



# GETTLER - RYAN INC.

June 19, 2001  
G-R Job #386456

Mr. Thomas Bauhs  
Chevron Products Company  
P.O. Box 6004  
San Ramon, CA 94583

**RE: Second Quarter Event of May 7, 2001**  
Groundwater Monitoring & Sampling Report  
Chevron Service Station #9-0338  
5500 Telegraph Avenue  
Oakland, California

Dear Mr. Bauhs:

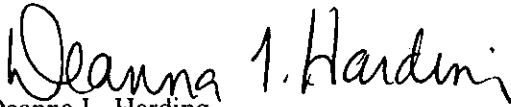
This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

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

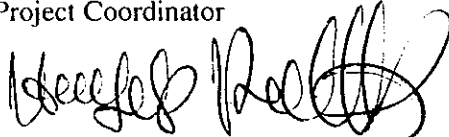
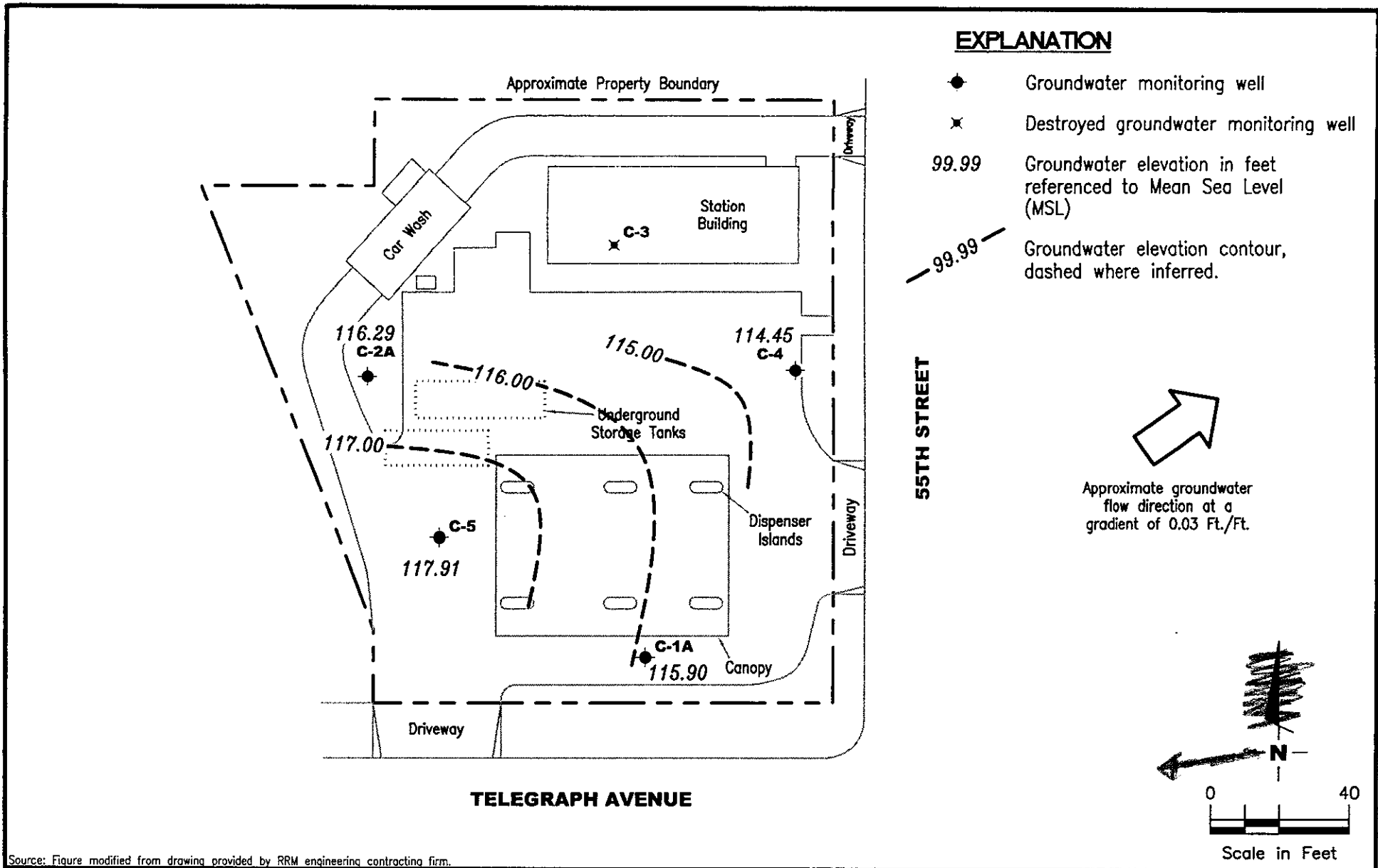
  
