**Environmental Management Company**
6001 Bollinger Canyon Rd, K2256
P.O. Box 6012
San Ramon, CA 94583-2324
Tel 925-842-1589
Fax 925-842-8370

**Karen Streich**
Project Manager

RO2955

**ChevronTexaco**

February 25, 2005

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



Re: Chevron Service Station #9-3600

Address: 2200 Telegraph Ave., Oakland, California

I have reviewed the attached routine groundwater monitoring report dated February 8, 2005.

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

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

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

Sincerely,

Karen Streich

Karen Streich
Project Manager

Enclosure: Report

# GETTLER-RYAN INC.

## TRANSMITTAL

February 8, 2005
G-R #386895

TO: Mr. Robert Foss
Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Emeryville, California 94608

CC: Ms. Karen Streich
ChevronTexaco Company
P.O. Box 6012, Room K2256
San Ramon, California 94583

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

**RE: Chevron Service Station**
**#9-3600**
**2200 Telegraph Avenue**
**Oakland, California**
**RO 0002435**

WE HAVE ENCLOSED THE FOLLOWING:

| COPIES | DATED | DESCRIPTION |
|---|---|---|
| 1 | February 8, 2005 | Groundwater Monitoring and Sampling Report<br>First Quarter - Event of January 4, 2005 |

COMMENTS:

This report is being sent for your review. Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to ***February 24, 2005***, at which time the final report will be distributed to the following:

cc: Mr. Barney Chan, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577
Mr. Yichin Hwang, (Property Owner), 2200 Telegraph Avenue, Oakland, CA 94612

Enclosures

trans/9-3600-ks

# GETTLER-RYAN INC.

February 8, 2005
G-R Job #386895

Ms. Karen Streich
ChevronTexaco Company
P.O. Box 6012, Room K2256
San Ramon, CA 94583

**RE: First Quarter Event of January 4, 2005**
Groundwater Monitoring & Sampling Report
Chevron Service Station #9-3600
2200 Telegraph Avenue
Oakland, California

Dear Ms. Streich:

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

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

Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. The chain of custody document and laboratory analytical report are also attached.

