Report

CONESTOGA-ROVERS
& ASSOCIATES

5900 Hollis Street, Suite A
Emeryville, California 94608
Telephone: (510) 420-0700 Fax: (510) 420-9170
http://www.craworld.com

January 20, 2011 Reference No. 311972

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

Re: Second Semi-Annual 2010
Groundwater Monitoring and Sampling Report
Former Chevron Service Station 9-9708
5910 MacArthur Boulevard
Oakland, California
Fuel Leak Case No. RO0000124

Dear Mr. Mark Detterman:

Conestoga-Rovers & Associates (CRA) is submitting this *Second Semi Annual 2010 Groundwater Monitoring and Sampling Report* for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company. Groundwater monitoring and sampling was performed by Gettler-Ryan Inc. (G-R) of Dublin, California. G-R's December 14, 2010 *Groundwater Monitoring and Sampling Data Package* is presented as Attachment A. Current groundwater monitoring and sampling data are presented in Table 1. Lancaster Laboratories' December 22, 2010 *Analytical Results* is presented as Attachment B. Historical groundwater monitoring and sampling data are included as Attachment C.

## RESULTS OF SECOND SEMI-ANNUAL 2010 EVENT

On December 8, 2010, G-R monitored and sampled the site wells per the established schedule.

Results of the current monitoring event indicate the following:

- Groundwater Flow Direction — Northwesterly
- Hydraulic Gradient — 0.042
- Depth to Water — 9.96 to 14.13 feet below top of casing

Results of the current sampling event are presented below in Table A:

**TABLE A: GROUNDWATER ANALYTICAL DATA**

| *Well ID* | *TPHmo (µg/L)* | *TPHd (µg/L)* | *TPHg (µg/L)* | *Benzene (µg/L)* | *Toluene (µg/L)* | *Ethylbenzene (µg/L)* | *Total Xylenes (µg/L)* | *MTBE (µg/L)* |
|---|---|---|---|---|---|---|---|---|
| ***ESLs[1]*** | ***100*** | ***100*** | ***100*** | ***1*** | ***40*** | ***30*** | ***20*** | ***5*** |
| MW-1 | <39 | -- | 60 | <0.5 | <0.5 | <0.5 | <0.5 | 14 |
| MW-2 | 190 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| MW-3 | 4,000 | 7,300 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| MW-4 | 190 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| MW-5 | 14,000 | -- | 320 | <0.5 | <0.5 | <0.5 | <0.5 | 2 |
| MW-6 | 520 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

## CONCLUSIONS AND RECOMMENDATIONS

The results of ongoing groundwater monitoring and sampling at the site indicate the following:

- Dissolved total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tertiary butyl ether (MTBE) have decreased to either below laboratory detection limits or below drinking water Environmental Screening Levels (ESLs), with the exception of 320 micrograms per liter (µg/L) TPHg and 14 µg/L MTBE.
- Well MW-3, located adjacent to the former used-oil UST, was additionally analyzed for total petroleum hydrocarbons as diesel (TPHd), metals, and polychlorinated biphenyls (PCBs). Of these, only 7,300 µg/L TPHd and 6 µg/L nickel were detected.
- The highest total petroleum hydrocarbon as motor oil (TPHmo) was detected in offsite well MW-5, one order of magnitude higher than in MW-3, located adjacent to the former used-oil UST. The elevated TPHmo concentrations detected in MW-5 is very unlikely from the former Chevron operations as it is located approximately 200 feet crossgradient of the former used-oil tank and no TPHmo was detected well MW-1, located between the former source and well MW-5.

[1] Environmental Screening Levels, Table A, Groundwater is a Potential Drinking Water Source, San Francisco Regional Water Quality Control Board's *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, Interim Final November 2007 (Revised May 2008).

## ANTICIPATED FUTURE ACTIVITIES

*Groundwater Monitoring*
G-R will monitor and sample site wells per the established schedule. CRA will submit a groundwater monitoring and sampling report.

*Low-Risk Case Closure Review*
Based on the groundwater data, CRA will review the site for potential low-risk case closure.

CONESTOGA-ROVERS
& ASSOCIATES



Please contact Kiersten Hoey at (510) 420-3347 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES


Kiersten Hoey

Brandon S. Wilken, PG 7564

IH/aa/6
Encl.

| | |
|---|---|
| Figure 1 | Vicinity Map |
| Figure 2 | Groundwater Elevation and Hydrocarbon Concentration Map |
| Table 1 | Groundwater Monitoring and Sampling Data |
| Attachment A | Monitoring Data Package |
| Attachment B | Laboratory Analytical Report |
| Attachment C | Historical Groundwater Monitoring and Sampling Data |

cc: Mr. Eric Frohnapple, Chevron
Mr. Nisson Saidion, Property Owner

06/17/10

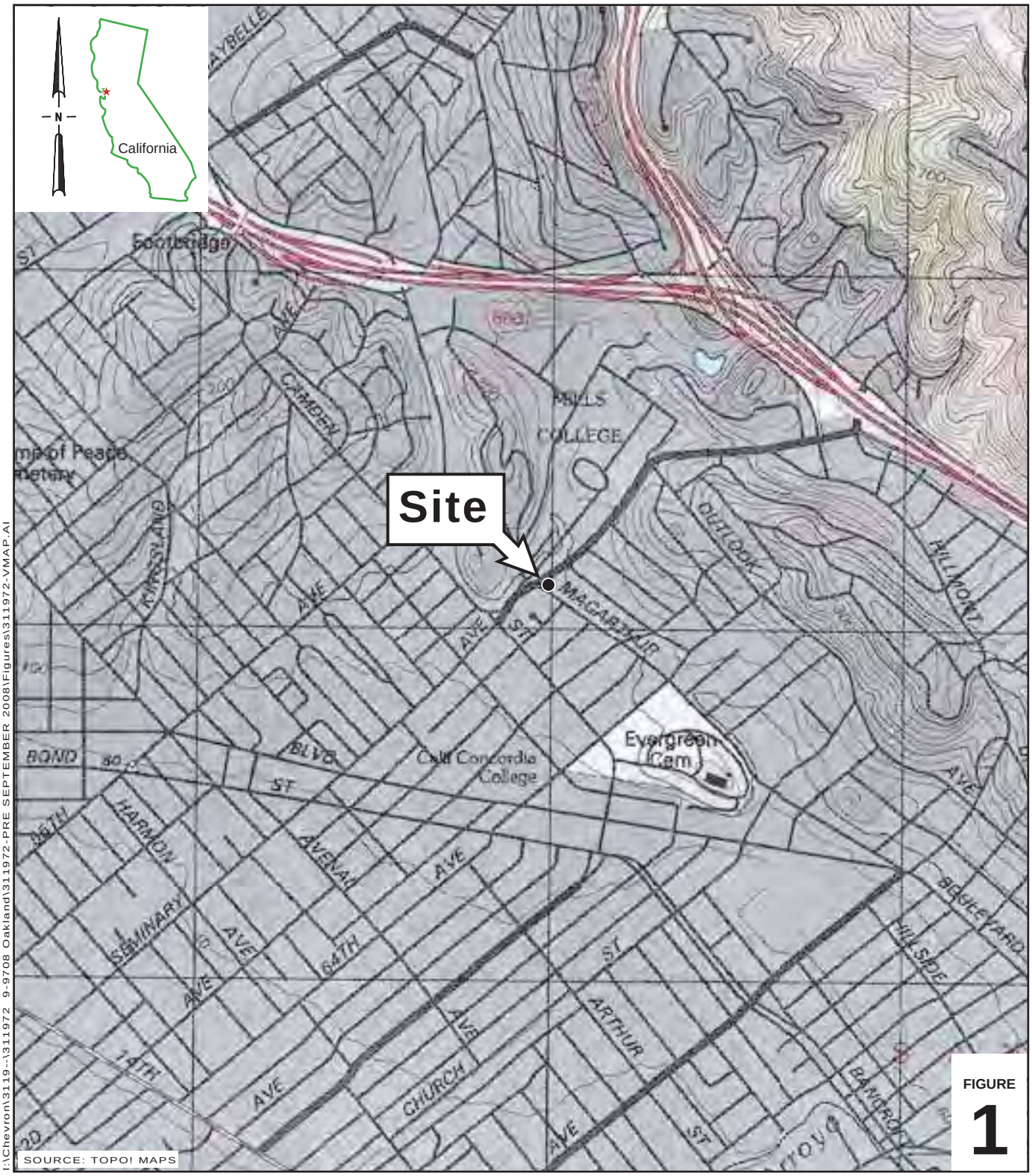


FIGURE
1

I:\Chevron\3119-\311972 9-9708 Oakland\311972-PRE SEPTEMBER 2008\Figures\311972-VMAP.AI

0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

# Former Chevron Service Station 9-9708

5910 Mac Arthur Boulevard

Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

## Vicinity Map

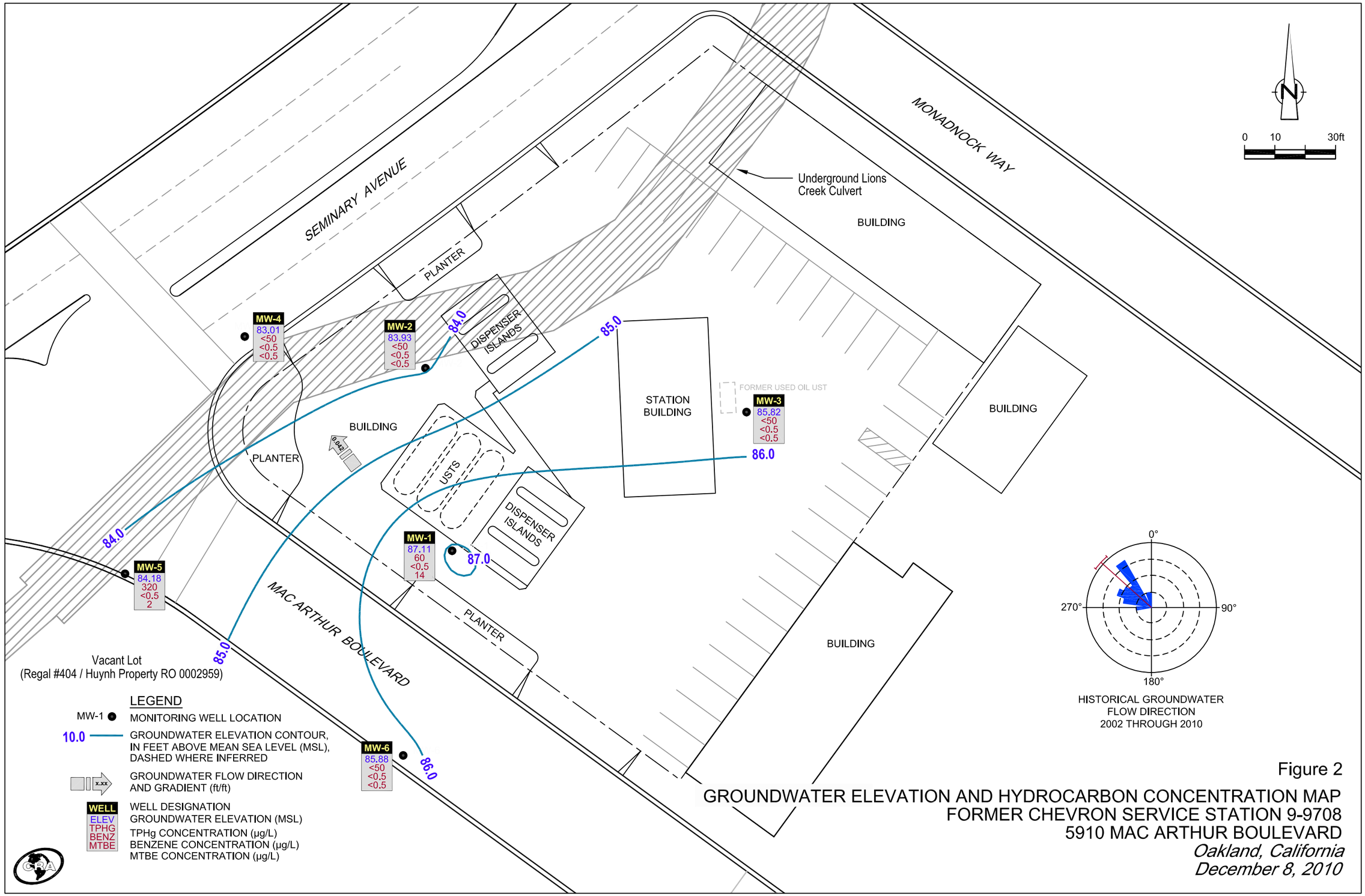


Figure 2

GROUNDWATER ELEVATION AND HYDROCARBON CONCENTRATION MAP
FORMER CHEVRON SERVICE STATION 9-9708
5910 MAC ARTHUR BOULEVARD
*Oakland, California*
*December 8, 2010*

311972-2010(006)GN-EM002 JAN 10/2011

TABLE

**TABLE 1**

**GROUNDWATER MONITORING AND SAMPLING DATA**
**FORMER CHEVRON SERVICE STATION 9-9708**
**5910 MACARTHUR BOULEVARD**
**OAKLAND, CALIFORNIA**

| | | | | | *HYDROCARBONS* | | | *PRIMARY VOCS* | | | | | | *METALS* | | | | | *PESTICIDES/PCBs* | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Location | Date | *TOC* | *DTW* | *GWE* | *TPH-MO* | *TPH-DRO w/ Si Gel* | *TPH-GRO* | *B* | *T* | *E* | *X* | *MTBE by SW8260* | *Ethanol* | *Cadmium (Dissolved)* | *Chromium Total (Dissolved)* | *Lead (Dissolved)* | *Nickel (Dissolved)* | *Zinc (Dissolved)* | *Aroclor-1016 (PCB-1016)* | *Aroclor-1221 (PCB-1221)* | *Aroclor-1232 (PCB-1232)* | *Aroclor-1242 (PCB-1242)* | *Aroclor-1248 (PCB-1248)* | *Aroclor-1254 (PCB-1254)* | *Aroclor-1260 (PCB-1260)* | *Aroclor-1262 (PCB-1262)* | *Aroclor-1268 (PCB-1268)* |
| | Units | *ft* | *ft* | *ft-amsl* | *µg/L* | *µg/L* | *µg/L* | *µg/L* | *µg/L* | *µg/L* | *µg/L* | *µg/L* | *µg/L* | *µg/L* | *µg/L* | *µg/L* | *µg/L* | *µg/L* | *µg/L* | *µg/L* | *µg/L* | *µg/L* | *µg/L* | *µg/L* | *µg/L* | *µg/L* | *µg/L* | *µg/L* |
| **MW-1** | **12/08/2010** | **97.52** | **10.41** | **87.11** | **<39** | **-** | **60** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **14** | **<50** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **MW-2** | **12/08/2010** | **97.81** | **13.88** | **83.93** | **190** | **-** | **<50** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<50** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **MW-3** | **12/08/2010** | **98.78** | **12.96** | **85.82** | **4,000** | **7,300** | **<50** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<50** | **<2.0** | **<3.4** | **<6.9** | **6.0** | **<8.1** | **<0.10** | **<0.10** | **<0.20** | **<0.10** | **<0.10** | **<0.10** | **<0.10** | **<0.20** | **<0.16** |
| **MW-4** | **12/08/2010** | **97.14** | **14.13** | **83.01** | **190** | **-** | **<50** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<50** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **MW-5** | **12/08/2010** | **95.71** | **11.53** | **84.18** | **14,000** | **-** | **320** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **2** | **<50** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **MW-6** | **12/08/2010** | **95.84** | **9.96** | **85.88** | **520** | **-** | **<50** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<50** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **QA** | **12/08/2010** | **-** | **-** | **-** | **-** | **-** | **<50** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |