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P.E. No. C55734



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



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

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

**POTENTIOMETRIC MAP**  
 Chevron Service Station #9-0338  
 5500 Telegraph Avenue  
 Oakland, California

FIGURE  
**1**

PROJECT NUMBER  
**386456**

REVIEWED BY

DATE  
 May 7, 2001

REVISED DATE

FILE NAME: P:\ENVIRO\CHEVRON\9-0338\Q01-9-0338.DWG | Layout Tab: POT2

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-0338  
5500 Telegraph Avenue  
Oakland, California

| WELL ID/<br>DATE | TOC<br>(ft.)  | GWE<br>(msl)  | DTW<br>(ft.) | TPH-G<br>(ppb)           | B<br>(ppb)      | T<br>(ppb)      | E<br>(ppb)      | X<br>(ppb)      | MTBE<br>(ppb)          |
|------------------|---------------|---------------|--------------|--------------------------|-----------------|-----------------|-----------------|-----------------|------------------------|
| <b>C-1A</b>      |               |               |              |                          |                 |                 |                 |                 |                        |
| 05/27/99         | 123.27        | 115.93        | 7.34         | 9100                     | 40              | 25              | 560             | 1900            | 35                     |
| 09/02/99         | 123.27        | 115.72        | 7.55         | 9700                     | 24              | 18.4            | 626             | 754             | 66                     |
| 10/27/99         | 123.27        | 115.84        | 7.43         | 4740                     | <10             | <10             | 276             | 270             | <100/66.6 <sup>2</sup> |
| 02/11/00         | 123.27        | 115.27        | 8.00         | 5100                     | 17.5            | <10             | 182             | 333             | <50                    |
| 05/10/00         | 123.27        | 116.65        | 6.62         | 11,000 <sup>1</sup>      | 110             | 170             | 480             | 980             | <500                   |
| 07/27/00         | 123.27        | 115.14        | 8.13         | 6,200 <sup>1</sup>       | <50             | <50             | 540             | 150             | <250                   |
| 11/21/00         | 123.27        | 115.60        | 7.67         | 6,500 <sup>1</sup>       | 19              | <10             | 450             | 360             | <50                    |
| 02/05/01         | 123.27        | 115.91        | 7.36         | 5,270                    | 1.43            | 1.04            | 326             | 269             | 15.0                   |
| <b>05/07/01</b>  | <b>123.27</b> | <b>115.90</b> | <b>7.37</b>  | <b>3,000<sup>1</sup></b> | <b>37</b>       | <b>27</b>       | <b>520</b>      | <b>490</b>      | <b>63</b>              |
| <b>C-2A</b>      |               |               |              |                          |                 |                 |                 |                 |                        |
| 05/27/99         | 125.89        | 119.53        | 6.36         | <50                      | <0.5            | <0.5            | <0.5            | <0.5            | 44                     |
| 09/02/99         | 125.89        | 117.04        | 8.85         | <50                      | <0.5            | <0.5            | <0.5            | <0.5            | <2.5                   |
| 10/27/99         | 125.89        | 116.65        | 9.24         | <50                      | <0.5            | <0.5            | <0.5            | <0.5            | 8.75/7.77 <sup>2</sup> |
| 02/11/00         | 125.89        | 117.64        | 8.25         | <50                      | <0.5            | <0.5            | <0.5            | <0.5            | 17.8                   |
| 05/10/00         | 125.89        | 117.46        | 8.43         | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | 3.2                    |
| 07/27/00         | 125.89        | 116.34        | 9.55         | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | 20                     |
| 11/21/00         | 125.89        | 116.39        | 9.50         | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | <50                    |
| 02/05/01         | 125.89        | 116.50        | 9.39         | <50.0                    | <0.500          | <0.500          | <0.500          | <0.500          | 3.36                   |
| <b>05/07/01</b>  | <b>125.89</b> | <b>116.29</b> | <b>9.60</b>  | <b>&lt;50</b>            | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;2.5</b>         |
| <b>C-4</b>       |               |               |              |                          |                 |                 |                 |                 |                        |
| 05/27/99         | 125.40        | 115.34        | 10.06        | <50                      | <0.5            | <0.5            | <0.5            | <0.5            | 44                     |
| 09/02/99         | 125.40        | 114.89        | 10.51        | <50                      | <0.5            | <0.5            | <0.5            | <0.5            | 3.1                    |
| 10/27/99         | 125.40        | 115.03        | 10.37        | <50                      | <0.5            | <0.5            | <0.5            | <0.5            | <5.0/<2.0 <sup>2</sup> |
| 02/11/00         | 125.40        | 114.48        | 10.92        | <50                      | <0.5            | <0.5            | <0.5            | <0.5            | 2.79                   |
| 05/10/00         | 125.40        | 116.28        | 9.12         | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | <2.5                   |
| 07/27/00         | 125.40        | 113.50        | 11.90        | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | <2.5                   |
| 11/21/00         | 125.40        | 113.76        | 11.64        | <50                      | <0.50           | <0.50           | <0.50           | <0.50           | <2.5                   |
| 02/05/01         | 125.40        | 115.21        | 10.19        | <50.0                    | <0.500          | <0.500          | <0.500          | <0.500          | <2.50                  |
| <b>05/07/01</b>  | <b>125.40</b> | <b>114.45</b> | <b>10.95</b> | <b>&lt;50</b>            | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;2.5</b>         |