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

Sincerely,

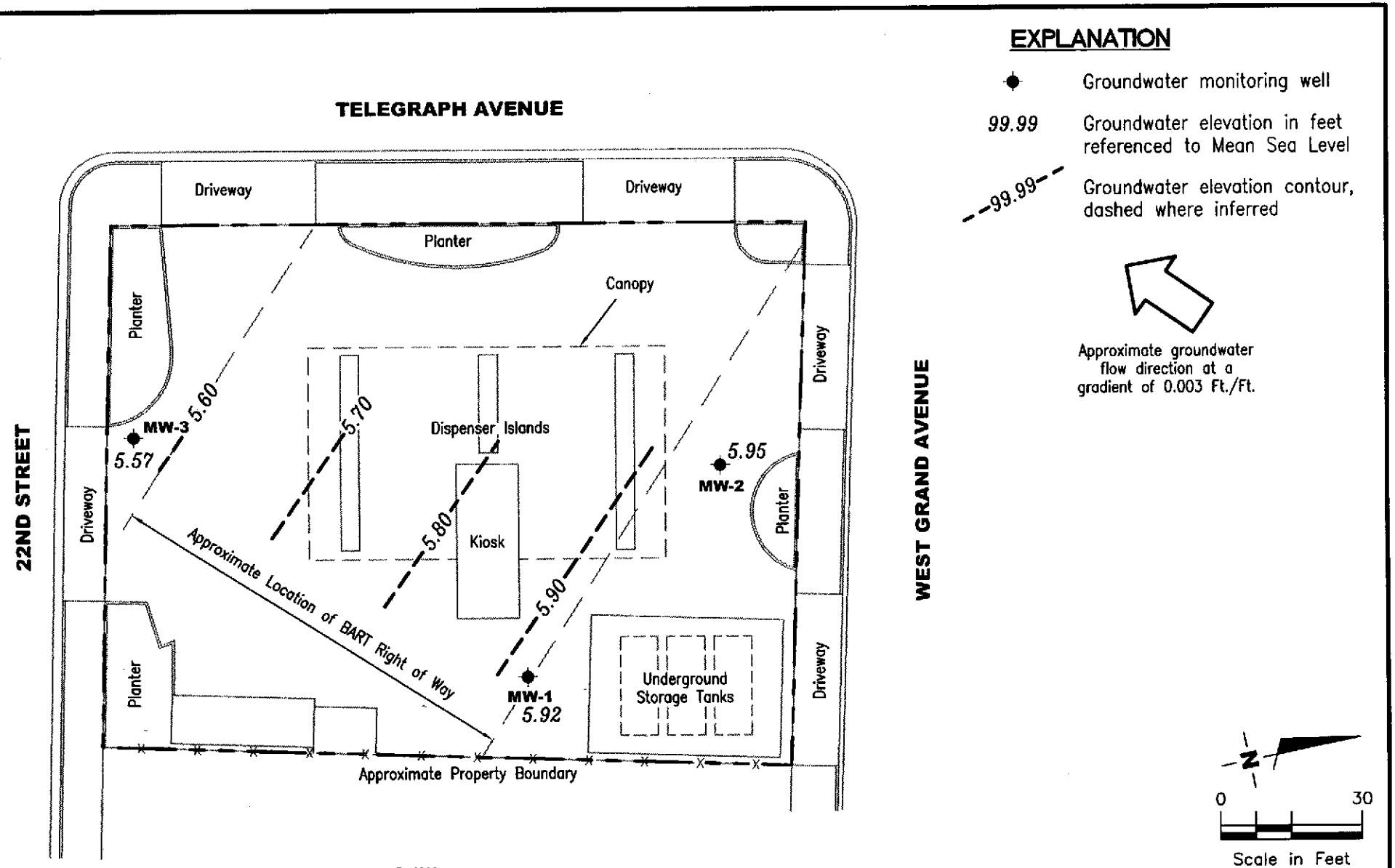
Deanna L. Harding
Project Coordinator

REGISTERED GEOLOGIST • ROBERT A. LAURITZEN • No. 7504 • STATE OF CALIFORNIA

Robert A. Lauritzen
Senior Geologist, R.G. No. 7504

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

6747 Sierra Court, Suite J • **Dublin**, CA 94568 • (925) 551-7555 • Fax (925) 551-7888
3140 Gold Camp Drive, Suite 170 • **Rancho Cordova**, CA 95670 • (916) 631-1300 • Fax (916) 631-1317
1364 N. McDowell Blvd., Suite B2 • **Petaluma**, CA 94954 • (707) 789-3255 • Fax (707) 789-3218




Source: Figure modified from drawing provided by Morrow Surveying April 17, 2002

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

**POTENTIOMETRIC MAP**
Chevron Service Station #9-3600
2200 Telegraph Avenue
Oakland, California

FIGURE
1

| PROJECT NUMBER | REVIEWED BY | DATE | REVISED DATE |
|---|---|---|---|
| 386895 | | January 4, 2005 | |

FILE NAME: P:\Enviro\Chevron\9-3600\005-9-3600.dwg | Layout Tab: Pot1

# Table 1

## Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-3600
2200 Telegraph Avenue
Oakland, California

| WELL ID/ DATE | TOC* (ft.) | DTW (ft.) | GWE (ft.) | TPH-G (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | MTBE (ppb) |
|---|---|---|---|---|---|---|---|---|---|
| **MW-1** | | | | | | | | | |
| 04/05/02[1] | 17.07 | 11.68 | 5.39 | 2,000 | 5.0 | <1.0 | 14 | 8.4 | 310/370[2] |
| 07/01/02 | 17.07 | 12.01 | 5.06 | 2,000 | 8.9 | <1.0 | 97 | 31 | 370/420[2] |
| 10/08/02 | 17.07 | 12.20 | 4.87 | 1,400 | 9.2 | <10 | 75 | 20 | 440/360[2] |
| 01/11/03 | 17.07 | 11.13 | 5.94 | 1,600 | 7.1 | 0.51 | 53 | 13 | 280/270[2] |
| 04/01/03 | 17.07 | 11.53 | 5.54 | 1,800 | 5.2 | 0.6 | 25 | 9.1 | 210/210[2] |
| 07/01/03[3] | 17.07 | 11.95 | 5.12 | 2,000 | 4 | <0.5 | 31 | 12 | 170 |
| 10/02/03[3] | 17.07 | 12.25 | 4.82 | 480 | <5 | <5 | <5 | <5 | 9,800 |
| 01/05/04[3] | 17.07 | 11.05 | 6.02 | 1,700 | 3 | <0.5 | 27 | 4 | 140 |
| 04/05/04[3] | 17.07 | 11.63 | 5.44 | 1,500 | 2 | <0.5 | 21 | 0.6 | 120 |
| 07/01/04[3] | 17.07 | 12.08 | 4.99 | 1,500 | 1 | <0.5 | 3 | <0.5 | 130 |
| 10/05/04[3] | 17.07 | 12.21 | 4.86 | 1,400 | <0.5 | <0.5 | 1 | 0.5 | 130 |
| **01/04/05[3]** | **17.07** | **11.15** | **5.92** | **1,500** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** |
| **MW-2** | | | | | | | | | |
| 04/05/02[1] | 16.82 | 11.17 | 5.65 | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5/<2[2] |
| 07/01/02 | 16.82 | 11.36 | 5.46 | <50 | <0.50 | 0.57 | 0.52 | <1.5 | <2.5/<2[2] |
| 10/08/02 | 16.82 | 11.57 | 5.25 | <100 | <2.0 | <2.0 | <2.0 | <5.0 | <10/<2[2] |
| 01/11/03 | 16.82 | 10.94 | 5.88 | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5/<2[2] |
| 04/01/03 | 16.82 | 11.03 | 5.79 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | <2.5/<0.5[2] |
| 07/01/03[3] | 16.82 | 11.30 | 5.52 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 10/02/03[3] | 16.82 | 11.63 | 5.19 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 01/05/04[3] | 16.82 | 10.82 | 6.00 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 04/05/04[3] | 16.82 | 11.21 | 5.61 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 07/01/04[3] | 16.82 | 11.46 | 5.36 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 10/05/04[3] | 16.82 | 11.57 | 5.25 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **01/04/05[3]** | **16.82** | **10.87** | **5.95** | **<50** | **0.5** | **<0.5** | **8** | **0.9** | **87** |