**Abbreviations and Notes:**

TOC = Top of Casing

DTW = Depth to Water

GWE = Groundwater elevation

(ft-amsl) = Feet Above Mean sea level

**TABLE 1**

**GROUNDWATER MONITORING AND SAMPLING DATA**
**FORMER CHEVRON SERVICE STATION 9-9708**
**5910 MACARTHUR BOULEVARD**
**OAKLAND, CALIFORNIA**

ft = Feet

µg/L = Micrograms per Liter

TPH-MO = Total Petroleum Hydrocarbons - Motor Oil

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

VOCS = Volatile Organic Compounds

PCB = Polychlorinated Biphenyls

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylene

MTBE = Methyl tert butyl ether

-- = Not available / not applicable

<x = Not detected above laboratory method detection limit

* TOC elevations were surveyed on December 27, 2000, by Virgil Chavez Land Surveying. THe benchmark used for the survey was the City of Oakland benchmark being a cut square in the top of curb, at the curb return at the northeast corner of College Avenue and

ATTACHMENT A

MONITORING DATA PACKAGE

# GETTLER-RYAN INC.

## *TRANSMITTAL*

December 14, 2010
G-R #386395

TO: Ms. Kiersten Hoey
Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608

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

**RE: Chevron Service Station**
**#9-9708**
**5910 MacArthur Boulevard**
**Oakland, California**
**RO 0000124**

WE HAVE ENCLOSED THE FOLLOWING:

| COPIES | DESCRIPTION |
|---|---|
| VIA PDF | Groundwater Monitoring and Sampling Data Package<br>**Second Semi-Annual Event of December 8, 2010** |

COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced data for your use.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

trans/9-9708

# WELL CONDITION STATUS SHEET

Client/Facility #: **Chevron #9-9708**
Site Address: **5910 Macarthur Blvd.**
City: **Oakland, CA**

Job # **386395**
Event Date: 12-8-10
Sampler: Joe

| 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 | O.K | O.K | O.K | O.K | O.K | O.K | O.K | N | N | 8" Boart/L./3 | No |
| MW-2 | ↓ | ↓ | ↓ | 3-S | ↓ | ↓ | O.K | ↓ | ↓ | " | ↓ |
| MW-3 | ↓ | ↓ | ↓ | 3-S | ↓ | ↓ | TOC extends too far | ↓ | ↓ | " | ↓ |
| MW-4 | ↓ | ↓ | ↓ | O.K | ↓ | ↓ | O.K | ↓ | ↓ | 6" morrison/2 | ↓ |
| MW-5 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | 8" morrison/2 | ↓ |
| MW-6 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | " | ↓ |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |

**Comments** MW-3 - Can no longer secure casing with plug + padlock.
Installed gaskets: MW-1 & MW-2.
MW-5 box below grade.

# 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 #9-9708 | Job Number: 386395
Site Address: 5910 Macarthur Blvd. | Event Date: 12-8-10 (inclusive)
City: Oakland, CA | Sampler: Joe

Well ID: MW-1 | Date Monitored: 12-8-10
Well Diameter: 2 in.
Total Depth: 20.26 ft.
Depth to Water: 10.41 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.

9.85 xVF 0.17 = 1.67 x3 case volume = Estimated Purge Volume: 5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.38

**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): 0930 | Weather Conditions: cloudy/rain
Sample Time/Date: 1050 / 12-8-10 | Water Color: clear | Odor: (Y) / N light
Approx. Flow Rate: — gpm. | Sediment Description: none
Did well de-water? no If yes, Time: — Volume: — gal. DTW @ Sampling: 10.79

| Time (2400 hr.) | Volume (gal.) | pH | Conductivity (µmhos/cm - (µS)) | Temperature (C / F) | D.O. (mg/L) | ORP (mV) |
|---|---|---|---|---|---|---|
| 0936 | 1.5 | 7.25 | 815 | 17.2 | | |
| 0943 | 3.5 | 7.31 | 819 | 17.6 | | |
| 0950 | 5 | 7.34 | 817 | 17.5 | | |
| | | | | | | |

### 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)/ ETHANOL (8260) |
| | x 500ml ambers | YES | NP | LANCASTER | TPH-DRO w/sgc (8015) |
| | 2 x 1 liter ambers | YES | NP | LANCASTER | TPH-MO (8015) |
| | x 500ml poly | YES | HNO3 | LANCASTER | DISSOLVED METALS |
| | x 1 liter ambers | YES | NP | LANCASTER | PCB's |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS: Installed 8" gasket.

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #9-9708 | Job Number: 386395
Site Address: 5910 Macarthur Blvd. | Event Date: 12-8-10 (inclusive)
City: Oakland, CA | Sampler: Joe

Well ID: MW-2 | Date Monitored: 12-8-10
Well Diameter: 2 in.
Total Depth: 20.25 ft.
Depth to Water: 13.88 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 |

6.37 xVF 0.17 = 1.08 x3 case volume = Estimated Purge Volume: 3.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.15

**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): 1010 | Weather Conditions: Showers
Sample Time/Date: 1038 12-8-10 | Water Color: clear | Odor: Y / (N)
Approx. Flow Rate: ~ gpm. | Sediment Description: none
Did well de-water? no | If yes, Time: — | Volume: — gal. | DTW @ Sampling: 14.32

| Time (2400 hr.) | Volume (gal.) | pH | Conductivity (µmhos/cm - µS) | Temperature ( C / F ) | D.O. (mg/L) | ORP (mV) |
|---|---|---|---|---|---|---|
| 1017 | 1 | 6.91 | 841 | 17.2 | | |
| 1021 | 2 | 7.32 | 846 | 17.8 | | |
| 1028 | 3.5 | 7.37 | 842 | 17.3 | | |
| | | | | | | |

### 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)/ ETHANOL (8260) |
| | x 500ml ambers | YES | NP | LANCASTER | TPH-DRO w/sgc (8015) |
| | 2 x 1 liter ambers | YES | NP | LANCASTER | TPH-MO (8015) |
| | x 500ml poly | YES | HNO3 | LANCASTER | DISSOLVED METALS |
| | x 1 liter ambers | YES | NP | LANCASTER | PCB's |
| | | | | | |
| | | | | | |
| | | | | | |

**COMMENTS:** Installed 8" gasket.

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Chevron #9-9708** Job Number: **386395**

Site Address: **5910 Macarthur Blvd.** Event Date: 12-8-10 (inclusive)

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

Well ID: MW-3 Date Monitored: 12-8-10

Well Diameter: 2 in.

Total Depth: 20.16 ft.

Depth to Water: 12.96 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 |

7.20 xVF 0.17 = 1.22 x3 case volume = Estimated Purge Volume: 4 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 14.40

**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: metal filter | |

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): 1100 Weather Conditions: Rain

Sample Time/Date: 1135 / 12-8-10 Water Color: clear Odor: Y / N strong

Approx. Flow Rate: — gpm. Sediment Description: none

Did well de-water? no If yes, Time: — Volume: — gal. DTW @ Sampling: 13.28

| Time (2400 hr.) | Volume (gal.) | pH | Conductivity (µmhos/cm - µS) | Temperature ( C / F ) | D.O. (mg/L) | ORP (mV) |
|---|---|---|---|---|---|---|
| 1107 | 1.5 | 6.77 | 592 | 17.8 | | |
| 1112 | 3 | 6.80 | 583 | 17.5 | | |
| 1120 | 4 | 6.75 | 588 | 17.6 | | |
| | | | | | | |

### 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)/ ETHANOL (8260) |
| | 2 x 500ml ambers | YES | NP | LANCASTER | TPH-DRO w/sgc (8015) |
| | 2 x 1 liter ambers | YES | NP | LANCASTER | TPH-MO (8015) |
| | 1 x 500ml poly | YES | HNO3 | LANCASTER | DISSOLVED METALS |
| | 2 x 1 liter ambers | YES | NP | LANCASTER | PCB's |
| | | | | | |
| | | | | | |
| | | | | | |

**COMMENTS:**

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Chevron #9-9708** Job Number: **386395**

Site Address: **5910 Macarthur Blvd.** Event Date: 12-8-10 (inclusive)

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

Well ID **MW-4** Date Monitored: 12-8-10

Well Diameter 2 in.

Total Depth 19.67 ft.

Depth to Water 14.13 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 |

5.54 xVF 0.17 = 0.94 x3 case volume = Estimated Purge Volume: 3 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.23

**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): 0800 Weather Conditions: cloudy/rain

Sample Time/Date: 0835 / 12-8-10 Water Color: Light grey Odor: Y / N

Approx. Flow Rate: — gpm. Sediment Description: none

Did well de-water? no If yes, Time: — Volume: — gal. DTW @ Sampling: 14.55

| Time (2400 hr.) | Volume (gal.) | pH | Conductivity (µmhos/cm - µS) | Temperature ( C / F ) | D.O. (mg/L) | ORP (mV) |
|---|---|---|---|---|---|---|
| 0805 | 1 | 6.75 | 858 | 18.0 | | |
| 0810 | 2 | 6.84 | 852 | 17.6 | | |
| 0818 | 3 | 6.86 | 846 | 17.3 | | |
| | | | | | | |

### LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW-4 | 6 x voa vial | YES | HCL | LANCASTER | TPH-GRO(8015)/BTEX+MTBE(8260)/ ETHANOL (8260) |
| | x 500ml ambers | YES | NP | LANCASTER | TPH-DRO w/sgc (8015) |
| | 2 x 1 liter ambers | YES | NP | LANCASTER | TPH-MO (8015) |
| | x 500ml poly | YES | HNO3 | LANCASTER | DISSOLVED METALS |
| | x 1 liter ambers | YES | NP | LANCASTER | PCB's |
| | | | | | |
| | | | | | |
| | | | | | |

**COMMENTS:**

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING
## FIELD DATA SHEET

Client/Facility#: **Chevron #9-9708** Job Number: **386395**
Site Address: **5910 Macarthur Blvd.** Event Date: 12-8-10 (inclusive)
City: **Oakland, CA** Sampler: Joe

Well ID **MW-5** Date Monitored: 12-8-10
Well Diameter 2 in.
Total Depth 18.74 ft.
Depth to Water 11.53 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 |

7.21 xVF 0.17 = 1.23 x3 case volume = Estimated Purge Volume: 4 gal.
Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.97

**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): 0850 Weather Conditions: Rain
Sample Time/Date: 0915 / 12-8-10 Water Color: clear Odor: (Y) / N moderate
Approx. Flow Rate: ~ gpm. Sediment Description: none
Did well de-water? no If yes, Time: ~ Volume: ~ gal. DTW @ Sampling: 11.95

| Time (2400 hr.) | Volume (gal.) | pH | Conductivity (µmhos/cm - µS) | Temperature ( C / F ) | D.O. (mg/L) | ORP (mV) |
|---|---|---|---|---|---|---|
| 0857 | 1 | 6.97 | 552 | 18.1 | | |
| 0902 | 2.5 | 6.85 | 566 | 18.0 | | |
| 0907 | 4 | 6.81 | 561 | 17.6 | | |
| | | | | | | |

### LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW-5 | 6 x voa vial | YES | HCL | LANCASTER | TPH-GRO(8015)/BTEX+MTBE(8260)/ ETHANOL (8260) |
| | x 500ml ambers | YES | NP | LANCASTER | TPH-DRO w/sgc (8015) |
| | 2 x 1 liter ambers | YES | NP | LANCASTER | TPH-MO (8015) |
| | x 500ml poly | YES | HNO3 | LANCASTER | DISSOLVED METALS |
| | x 1 liter ambers | YES | NP | LANCASTER | PCB's |
| | | | | | |
| | | | | | |
| | | | | | |

**COMMENTS:**

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Chevron #9-9708** Job Number: **386395**
Site Address: **5910 Macarthur Blvd.** Event Date: 12-8-10 (inclusive)
City: **Oakland, CA** Sampler: Joe

Well ID **MW-6** Date Monitored: 12-8-10
Well Diameter **2** in.
Total Depth 18.85 ft.
Depth to Water 9.96 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 |

8.89 xVF 0.17 = 1.51 x3 case volume = Estimated Purge Volume: 4.5 gal.

