

ENVIRONMENTAL  
PROTECTION  
98 JUN 16 PM 3 52



**Chevron**

June 15, 1998

Mr. Larry Seto  
Alameda County Health Care Services  
Department of Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

**Chevron Products Company**  
6001 Bollinger Canyon Road  
Building L  
San Ramon, CA 94583  
P.O. Box 6004  
San Ramon, CA 94583-0904

**Marketing - Sales West**  
Phone 510 842-9500

**Re: Former Chevron Service Station #9-1153  
3126 Fernside Boulevard, Alameda, California**

Dear Mr. Seto:

Enclosed is the Second Quarter Groundwater Monitoring Report for 1998 that was prepared by our consultant Blaine Tech Services, Inc. for the above noted site. Samples were analyzed for TPH-g, BTEX and MtBE constituents.

The sampling frequency has been changed to annually (1<sup>st</sup> quarter) for monitoring wells C-3, MW-4, MW-8 and MW-9 and to semi-annually (1<sup>st</sup> & 3<sup>rd</sup> quarters) for wells MW-5 and MW-10; the remaining wells C-1, MW-6 and MW-7 will continue to be sampled quarterly. This sampling change was approved in your letter dated March 3, 1998.

In your letter of May 26, 1998 you approved the use of hydrogen peroxide injection into monitoring well C-1 and the addition of Oxygen Releasing Compound (ORC) into wells MW-6 and MW-7 to remediate the groundwater at this site. The use of hydrogen peroxide is expected to reduce the residual source of hydrocarbons by direct oxidation. The addition of ORC will increase the availability of dissolved oxygen and therefore increase the rate of biodegradation. Pacific Environmental Group, Inc. will provide the initial injection of hydrogen peroxide into well C-1 within the next ten days and Blaine Tech Services, Inc. will add ORC into wells MW-6 and MW-7 on June 17, 1998.

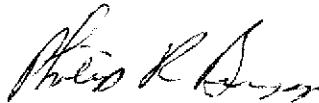
Separate phase hydrocarbons (SPH) continues to be detected in monitoring well C-1 and 0.264 gallons has been removed since the last quarterly event. This is a slight increase of 0.106 gallons from the previous report. SPH that accumulates in well C-1 is removed once a month. Monitoring wells C-3, MW-4, MW-8, and MW-9 were below method detection limits for all constituents, while well MW-6 was below method detection limits for the TPH-g, TEX and MtBE constituents. The benzene constituent increased in wells MW-6 and MW-7.

June 15, 1998  
Mr. Larry Seto  
Former Chevron Service Station #9-1153  
Page 2

Depth to the ground water varied from 0.39 feet to 3.79 feet below grade with a direction of flow northeasterly.

If you have questions or comments, call me at (510) 842-9136.

Sincerely,  
**CHEVRON PRODUCTS COMPANY**



Philip R. Briggs  
Site Assessment and Remediation Project Manager

Enclosure

Cc. Ms. Bette Owen, Chevron

Mr. & Mrs. Thompson  
3135 Gibbons Drive  
Alameda, CA 94501  
(Copies of above referenced letters from Mr. Larry Seto are enclosed)

**BLAINE**  
TECH SERVICES INC.

1680 ROGERS AVENUE  
SAN JOSE, CALIFORNIA 95112  
(408) 573-7771 FAX  
(408) 573-0555 PHONE



June 4, 1998

Phil Briggs  
Chevron U.S.A. Products Company  
P.O. Box 6004  
San Ramon, CA 94583-0904

### **2nd Quarter 1998 Monitoring at 9-1153**

Second Quarter 1998 Groundwater Monitoring at  
Former Chevron Service Station Number 9-1153  
3126 Fernside Blvd.  
Alameda, CA

Monitoring Performed on April 17, 1998

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### **Groundwater Sampling Report 980417-J-1**

This report covers the routine monitoring of groundwater wells at this Chevron facility. Blaine Tech Services, Inc.'s work at the site includes inspection, gauging, evacuation, purgewater containment, sample collection and sample handling in accordance with standard procedures that conform to Regional Water Quality Control Board requirements.

Routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated volume of a three-case volume purge, elapsed evacuation time, total volume of water removed, and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater is, likewise, collected and transported to McKittrick Waste Treatment Site for disposal.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL DATA AND ANALYTICAL RESULTS**. The full analytical report for the most recent samples is located in the **Analytical Appendix**. The table also contains new groundwater elevation calculations taken from the computer plotted gradient map which is located in the **Professional Engineering Appendix**.

At a minimum, Blaine Tech Services, Inc. field personnel are certified upon completion of a forty-hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. concentrates on objective data collection and does not participate in the interpretation of analytical results, the definition of geological or hydrological conditions, the formulation of recommendations, or the marketing of remedial systems.

Please call if you have any questions.