# Table 1

## Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-3600
2200 Telegraph Avenue
Oakland, California

| WELL ID/ DATE | TOC* (ft.) | DTW (ft.) | GWE (ft.) | TPH-G (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | MTBE (ppb) |
|---|---|---|---|---|---|---|---|---|---|
| **MW-3** | | | | | | | | | |
| 04/05/02[1] | 16.52 | 11.29 | 5.23 | <50 | <0.50 | 0.59 | <0.50 | <1.5 | <2.5/<2[2] |
| 07/01/02 | 16.52 | 11.55 | 4.97 | <50 | <0.50 | 0.60 | <0.50 | <1.5 | <2.5/<2[2] |
| 10/08/02 | 16.52 | 11.62 | 4.90 | <100 | <2.0 | <2.0 | <2.0 | <5.0 | <10/<2[2] |
| 01/11/03 | 16.52 | 11.09 | 5.43 | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5/<2[2] |
| 04/01/03 | 16.52 | 11.25 | 5.27 | <50 | <0.5 | <0.5 | <0.5 | <1.5 | <2.5/<0.5[2] |
| 07/01/03[3] | 16.52 | 11.42 | 5.10 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 2 |
| 10/02/03[3] | 16.52 | 11.74 | 4.78 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 01/05/04[3] | 16.52 | 11.06 | 5.46 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 04/05/04[3] | 16.52 | 11.40 | 5.12 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 0.6 |
| 07/01/04[3] | 16.52 | 11.58 | 4.94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 0.8 |
| 10/05/04[3] | 16.52 | 11.60 | 4.92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **01/04/05[3]** | **16.52** | **10.95** | **5.57** | **<50** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** |
| **TRIP BLANK** | | | | | | | | | |
| **QA** | | | | | | | | | |
| 04/05/02 | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 |
| 07/01/02 | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 |
| 10/08/02 | -- | -- | -- | <100 | <2.0 | <2.0 | <2.0 | <5.0 | <10 |
| 01/11/03 | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | <2.5 |
| 04/01/03 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 |
| 07/01/03[3] | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 10/02/03[3] | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 01/05/04[3] | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 04/05/04[3] | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 07/01/04[3] | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 10/05/04[3] | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **01/04/05[3]** | -- | -- | -- | **<50** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** |

# Table 1

## Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-3600
2200 Telegraph Avenue
Oakland, California

**EXPLANATIONS:**

TOC = Top of Casing
(ft.) = Feet
DTW = Depth to Water
GWE = Groundwater Elevation
TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl tertiary butyl ether

(ppb) = Parts per billion
-- = Not Measured/Not Analyzed
QA = Quality Assurance/Trip Blank

* TOC elevations were surveyed on April 17, 2002, by Morrow Surveying. The elevations are based on a City of Oakland Benchmark No. 37JC, (Benchmark Elevation = 17.68 Feet).

[1] Well development performed.

[2] MTBE by EPA Method 8260.

[3] BTEX and MTBE by EPA Method 8260.

# Table 2

## Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-3600
2200 Telegraph Avenue
Oakland, California

| WELL ID | DATE | ETHANOL (ppb) | TBA (ppb) | MTBE (ppb) | DIPE (ppb) | ETBE (ppb) | TAME (ppb) |
|---|---|---|---|---|---|---|---|
| MW-1 | 04/05/02 | -- | 200 | 370 | <2 | <2 | 10 |
| | 07/01/02 | -- | 190 | 420 | <2 | <2 | 9 |
| | 10/08/02 | -- | 110 | 360 | <2 | <2 | 8 |
| | 01/11/03 | -- | <100 | 270 | <2 | <2 | 7 |
| | 04/01/03 | -- | 22 | 210 | <0.5 | <0.5 | 5 |
| | 07/01/03 | <50 | 26 | 170 | <0.5 | <0.5 | 5 |
| | 10/02/03 | <500 | 2,600 | 9,800 | <5 | <5 | 6 |
| | 01/05/04 | <50 | 21 | 140 | <0.5 | <0.5 | 3 |
| | 04/05/04 | <50 | 17 | 120 | <0.5 | <0.5 | 3 |
| | 07/01/04 | <50 | 13 | 130 | <0.5 | <0.5 | 2 |
| | 10/05/04 | <50 | 14 | 130 | <0.5 | <0.5 | 2 |
| | **01/04/05** | **<50** | **<5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** |
| MW-2 | 04/05/02 | -- | <100 | <2 | <2 | <2 | <2 |
| | 07/01/02 | -- | <100 | <2 | <2 | <2 | <2 |
| | 10/08/02 | -- | <100 | <2 | <2 | <2 | <2 |
| | 01/11/03 | -- | <100 | <2 | <2 | <2 | <2 |
| | 04/01/03 | -- | <5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 07/01/03 | <50 | <5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 10/02/03 | <50 | <5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 01/05/04 | <50 | <5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 04/05/04 | <50 | <5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 07/01/04 | <50 | <5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 10/05/04 | <50 | <5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | **01/04/05** | **<50** | **14** | **87** | **<0.5** | **<0.5** | **2** |
| MW-3 | 04/05/02 | -- | <100 | <2 | <2 | <2 | <2 |
| | 07/01/02 | -- | <100 | <2 | <2 | <2 | <2 |
| | 10/08/02 | -- | <100 | <2 | <2 | <2 | <2 |
| | 01/11/03 | -- | <100 | <2 | <2 | <2 | <2 |