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

**Purge Equipment:**
Disposable Bailer ✓
Stainless Steel Bailer
Stack Pump
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): 0708 Weather Conditions: cloudy
Sample Time/Date: 0748 / 12-8-10 Water Color: clear Odor: Y / N
Approx. Flow Rate: ~ gpm. Sediment Description: none
Did well de-water? no If yes, Time: — Volume: ~ gal. DTW @ Sampling: 10.38

| Time (2400 hr.) | Volume (gal.) | pH | Conductivity (µmhos/cm - US) | Temperature (C / F) | D.O. (mg/L) | ORP (mV) |
|---|---|---|---|---|---|---|
| 0714 | 1.5 | 7.21 | 796 | 18.0 | | |
| 0720 | 3 | 7.27 | 804 | 17.4 | | |
| 0727 | 4.5 | 7.23 | 795 | 17.7 | | |
| | | | | | | |

### LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW-6 | 6 x voa vial | YES | HCL | LANCASTER | TPH-GRO(8015)/BTEX+MTBE(8260)/ ETHANOL (8260) |
| | x 500ml ambers | YES | NP | LANCASTER | TPH-DRO w/sgc (8015) |
| | 2 x 1 liter ambers | YES | NP | LANCASTER | TPH-MO (8015) |
| | x 500ml poly | YES | HNO3 | LANCASTER | DISSOLVED METALS |
| | x 1 liter ambers | YES | NP | LANCASTER | PCB's |
| | | | | | |
| | | | | | |
| | | | | | |

**COMMENTS:**

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

# Chevron California Region Analysis Request/Chain of Custody

**Lancaster Laboratories**

120810 -02 2of2

For Lancaster Laboratories use only

Acct. #: _____ Sample # _____ Group #: 020213

Facility #: SS#9-9708-OML G-R#386395 Global ID#T0600102093

Site Address: 5910 MACARTHUR BLVD., OAKLAND, CA

Chevron PM: EF Lead Consultant: CRAHK Hoey

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

**Analyses Requested**

**Preservation Codes**

**Preservative Codes**
H = HCl T = Thiosulfate
N = $HNO_3$ B = NaOH
S = $H_2SO_4$ O = Other

- ☐ J value reporting needed
- ☒ Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation
- ☐ Confirm highest hit by 8260
- ☐ Confirm all hits by 8260
- ☐ Run ____ oxy's on highest hit
- ☐ Run ____ oxy's on all hits

| Sample Identification | Date Collected | Time Collected | Grab | Composite | Matrix: Soil | Water (☐ Potable ☐ NPDES) | Oil ☐ Air | Total Number of Containers | BTEX + MTBE 8260 ☒ 8021 ☐ | TPH 8015 MOD GRO | TPH 8015 MOD DRO ☒ Silica Gel Cleanup | 8260 full scan | Oxygenates ____ Method | Total Lead ____ Method | Dissolved Lead ____ Method | Ethanol (8260) | TPH-MO (8015) | PAHs | Dissolved Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QA | — | — | ✓ | | | ✓ | | 2 | ✓ | ✓ | | | | | | | | | |
| MW-1 | 12-8-10 | 1000 | ↓ | | | ↓ | | 8 | ✓ | ✓ | | | | | | ✓ | ✓ | | |
| MW-2 | ↓ | 1038 | | | | | | 8 | ✓ | ✓ | | | | | | ✓ | ✓ | | |
| MW-3 | | 1135 | | | | | | 13 | ✓ | ✓ | ✓ | | | | | ✓ | ✓ | ✓ | ✓ |
| MW-4 | | 0835 | | | | | | 8 | ✓ | ✓ | | | | | | ✓ | ✓ | | |
| MW-5 | | 0915 | | | | | | 8 | ✓ | ✓ | | | | | | ✓ | ✓ | | |
| MW-6 | ↓ | 0748 | ↓ | | | ↓ | | 8 | ✓ | ✓ | | | | | | ✓ | ✓ | | |

**Comments / Remarks**

Please forward the lab results directly to the Lead Consultant and cc: G-R. Dissolved Metals include: Cadmium, Chromium, Nickel, Lead & Zinc

Dissolved metals filtered.

**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 EDF/EDD
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: | 12-8-10 | 1300 | Received by: | 12/8/10 | 1300 |
| Relinquished by: | | | Received by: | | |
| Relinquished by: | | | Received by: | | |
| Relinquished by Commercial Carrier: UPS FedEx Other | | | Received by: | | |
| Temperature Upon Receipt ____ C° | | | Custody Seals Intact? Yes No | | |

ATTACHMENT B

LABORATORY ANALYTICAL REPORT

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 by:

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

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

December 22, 2010

Project: 99708

Submittal Date: 12/09/2010
Group Number: 1224605
PO Number: 0015060774
Release Number: FROHNAPPLE
State of Sample Origin: CA

| Client Sample Description | Lancaster Labs (LLI) # |
|---|---|
| QA-T-101208 NA Water | 6159789 |
| MW-1-W-101208 Grab Water | 6159790 |
| MW-2-W-101208 Grab Water | 6159791 |
| MW-3-W-101208 Grab Water | 6159792 |
| MW-3-W-101208 Filtered Grab Water | 6159793 |
| MW-4-W-101208 Grab Water | 6159794 |
| MW-5-W-101208 Grab Water | 6159795 |
| MW-6-W-101208 Grab Water | 6159796 |

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

| | | |
|---|---|---|
| ELECTRONIC COPY TO | CRA c/o Gettler-Ryan | Attn: Rachelle Munoz |
| ELECTRONIC COPY TO | Chevron c/o CRA | Attn: Report Contact |
| ELECTRONIC COPY TO | Chevron | Attn: Anna Avina |
| ELECTRONIC COPY TO | CRA | Attn: Kiersten Hoey |

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

Questions? Contact your Client Services Representative
Jill M Parker at (717) 656-2300 Ext. 1241

Respectfully Submitted,

Martha L. Seidel
Senior Chemist

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



**Sample Description:** **QA-T-101208 NA Water**
**Facility# 99708 Job# 386395 GRD**
**5910 Macarthur-Oakland T0600102093 QA**

**LLI Sample # WW 6159789**
**LLI Group # 1224605**
**Account # 10904**

**Project Name: 99708**

Collected: 12/08/2010

Submitted: 12/09/2010 09:00
Reported: 12/22/2010 09:28

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

9708Q

| 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** | |
| 10943 | Benzene | 71-43-2 | N.D. | 0.5 | 1 |
| 10943 | Ethylbenzene | 100-41-4 | N.D. | 0.5 | 1 |
| 10943 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | 1 |
| 10943 | Toluene | 108-88-3 | N.D. | 0.5 | 1 |
| 10943 | Xylene (Total) | 1330-20-7 | N.D. | 0.5 | 1 |
| **GC Volatiles** | **SW-846 8015B** | | **ug/l** | **ug/l** | |
| 01728 | TPH-GRO N. CA water C6-C12 | n.a. | N.D. | 50 | 1 |

## General Sample Comments

State of California Lab Certification No. 2501

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 |
|---|---|---|---|---|---|---|---|
| 10943 | BTEX/MTBE 8260 Water | SW-846 8260B | 1 | P103501AA | 12/16/2010 11:33 | Sara E Johnson | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | P103501AA | 12/16/2010 11:33 | Sara E Johnson | 1 |
| 01728 | TPH-GRO N. CA water C6-C12 | SW-846 8015B | 1 | 10346A94A | 12/12/2010 21:09 | Katrina T Longenecker | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 10346A94A | 12/12/2010 21:09 | Katrina T Longenecker | 1 |

Lancaster Laboratories

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# Analysis Report



**Sample Description:** MW-1-W-101208 Grab Water
Facility# 99708 Job# 386395 GRD
5910 Macarthur-Oakland T0600102093 MW-1

**LLI Sample # WW 6159790**
**LLI Group # 1224605**
**Account # 10904**

**Project Name: 99708**

Collected: 12/08/2010 10:00 by JA

Submitted: 12/09/2010 09:00
Reported: 12/22/2010 09:28

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

97081

| 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** | |
| 10943 | Benzene | 71-43-2 | N.D. | 0.5 | 1 |
| 10943 | Ethanol | 64-17-5 | N.D. | 50 | 1 |
| 10943 | Ethylbenzene | 100-41-4 | N.D. | 0.5 | 1 |
| 10943 | Methyl Tertiary Butyl Ether | 1634-04-4 | 14 | 0.5 | 1 |
| 10943 | Toluene | 108-88-3 | N.D. | 0.5 | 1 |
| 10943 | Xylene (Total) | 1330-20-7 | N.D. | 0.5 | 1 |
| **GC Volatiles** | **SW-846 8015B** | | **ug/l** | **ug/l** | |
| 01728 | TPH-GRO N. CA water C6-C12 | n.a. | 60 | 50 | 1 |
| **GC Extractable TPH** | **SW-846 8015B modified** | | **ug/l** | **ug/l** | |
| 02500 | Total TPH | n.a. | N.D. | 39 | 1 |
| 02500 | TPH Motor Oil C16-C36 | n.a. | N.D. | 39 | 1 |

TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons.

## General Sample Comments

State of California Lab Certification No. 2501

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 |
|---|---|---|---|---|---|---|---|
| 10943 | UST VOCs by 8260B - Water | SW-846 8260B | 1 | F103512AA | 12/17/2010 08:51 | Anita M Dale | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | F103512AA | 12/17/2010 08:51 | Anita M Dale | 1 |
| 01728 | TPH-GRO N. CA water C6-C12 | SW-846 8015B | 1 | 10346A94A | 12/12/2010 23:23 | Katrina T Longenecker | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 10346A94A | 12/12/2010 23:23 | Katrina T Longenecker | 1 |
| 02500 | TPH Fuels by GC (Waters) | SW-846 8015B modified | 1 | 103440009A | 12/19/2010 01:46 | Heather E Williams | 1 |
| 11191 | TPH Fuels Waters Extraction | SW-846 3510C | 1 | 103440009A | 12/10/2010 13:15 | Kathryn I DeHaven | 1 |

Lancaster Laboratories

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

# Analysis Report



**Sample Description:** MW-2-W-101208 Grab Water
Facility# 99708 Job# 386395 GRD
5910 Macarthur-Oakland T0600102093 MW-2

**LLI Sample # WW 6159791**
**LLI Group # 1224605**
**Account # 10904**

**Project Name: 99708**

Collected: 12/08/2010 10:38 by JA

Submitted: 12/09/2010 09:00
Reported: 12/22/2010 09:28

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

97082

| 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** | |
| 10943 | Benzene | 71-43-2 | N.D. | 0.5 | 1 |
| 10943 | Ethanol | 64-17-5 | N.D. | 50 | 1 |
| 10943 | Ethylbenzene | 100-41-4 | N.D. | 0.5 | 1 |
| 10943 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | 1 |
| 10943 | Toluene | 108-88-3 | N.D. | 0.5 | 1 |
| 10943 | Xylene (Total) | 1330-20-7 | N.D. | 0.5 | 1 |
| **GC Volatiles** | **SW-846 8015B** | | **ug/l** | **ug/l** | |
| 01728 | TPH-GRO N. CA water C6-C12 | n.a. | N.D. | 50 | 1 |
| **GC Extractable TPH** | **SW-846 8015B modified** | | **ug/l** | **ug/l** | |
| 02500 | Total TPH | n.a. | 190 | 39 | 1 |
| 02500 | TPH Motor Oil C16-C36 | n.a. | 190 | 39 | 1 |

TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons.

## General Sample Comments

State of California Lab Certification No. 2501

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 |
|---|---|---|---|---|---|---|---|
| 10943 | UST VOCs by 8260B - Water | SW-846 8260B | 1 | F103512AA | 12/17/2010 07:25 | Anita M Dale | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | F103512AA | 12/17/2010 07:25 | Anita M Dale | 1 |
| 01728 | TPH-GRO N. CA water C6-C12 | SW-846 8015B | 1 | 10346A94A | 12/12/2010 22:03 | Katrina T Longenecker | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 10346A94A | 12/12/2010 22:03 | Katrina T Longenecker | 1 |
| 02500 | TPH Fuels by GC (Waters) | SW-846 8015B modified | 1 | 103440009A | 12/19/2010 02:11 | Heather E Williams | 1 |
| 11191 | TPH Fuels Waters Extraction | SW-846 3510C | 1 | 103440009A | 12/10/2010 13:15 | Kathryn I DeHaven | 1 |

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# Analysis Report



**Sample Description:** MW-3-W-101208 Grab Water
Facility# 99708 Job# 386395 GRD
5910 Macarthur-Oakland T0600102093 MW-3

**LLI Sample # WW 6159792**
**LLI Group # 1224605**
**Account # 10904**

**Project Name: 99708**

Collected: 12/08/2010 11:35 by JA

Submitted: 12/09/2010 09:00
Reported: 12/22/2010 09:28

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

97083

| 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** | |
| 10943 | Benzene | 71-43-2 | N.D. | 0.5 | 1 |
| 10943 | Ethanol | 64-17-5 | N.D. | 50 | 1 |
| 10943 | Ethylbenzene | 100-41-4 | N.D. | 0.5 | 1 |
| 10943 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | 1 |
| 10943 | Toluene | 108-88-3 | N.D. | 0.5 | 1 |
| 10943 | Xylene (Total) | 1330-20-7 | N.D. | 0.5 | 1 |
| **GC Volatiles** | **SW-846 8015B** | | **ug/l** | **ug/l** | |
| 01728 | TPH-GRO N. CA water C6-C12 | n.a. | N.D. | 50 | 1 |
| **Pesticides/PCBs** | **SW-846 8082** | | **ug/l** | **ug/l** | |
| 10227 | PCB-1016 | 12674-11-2 | N.D. | 0.10 | 1 |
| 10227 | PCB-1221 | 11104-28-2 | N.D. | 0.10 | 1 |
| 10227 | PCB-1232 | 11141-16-5 | N.D. | 0.20 | 1 |
| 10227 | PCB-1242 | 53469-21-9 | N.D. | 0.10 | 1 |
| 10227 | PCB-1248 | 12672-29-6 | N.D. | 0.10 | 1 |
| 10227 | PCB-1254 | 11097-69-1 | N.D. | 0.10 | 1 |
| 10227 | PCB-1260 | 11096-82-5 | N.D. | 0.10 | 1 |
| 10227 | PCB-1262 | 37324-23-5 | N.D. | 0.20 | 1 |
| 10227 | PCB-1268 | 11100-14-4 | N.D. | 0.16 | 1 |
| **GC Extractable TPH** | **SW-846 8015B modified** | | **ug/l** | **ug/l** | |
| 02500 | Total TPH | n.a. | 4,000 | 210 | 5 |
| 02500 | TPH Motor Oil C16-C36 | n.a. | 4,000 | 210 | 5 |
| | TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons. | | | | |
| **GC Extractable TPH w/Si Gel** | **SW-846 8015B** | | **ug/l** | **ug/l** | |
| 06610 | TPH-DRO CA C10-C28 w/ Si Gel | n.a. | 7,300 | 170 | 5 |

## General Sample Comments

State of California Lab Certification No. 2501

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 |
|---|---|---|---|---|---|---|---|
| 10943 | UST VOCs by 8260B - Water | SW-846 8260B | 1 | F103512AA | 12/17/2010 07:46 | Anita M Dale | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | F103512AA | 12/17/2010 07:46 | Anita M Dale | 1 |

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# Analysis Report



**Sample Description:** **MW-3-W-101208 Grab Water**
**Facility# 99708 Job# 386395 GRD**
**5910 Macarthur-Oakland T0600102093 MW-3**

**LLI Sample # WW 6159792**
**LLI Group # 1224605**
**Account # 10904**

**Project Name: 99708**

Collected: 12/08/2010 11:35 by JA

Submitted: 12/09/2010 09:00
Reported: 12/22/2010 09:28

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

97083

## Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|---|
| 01728 | TPH-GRO N. CA water C6-C12 | SW-846 8015B | 1 | 10346A94A | 12/12/2010 23:49 | Katrina T Longenecker | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 10346A94A | 12/12/2010 23:49 | Katrina T Longenecker | 1 |
| 10227 | PCBs in Water 8082 | SW-846 8082 | 1 | 103470014A | 12/14/2010 17:18 | Lindsey K Lafferty | 1 |
| 11117 | PCB Waters Extraction | SW-846 3510C | 1 | 103470014A | 12/14/2010 03:15 | Sherry L Morrow | 1 |
| 02500 | TPH Fuels by GC (Waters) | SW-846 8015B modified | 1 | 103440009A | 12/20/2010 23:41 | Heather E Williams | 5 |
| 06610 | TPH-DRO CA C10-C28 w/ Si Gel | SW-846 8015B | 1 | 103450013A | 12/14/2010 01:01 | Melissa McDermott | 5 |
| 11180 | Low Vol Ext(W) w/SG | SW-846 3510C | 1 | 103450013A | 12/13/2010 05:20 | Roman Kuropatkin | 1 |
| 11191 | TPH Fuels Waters Extraction | SW-846 3510C | 1 | 103440009A | 12/10/2010 13:15 | Kathryn I DeHaven | 1 |

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# Analysis Report



**Sample Description:** MW-3-W-101208 Filtered Grab Water
Facility# 99708 Job# 386395 GRD
5910 Macarthur-Oakland T0600102093 MW-3

**LLI Sample # WW 6159793**
**LLI Group # 1224605**
**Account # 10904**

**Project Name: 99708**

Collected: 12/08/2010 11:35 by JA

Submitted: 12/09/2010 09:00
Reported: 12/22/2010 09:28

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Dilution Factor |
|---|---|---|---|---|---|
| **Metals Dissolved** | **SW-846 6010B** | | **ug/l** | **ug/l** | |
| 07049 | Cadmium | 7440-43-9 | N.D. | 2.0 | 1 |
| 07051 | Chromium | 7440-47-3 | N.D. | 3.4 | 1 |
| 07055 | Lead | 7439-92-1 | N.D. | 6.9 | 1 |
| 07061 | Nickel | 7440-02-0 | 6.0 | 3.0 | 1 |
| 07072 | Zinc | 7440-66-6 | N.D. | 8.1 | 1 |

## General Sample Comments

State of California Lab Certification No. 2501
This sample was field filtered for dissolved metals.