Yours truly,

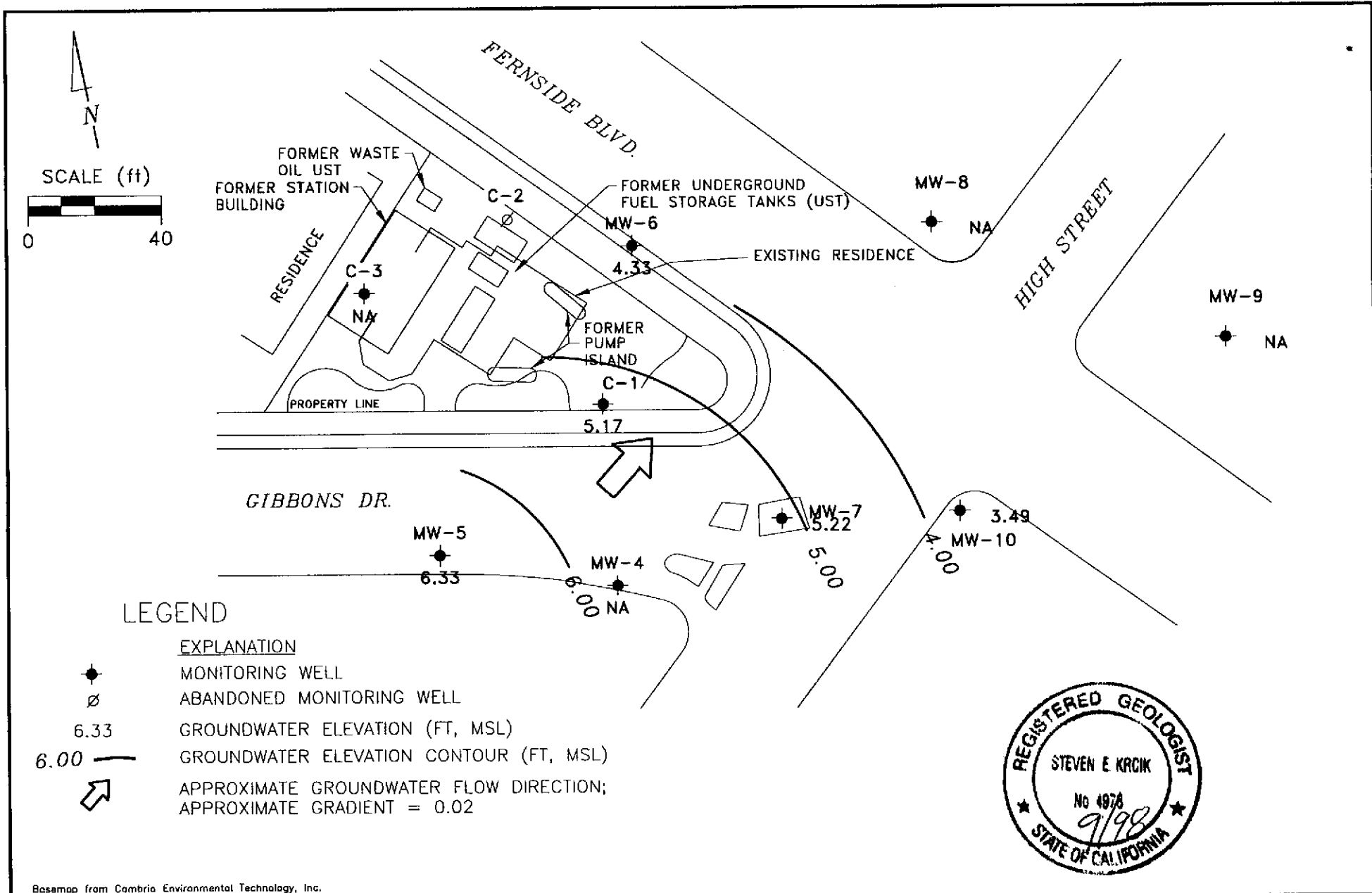
A handwritten signature in black ink, appearing to read "Francis Thie", with a horizontal line extending to the right.

Francis Thie  
Vice President

FPT/aa

attachments: Professional Engineering Appendix  
Cumulative Table of Well Data and Analytical Results  
Analytical Appendix  
Field Data Sheets