# Table 2

## Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-3600
2200 Telegraph Avenue
Oakland, California

| WELL ID | DATE | ETHANOL (ppb) | TBA (ppb) | MTBE (ppb) | DIPE (ppb) | ETBE (ppb) | TAME (ppb) |
|---|---|---|---|---|---|---|---|
| MW-3 | 04/01/03 | -- | <5 | <0.5 | <0.5 | <0.5 | <0.5 |
| (cont) | 07/01/03 | <50 | <5 | 2 | <0.5 | <0.5 | <0.5 |
| | 10/02/03 | <50 | <5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 01/05/04 | <50 | <5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 04/05/04 | <50 | <5 | 0.6 | <0.5 | <0.5 | <0.5 |
| | 07/01/04 | <50 | <5 | 0.8 | <0.5 | <0.5 | <0.5 |
| | 10/05/04 | <50 | <5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | **01/04/05** | **<50** | **<5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** |

# Table 2

**Groundwater Analytical Results - Oxygenate Compounds**

Chevron Service Station #9-3600

2200 Telegraph Avenue

Oakland, California

**EXPLANATIONS:**

TBA = Tertiary butyl alcohol

MTBE = Methyl tertiary butyl ether

DIPE = Di-isopropyl ether

ETBE = Ethyl tertiary butyl ether

TAME = Tertiary amyl methyl ether

(ppb) = Parts per billion

-- = Not Analyzed

**ANALYTICAL METHOD:**

EPA Method 8260 for Oxygenate Compounds

# STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

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

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

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

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

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

As requested by ChevronTexaco Company, the purge water and decontamination water generated during sampling activities is transported by IWM to McKittrick Waste Management located in McKittrick, California.

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-3600 Job Number: 386895
Site Address: 2200 Telegraph Avenue Event Date: 1-4-05 (inclusive)
City: Oakland, CA Sampler: Joe

Well ID MW-1 Date Monitored: 1-4-05 Well Condition: OK
Well Diameter 2 in.
Total Depth 20.28 ft.
Depth to Water 11.15 ft.

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

9.13 xVF 0.17 = 1.55 x3 case volume= Estimated Purge Volume: 5 gal.

**Purge Equipment:**
Disposable Bailer ✓
Stainless Steel Bailer
Stack Pump
Suction Pump
Grundfos
Other:

**Sampling Equipment:**
Disposable Bailer ✓
Pressure Bailer
Discrete Bailer
Other:

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: 0 ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed: gal
Product Transferred to:

Start Time (purge): 1102 Weather Conditions: Cloudy
Sample Time/Date: 1125 / 1-4-05 Water Color: clear Odor: yes
Purging Flow Rate: 0.5 gpm. Sediment Description:
Did well de-water? If yes, Time: Volume: gal.

| Time (2400 hr.) | Volume (gal.) | pH | Conductivity (umhos/cm) X 1000 | Temperature (C/F) | D.O. (mg/L) | ORP (mV) |
|---|---|---|---|---|---|---|
| 1109 | 1.5 | 6.50 | 1.11 | 64.2 | | |
| 1113 | 3 | 6.52 | 0.89 | 69.6 | | |
| 1117 | 5 | 6.52 | 0.93 | 69.6 | | |
| | | | | | | |
| | | | | | | |

**LABORATORY INFORMATION**

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW-1 | 6 x voa vial | YES | HCL | LANCASTER | TPH-G(8015)/BTEX+MTBE(8260)/ 5 OXYS+ETHANOL(8260) |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS:

Add/Replaced Lock: Add/Replaced Plug: Size:

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-3600 Job Number: 386895
Site Address: 2200 Telegraph Avenue Event Date: 1-4-05 (inclusive)
City: Oakland, CA Sampler: Joe

Well ID MW-2 Date Monitored: 1-4-05 Well Condition: O.K.
Well Diameter 2 in.
Total Depth 20.26 ft.
Depth to Water 10.87 ft.

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

9.39 xVF 0.17 = 1.60 x3 case volume= Estimated Purge Volume: 5 gal.