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 |
|---|---|---|---|---|---|---|---|
| 07049 | Cadmium | SW-846 6010B | 1 | 103441848003 | 12/14/2010 02:39 | Tara L Snyder | 1 |
| 07051 | Chromium | SW-846 6010B | 1 | 103441848003 | 12/14/2010 02:39 | Tara L Snyder | 1 |
| 07055 | Lead | SW-846 6010B | 1 | 103441848003 | 12/14/2010 02:39 | Tara L Snyder | 1 |
| 07061 | Nickel | SW-846 6010B | 1 | 103441848003 | 12/14/2010 02:39 | Tara L Snyder | 1 |
| 07072 | Zinc | SW-846 6010B | 1 | 103441848003 | 12/14/2010 02:39 | Tara L Snyder | 1 |
| 01848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 103441848003 | 12/13/2010 10:08 | Denise K Conners | 1 |

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# Analysis Report



**Sample Description:** MW-4-W-101208 Grab Water
Facility# 99708 Job# 386395 GRD
5910 Macarthur-Oakland T0600102093 MW-4

**LLI Sample # WW 6159794**
**LLI Group # 1224605**
**Account # 10904**

**Project Name: 99708**

Collected: 12/08/2010 08:35 by JA

Submitted: 12/09/2010 09:00
Reported: 12/22/2010 09:28

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

97084

| 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** | |
| 10943 | Benzene | 71-43-2 | N.D. | 0.5 | 1 |
| 10943 | Ethanol | 64-17-5 | N.D. | 50 | 1 |
| 10943 | Ethylbenzene | 100-41-4 | N.D. | 0.5 | 1 |
| 10943 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | 1 |
| 10943 | Toluene | 108-88-3 | N.D. | 0.5 | 1 |
| 10943 | Xylene (Total) | 1330-20-7 | N.D. | 0.5 | 1 |
| **GC Volatiles** | **SW-846 8015B** | | **ug/l** | **ug/l** | |
| 01728 | TPH-GRO N. CA water C6-C12 | n.a. | N.D. | 50 | 1 |
| **GC Extractable TPH** | **SW-846 8015B modified** | | **ug/l** | **ug/l** | |
| 02500 | Total TPH | n.a. | 190 | 39 | 1 |
| 02500 | TPH Motor Oil C16-C36 | n.a. | 190 | 39 | 1 |

TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons.

## General Sample Comments

State of California Lab Certification No. 2501

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 |
|---|---|---|---|---|---|---|---|
| 10943 | UST VOCs by 8260B - Water | SW-846 8260B | 1 | F103512AA | 12/17/2010 09:13 | Anita M Dale | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | F103512AA | 12/17/2010 09:13 | Anita M Dale | 1 |
| 01728 | TPH-GRO N. CA water C6-C12 | SW-846 8015B | 1 | 10346A94A | 12/13/2010 00:16 | Katrina T Longenecker | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 10346A94A | 12/13/2010 00:16 | Katrina T Longenecker | 1 |
| 02500 | TPH Fuels by GC (Waters) | SW-846 8015B modified | 1 | 103440009A | 12/19/2010 02:36 | Heather E Williams | 1 |
| 11191 | TPH Fuels Waters Extraction | SW-846 3510C | 1 | 103440009A | 12/10/2010 13:15 | Kathryn I DeHaven | 1 |

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# Analysis Report



**Sample Description:** MW-5-W-101208 Grab Water
Facility# 99708 Job# 386395 GRD
5910 Macarthur-Oakland T0600102093 MW-5

**LLI Sample #** WW 6159795
**LLI Group #** 1224605
**Account #** 10904

**Project Name: 99708**

Collected: 12/08/2010 09:15 by JA

Submitted: 12/09/2010 09:00
Reported: 12/22/2010 09:28

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

97085

| 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** | |
| 10943 | Benzene | 71-43-2 | N.D. | 0.5 | 1 |
| 10943 | Ethanol | 64-17-5 | N.D. | 50 | 1 |
| 10943 | Ethylbenzene | 100-41-4 | N.D. | 0.5 | 1 |
| 10943 | Methyl Tertiary Butyl Ether | 1634-04-4 | 2 | 0.5 | 1 |
| 10943 | Toluene | 108-88-3 | N.D. | 0.5 | 1 |
| 10943 | Xylene (Total) | 1330-20-7 | N.D. | 0.5 | 1 |
| **GC Volatiles** | **SW-846 8015B** | | **ug/l** | **ug/l** | |
| 01728 | TPH-GRO N. CA water C6-C12 | n.a. | 320 | 50 | 1 |
| **GC Extractable TPH** | **SW-846 8015B modified** | | **ug/l** | **ug/l** | |
| 02500 | Total TPH | n.a. | 14,000 | 390 | 10 |
| 02500 | TPH Motor Oil C16-C36 | n.a. | 14,000 | 390 | 10 |

TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons.

## General Sample Comments

State of California Lab Certification No. 2501

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 |
|---|---|---|---|---|---|---|---|
| 10943 | UST VOCs by 8260B - Water | SW-846 8260B | 1 | F103512AA | 12/17/2010 09:35 | Anita M Dale | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | F103512AA | 12/17/2010 09:35 | Anita M Dale | 1 |
| 01728 | TPH-GRO N. CA water C6-C12 | SW-846 8015B | 1 | 10346A94A | 12/13/2010 00:43 | Katrina T Longenecker | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 10346A94A | 12/13/2010 00:43 | Katrina T Longenecker | 1 |
| 02500 | TPH Fuels by GC (Waters) | SW-846 8015B modified | 1 | 103440009A | 12/21/2010 00:06 | Heather E Williams | 10 |
| 11191 | TPH Fuels Waters Extraction | SW-846 3510C | 1 | 103440009A | 12/10/2010 13:15 | Kathryn I DeHaven | 1 |

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# Analysis Report



**Sample Description:** MW-6-W-101208 Grab Water
Facility# 99708 Job# 386395 GRD
5910 Macarthur-Oakland T0600102093 MW-6

**LLI Sample # WW 6159796**
**LLI Group # 1224605**
**Account # 10904**

**Project Name: 99708**

Collected: 12/08/2010 07:48 by JA

Submitted: 12/09/2010 09:00
Reported: 12/22/2010 09:28

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

97086

| 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** | |
| 10943 | Benzene | 71-43-2 | N.D. | 0.5 | 1 |
| 10943 | Ethanol | 64-17-5 | N.D. | 50 | 1 |
| 10943 | Ethylbenzene | 100-41-4 | N.D. | 0.5 | 1 |
| 10943 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | 1 |
| 10943 | Toluene | 108-88-3 | N.D. | 0.5 | 1 |
| 10943 | Xylene (Total) | 1330-20-7 | N.D. | 0.5 | 1 |
| **GC Volatiles** | **SW-846 8015B** | | **ug/l** | **ug/l** | |
| 01728 | TPH-GRO N. CA water C6-C12 | n.a. | N.D. | 50 | 1 |
| **GC Extractable TPH** | **SW-846 8015B modified** | | **ug/l** | **ug/l** | |
| 02500 | Total TPH | n.a. | 520 | 39 | 1 |
| 02500 | TPH Motor Oil C16-C36 | n.a. | 520 | 39 | 1 |

TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons.

## General Sample Comments

State of California Lab Certification No. 2501

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 |
|---|---|---|---|---|---|---|---|
| 10943 | UST VOCs by 8260B - Water | SW-846 8260B | 1 | F103512AA | 12/17/2010 09:57 | Anita M Dale | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | F103512AA | 12/17/2010 09:57 | Anita M Dale | 1 |
| 01728 | TPH-GRO N. CA water C6-C12 | SW-846 8015B | 1 | 10346A94A | 12/13/2010 01:36 | Katrina T Longenecker | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 10346A94A | 12/13/2010 01:36 | Katrina T Longenecker | 1 |
| 02500 | TPH Fuels by GC (Waters) | SW-846 8015B modified | 1 | 103440009A | 12/19/2010 03:01 | Heather E Williams | 1 |
| 11191 | TPH Fuels Waters Extraction | SW-846 3510C | 1 | 103440009A | 12/10/2010 13:15 | Kathryn I DeHaven | 1 |

## Quality Control Summary

Client Name: Chevron Group Number: 1224605
Reported: 12/22/10 at 09:28 AM

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: F103512AA | Sample number(s): 6159790-6159792,6159794-6159796 | | | | | | | |
| Benzene | N.D. | 0.5 | ug/l | 104 | | 79-120 | | |
| Ethanol | N.D. | 50. | ug/l | 108 | | 54-149 | | |
| Ethylbenzene | N.D. | 0.5 | ug/l | 103 | | 79-120 | | |
| Methyl Tertiary Butyl Ether | N.D. | 0.5 | ug/l | 103 | | 76-120 | | |
| Toluene | N.D. | 0.5 | ug/l | 104 | | 79-120 | | |
| Xylene (Total) | N.D. | 0.5 | ug/l | 102 | | 80-120 | | |
| Batch number: P103501AA | Sample number(s): 6159789 | | | | | | | |
| Benzene | N.D. | 0.5 | ug/l | 98 | 98 | 79-120 | 1 | 30 |
| Ethylbenzene | N.D. | 0.5 | ug/l | 104 | 105 | 79-120 | 0 | 30 |
| Methyl Tertiary Butyl Ether | N.D. | 0.5 | ug/l | 95 | 95 | 76-120 | 0 | 30 |
| Toluene | N.D. | 0.5 | ug/l | 106 | 107 | 79-120 | 1 | 30 |
| Xylene (Total) | N.D. | 0.5 | ug/l | 105 | 107 | 80-120 | 1 | 30 |
| Batch number: 10346A94A | Sample number(s): 6159789-6159792,6159794-6159796 | | | | | | | |
| TPH-GRO N. CA water C6-C12 | N.D. | 50. | ug/l | 127 | 127 | 75-135 | 0 | 30 |
| Batch number: 103470014A | Sample number(s): 6159792 | | | | | | | |
| PCB-1016 | N.D. | 0.10 | ug/l | 78 | 84 | 68-119 | 7 | 30 |
| PCB-1221 | N.D. | 0.10 | ug/l | | | | | |
| PCB-1232 | N.D. | 0.10 | ug/l | | | | | |
| PCB-1242 | N.D. | 0.10 | ug/l | | | | | |
| PCB-1248 | N.D. | 0.10 | ug/l | | | | | |
| PCB-1254 | N.D. | 0.10 | ug/l | | | | | |
| PCB-1260 | N.D. | 0.10 | ug/l | 90 | 98 | 68-121 | 9 | 30 |
| PCB-1262 | N.D. | 0.10 | ug/l | | | | | |
| PCB-1268 | N.D. | 0.16 | ug/l | | | | | |
| Batch number: 103440009A | Sample number(s): 6159790-6159792,6159794-6159796 | | | | | | | |
| Total TPH | N.D. | 40. | ug/l | 79 | 64 | 60-120 | 21* | 20 |
| TPH Motor Oil C16-C36 | N.D. | 40. | ug/l | | | | | |
| Batch number: 103450013A | Sample number(s): 6159792 | | | | | | | |
| TPH-DRO CA C10-C28 w/ Si Gel | N.D. | 32. | ug/l | 91 | 96 | 52-126 | 5 | 20 |
| Batch number: 103441848003 | Sample number(s): 6159793 | | | | | | | |
| Cadmium | N.D. | 2.0 | ug/l | 99 | | 90-112 | | |
| Chromium | N.D. | 3.4 | ug/l | 98 | | 90-110 | | |
| Lead | N.D. | 6.9 | ug/l | 98 | | 88-110 | | |
| Nickel | N.D. | 3.0 | ug/l | 101 | | 90-111 | | |
| Zinc | N.D. | 8.1 | ug/l | 98 | | 90-111 | | |

*- 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 Group Number: 1224605
Reported: 12/22/10 at 09:28 AM