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-0338  
5500 Telegraph Avenue  
Oakland, California

| WELL ID/<br>DATE  | TOC<br>(ft.)  | GWE<br>(msl)  | DTW<br>(ft.) | TPH-G<br>(ppb)         | B<br>(ppb)      | T<br>(ppb)      | E<br>(ppb)      | X<br>(ppb)      | MTBE<br>(ppb)            |
|-------------------|---------------|---------------|--------------|------------------------|-----------------|-----------------|-----------------|-----------------|--------------------------|
| <b>C-5</b>        |               |               |              |                        |                 |                 |                 |                 |                          |
| 05/27/99          | 124.15        | 117.54        | 6.61         | 2800                   | 350             | 73              | 32              | 280             | 2,200/2,500 <sup>2</sup> |
| 09/02/99          | 124.15        | 116.27        | 7.88         | 570                    | 9.0             | <2.5            | <2.5            | <2.5            | 890                      |
| 10/27/99          | 124.15        | 116.90        | 7.25         | 543                    | 4.22            | <0.5            | 3.28            | <0.5            | 845/1,080 <sup>2</sup>   |
| 02/11/00          | 124.15        | 117.41        | 6.74         | 488                    | 0.56            | <0.5            | 1.45            | <0.5            | 565                      |
| 05/10/00          | 124.15        | 118.36        | 5.79         | 140 <sup>1</sup>       | 3.6             | 1.2             | 0.53            | 2.0             | 380                      |
| 07/27/00          | 124.15        | 116.92        | 7.23         | 260 <sup>1</sup>       | 1.4             | 1.2             | 0.93            | 2.8             | 460                      |
| 11/21/00          | 124.15        | 117.47        | 6.68         | 130 <sup>1</sup>       | 0.74            | 0.73            | <0.50           | <0.50           | 350                      |
| 02/05/01          | 124.15        | 117.74        | 6.41         | 111                    | <1.00           | <1.00           | <1.00           | <1.00           | 197                      |
| <b>05/07/01</b>   | <b>124.15</b> | <b>117.91</b> | <b>6.24</b>  | <b>100<sup>1</sup></b> | <b>2.1</b>      | <b>1.0</b>      | <b>&lt;0.50</b> | <b>0.80</b>     | <b>210</b>               |
| <b>TRIP BLANK</b> |               |               |              |                        |                 |                 |                 |                 |                          |
| 05/27/99          | --            | --            | --           | <50                    | <0.5            | <0.5            | <0.5            | <0.5            | <2.5                     |
| 09/02/99          | --            | --            | --           | <50                    | <0.5            | <0.5            | <0.5            | <0.5            | <2.5                     |
| 10/27/99          | --            | --            | --           | <50                    | <0.5            | <0.5            | <0.5            | <0.5            | <5.0                     |
| 02/11/00          | --            | --            | --           | <50                    | <0.5            | <0.5            | <0.5            | <0.5            | <2.5                     |
| 05/10/00          | --            | --            | --           | <50                    | <0.50           | <0.50           | <0.50           | <0.50           | <2.5                     |
| 07/27/00          | --            | --            | --           | <50                    | <0.50           | <0.50           | <0.50           | <0.50           | <2.5                     |
| 11/21/00          | --            | --            | --           | <50                    | <0.50           | <0.50           | <0.50           | <0.50           | <2.5                     |
| 02/05/01          | --            | --            | --           | <50.0                  | <0.500          | <0.500          | <0.500          | <0.500          | <2.50                    |
| <b>05/07/01</b>   | --            | --            | --           | <b>&lt;50</b>          | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;2.5</b>           |