**Purge Equipment:**
Disposable Bailer ✓
Stainless Steel Bailer
Stack Pump
Suction Pump
Grundfos
Other:

**Sampling Equipment:**
Disposable Bailer ✓
Pressure Bailer
Discrete Bailer
Other:

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: 0 ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed: gal
Product Transferred to:

Start Time (purge): 1033 Weather Conditions: cloudy
Sample Time/Date: 1055 / 1-4-05 Water Color: clear Odor: none
Purging Flow Rate: 0.5 gpm. Sediment Description:
Did well de-water? If yes, Time: Volume: gal.

| Time (2400 hr.) | Volume (gal.) | pH | Conductivity (µmhos/cm) x 100 | Temperature (C/F) | D.O. (mg/L) | ORP (mV) |
|---|---|---|---|---|---|---|
| 1040 | 1.5 | 7.73 | 4.30 | 65.0 | | |
| 1044 | 3 | 7.69 | 3.78 | 64.7 | | |
| 1048 | 5 | 7.64 | 3.82 | 64.4 | | |
| | | | | | | |
| | | | | | | |

### LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW-2 | 6 x voa vial | YES | HCL | LANCASTER | TPH-G(8015)/BTEX+MTBE(8260)/ 5 OXYS+ETHANOL(8260) |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS:

Add/Replaced Lock: Add/Replaced Plug: Size:

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-3600 Job Number: 386895
Site Address: 2200 Telegraph Avenue Event Date: 1-4-05 (inclusive)
City: Oakland, CA Sampler: Joe

Well ID MW-3 Date Monitored: 1-4-05 Well Condition: o.k.
Well Diameter 2 in.
Total Depth 20.21 ft.
Depth to Water 10.95 ft.

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

9.76 xVF 0.17 = 1.57 x3 case volume= Estimated Purge Volume: 5 gal.

**Purge Equipment:**
Disposable Bailer ✓
Stainless Steel Bailer
Stack Pump
Suction Pump
Grundfos
Other:

**Sampling Equipment:**
Disposable Bailer ✓
Pressure Bailer
Discrete Bailer
Other:

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: 0 ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed: gal
Product Transferred to:

Start Time (purge): 1000 Weather Conditions: Cloudy
Sample Time/Date: 1025 / 1-4-05 Water Color: Clear Odor: none
Purging Flow Rate: 0.5 gpm. Sediment Description:
Did well de-water? If yes, Time: Volume: gal.

| Time (2400 hr.) | Volume (gal.) | pH | Conductivity (umhos/cm) x 10^0 | Temperature (C/F) | D.O. (mg/L) | ORP (mV) |
|---|---|---|---|---|---|---|
| 1008 | 1.5 | 7.49 | 3.22 | 64.6 | | |
| 1012 | 3 | 7.49 | 3.18 | 64.1 | | |
| 1017 | 5 | 7.50 | 3.16 | 64.3 | | |
| | | | | | | |
| | | | | | | |

**LABORATORY INFORMATION**

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW-3 | 6 x voa vial | YES | HCL | LANCASTER | TPH-G(8015)/BTEX+MTBE(8260)/ 5 OXYS+ETHANOL(8260) |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS:

Add/Replaced Lock: Add/Replaced Plug: Size:

# Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
*Where quality is a science.*

Acct. #: 10904 For Lancaster Laboratories use only Sample #: 444319 9-202 SCR#: 927563

100605-04

Facility #: SS#9-3600 G-R#386895 Global ID#T0600161613
Site Address: 3200 TELEGRAPH AVENUE, OAKLAND, CA
Chevron PM: S Lead Consultant: CAMBRIA
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
Service Order #: ☐ Non SAR:

| Sample Identification | Date Collected | Time Collected | Grab | Composite | Matrix: Soil | Matrix: Water | Matrix: Oil | Matrix: Potable / NPDES / Air | Total Number of Containers | Preservation Codes | Analyses Requested: BTEX + MTBE 8260 ☒ 8021 ☐ | TPH 8015 MOD GRO | TPH 8015 MOD DRO ☐ Silica Gel Cleanup | 8260 full scan | 5 Oxygenates (8260) | Lead 7420 ☐ 7421 ☐ | Ethanol (8260) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QA | — | — | ✓ | | | ✓ | | | 2 | H | ✓ | ✓ | | | | | |
| MW-1 | 1-4-05 | 1125 | " | | | " | | | 6 | H | ✓ | ✓ | | | ✓ | | ✓ |
| MW-2 | " | 1055 | " | | | " | | | 6 | H | ✓ | ✓ | | | ✓ | | ✓ |
| MW-3 | " | 1025 | " | | | " | | | 6 | H | ✓ | ✓ | | | ✓ | | ✓ |