### 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: F103512AA | Sample number(s): 6159790-6159792,6159794-6159796 UNSPK: 6159792 | | | | | | | | |
| Benzene | 110 | 107 | 80-126 | 3 | 30 | | | | |
| Ethanol | 107 | 103 | 37-164 | 3 | 30 | | | | |
| Ethylbenzene | 108 | 107 | 71-134 | 1 | 30 | | | | |
| Methyl Tertiary Butyl Ether | 99 | 100 | 72-126 | 1 | 30 | | | | |
| Toluene | 111 | 107 | 80-125 | 3 | 30 | | | | |
| Xylene (Total) | 108 | 105 | 79-125 | 2 | 30 | | | | |
| Batch number: P103501AA | Sample number(s): 6159789 UNSPK: P159215 | | | | | | | | |
| Benzene | 104 | | 80-126 | | | | | | |
| Ethylbenzene | 101 | | 71-134 | | | | | | |
| Methyl Tertiary Butyl Ether | 96 | | 72-126 | | | | | | |
| Toluene | 109 | | 80-125 | | | | | | |
| Xylene (Total) | 101 | | 79-125 | | | | | | |
| Batch number: 10346A94A | Sample number(s): 6159789-6159792,6159794-6159796 UNSPK: 6159791 | | | | | | | | |
| TPH-GRO N. CA water C6-C12 | 145 | | 63-154 | | | | | | |
| Batch number: 103441848003 | Sample number(s): 6159793 UNSPK: P160718 BKG: P160718 | | | | | | | | |
| Cadmium | 96 | 96 | 83-116 | 0 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Chromium | 93 | 92 | 81-120 | 1 | 20 | 5.4 | 4.9 | 8 (1) | 20 |
| Lead | 99 | 98 | 75-125 | 1 | 20 | N.D. | N.D. | 0 (1) | 20 |
| Nickel | 97 | 96 | 86-115 | 0 | 20 | 4.2 | 4.3 | 4 (1) | 20 |
| Zinc | 95 | 95 | 85-117 | 0 | 20 | 43.7 | 43.4 | 1 (1) | 20 |

### Surrogate Quality Control

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

Analysis Name: UST VOCs by 8260B - Water
Batch number: F103512AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---|---|---|---|---|
| 6159790 | 96 | 97 | 100 | 100 |
| 6159791 | 99 | 100 | 102 | 99 |
| 6159792 | 95 | 96 | 102 | 102 |
| 6159794 | 95 | 98 | 100 | 101 |
| 6159795 | 95 | 94 | 101 | 105 |
| 6159796 | 97 | 97 | 101 | 100 |
| Blank | 97 | 98 | 102 | 101 |
| LCS | 94 | 98 | 102 | 101 |
| MS | 97 | 99 | 102 | 104 |
| MSD | 95 | 99 | 101 | 103 |
| Limits: | 80-116 | 77-113 | 80-113 | 78-113 |

Analysis Name: UST VOCs by 8260B - Water
Batch number: P103501AA

*- 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 Group Number: 1224605
Reported: 12/22/10 at 09:28 AM

## Surrogate Quality Control

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---|---|---|---|---|
| 6159789 | 95 | 100 | 104 | 91 |
| Blank | 93 | 96 | 106 | 90 |
| LCS | 93 | 100 | 105 | 92 |
| LCSD | 94 | 102 | 105 | 92 |
| MS | 93 | 101 | 105 | 91 |
| Limits: | 80-116 | 77-113 | 80-113 | 78-113 |

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 10346A94A

| | Trifluorotoluene-F |
|---|---|
| 6159789 | 88 |
| 6159790 | 103 |
| 6159791 | 88 |
| 6159792 | 89 |
| 6159794 | 88 |
| 6159795 | 98 |
| 6159796 | 88 |
| Blank | 89 |
| LCS | 94 |
| LCSD | 93 |
| MS | 92 |
| Limits: | 63-135 |

Analysis Name: PCBs in Water 8082
Batch number: 103470014A

| | Tetrachloro-m-xylene | Decachlorobiphenyl |
|---|---|---|
| 6159792 | 84 | 78 |
| Blank | 94 | 101 |
| LCS | 85 | 94 |
| LCSD | 90 | 95 |
| Limits: | 30-150 | 30-150 |

Analysis Name: TPH Fuels by GC (Waters)
Batch number: 103440009A

| | Chlorobenzene | Orthoterphenyl |
|---|---|---|
| 6159790 | 69 | 99 |
| 6159791 | 63 | 92 |
| 6159792 | 0* | 92 |
| 6159794 | 79 | 100 |
| 6159795 | 0* | 89 |
| 6159796 | 49 | 87 |
| Blank | 41 | 77 |
| LCS | 60 | 107 |
| LCSD | 51 | 87 |
| Limits: | 28-152 | 52-131 |

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel
Batch number: 103450013A

*- 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
Group Number: 1224605
Reported: 12/22/10 at 09:28 AM

## Surrogate Quality Control

| | Orthoterphenyl |
|---|---|
| 6159792 | 93 |
| Blank | 100 |
| LCS | 120 |
| LCSD | 124 |
| Limits: | 59-131 |

*- 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.

# Chevron California Region Analysis Request/Chain of Custody

**Lancaster Laboratories**

120810 -03

For Lancaster Laboratories use only
Acct. #: 10904 Sample # 6159789-96 Group #: 020213
1224605

Facility #: SS#9-9708-OML G-R#386395 Global ID#T0600102093
Site Address: 5910 MACARTHUR BLVD., OAKLAND, CA
Chevron PM: EF Lead Consultant: CRAHK Hoey
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 | Grab | Composite | Matrix: Soil | Matrix: Water | Matrix: Oil ☐ Air | Matrix: ☐ Potable ☐ NPDES | Total Number of Containers | BTEX + MTBE 8260 ☒ 8021 ☐ (Preservation Codes: H, H) | TPH 8015 MOD GRO (Preservation Codes: H, H) | TPH 8015 MOD DRO ☒ Silica Gel Cleanup | 8260 full scan | Oxygenates | Total Lead Method | Dissolved Lead Method | Ethanol (8260) (Preservation Code: N) | TPH-MO (8015) | PCBs * | Dissolved Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QA | — | — | ✓ | | | ✓ | | | 2 | ✓ | ✓ | | | | | | | | | |
| MW-1 | 12-8-10 | 1000 | | | | | | | 8 | ✓ | ✓ | | | | | | ✓ | ✓ | | |
| MW-2 | | 1038 | | | | | | | 8 | ✓ | ✓ | | | | | | ✓ | ✓ | | |
| MW-3 | | 1135 | | | | | | | 13 | ✓ | ✓ | ✓ | | | | | ✓ | ✓ | ✓ | ✓ |
| MW-4 | | 0835 | | | | | | | 8 | ✓ | ✓ | | | | | | ✓ | ✓ | | |
| MW-5 | | 0915 | | | | | | | 8 | ✓ | ✓ | | | | | | ✓ | ✓ | | |
| MW-6 | | 0748 | ✓ | | | ✓ | | | 8 | ✓ | ✓ | | | | | | ✓ | ✓ | | |

**Comments / Remarks**
* 9 arochlors by 8082 per K Hoey on 12/9/10. jmp 12/10/10
Please forward the lab results directly to the Lead Consultant and cc: G-R. Dissolved Metals include: Cadmium, Chromium, Nickel, Lead & Zinc

Dissolved metals filtered

**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 **EDF/EDD**
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: | 12-8-10 | 1300 | Received by: | 12/8/10 | 1302 |
| Relinquished by: | 12/8/10 | 1600 | Received by: FedEx | | |
| Relinquished by: | | | Received by: | | |
| Relinquished by Commercial Carrier: UPS FedEx Other | | | Received by: | 12/9/10 | 0920 |
| Temperature Upon Receipt 1.6-2.1 C° | | | Custody Seals Intact? Yes No | | |

# Explanation of Symbols and Abbreviations

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

| | | | |
|---|---|---|---|
| **RL** | Reporting Limit | **BMQL** | Below Minimum Quantitation Level |
| **N.D.** | none detected | **MPN** | Most Probable Number |
| **TNTC** | Too Numerous To Count | **CP Units** | cobalt-chloroplatinate units |
| **IU** | International Units | **NTU** | nephelometric turbidity units |
| **umhos/cm** | micromhos/cm | **ng** | nanogram(s) |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

**>** greater than

**J** estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

**Dry weight basis** Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

*U.S. EPA CLP Data Qualifiers:*

**Organic Qualifiers**

| | |
|---|---|
| **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 quantitated on a diluted sample |
| **E** | Concentration exceeds the calibration range of the instrument |
| **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 sample 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 meet all requirements of NELAC unless otherwise noted under the individual analysis.

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

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

# ATTACHMENT C

# HISTORICAL GROUNDWATER MONITORING AND SAMPLING DATA

# Table 1

## Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-9708

5910 MacArthur Boulevard

Oakland, California

| WELL ID/ DATE | TOC* (ft.) | GWE (msl) | DTW (ft.) | TPH-DRO (µg/L) | TPH-GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE (µg/L) | ETHANOL (µg/L) | 1,2-DCB♦ (µg/L) | 1,2-DCA♦ (µg/L) | HVOCs♦ (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-1** | | | | | | | | | | | | | | |
| 05/29/97 | 96.61 | 84.41 | 12.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06/04/97 | 96.61 | 84.40 | 12.21 | -- | 380 | 58 | 1.2 | 5.4 | 40 | 85 | -- | -- | -- | -- |
| 09/16/97 | 96.61 | 83.84 | 12.77 | -- | 420 | 120 | <0.5 | 19 | 2.7 | 28 | -- | -- | -- | -- |
| 12/17/97 | 96.61 | 85.43 | 11.18 | -- | 210[1] | 43 | 0.61 | 11 | 0.61 | 69 | -- | -- | -- | -- |
| 03/18/98 | 96.61 | 84.59 | 12.02 | -- | 210[1] | 47 | <0.5 | 8.2 | <0.5 | 92 | -- | -- | -- | -- |
| 06/28/98 | 96.61 | 83.99 | 12.62 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 66 | -- | -- | -- | -- |
| 09/07/98 | 96.61 | 82.32 | 14.29 | -- | <50 | 6.7 | <0.5 | <0.5 | <0.5 | 92 | -- | -- | -- | -- |
| 12/29/98 | 96.61 | 83.18 | 13.43 | -- | <100 | <1.0 | <1.0 | 2.24 | 1.14 | 278 | -- | -- | -- | -- |
| 03/11/99 | 96.61 | 83.80 | 12.81 | -- | 110 | <1.0 | <1.0 | 7.95 | <1.0 | 418 | -- | -- | -- | -- |
| 05/04/99 | 96.61 | 83.85 | 12.76 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06/29/99 | 96.61 | 84.06 | 12.55 | -- | 352 | 34.6 | <2.5 | 51 | <2.5 | 780 | -- | -- | -- | -- |
| 09/29/99 | 96.61 | 83.21 | 13.40 | -- | 647 | 167 | <2.5 | 58.6 | 14.8 | 1,570 | -- | -- | -- | -- |
| 12/08/99 | 96.61 | 85.70 | 10.91 | -- | 481 | 121 | 1.16 | 17.9 | 11 | 3,910 | -- | -- | -- | -- |
| 03/01/00 | 96.61 | 85.46 | 11.15 | -- | 2,580 | 481 | 6.84 | 86.6 | 41.9 | 5,460 | -- | -- | -- | -- |
| 06/23/00 | 96.61 | 83.68 | 12.93 | -- | 900[4] | 120 | <5.0 | 22 | 6.7 | 5,400 | -- | -- | -- | -- |
| 09/30/00 | 96.61 | 83.07 | 13.54 | -- | 1,300[4] | 450 | 5.5 | 170 | 11 | 2,000 | -- | -- | -- | -- |
| 12/08/00 | 96.61 | 83.63 | 12.98 | -- | <1,000 | 41.7 | <10.0 | 11.5 | <10.0 | 6,030 | -- | -- | -- | -- |
| 03/01/01 | 96.61 | 84.94 | 11.67 | -- | 340[7] | 36.6 | <0.500 | 10.1 | <0.500 | 3,360 | -- | -- | -- | -- |
| 06/19/01 | 96.61 | 83.94 | 12.67 | -- | 610[4] | 110 | <5.0 | 9.2 | <5.0 | 110 | -- | -- | -- | -- |
| 09/18/01 | 96.61 | 83.48 | 13.13 | -- | 200 | 32 | 0.55 | 3.0 | <1.5 | 1,600 | -- | -- | -- | -- |
| 12/26/01 | 96.61 | 85.14 | 11.47 | -- | 140 | 9.1 | <0.50 | 1.2 | <1.5 | 1,900 | -- | -- | -- | -- |
| 03/06/02 | 97.52 | 86.38 | 11.14 | -- | 93 | 7.0 | <0.50 | 0.72 | <1.5 | 1,000 | -- | -- | -- | -- |
| 06/21/02 | 97.52 | 84.92 | 12.60 | -- | 93 | 8.2 | <0.50 | 1.2 | <1.5 | 1,300 | -- | -- | -- | -- |
| 09/27/02 | 97.52 | 84.38 | 13.14 | -- | 78 | 1.5 | <0.50 | <0.50 | <1.5 | 1,200 | -- | -- | -- | -- |
| 12/26/02 | 97.52 | 87.74 | 9.78 | -- | 86 | 1.7 | <0.50 | <0.50 | <1.5 | 600 | -- | -- | -- | -- |
| 03/28/03 | 97.52 | 85.96 | 11.56 | -- | 190 | 24 | <0.50 | 2.4 | <1.5 | 1,200 | -- | -- | -- | -- |
| 06/16/03[11] | 97.52 | 85.96 | 11.56 | -- | <50 | 3 | <0.5 | <0.5 | <0.5 | 220 | -- | -- | -- | -- |
| 09/15/03[11] | 97.52 | 85.21 | 12.31 | -- | 53 | 3 | <0.5 | <0.5 | <0.5 | 580 | <50 | -- | -- | -- |
| 12/15/03[11] | 97.52 | 86.35 | 11.17 | -- | <50 | <0.5 | 0.7 | <0.5 | 0.8 | 410 | <50 | -- | -- | -- |
| 03/05/04[11] | 97.52 | 86.09 | 11.43 | -- | 760 | 110 | 2 | 12 | 2 | 460 | <50 | -- | -- | -- |
| 06/18/04[11] | 97.52 | 85.40 | 12.12 | -- | 1,400 | 200 | 3 | 7 | 2 | 740 | <50 | -- | -- | -- |
| 09/17/04[11] | 97.52 | 85.12 | 12.40 | -- | 920 | 48 | <0.5 | <0.5 | <0.5 | 340 | <50 | -- | -- | -- |
| 12/17/04[11] | 97.52 | 86.78 | 10.74 | -- | 190 | 9 | <0.5 | <0.5 | <0.5 | 110 | <50 | -- | -- | -- |
| 03/14/05[11] | 97.52 | 87.67 | 9.85 | -- | 120 | 5 | <0.5 | <0.5 | <0.5 | 130 | <50 | -- | -- | -- |
| 06/13/05[11] | 97.52 | 85.61 | 11.91 | -- | 110 | 6 | <0.5 | <0.5 | <0.5 | 130 | <50 | -- | -- | -- |
| 09/12/05[11] | 97.52 | 85.31 | 12.21 | -- | 290 | 10 | <0.5 | <0.5 | <0.5 | 90 | <50 | -- | -- | -- |