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-0338  
5500 Telegraph Avenue  
Oakland, California

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**EXPLANATIONS:**

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

TOC = Top of Casing

(ft.) = Feet

GWE = Groundwater Elevation

(msl) = Mean sea level

DTW = Depth to Water

TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl tertiary butyl ether

(ppb) = Parts per billion

-- = Not Measured/Not Analyzed

<sup>1</sup> Laboratory report indicates gasoline C6-C12.

<sup>2</sup> Confirmation run.

## 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, static water level measurements are collected with the interface probe and are also recorded in the field notes.

After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride 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 Chevron-designated disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

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

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

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

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Chevron Facility # 9-0338 Job#: 386456  
 Address: 5500 TELEGRAPH AVE. Date: 5-7-01  
 City: OAKLAND, CA. Sampler: T-C

Well ID C-1A Well Condition: O.K.  
 Well Diameter 2" in. Hydrocarbon Thickness: Ø ft. Amount Bailed (product/water): Ø (gal.)  
 Total Depth 19.20 ft. Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66  
 Depth to Water 7.37 ft. 6" = 1.50 12" = 5.80

11.83 X VF .17 = 2.0 X 3 (case volume) = Estimated Purge Volume: 6.0 (gal.)

Purge Equipment: Disposable Bailer  
 Bailer  
 Stack  
 Suction  
 Grundfos  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
 Bailer  
 Pressure Bailer  
 Grab Sample  
 Other: \_\_\_\_\_

Starting Time: 1:30 Weather Conditions: Clear  
 Sampling Time: 1:45 Water Color: Brownish Odor: N  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? N If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

| Time        | Volume (gal.) | pH          | Conductivity $\mu$ hos/cm | Temperature $^{\circ}$ C | D.O. (mg/L) | ORP (mV) | Alkalinity (ppm) |
|-------------|---------------|-------------|---------------------------|--------------------------|-------------|----------|------------------|
| <u>1:35</u> | <u>2.0</u>    | <u>7.31</u> | <u>926</u>                | <u>66.6</u>              | _____       | _____    | _____            |
| <u>1:37</u> | <u>4.0</u>    | <u>7.20</u> | <u>931</u>                | <u>66.8</u>              | _____       | _____    | _____            |
| <u>1:40</u> | <u>6.0</u>    | <u>7.10</u> | <u>915</u>                | <u>66.5</u>              | _____       | _____    | _____            |
| _____       | _____         | _____       | _____                     | _____                    | _____       | _____    | _____            |
| _____       | _____         | _____       | _____                     | _____                    | _____       | _____    | _____            |

**LABORATORY INFORMATION**

| SAMPLE ID   | (#) - CONTAINER    | REFRIG.  | PRESERV. TYPE | LABORATORY     | ANALYSES                 |
|-------------|--------------------|----------|---------------|----------------|--------------------------|
| <u>C-1A</u> | <u>3 x 40m/VOA</u> | <u>7</u> | <u>HCL</u>    | <u>SEQUOIA</u> | <u>TPH-Gas/BTEX/MTBE</u> |
| _____       | _____              | _____    | _____         | _____          | _____                    |
| _____       | _____              | _____    | _____         | _____          | _____                    |
| _____       | _____              | _____    | _____         | _____          | _____                    |

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Chevron Facility # 9-0338

Job #: 386456

Address: 5500 TELEGRAPH AVE.

Date: 5-7-01

City: OAKLAND, CA.

Sampler: T.C

Well ID: C-4

Well Condition: O.k.

Well Diameter: 2" in.

Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Total Depth: 19.32 ft.

Depth to Water: 10.95 ft.

|                    |           |            |           |
|--------------------|-----------|------------|-----------|
| Volume Factor (VF) | 2" = 0.17 | 3" = 0.38  | 4" = 0.66 |
|                    | 6" = 1.50 | 12" = 5.80 |           |

8.37 X VF .17 = 1.4 X 3 (case volume) = Estimated Purge Volume: 4.0 (gal.)

Purge Equipment: Disposable Bailer  
 Bailer  
 Stack  
 Suction  
 Grundfos  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
 Bailer  
 Pressure Bailer  
 Grab Sample  
 Other: \_\_\_\_\_

Starting Time: 12<sup>05</sup>

Weather Conditions: clear

Sampling Time: 12<sup>15</sup>

Water Color: Brown Odor: N

Purging Flow Rate: \_\_\_\_\_ gpm.