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

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

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

**Comments / Remarks**

**Turnaround Time Requested (TAT)** (please circle)
STD. TAT 72 hour 48 hour
24 hour 4 day 5 day

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

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: | 1-4-05 | 1325 | Received by: | | |
| Relinquished by: | 1/4/05 | 1355 | Received by: | 1/6/05 | 1355 |
| Relinquished by: | 1/6/05 | 1530 | Received by: DHL | 1/6/05 | |
| Relinquished by Commercial Carrier: UPS FedEx Other | | | Received by: | 1/8/05 | 0915 |
| Temperature Upon Receipt 20 C° | | | Custody Seals Intact? Yes No | | |

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# Analysis Report

ANALYTICAL RESULTS

Prepared for:

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

925-842-8582

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 927563. Samples arrived at the laboratory on Saturday, January 08, 2005. The PO# for this group is 99011184 and the release number is STREICH.

| Client Description | | | Lancaster Labs Number |
|---|---|---|---|
| QA-T-050104 | NA | Water | 4443199 |
| MW-1-W-050104 | Grab | Water | 4443200 |
| MW-2-W-050104 | Grab | Water | 4443201 |
| MW-3-W-050104 | Grab | Water | 4443202 |

| | | |
|---|---|---|
| 1 COPY TO | Cambria C/O Gettler- Ryan | Attn: Deanna L. Harding |
| ELECTRONIC COPY TO | Gettler-Ryan | Attn: Cheryl Hansen |

Lancaster Laboratories

# Analysis Report

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Questions? Contact your Client Services Representative
Megan A Moeller at (717) 656-2300.

Respectfully Submitted,

Dana M Kauffman

Dana M. Kauffman
Group Leader

Lancaster Laboratories

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# Analysis Report



**Lancaster Laboratories Sample No. WW 4443199**

**QA-T-050104 NA Water**
**Facility# 93600 Job# 386895 GRD**
**2200 Telegraph Av-Oakland T0600161613 QA**
Collected:01/04/2005

Account Number: 10904

Submitted: 01/08/2005 09:15
Reported: 01/18/2005 at 13:13
Discard: 02/18/2005

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

TAOQA

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 01728 | TPH-GRO - Waters | n.a. | N.D. | 50. | ug/l | 1 |
| | The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. | | | | | |
| 06054 | BTEX+MTBE by 8260B | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.5 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.5 | ug/l | 1 |
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.5 | ug/l | 1 |

State of California Lab Certification No. 2116

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 01728 | TPH-GRO - Waters | N. CA LUFT Gasoline Method | 1 | 01/10/2005 18:24 | Brian C Veety | 1 |
| 06054 | BTEX+MTBE by 8260B | SW-846 8260B | 1 | 01/11/2005 02:33 | Dawn M Harle | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 01/10/2005 18:24 | Brian C Veety | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 01/11/2005 02:33 | Dawn M Harle | n.a. |

Lancaster Laboratories

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# Analysis Report



**Lancaster Laboratories Sample No. WW 4443200**

**MW-1-W-050104 Grab Water**
**Facility# 93600 Job# 386895 GRD**
**2200 Telegraph Av-Oakland T0600161613 MW-1**
Collected:01/04/2005 11:25 by JA

Account Number: 10904

Submitted: 01/08/2005 09:15
Reported: 01/18/2005 at 13:13
Discard: 02/18/2005

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

TAO01

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 01728 | TPH-GRO - Waters | n.a. | 1,500. | 250. | ug/l | 5 |
| | The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. | | | | | |
| 06059 | BTEX+5 Oxygenates+ETOH | | | | | |
| 01587 | Ethanol | 64-17-5 | N.D. | 50. | ug/l | 1 |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 02011 | di-Isopropyl ether | 108-20-3 | N.D. | 0.5 | ug/l | 1 |
| 02013 | Ethyl t-butyl ether | 637-92-3 | N.D. | 0.5 | ug/l | 1 |
| 02014 | t-Amyl methyl ether | 994-05-8 | N.D. | 0.5 | ug/l | 1 |
| 02015 | t-Butyl alcohol | 75-65-0 | N.D. | 5. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.5 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.5 | ug/l | 1 |
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.5 | ug/l | 1 |

State of California Lab Certification No. 2116

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 01728 | TPH-GRO - Waters | N. CA LUFT Gasoline Method | 1 | 01/10/2005 21:46 | Brian C Veety | 5 |
| 06059 | BTEX+5 Oxygenates+ETOH | SW-846 8260B | 1 | 01/17/2005 19:52 | Anita M Dale | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 01/10/2005 21:46 | Brian C Veety | 5 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 01/17/2005 19:52 | Anita M Dale | n.a. |

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# Analysis Report

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**Lancaster Laboratories Sample No. WW 4443201**

**MW-2-W-050104 Grab Water**
**Facility# 93600 Job# 386895 GRD**
**2200 Telegraph Av-Oakland T0600161613 MW-2**
Collected:01/04/2005 10:55 by JA