# Table 1

## Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-9708

5910 MacArthur Boulevard

Oakland, California

| WELL ID/ DATE | TOC* (ft.) | GWE (msl) | DTW (ft.) | TPH-DRO (µg/L) | TPH-GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE (µg/L) | ETHANOL (µg/L) | 1,2-DCB♦ (µg/L) | 1,2-DCA♦ (µg/L) | HVOCs♦ (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-1 (cont)** | | | | | | | | | | | | | | |
| 12/12/05[11] | 97.52 | 86.50 | 11.02 | -- | 150 | 1 | <0.5 | <0.5 | 0.8 | 53 | <50 | -- | -- | -- |
| 03/13/06[11] | 97.52 | 87.97 | 9.55 | -- | 82 | 0.8 | <0.5 | <0.5 | <0.5 | 66 | <50 | -- | -- | -- |
| 06/12/06[11] | 97.52 | 86.52 | 11.00 | -- | 140 | 4 | <0.5 | <0.5 | <0.5 | 65 | <50 | -- | -- | -- |
| 09/11/06[11] | 97.52 | 85.99 | 11.53 | -- | 210 | 3 | <0.5 | <0.5 | <0.5 | 32 | <50 | -- | -- | -- |
| 12/15/06[11] | 97.52 | 88.13 | 9.39 | -- | 190 | 1 | <0.5 | <0.5 | <0.5 | 31 | <50 | -- | -- | -- |
| 03/16/07[11] | 97.52 | 86.02 | 11.50 | -- | 99 | 0.8 | <0.5 | <0.5 | <0.5 | 41 | <50 | -- | -- | -- |
| 06/15/07[11] | 97.52 | 86.46 | 11.06 | -- | 210 | 10 | <0.5 | <0.5 | <0.5 | 49 | <50 | -- | -- | -- |
| 09/14/07[11] | 97.52 | 85.14 | 12.38 | -- | 270 | 6 | <0.5 | <0.5 | <0.5 | 35 | <50 | -- | -- | -- |
| 12/07/07[11] | 97.52 | 84.88 | 12.64 | -- | 90 | 0.7 | <0.5 | <0.5 | <0.5 | 43 | <50 | -- | -- | -- |
| 03/07/08[11] | 97.52 | 85.54 | 11.98 | -- | 110 | <0.5 | <0.5 | <0.5 | <0.5 | 32 | <50 | -- | -- | -- |
| 06/06/08[11] | 97.52 | 86.18 | 11.34 | -- | 180 | 0.7 | <0.5 | <0.5 | <0.5 | 29 | <50 | -- | -- | -- |
| 09/05/08[11] | 97.52 | 85.39 | 12.13 | -- | 200 | 1 | <0.5 | <0.5 | <0.5 | 20 | <50 | -- | -- | -- |
| 12/15/08[11] | 97.52 | 85.31 | 12.21 | -- | 150 | <0.5 | <0.5 | <0.5 | <0.5 | 19 | <50 | -- | -- | -- |
| 03/16/09[11] | 97.52 | 87.60 | 9.92 | -- | 68 | <0.5 | <0.5 | <0.5 | <0.5 | 19 | <50 | -- | -- | -- |
| 06/15/09[11] | 97.52 | 85.97 | 11.55 | -- | 210 | 3 | <0.5 | <0.5 | <0.5 | 21 | <50 | -- | -- | -- |
| 11/30/09[11] | 97.52 | 85.41 | 12.11 | -- | 61 | <0.5 | <0.5 | <0.5 | <0.5 | 21 | <50 | -- | -- | -- |
| **06/07/10[11]** | **97.52** | **85.62** | **11.90** | **--** | **140** | **1** | **<0.5** | **<0.5** | **<0.5** | **17** | **<50** | **--** | **--** | **--** |
| **MW-2** | | | | | | | | | | | | | | |
| 05/29/97 | 96.91 | 83.85 | 13.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06/04/97 | 96.91 | 83.96 | 12.95 | -- | 1,600 | 120 | 5.9 | 32 | 15 | 2,100 | -- | -- | -- | -- |
| 09/16/97 | 96.91 | 83.92 | 12.99 | -- | 1,100 | 23 | 3.2 | 7.0 | 2.5 | 1,200 | -- | -- | -- | -- |
| 12/17/97 | 96.91 | 84.73 | 12.18 | -- | 7,100[1] | 650 | 69 | 610 | 69 | 4,700/2,600[2] | -- | -- | -- | -- |
| 03/18/98 | 96.91 | 84.21 | 12.70 | -- | 5,900[1] | 250 | <50 | 98 | <50 | 12,000/7,100[2] | -- | -- | -- | -- |
| 06/28/98 | 96.91 | 83.98 | 12.93 | -- | 4,300 | 400 | <10 | <10 | <10 | 3,000/4,000[2] | -- | -- | -- | -- |
| 09/07/98 | 96.91 | 83.94 | 12.97 | -- | 3,700 | 220 | 5.1 | 38 | 7.6 | 1,300/1,400[2] | -- | -- | -- | -- |
| 12/29/98 | 96.91 | 83.99 | 12.92 | -- | 6,500 | 573 | 26.8 | 131 | 33.9 | 2,660 | -- | -- | -- | -- |
| 03/11/99 | 96.91 | 84.04 | 12.87 | -- | 4,970 | 651 | 30.8 | 60.3 | <5.0 | 2,600 | -- | -- | -- | -- |
| 05/04/99 | 96.91 | 84.05 | 12.86 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06/29/99 | 96.91 | 83.98 | 12.93 | -- | 2,030 | 238 | 11.6 | 8.98 | <5.0 | 540 | -- | -- | -- | -- |
| 09/29/99 | 96.91 | 84.02 | 12.89 | -- | 2,000 | 320 | 10.4 | 16.5 | 20.3 | 642 | -- | -- | -- | -- |
| 12/08/99 | 96.91 | 86.18 | 10.73 | -- | 96.8 | 2.74 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| 03/01/00 | 96.91 | 84.31 | 12.60 | -- | <50 | 6.92 | <0.5 | <0.5 | <0.5 | 254 | -- | -- | -- | -- |
| 06/23/00 | 96.91 | 83.98 | 12.93 | -- | 1,700[4] | 490 | 7.5 | <5.0 | 7.7 | 770 | -- | -- | -- | -- |
| 09/30/00 | 96.91 | 83.95 | 12.96 | -- | 2,000[4] | 420 | 14 | <10 | <10 | 380 | -- | -- | -- | -- |

# Table 1

## Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-9708

5910 MacArthur Boulevard

Oakland, California

| WELL ID/ DATE | TOC* (ft.) | GWE (msl) | DTW (ft.) | TPH-DRO (µg/L) | TPH-GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE (µg/L) | ETHANOL (µg/L) | 1,2-DCB♦ (µg/L) | 1,2-DCA♦ (µg/L) | HVOCs♦ (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-2 (cont)** | | | | | | | | | | | | | | |
| 12/08/00 | 96.91 | 83.98 | 12.93 | -- | 984 | 54.9 | <2.50 | 4.15 | <2.50 | 306 | -- | -- | -- | -- |
| 03/01/01 | 96.91 | 84.15 | 12.76 | -- | <50.0 | 4.16 | <0.500 | <0.500 | <0.500 | 245 | -- | -- | -- | -- |
| 06/19/01 | 96.91 | 83.23 | 13.68 | -- | 1,700[4] | 250 | 9.2 | <5.0 | 6.9 | 410 | -- | -- | -- | -- |
| 09/18/01 | 96.91 | 83.96 | 12.95 | -- | 1,700 | 42 | 1.9 | 2.0 | 2.9 | 280 | -- | -- | -- | -- |
| 12/26/01 | 96.91 | 83.88 | 13.03 | -- | <50 | 0.50 | <0.50 | <0.50 | <1.5 | 120 | -- | -- | -- | -- |
| 03/06/02 | 97.81 | 84.82 | 12.99 | -- | 670 | 170 | 2.5 | <0.50 | <1.5 | 410 | -- | -- | -- | -- |
| 06/21/02 | 97.81 | 84.10 | 13.71 | -- | 1,800 | 120 | 7.3 | 2.0 | 3.1 | 440 | -- | -- | -- | -- |
| 09/27/02 | 97.81 | 82.51 | 15.30 | -- | 180 | 11 | 1.0 | <0.50 | <1.5 | 4,700 | -- | -- | -- | -- |
| 12/26/02 | 97.81 | 84.81 | 13.00 | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | 160 | -- | -- | -- | -- |
| 03/28/03 | 97.81 | 84.46 | 13.35 | -- | 580 | 88 | 2.2 | 22 | 12 | 280 | -- | -- | -- | -- |
| 06/16/03[11] | 97.81 | 83.10 | 14.71 | -- | 200 | 1 | 29 | <0.5 | <0.5 | 1,400 | -- | -- | -- | -- |
| 09/15/03[11] | 97.81 | 82.78 | 15.03 | -- | 130 | <1 | <1 | <1 | <1 | 2,400 | <130 | -- | -- | -- |
| 12/15/03[11] | 97.81 | 84.84 | 12.97 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 63 | <50 | -- | -- | -- |
| 03/05/04[11] | 97.81 | 84.79 | 13.02 | -- | <50 | 0.8 | <0.5 | <0.5 | <0.5 | 49 | <50 | -- | -- | -- |
| 06/18/04[11] | 97.81 | 82.72 | 15.09 | -- | 60 | <0.5 | <0.5 | <0.5 | <0.5 | 1,900 | <50 | -- | -- | -- |
| 09/17/04[11] | 97.81 | 82.46 | 15.35 | -- | 66 | <1 | <1 | <1 | <1 | 2,100 | <130 | -- | -- | -- |
| 12/17/04[11] | 97.81 | 84.61 | 13.20 | -- | 120 | 7 | <0.5 | <0.5 | 0.7 | 91 | <50 | -- | -- | -- |
| 03/14/05[11] | 97.81 | 84.79 | 13.02 | -- | 390 | 69 | 0.8 | 10 | 2 | 74 | <50 | -- | -- | -- |
| 06/13/05[11] | 97.81 | 82.87 | 14.94 | -- | <50 | 6 | <0.5 | <0.5 | <0.5 | 10 | <50 | -- | -- | -- |
| 09/12/05[11] | 97.81 | 82.62 | 15.19 | -- | 77 | <1 | <1 | <1 | <1 | 1,400 | <100 | -- | -- | -- |
| 12/12/05[11] | 97.81 | 84.32 | 13.49 | -- | 14,000 | 1,500 | 1,100 | 660 | 3,500 | 82 | <250 | -- | -- | -- |
| 03/13/06[11] | 97.81 | 84.97 | 12.84 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 1 | <50 | -- | -- | -- |
| 06/12/06[11] | 97.81 | 83.19 | 14.62 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 81 | <50 | -- | -- | -- |
| 09/11/06[11] | 97.81 | 82.59 | 15.22 | -- | 73 | <0.5 | <0.5 | <0.5 | <0.5 | 170 | <50 | -- | -- | -- |
| 12/15/06[11] | 97.81 | 84.86 | 12.95 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 0.8 | <50 | -- | -- | -- |
| 03/16/07[11] | 97.81 | 84.41 | 13.40 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 1 | <50 | -- | -- | -- |
| 06/17/07[11] | 97.81 | 83.14 | 14.67 | -- | <50 | 0.9 | <0.5 | <0.5 | <0.5 | 46 | <50 | -- | -- | -- |
| 09/14/07[11] | 97.81 | 82.70 | 15.11 | -- | <50 | 0.7 | <0.5 | <0.5 | <0.5 | 170 | <50 | -- | -- | -- |
| 12/07/07[11] | 97.81 | 82.46 | 15.35 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 0.7 | <50 | -- | -- | -- |
| 03/07/08[11] | 97.81 | 83.90 | 13.91 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 3 | <50 | -- | -- | -- |
| 06/06/08[11] | 97.81 | 83.01 | 14.80 | -- | <50 | 3 | <0.5 | <0.5 | <0.5 | 78 | <50 | -- | -- | -- |
| 09/05/08[11] | 97.81 | 82.78 | 15.03 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 130 | <50 | -- | -- | -- |
| 12/15/08[11] | 97.81 | 82.63 | 15.18 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | -- | -- | -- |
| 03/16/09[11] | 97.81 | 84.36 | 13.45 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 6 | <50 | -- | -- | -- |