Sediment Description: Silty

Did well de-water? N

If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

| Time                   | Volume (gal.) | pH          | Conductivity $\mu$ mhos/cm | Temperature $^{\circ}$ C | D.O. (mg/L) | ORP (mV) | Alkalinity (ppm) |
|------------------------|---------------|-------------|----------------------------|--------------------------|-------------|----------|------------------|
| <u>12<sup>08</sup></u> | <u>1.5</u>    | <u>7.01</u> | <u>621</u>                 | <u>67.5</u>              |             |          |                  |
| <u>12<sup>10</sup></u> | <u>3.0</u>    | <u>6.99</u> | <u>591</u>                 | <u>67.7</u>              |             |          |                  |
| <u>12<sup>13</sup></u> | <u>4.0</u>    | <u>7.10</u> | <u>553</u>                 | <u>67.9</u>              |             |          |                  |
|                        |               |             |                            |                          |             |          |                  |

**LABORATORY INFORMATION**

| SAMPLE ID  | (#) - CONTAINER    | REFRIG.  | PRESERV. TYPE | LABORATORY     | ANALYSES                 |
|------------|--------------------|----------|---------------|----------------|--------------------------|
| <u>C-4</u> | <u>3 x 40m/VOA</u> | <u>Y</u> | <u>HCL</u>    | <u>SEQUOIA</u> | <u>TPH-Gas/BTEX/MTBE</u> |
|            |                    |          |               |                |                          |
|            |                    |          |               |                |                          |

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_







Gettler Ryan, Inc. - Dublin  
6747 Sierra Court Suite J  
Dublin CA, 94568

Project: Chevron  
Project Number: Chevron # 9-0338  
Project Manager: Deanna L. Harding

**Reported:**  
22-May-01 07:49

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID | Laboratory ID | Matrix | Date Sampled    | Date Received   |
|-----------|---------------|--------|-----------------|-----------------|
| TB-LB     | W105197-01    | Water  | 07-May-01 00:00 | 09-May-01 16:40 |
| C-1A      | W105197-02    | Water  | 07-May-01 13:45 | 09-May-01 16:40 |
| C-2A      | W105197-03    | Water  | 07-May-01 12:40 | 09-May-01 16:40 |
| C-4       | W105197-04    | Water  | 07-May-01 12:15 | 09-May-01 16:40 |
| C-5       | W105197-05    | Water  | 07-May-01 13:15 | 09-May-01 16:40 |

Sequoia Analytical - Walnut Creek

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Charlie Westwater, Project Manager



Gettler Ryan, Inc. - Dublin  
6747 Sierra Court Suite J  
Dublin CA, 94568

Project: Chevron  
Project Number: Chevron # 9-0338  
Project Manager: Deanna L. Harding

Reported:  
22-May-01 07:49

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT  
Sequoia Analytical - Walnut Creek**