Account Number: 10904

Submitted: 01/08/2005 09:15
Reported: 01/18/2005 at 13:13
Discard: 02/18/2005

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

TAO02

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 01728 | TPH-GRO - Waters | n.a. | N.D. | 50. | ug/l | 1 |
| | The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. | | | | | |
| 06059 | BTEX+5 Oxygenates+ETOH | | | | | |
| 01587 | Ethanol | 64-17-5 | N.D. | 50. | ug/l | 1 |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | 87. | 0.5 | ug/l | 1 |
| 02011 | di-Isopropyl ether | 108-20-3 | N.D. | 0.5 | ug/l | 1 |
| 02013 | Ethyl t-butyl ether | 637-92-3 | N.D. | 0.5 | ug/l | 1 |
| 02014 | t-Amyl methyl ether | 994-05-8 | 2. | 0.5 | ug/l | 1 |
| 02015 | t-Butyl alcohol | 75-65-0 | 14. | 5. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | 0.5 | 0.5 | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.5 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | 8. | 0.5 | ug/l | 1 |
| 06310 | Xylene (Total) | 1330-20-7 | 0.9 | 0.5 | ug/l | 1 |

State of California Lab Certification No. 2116

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 01728 | TPH-GRO - Waters | N. CA LUFT Gasoline Method | 1 | 01/10/2005 18:53 | Brian C Veety | 1 |
| 06059 | BTEX+5 Oxygenates+ETOH | SW-846 8260B | 1 | 01/17/2005 20:13 | Anita M Dale | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 01/10/2005 18:53 | Brian C Veety | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 01/17/2005 20:13 | Anita M Dale | n.a. |

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# Analysis Report



**Lancaster Laboratories Sample No. WW 4443202**

**MW-3-W-050104 Grab Water**
**Facility# 93600 Job# 386895 GRD**
**2200 Telegraph Av-Oakland T0600161613 MW-3**
Collected:01/04/2005 10:25 by JA

Account Number: 10904

Submitted: 01/08/2005 09:15
Reported: 01/18/2005 at 13:13
Discard: 02/18/2005

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

TAO03

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 01728 | TPH-GRO - Waters | n.a. | N.D. | 50. | ug/l | 1 |
| | The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. | | | | | |
| 06059 | BTEX+5 Oxygenates+ETOH | | | | | |
| 01587 | Ethanol | 64-17-5 | N.D. | 50. | ug/l | 1 |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 02011 | di-Isopropyl ether | 108-20-3 | N.D. | 0.5 | ug/l | 1 |
| 02013 | Ethyl t-butyl ether | 637-92-3 | N.D. | 0.5 | ug/l | 1 |
| 02014 | t-Amyl methyl ether | 994-05-8 | N.D. | 0.5 | ug/l | 1 |
| 02015 | t-Butyl alcohol | 75-65-0 | N.D. | 5. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.5 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.5 | ug/l | 1 |
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.5 | ug/l | 1 |

State of California Lab Certification No. 2116

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 01728 | TPH-GRO - Waters | N. CA LUFT Gasoline Method | 1 | 01/10/2005 22:15 | Brian C Veety | 1 |
| 06059 | BTEX+5 Oxygenates+ETOH | SW-846 8260B | 1 | 01/17/2005 20:34 | Anita M Dale | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 01/10/2005 22:15 | Brian C Veety | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 01/17/2005 20:34 | Anita M Dale | n.a. |

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# Analysis Report



## Quality Control Summary

Client Name: ChevronTexaco
Reported: 01/18/05 at 01:13 PM

Group Number: 927563

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: 05010A08A | Sample number(s): 4443199,4443201 | | | | | | | |
| TPH-GRO - Waters | N.D. | 50. | ug/l | 107 | 110 | 70-130 | 3 | 30 |
| Batch number: 05010A08B | Sample number(s): 4443200,4443202 | | | | | | | |
| TPH-GRO - Waters | N.D. | 50. | ug/l | 107 | 110 | 70-130 | 3 | 30 |
| Batch number: Z050104AA | Sample number(s): 4443199 | | | | | | | |
| Methyl Tertiary Butyl Ether | N.D. | 0.5 | ug/l | 95 | | 77-127 | | |
| Benzene | N.D. | 0.5 | ug/l | 103 | | 85-117 | | |
| Toluene | N.D. | 0.5 | ug/l | 103 | | 85-115 | | |
| Ethylbenzene | N.D. | 0.5 | ug/l | 102 | | 82-119 | | |
| Xylene (Total) | N.D. | 0.5 | ug/l | 101 | | 83-113 | | |
| Batch number: Z050171AA | Sample number(s): 4443200-4443202 | | | | | | | |
| Ethanol | N.D. | 50. | ug/l | 92 | | 46-145 | | |
| Methyl Tertiary Butyl Ether | N.D. | 0.5 | ug/l | 100 | | 77-127 | | |
| di-Isopropyl ether | N.D. | 0.5 | ug/l | 105 | | 67-130 | | |
| Ethyl t-butyl ether | N.D. | 0.5 | ug/l | 101 | | 74-120 | | |
| t-Amyl methyl ether | N.D. | 0.5 | ug/l | 98 | | 79-113 | | |
| t-Butyl alcohol | N.D. | 5. | ug/l | 102 | | 57-141 | | |
| Benzene | N.D. | 0.5 | ug/l | 104 | | 85-117 | | |
| Toluene | N.D. | 0.5 | ug/l | 105 | | 85-115 | | |
| Ethylbenzene | N.D. | 0.5 | ug/l | 104 | | 82-119 | | |
| Xylene (Total) | N.D. | 0.5 | ug/l | 101 | | 83-113 | | |