# Table 1

## Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-9708

5910 MacArthur Boulevard

Oakland, California

| WELL ID/ DATE | TOC* (ft.) | GWE (msl) | DTW (ft.) | TPH-DRO (µg/L) | TPH-GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE (µg/L) | ETHANOL (µg/L) | 1,2-DCB♦ (µg/L) | 1,2-DCA♦ (µg/L) | HVOCs♦ (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-2 (cont)** | | | | | | | | | | | | | | |
| 06/15/09[11] | 97.81 | 82.53 | 15.28 | -- | 1,500 | 29 | 1 | 5 | 4 | 12 | <50 | -- | -- | -- |
| 11/30/09[11] | 97.81 | 84.53 | 13.28 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | -- | -- | -- |
| **06/07/10[11]** | **97.81** | **84.62** | **13.19** | **--** | **<50** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **2** | **<50** | **--** | **--** | **--** |
| **MW-3** | | | | | | | | | | | | | | |
| 05/29/97 | 97.86 | 86.41 | 11.45 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06/04/97[3] | 97.86 | 86.58 | 11.28 | 1200 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | ND | 1.0 | -- |
| 09/16/97 | 97.86 | 85.67 | 12.19 | 2,700[1] | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | -- | -- | -- |
| 12/17/97 | 97.86 | 87.06 | 10.80 | 1,200[1] | <50 | 0.9 | 0.53 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| 03/18/98 | 97.86 | 86.98 | 10.88 | 820[1] | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| 06/28/98 | 97.86 | 86.26 | 11.60 | 1,100[1] | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | 0.99 | ND | <0.5-<5.0 |
| 09/07/98 | 97.86 | 85.64 | 12.22 | 1,100[1] | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | 0.79 | 0.54 | -- |
| 12/29/98 | 97.86 | 86.06 | 11.80 | 1,760[1] | 185 | <0.5 | <0.5 | <0.5 | 0.669 | <2.0 | -- | 1.04 | 0.578 | <0.5-<5.0 |
| 03/11/99 | 97.86 | 86.83 | 11.03 | 1440 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.0 | -- | <1.0 | <1.0 | <1.0-<20 |
| 05/04/99 | 97.86 | 86.43 | 11.43 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06/29/99 | 97.86 | 85.71 | 12.15 | 690[1] | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | 0.754 | <0.5 | <0.5-<5.0 |
| 09/29/99 | 97.86 | INACCESSIBLE | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/08/99 | 97.86 | 88.43 | 9.43 | 1,000[1] | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | <0.5 | 0.66 | <0.5-<5.0 |
| 03/01/00 | 97.86 | 87.16 | 10.70 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | 0.821 | 0.984 | <0.5-<5.0 |
| 06/23/00 | 97.86 | 85.96 | 11.90 | 2,600[5] | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | -- | <2.0 | <2.0 | <0.5-<2.0 |
| 09/30/00 | 97.86 | 85.45 | 12.41 | 1,100[5] | <50 | <0.50 | 0.61 | <0.50 | 0.82 | 2.7 | -- | <2.0 | <2.0 | <0.50-<2.0 |
| 12/08/00 | 97.86 | 85.78 | 12.08 | 870[5] | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | -- | <2.0 | <2.0 | <0.50-<10 |
| 03/01/01 | 97.86 | 87.09 | 10.77 | 1,060[6] | 60.9[7] | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | -- | 0.545 | 0.528 | <0.500-<5.00 |
| 06/19/01 | 97.86 | 85.87 | 11.99 | 120[5] | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | -- | <1.2 | <1.6 | <0.50-<2.0 |
| 09/18/01 | 97.86 | 85.19 | 12.67 | 4,800 | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | <1[8] | <2[8] | <1-<2[8] |
| 12/26/01 | 97.86 | 86.92 | 10.94 | 5,000 | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | <1[8] | <2[8] | <1-<2.0[8] |
| 03/06/02 | 98.78 | 87.20 | 11.58 | 30,000 | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | <1[8] | <2[8] | <1-<2.0[8] |
| 06/21/02 | 98.78 | 86.23 | 12.55 | 3,800[10] | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | <1[8] | <2[8] | <1-<2.0[8] |
| 09/27/02 | 98.78 | 85.93 | 12.85 | 2,000 | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | <1[8] | <2[8] | <1-<2.0[8] |
| 12/26/02 | 98.78 | 87.87 | 10.91 | 3,600 | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | <1[8] | <2[8] | <1-<2.0[8] |
| 03/28/03 | 98.78 | 86.77 | 12.01 | 2,100 | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | <1[8] | <1[8] | <0.8-<2[8] |
| 06/16/03[11] | 98.78 | 86.79 | 11.99 | 2,400 | <50 | <0.5 | <0.5 | <0.5 | <1 | <0.5 | -- | <1[8] | 0.8[8] | <0.5-<2[8] |
| 09/15/03[11] | 98.78 | 86.07 | 12.71 | 4,300 | <50 | <0.5 | <0.5 | <0.5 | <1 | <0.5 | <50 | <1[8] | 0.8[8] | <0.8-<2[8] |
| 12/15/03[11] | 98.78 | 87.23 | 11.55 | 3,200 | <50 | <0.5 | 0.7 | <0.5 | 0.7 | <0.5 | <50 | <1[8] | 0.8[8] | <0.8-<2[8] |
| 03/05/04[11] | 98.78 | 87.66 | 11.12 | 8,000 | <50 | <0.5 | 0.6 | <0.5 | 0.7 | <0.5 | <50 | <1[8] | <0.5[8] | <0.8-<2[8] |

# Table 1

## Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-9708

5910 MacArthur Boulevard

Oakland, California

| WELL ID/ DATE | TOC* (ft.) | GWE (msl) | DTW (ft.) | TPH-DRO (µg/L) | TPH-GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE (µg/L) | ETHANOL (µg/L) | 1,2-DCB♦ (µg/L) | 1,2-DCA♦ (µg/L) | HVOCs♦ (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-3 (cont)** | | | | | | | | | | | | | | |
| 06/18/04[11] | 98.78 | 86.21 | 12.57 | 3,100 | <50 | <0.5 | <0.5 | <0.5 | <1 | <0.5 | <50 | <1[8] | <0.5[8] | <0.8-<2[8] |
| 09/17/04[11] | 98.78 | 85.92 | 12.86 | 3,200 | <50 | <0.5 | <0.7 | <0.8 | <1.6 | <0.5 | <50 | <1[8] | <1[8] | <0.8-<2[8] |
| 12/17/04[11] | 98.78 | 87.63 | 11.15 | 2,800 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | <50 | <1[8] | <0.5[8] | <0.8-<2[8] |
| 03/14/05[11] | 98.78 | 88.21 | 10.57 | 1,300 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | <50 | <1[8] | <0.5[8] | <0.8-<2[8] |
| 06/13/05[11] | 98.78 | 86.45 | 12.33 | 2,700 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | <50 | <1[8] | <0.5[8] | <0.8-<2[8] |
| 09/12/05[11] | 98.78 | 85.89 | 12.89 | 2,000[12] | <50 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | <50 | <1[8] | <0.5[8] | <0.8-<2[8] |
| 12/12/05[11] | 98.78 | 87.40 | 11.38 | 3,900[12] | <50 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | <50 | <1[8] | <0.5[8] | <0.8-<2[8] |
| 03/13/06[11] | 98.78 | 88.43 | 10.35 | 2,800 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | <50 | <1[8] | <0.5[8] | <0.8-<2[8] |
| 06/12/06[11] | 98.78 | 87.05 | 11.73 | 3,600 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | <50 | <1[8] | <0.5[8] | <0.8-<2[8] |
| 09/11/06[11] | 98.78 | 86.42 | 12.36 | 4,000 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | <50 | <1[8] | <0.5[8] | <0.8-<2[8] |
| 12/15/06[11] | 98.78 | 86.91 | 11.87 | 3,100 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | <50 | <1[8] | <0.5[8] | <0.8-<2[8] |
| 03/16/07[11] | 98.78 | 87.55 | 11.23 | 1,800 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | <50 | <1[8] | <0.5[8] | <0.8-<2[8] |
| 06/15/07[11] | 98.78 | 86.97 | 11.81 | 2,000 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | <50 | <2[8] | <0.5[8] | <0.8-<2[8] |
| 09/14/07[11] | 98.78 | 86.31 | 12.47 | 1,600 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | <50 | <1[8] | <0.5[8] | <0.8-<2[8] |
| 12/07/07[11] | 98.78 | 86.02 | 12.76 | 2,200 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | 330 | <1[8] | <0.5[8] | <0.8-<2[8,13] |
| 03/07/08[11] | 98.78 | 86.95 | 11.83 | 6,500 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | <50 | <1[8] | <0.5[8] | <0.8-<2[8] |
| 06/06/08[11] | 98.78 | 86.51 | 12.27 | 2,800 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | <50 | <1[8] | <0.5[8] | <0.8-<2[8] |
| 09/05/08[11] | 98.78 | 86.13 | 12.65 | 2,400 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | <50 | <1[8] | <0.5[8] | <0.8-<2[8] |
| 12/15/08[11] | 98.78 | 86.12 | 12.66 | 8,700 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | 230 | <1[8] | <0.5[8] | <0.8-<2[8] |
| 03/16/09[11] | 98.78 | 86.42 | 12.36 | 4,900 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | <50 | <1[8] | <0.5[8] | <0.8-<2[8] |
| 06/15/09[11] | 98.78 | 86.33 | 12.45 | 5,900 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | <50 | <1[8] | <0.5[8] | <0.8-<2[8] |
| 11/30/09[11] | 98.78 | 86.92 | 11.86 | 4,400 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | <50 | <1[8] | <0.5[8] | <0.8-<2[8] |
| **06/07/10[11]** | **98.78** | **87.13** | **11.65** | **1,800[14]** | **<50** | **<0.5** | **<0.5** | **<0.5** | **<1.0** | **<0.5** | **<50** | **<1[8]** | **<0.5[8]** | **<0.8-<2[8]** |
| **MW-4** | | | | | | | | | | | | | | |
| 05/04/99 | 96.25 | 83.66 | 12.59 | -- | 140 | <0.5 | 0.62 | 0.67 | 2.6 | <2.5 | -- | -- | -- | -- |
| 06/29/99 | 96.25 | 83.64 | 12.61 | -- | 183 | <0.5 | <0.5 | 1.1 | <0.5 | <5.0 | -- | -- | -- | -- |
| 09/29/99 | 96.25 | 83.70 | 12.55 | -- | 64.3 | <0.5 | <0.5 | <0.5 | 1.18 | <2.5 | -- | -- | -- | -- |
| 12/08/99 | 96.25 | 83.81 | 12.44 | -- | 91.2 | 0.589 | <0.5 | 0.52 | <0.5 | 86 | -- | -- | -- | -- |
| 03/01/00 | 96.25 | 84.55 | 11.70 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| 06/23/00 | 96.25 | 84.12 | 12.13 | -- | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | -- | -- | -- | -- |
| 09/30/00 | 96.25 | 84.30 | 11.95 | -- | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | -- | -- | -- | -- |
| 12/08/00 | 96.25 | 83.85 | 12.40 | -- | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | -- | -- | -- | -- |
| 03/01/01 | 96.25 | INACCESSIBLE | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06/19/01 | 96.25 | 82.83 | 13.42 | -- | 210[7] | 7.6 | 1.4 | <0.50 | <0.50 | 10 | -- | -- | -- | -- |

# Table 1

## Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-9708

5910 MacArthur Boulevard

Oakland, California

| WELL ID/ DATE | TOC* (ft.) | GWE (msl) | DTW (ft.) | TPH-DRO (µg/L) | TPH-GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE (µg/L) | ETHANOL (µg/L) | 1,2-DCB♦ (µg/L) | 1,2-DCA♦ (µg/L) | HVOCs♦ (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-4 (cont)** | | | | | | | | | | | | | | |
| 09/18/01 | 96.25 | 83.17 | 13.08 | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| 12/26/01 | 96.25 | 83.36 | 12.89 | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| 03/06/02 | 97.14 | 84.06 | 13.08 | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| 06/21/02 | 97.14 | 83.63 | 13.51 | -- | <50 | <0.50 | 12 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| 09/27/02 | 97.14 | 83.47 | 13.67 | -- | 110 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| 12/26/02 | 97.14 | 84.12 | 13.02 | -- | <50 | <0.50 | 2.6 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| 03/28/03 | 97.14 | 83.71 | 13.43 | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | 18 | -- | -- | -- | -- |
| 06/16/03[11] | 97.14 | 83.10 | 14.04 | -- | 250 | <0.5 | 31 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- |
| 09/15/03[11] | 97.14 | 82.93 | 14.21 | -- | 220 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | -- | -- | -- |
| 12/15/03[11] | 97.14 | 84.30 | 12.84 | -- | 310 | <0.5 | 21 | <0.5 | 1 | <0.5 | <50 | -- | -- | -- |
| 03/05/04[11] | 97.14 | 84.00 | 13.14 | -- | <50 | <0.5 | 0.7 | <0.5 | 0.6 | 5 | <50 | -- | -- | -- |
| 06/18/04[11] | 97.14 | 83.14 | 14.00 | -- | 220 | <0.5 | <0.5 | <0.5 | <0.5 | 1 | <50 | -- | -- | -- |
| 09/17/04[11] | 97.14 | 83.06 | 14.08 | -- | 97 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | -- | -- | -- |
| 12/17/04[11] | 97.14 | 83.77 | 13.37 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 0.9 | <50 | -- | -- | -- |
| 03/14/05[11] | 97.14 | 83.69 | 13.45 | -- | <50 | <0.5 | 0.8 | <0.5 | <0.5 | 1 | <50 | -- | -- | -- |
| 06/13/05[11] | 97.14 | 83.53 | 13.61 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 2 | <50 | -- | -- | -- |
| 09/12/05[11] | 97.14 | 83.34 | 13.80 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | -- | -- | -- |
| 12/12/05[11] | 97.14 | 83.54 | 13.60 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 1 | <50 | -- | -- | -- |
| 03/13/06[11] | 97.14 | 83.95 | 13.19 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 1 | <50 | -- | -- | -- |
| 06/12/06[11] | 97.14 | 83.27 | 13.87 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 0.7 | <50 | -- | -- | -- |
| 09/11/06[11] | 97.14 | 82.98 | 14.16 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 0.7 | <50 | -- | -- | -- |
| 12/15/06[11] | 97.14 | 83.96 | 13.18 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 0.9 | <50 | -- | -- | -- |
| 03/16/07[11] | 97.14 | 83.44 | 13.70 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 0.6 | <50 | -- | -- | -- |
| 06/15/07[11] | 97.14 | 83.23 | 13.91 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 0.6 | <50 | -- | -- | -- |
| 09/14/07[11] | 97.14 | 83.12 | 14.02 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | -- | -- | -- |
| 12/07/07[11] | 97.14 | 82.91 | 14.23 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | -- | -- | -- |
| 03/07/08[11] | 97.14 | 83.22 | 13.92 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 1 | <50 | -- | -- | -- |
| 06/06/08[11] | 97.14 | 83.23 | 13.91 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | <50 | -- | -- | -- |
| 09/05/08[11] | 97.14 | 83.12 | 14.02 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | -- | -- | -- |
| 12/15/08[11] | 97.14 | 83.05 | 14.09 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 0.8 | <50 | -- | -- | -- |
| 03/16/09[11] | 97.14 | 83.58 | 13.56 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 1 | <50 | -- | -- | -- |
| 06/15/09[11] | 97.14 | 83.05 | 14.09 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | -- | -- | -- |
| 11/30/09[11] | 97.14 | 83.56 | 13.58 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | -- | -- | -- |
| **06/07/10[11]** | **97.14** | **83.88** | **13.26** | **--** | **<50** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<50** | **--** | **--** | **--** |