| Analyte   | Result | Reporting Limit | Units  | Dilution | Batch   | Prepared  | Analyzed  | Method            | Notes |
|---|--------|-----------------|--------|----------|---------|-----------|-----------|-------------------|-------|
| <b>C-4 (W105197-04) Water</b> Sampled: 07-May-01 12:15 Received: 09-May-01 16:40    |        |                 |        |          |         |           |           |                   |       |
| Purgeable Hydrocarbons  | ND     | 50              | ug/l   | 1        | 1E10001 | 10-May-01 | 10-May-01 | EPA<br>8015M/8020 |       |
| Benzene   | ND     | 0.50            | "      | "        | "       | "         | "         | "                 |       |
| Toluene   | ND     | 0.50            | "      | "        | "       | "         | "         | "                 |       |
| Ethylbenzene  | ND     | 0.50            | "      | "        | "       | "         | "         | "                 |       |
| Xylenes (total)   | ND     | 0.50            | "      | "        | "       | "         | "         | "                 |       |
| Methyl tert-butyl ether   | ND     | 2.5             | "      | "        | "       | "         | "         | "                 |       |
| <i>Surrogate: a,a,a-Trifluorotoluene</i>  |        | 105 %           | 70-130 |          | "       | "         | "         | "                 |       |
| <b>C-5 (W105197-05) Water</b> Sampled: 07-May-01 13:15 Received: 09-May-01 16:40    |        |                 |        |          |         |           |           |                   |       |
| Purgeable Hydrocarbons  | 100    | 50              | ug/l   | 1        | 1E10001 | 10-May-01 | 10-May-01 | EPA<br>8015M/8020 | P-01  |
| Benzene   | 2.1    | 0.50            | "      | "        | "       | "         | "         | "                 |       |
| Toluene   | 1.0    | 0.50            | "      | "        | "       | "         | "         | "                 |       |
| Ethylbenzene  | ND     | 0.50            | "      | "        | "       | "         | "         | "                 |       |
| Xylenes (total)   | 0.80   | 0.50            | "      | "        | "       | "         | "         | "                 |       |
| <i>Surrogate: a,a,a-Trifluorotoluene</i>  |        | 94.0 %          | 70-130 |          | "       | "         | "         | "                 |       |
| <b>C-5 (W105197-05RE1) Water</b> Sampled: 07-May-01 13:15 Received: 09-May-01 16:40 |        |                 |        |          |         |           |           |                   |       |
| Methyl tert-butyl ether   | 210    | 25              | ug/l   | 10       | 1E10001 | 10-May-01 | 15-May-01 | EPA<br>8015M/8020 | CC-3  |
| <i>Surrogate: a,a,a-Trifluorotoluene</i>  |        | 103 %           | 70-130 |          | "       | "         | "         | "                 |       |



Gettler Ryan, Inc. - Dublin  
6747 Sierra Court Suite J  
Dublin CA, 94568

Project: Chevron  
Project Number: Chevron # 9-0338  
Project Manager: Deanna L. Harding

**Reported:**  
22-May-01 07:49

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control  
Sequoia Analytical - Walnut Creek**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch 1E10001 - EPA 5030B P/T**

**LCS (1E10001-BS2)**

Prepared & Analyzed: 11-May-01

|                                   |      |      |      |      |  |     |        |  |  |  |
|-----------------------------------|------|------|------|------|--|-----|--------|--|--|--|
| Benzene                           | 21.7 | 0.50 | ug/l | 20.0 |  | 109 | 70-130 |  |  |  |
| Toluene                           | 22.5 | 0.50 | "    | 20.0 |  | 113 | 70-130 |  |  |  |
| Ethylbenzene                      | 23.3 | 0.50 | "    | 20.0 |  | 116 | 70-130 |  |  |  |
| Xylenes (total)                   | 64.2 | 0.50 | "    | 60.0 |  | 107 | 70-130 |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 37.2 |      | "    | 30.0 |  | 124 | 70-130 |  |  |  |

**LCS (1E10001-BS3)**

Prepared & Analyzed: 15-May-01

|                                   |      |      |      |      |  |     |        |  |  |  |
|-----------------------------------|------|------|------|------|--|-----|--------|--|--|--|
| Benzene                           | 20.8 | 0.50 | ug/l | 20.0 |  | 104 | 70-130 |  |  |  |
| Toluene                           | 21.0 | 0.50 | "    | 20.0 |  | 105 | 70-130 |  |  |  |
| Ethylbenzene                      | 21.1 | 0.50 | "    | 20.0 |  | 106 | 70-130 |  |  |  |
| Xylenes (total)                   | 60.3 | 0.50 | "    | 60.0 |  | 100 | 70-130 |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 32.4 |      | "    | 30.0 |  | 108 | 70-130 |  |  |  |

**LCS Dup (1E10001-BSD1)**

Prepared & Analyzed: 10-May-01

|                                   |      |      |      |      |  |      |        |      |    |  |
|-----------------------------------|------|------|------|------|--|------|--------|------|----|--|
| Benzene                           | 19.3 | 0.50 | ug/l | 20.0 |  | 96.5 | 70-130 | 11.2 | 20 |  |
| Toluene                           | 19.7 | 0.50 | "    | 20.0 |  | 98.5 | 70-130 | 9.66 | 20 |  |
| Ethylbenzene                      | 19.8 | 0.50 | "    | 20.0 |  | 99.0 | 70-130 | 10.5 | 20 |  |
| Xylenes (total)                   | 57.0 | 0.50 | "    | 60.0 |  | 95.0 | 70-130 | 10.6 | 20 |  |
| Surrogate: a,a,a-Trifluorotoluene | 27.6 |      | "    | 30.0 |  | 92.0 | 70-130 |      |    |  |