## Sample Matrix Quality Control

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 05010A08A | Sample number(s): 4443199,4443201 | | | | | | | | |
| TPH-GRO - Waters | 114 | | 63-154 | | | | | | |
| Batch number: 05010A08B | Sample number(s): 4443200,4443202 | | | | | | | | |
| TPH-GRO - Waters | 114 | | 63-154 | | | | | | |
| Batch number: Z050104AA | Sample number(s): 4443199 | | | | | | | | |
| Methyl Tertiary Butyl Ether | 100 | 100 | 69-134 | 0 | 30 | | | | |
| Benzene | 113 | 113 | 83-128 | 0 | 30 | | | | |
| Toluene | 113 | 112 | 83-127 | 1 | 30 | | | | |
| Ethylbenzene | 111 | 112 | 82-129 | 1 | 30 | | | | |
| Xylene (Total) | 109 | 109 | 82-130 | 0 | 30 | | | | |

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

## Quality Control Summary

Client Name: ChevronTexaco
Reported: 01/18/05 at 01:13 PM

Group Number: 927563

### Sample Matrix Quality Control

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: Z050171AA | Sample number(s): 4443200-4443202 | | | | | | | | |
| Ethanol | 92 | 113 | 33-153 | 20 | 30 | | | | |
| Methyl Tertiary Butyl Ether | 99 | 97 | 69-134 | 1 | 30 | | | | |
| di-Isopropyl ether | 105 | 104 | 75-130 | 1 | 30 | | | | |
| Ethyl t-butyl ether | 100 | 99 | 78-119 | 1 | 30 | | | | |
| t-Amyl methyl ether | 97 | 95 | 77-117 | 1 | 30 | | | | |
| t-Butyl alcohol | 99 | 98 | 51-147 | 0 | 30 | | | | |
| Benzene | 104 | 105 | 83-128 | 1 | 30 | | | | |
| Toluene | 103 | 107 | 83-127 | 3 | 30 | | | | |
| Ethylbenzene | 104 | 107 | 82-129 | 3 | 30 | | | | |
| Xylene (Total) | 100 | 103 | 82-130 | 3 | 30 | | | | |

### Surrogate Quality Control

Analysis Name: TPH-GRO - Waters
Batch number: 05010A08A

| | Trifluorotoluene-F |
|---|---|
| 4443199 | 91 |
| 4443201 | 90 |
| Blank | 90 |
| LCS | 91 |
| LCSD | 91 |
| MS | 90 |
| Limits: | 57-146 |

Analysis Name: TPH-GRO - Waters
Batch number: 05010A08B

| | Trifluorotoluene-F |
|---|---|
| 4443200 | 92 |
| 4443202 | 85 |
| Blank | 90 |
| LCS | 91 |
| LCSD | 91 |
| MS | 90 |
| Limits: | 57-146 |

Analysis Name: BTEX+MTBE by 8260B
Batch number: Z050104AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---|---|---|---|---|
| 4443199 | 104 | 101 | 106 | 100 |
| Blank | 102 | 97 | 105 | 100 |
| LCS | 103 | 98 | 106 | 101 |
| MS | 103 | 97 | 106 | 101 |
| MSD | 102 | 99 | 105 | 101 |
| Limits: | 81-120 | 82-112 | 85-112 | 83-113 |

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

## Quality Control Summary

Client Name: ChevronTexaco
Group Number: 927563
Reported: 01/18/05 at 01:13 PM

### Surrogate Quality Control

Analysis Name: BTEX+5 Oxygenates+ETOH
Batch number: Z050171AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---|---|---|---|---|
| 4443200 | 102 | 103 | 106 | 102 |
| 4443201 | 103 | 103 | 105 | 105 |
| 4443202 | 102 | 101 | 105 | 102 |
| Blank | 100 | 98 | 105 | 100 |
| LCS | 100 | 100 | 105 | 102 |
| MS | 102 | 100 | 105 | 102 |
| MSD | 102 | 100 | 106 | 103 |
| Limits: | 81-120 | 82-112 | 85-112 | 83-113 |

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

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# Explanation of Symbols and Abbreviations

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

| | | | |
|---|---|---|---|
| **N.D.** | none detected | **BMQL** | Below Minimum Quantitation Level |
| **TNTC** | Too Numerous To Count | **MPN** | Most Probable Number |
| **IU** | International Units | **CP Units** | cobalt-chloroplatinate units |
| **umhos/cm** | micromhos/cm | **NTU** | nephelometric turbidity units |
| **C** | degrees Celsius | **F** | degrees Fahrenheit |
| **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 for methods listed on the laboratories' accreditation scope 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.