# Table 1

## Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-9708

5910 MacArthur Boulevard

Oakland, California

| WELL ID/ DATE | TOC* (ft.) | GWE (msl) | DTW (ft.) | TPH-DRO (µg/L) | TPH-GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE (µg/L) | ETHANOL (µg/L) | 1,2-DCB♦ (µg/L) | 1,2-DCA♦ (µg/L) | HVOCs♦ (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-5** | | | | | | | | | | | | | | |
| 03/06/02[9] | 95.71 | 84.31 | 11.40 | -- | 4,900 | 18 | 2.7 | 29 | 9.8 | 290 | -- | -- | -- | -- |
| 06/21/02 | 95.71 | 83.29 | 12.42 | -- | 1,400 | 3.6 | 1.4 | <0.50 | 1.6 | 190 | -- | -- | -- | -- |
| 09/27/02 | 95.71 | 83.00 | 12.71 | -- | 540 | 1.3 | <0.50 | <0.50 | <1.5 | 190 | -- | -- | -- | -- |
| 12/26/02 | 95.71 | 85.55 | 10.16 | -- | 2,600 | 5.0 | 0.86 | 3.6 | 3.7 | 170 | -- | -- | -- | -- |
| 03/28/03 | 95.71 | 84.25 | 11.46 | -- | 920 | 3.8 | <0.50 | 2.1 | 1.7 | 160 | -- | -- | -- | -- |
| 06/16/03[11] | 95.71 | 83.92 | 11.79 | -- | 600 | 3 | 0.9 | 0.7 | 0.9 | 150 | -- | -- | -- | -- |
| 09/15/03[11] | 95.71 | 83.28 | 12.43 | -- | 760 | <0.5 | <0.5 | <0.5 | <0.5 | 180 | <50 | -- | -- | -- |
| 12/15/03[11] | 95.71 | 85.01 | 10.70 | -- | 1,200 | 0.7 | 0.5 | 0.6 | 0.8 | 120 | <50 | -- | -- | -- |
| 03/05/04[11] | 95.71 | 84.65 | 11.06 | -- | 1,800 | 2 | 0.7 | 0.7 | 2 | 60 | <50 | -- | -- | -- |
| 06/18/04[11] | 95.71 | 83.54 | 12.17 | -- | 1,700 | <0.5 | <0.5 | <0.5 | <0.5 | 77 | <50 | -- | -- | -- |
| 09/17/04[11] | 95.71 | 83.35 | 12.36 | -- | 1,900 | <0.5 | <0.5 | <0.5 | 0.6 | 73 | <50 | -- | -- | -- |
| 12/17/04[11] | 95.71 | 84.91 | 10.80 | -- | 1,200 | 1 | <0.5 | <0.5 | 0.6 | 41 | <50 | -- | -- | -- |
| 03/14/05[11] | 95.71 | 85.26 | 10.45 | -- | 1,400 | 9 | <0.5 | <0.5 | <0.5 | 19 | <50 | -- | -- | -- |
| 06/13/05[11] | 95.71 | 83.82 | 11.89 | -- | 760 | <0.5 | <0.5 | <0.5 | <0.5 | 16 | <50 | -- | -- | -- |
| 09/12/05[11] | 95.71 | 83.43 | 12.28 | -- | 610 | <0.5 | <0.5 | <0.5 | <0.5 | 22 | <50 | -- | -- | -- |
| 12/12/05[11] | 95.71 | 84.63 | 11.08 | -- | 630 | <0.5 | <0.5 | <0.5 | <0.5 | 13 | 63 | -- | -- | -- |
| 03/13/06[11] | 95.71 | 85.45 | 10.26 | -- | 1,100 | 1 | <0.5 | <0.5 | 0.5 | 9 | <50 | -- | -- | -- |
| 06/12/06[11] | 95.71 | 83.91 | 11.80 | -- | 460 | <0.5 | <0.5 | <0.5 | <0.5 | 10 | <50 | -- | -- | -- |
| 09/11/06[11] | 95.71 | 83.30 | 12.41 | -- | 510 | <0.5 | <0.5 | <0.5 | <0.5 | 10 | <50 | -- | -- | -- |
| 12/15/06[11] | 95.71 | 85.21 | 10.50 | -- | 1,000 | 0.7 | <0.5 | <0.5 | <0.5 | 6 | <50 | -- | -- | -- |
| 03/16/07[11] | 95.71 | 84.71 | 11.00 | -- | 430 | <0.5 | <0.5 | <0.5 | <0.5 | 8 | <50 | -- | -- | -- |
| 06/15/07[11] | 95.71 | 83.83 | 11.88 | -- | 420 | <0.5 | <0.5 | <0.5 | <0.5 | 5 | <50 | -- | -- | -- |
| 09/14/07[11] | 95.71 | 83.39 | 12.32 | -- | 380 | <0.5 | <0.5 | <0.5 | <0.5 | 6 | <50 | -- | -- | -- |
| 12/07/07[11] | 95.71 | 83.14 | 12.57 | -- | 420 | <0.5 | <0.5 | <0.5 | <0.5 | 3 | <50 | -- | -- | -- |
| 03/07/08[11] | 95.71 | 84.20 | 11.51 | -- | 400 | <0.5 | <0.5 | <0.5 | <0.5 | 4 | <50 | -- | -- | -- |
| 06/06/08[11] | 95.71 | 83.51 | 12.20 | -- | 400 | <0.5 | <0.5 | <0.5 | <0.5 | 4 | <50 | -- | -- | -- |
| 09/05/08[11] | 95.71 | 83.33 | 12.38 | -- | 470 | <0.5 | <0.5 | <0.5 | <0.5 | 6 | <50 | -- | -- | -- |
| 12/15/08[11] | 95.71 | 83.25 | 12.46 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 3 | <50 | -- | -- | -- |
| 03/16/09[11] | 95.71 | 85.11 | 10.60 | -- | 720 | <0.5 | <0.5 | <0.5 | <0.5 | 4 | <50 | -- | -- | -- |
| 06/15/09[11] | 95.71 | 83.25 | 12.46 | -- | 490 | <0.5 | <0.5 | <0.5 | <0.5 | 2 | <50 | -- | -- | -- |
| 11/30/09[11] | 95.71 | 83.81 | 11.90 | -- | 330 | <0.5 | <0.5 | <0.5 | <0.5 | 3 | <50 | -- | -- | -- |
| **06/07/10[11]** | **95.71** | **83.88** | **11.83** | **--** | **310** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **1** | **<50** | **--** | **--** | **--** |

# Table 1

## Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-9708

5910 MacArthur Boulevard

Oakland, California

| WELL ID/ DATE | TOC* (ft.) | GWE (msl) | DTW (ft.) | TPH-DRO (µg/L) | TPH-GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE (µg/L) | ETHANOL (µg/L) | 1,2-DCB♦ (µg/L) | 1,2-DCA♦ (µg/L) | HVOCs♦ (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-6** | | | | | | | | | | | | | | |
| 03/06/02[9] | 95.84 | 85.67 | 10.17 | -- | 220 | <0.50 | <0.50 | <0.50 | <1.5 | 53 | -- | -- | -- | -- |
| 06/21/02 | 95.84 | 84.86 | 10.98 | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | 15 | -- | -- | -- | -- |
| 09/27/02 | 95.84 | 84.61 | 11.23 | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | 11 | -- | -- | -- | -- |
| 12/26/02 | 95.84 | 87.47 | 8.37 | -- | 57 | <0.50 | <0.50 | <0.50 | <1.5 | 19 | -- | -- | -- | -- |
| 03/28/03 | 95.84 | 85.53 | 10.31 | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | 11 | -- | -- | -- | -- |
| 06/16/03[11] | 95.84 | 85.50 | 10.34 | -- | <50 | <0.5 | 0.6 | <0.5 | <0.5 | 5 | -- | -- | -- | -- |
| 09/15/03[11] | 95.84 | 84.84 | 11.00 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 6 | <50 | -- | -- | -- |
| 12/15/03[11] | 95.84 | 86.49 | 9.35 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 4 | <50 | -- | -- | -- |
| 03/05/04[11] | 95.84 | 87.04 | 8.80 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | -- | -- | -- |
| 06/18/04[11] | 95.84 | 85.04 | 10.80 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 2 | <50 | -- | -- | -- |
| 09/17/04[11] | 95.84 | 84.84 | 11.00 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 2 | <50 | -- | -- | -- |
| 12/17/04[11] | 95.84 | 86.32 | 9.52 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 2 | <50 | -- | -- | -- |
| 03/14/05[11] | 95.84 | 86.94 | 8.90 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 0.8 | <50 | -- | -- | -- |
| 06/13/05[11] | 95.84 | 85.37 | 10.47 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | -- | -- | -- |
| 09/12/05[11] | 95.84 | 85.16 | 10.68 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 1 | <50 | -- | -- | -- |
| 12/12/05[11] | 95.84 | 86.15 | 9.69 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 1 | <50 | -- | -- | -- |
| 03/13/06[11] | 95.84 | 87.16 | 8.68 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 1 | <50 | -- | -- | -- |
| 06/12/06[11] | 95.84 | 85.03 | 10.81 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 0.7 | <50 | -- | -- | -- |
| 09/11/06[11] | 95.84 | 84.80 | 11.04 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 0.6 | <50 | -- | -- | -- |
| 12/15/06[11] | 95.84 | 86.82 | 9.02 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 0.7 | <50 | -- | -- | -- |
| 03/16/07[11] | 95.84 | 86.06 | 9.78 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 1 | <50 | -- | -- | -- |
| 06/15/07[11] | 95.84 | 84.99 | 10.85 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 0.7 | <50 | -- | -- | -- |
| 09/14/07[11] | 95.84 | 85.71 | 10.13 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 0.9 | <50 | -- | -- | -- |
| 12/07/07[11] | 95.84 | 85.39 | 10.45 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | -- | -- | -- |
| 03/07/08[11] | 95.84 | 85.75 | 10.09 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 0.9 | <50 | -- | -- | -- |
| 06/06/08[11] | 95.84 | 84.79 | 11.05 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 0.7 | <50 | -- | -- | -- |
| 09/05/08[11] | 95.84 | 84.66 | 11.18 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 0.8 | <50 | -- | -- | -- |
| 12/15/08[11] | 95.84 | 84.58 | 11.26 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 0.9 | <50 | -- | -- | -- |
| 03/16/09[11] | 95.84 | 86.33 | 9.51 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 2 | <50 | -- | -- | -- |
| 06/15/09[11] | 95.84 | 84.82 | 11.02 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | <50 | -- | -- | -- |
| 11/30/09[11] | 95.84 | 84.98 | 10.86 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 0.8 | <50 | -- | -- | -- |
| **06/07/10[11]** | **95.84** | **85.34** | **10.50** | **--** | **<50** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<50** | **--** | **--** | **--** |

# Table 1

## Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-9708

5910 MacArthur Boulevard

Oakland, California

| WELL ID/ DATE | TOC* (ft.) | GWE (msl) | DTW (ft.) | TPH-DRO (µg/L) | TPH-GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE (µg/L) | ETHANOL (µg/L) | 1,2-DCB♦ (µg/L) | 1,2-DCA♦ (µg/L) | HVOCs♦ (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TRIP BLANK** | | | | | | | | | | | | | | |
| 06/04/97 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | -- | -- | -- |
| 09/16/97 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | -- | -- | -- |
| 12/17/97 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| 03/18/98 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| 06/28/98 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| 09/07/98 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| 09/07/98 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| 12/29/98 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.0 | -- | -- | -- | -- |
| 03/11/99 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.0 | -- | -- | -- | -- |
| 05/04/99 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| 06/29/99 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- | -- | -- | -- |
| 09/29/99 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| 12/08/99 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| 03/01/00 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | -- | -- |
| 06/23/00 | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | -- | -- | -- | -- |
| 09/30/00 | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | -- | -- | -- | -- |
| 12/08/00 | -- | -- | -- | -- | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | -- | -- | -- | -- |
| 03/01/01 | -- | -- | -- | -- | <50.0 | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | -- | -- | -- | -- |
| 06/19/01 | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | -- | -- | -- | -- |
| 09/18/01 | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| **QA** | | | | | | | | | | | | | | |
| 12/26/01 | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| 03/06/02 | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| 06/21/02 | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| 09/27/02 | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 | -- | -- | -- | -- |
| 12/26/02 | -- | -- | -- | -- | <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 | -- | -- | -- | -- |
| 06/16/03[11] | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- |
| 09/15/03[11] | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- |
| 12/15/03[11] | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- |
| 03/05/04[11] | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- |
| 06/18/04[11] | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- |
| 09/17/04[11] | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- |
| 12/17/04[11] | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- |
| 03/14/05[11] | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- |
| 06/13/05[11] | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- |

# Table 1

## Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-9708

5910 MacArthur Boulevard

Oakland, California

| WELL ID/ DATE | TOC* (ft.) | GWE (msl) | DTW (ft.) | TPH-DRO (µg/L) | TPH-GRO (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | MTBE (µg/L) | ETHANOL (µg/L) | 1,2-DCB♦ (µg/L) | 1,2-DCA♦ (µg/L) | HVOCs♦ (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **QA (cont)** | | | | | | | | | | | | | | |
| 09/12/05[11] | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- |
| 12/12/05[11] | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- |
| 03/13/06[11] | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- |
| 06/12/06[11] | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- |
| 09/11/06[11] | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- |
| 12/15/06[11] | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- |
| 03/16/07[11] | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- |
| 06/15/07[11] | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- |
| 09/14/07[11] | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- |
| 12/07/07[11] | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- |
| 03/07/08[11] | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- |
| 06/06/08[11] | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- |
| 09/05/08[11] | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- |
| 12/15/08[11] | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- |
| 03/16/09[11] | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- |
| 06/15/09[11] | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- |
| 11/30/09[11] | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- |
| **06/07/10[11]** | **--** | **--** | **--** | **--** | **<50** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **--** | **--** | **--** | **--** |

# Table 1

## Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-9708
5910 MacArthur Boulevard
Oakland, California

**EXPLANATIONS:**

Groundwater monitoring data and laboratory analytical results prior to June 23, 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
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl Tertiary Butyl Ether
1,2-DCB = 1,2-Dichlorobenzene
1,2-DCA = 1,2-Dichloroethane
(µg/L) = Micrograms per liter
(ppb) = Parts per billion
HVOC = Halogenated Volatile Organic Compounds
ND = Not Detected
-- = Not Measured/Not Analyzed
QA = Quality Assurance/Trip Blank

* TOC elevations were surveyed in February 2002, by Morrow Surveying. Elevations are based on City of Oakland Benchmark; a standard city of Oakland disc stamped "SEC 50 STA F" set under a standard casting on the monument line of Camden Street and 72 feet westerly of the monument at Seminary and Camden, (Elevation = 90.63 feet).

♦ Analysis by EPA Method 8010.

**NOTE: All other VOC concentrations were below detection limits.**

1 Chromatogram pattern indicates an unidentified hydrocarbon.
2 Confirmation run.
3 Sample also analyzed for the following: Total Oil & Grease by EPA Method 5520F was ND; Semivolatile Organics by EPA Method 8270B were ND; Volatile Organics by EPA Method 8010B were ND.
4 Laboratory report indicates gasoline C6-C12.
5 Laboratory report indicates unidentified hydrocarbons >C16.
6 Laboratory report indicates unidentified hydrocarbons C9-C24.
7 Laboratory report indicates unidentified hydrocarbons C6-C12.
8 Volatile Organic Compounds (VOCs) by EPA Method 8260.
9 Well development performed.
10 Laboratory report indicates the observed sample pattern is not typical of diesel/#2 fuel oil.
11 BTEX and MTBE analyzed by EPA Method 8260.
12 Laboratory report indicates the observed sample pattern includes #2 fuel/diesel and an additional pattern which elutes later in the DRO range.
13 Laboratory report indicates Chloroform at 7 ppb.
14 Analyzed with Silica Gel cleanup.