# **Professional Engineering Appendix**



PREPARED BY

**RRM**  
engineering contracting firm

Former Chevron Station 9-1153  
3126 Fernside Boulevard  
Alameda, California

GROUNDWATER ELEVATION  
CONTOUR MAP, APRIL 17, 1998

FIGURE:  
1  
PROJECT:  
DAC04

# **Table of Well Data and Analytical Results**

### Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

| DATE       | Well          | Ground         | Depth       | Total            |                |                | Notes | TPH-<br>Gasoline | Benzene | Toluene | Ethyl-<br>Benzene | Xylene | MTBE  | Other |
|------------|---------------|----------------|-------------|------------------|----------------|----------------|-------|------------------|---------|---------|-------------------|--------|-------|-------|
|            | Head<br>Elev. | Water<br>Elev. | To<br>Water | SPH<br>Thickness | SPH<br>Removed | SPH<br>Removed |       |                  |         |         |                   |        |       |       |
| <b>C-1</b> |               |                |             |                  |                |                |       |                  |         |         |                   |        |       |       |
| 08/18/86   | --            | --             | 4.10        | --               | --             | --             | --    | --               | --      | --      | --                | --     | --    | --    |
| 09/04/86   | --            | --             | --          | --               | --             | --             | --    | 15,000           | 760     | 820     | 1500              | --     | --    | --    |
| 07/22/87   | --            | --             | --          | --               | --             | --             | --    | 1100             | 250     | 7.0     | 40                | --     | --    | --    |
| 05/03/89   | --            | --             | 4.46        | --               | --             | --             | --    | 6900             | 3800    | 190     | 229               | --     | --    | --    |
| 12/04/89   | --            | --             | 4.16        | --               | --             | --             | --    | 17,000           | 8000    | 490     | 470               | --     | --    | --    |
| 02/14/90   | --            | --             | 3.64        | --               | --             | --             | --    | 19,000           | 12,000  | 990     | 1050              | --     | --    | --    |
| 03/07/90   | --            | --             | 3.36        | --               | --             | --             | --    | --               | 4260    | 261     | 430               | --     | --    | --    |
| 09/06/91   | --            | --             | 4.43        | --               | --             | --             | --    | 21,000           | 10,000  | 100     | 240               | 560    | --    | --    |
| 12/15/91   | --            | --             | 4.78        | --               | --             | --             | --    | 20,000           | 4900    | 43      | 110               | 330    | --    | --    |
| 03/03/92   | --            | --             | 2.39        | --               | --             | --             | --    | 13,000           | 5800    | 730     | 340               | 1200   | --    | --    |
| 06/04/92   | 4.08          | 0.00           | 4.08        | --               | --             | --             | --    | 34,000           | 9400    | 350     | 290               | 1200   | --    | --    |
| 10/13/92   | 4.08          | -0.67          | 4.75        | --               | --             | --             | --    | 24,000           | 11,000  | 98      | 280               | 530    | --    | --    |
| 01/11/93   | 4.08          | 1.82           | 2.26        | Sheen            | --             | --             | --    | 7100             | 1500    | 130     | 150               | 700    | --    | --    |
| 04/14/93   | 4.08          | 1.18           | 2.90        | Sheen            | --             | --             | --    | 29,000           | 7300    | 4000    | 640               | 2300   | --    | --    |
| 07/13/93   | 4.08          | 0.11           | 3.97        | Sheen            | --             | --             | --    | 650,000          | 27,000  | 18,000  | 6300              | 29,000 | --    | --    |
| 10/19/93   | 4.08          | -0.42          | 4.50        | --               | --             | --             | --    | 40,000           | 12,000  | 730     | 1100              | 3600   | --    | --    |
| 11/30/93   | 7.50          | 3.23           | 4.27        | --               | --             | --             | --    | --               | --      | --      | --                | --     | --    | --    |
| 01/27/94   | 7.50          | 4.15           | 3.35        | --               | --             | --             | --    | 36,000           | 8600    | 220     | 670               | 1900   | --    | --    |
| 04/07/94   | 7.50          | 4.08           | 3.42        | --               | --             | --             | --    | 53,000           | 12,000  | 3500    | 480               | 3300   | --    | --    |
| 07/01/94   | 7.50          | 3.54           | 3.96        | --               | --             | --             | --    | 65,000           | 19,000  | 5900    | 1000              | 9000   | --    | --    |
| 10/05/94   | 7.50          | 3.11           | 4.39        | --               | --             | --             | --    | 180,000          | 23,000  | 12,000  | 2200              | 11,000 | --    | --    |
| 01/12/95   | 7.50          | 6.38           | 1.52        | 0.50             | 0.264          | 0.264          | --    | --               | --      | --      | --                | --     | --    | --    |
| 04/26/95   | 7.50          | 4.86           | 4.40        | 2.20             | 1.321          | 1.585          | --    | --               | --      | --      | --                | --     | --    | --    |
| 07/12/95   | 7.50          | 4.10           | 4.85        | 1.81             | 0.661          | 2.246          | --    | --               | --      | --      | --                | --     | --    | --    |
| 10/30/95   | 7.50          | 3.13           | 5.67        | 1.63             | 0.528          | 2.774          | --    | --               | --      | --      | --                | --     | --    | --    |
| 01/04/96   | 7.50          | 3.68           | 3.92        | 0.12             | 0.264          | 3.038          | --    | --               | --      | --      | --                | --     | --    | --    |
| 01/10/96   | 7.50          | 4.12           | 3.48        | 0.13             | 0.066          | 3.104          | --    | --               | --      | --      | --                | --     | --    | --    |
| 01/17/96   | 7.50          | 4.12           | 3.40        | 0.02             | 0.396          | 3.500          | --    | --               | --      | --      | --                | --     | --    | --    |
| 01/22/96   | 7.50          | 4.60           | 2.90        | 0.00             | 0.000          | 3.500          | --    | 82,000           | 18,000  | 4400    | 1400              | 5200   | <1000 | --    |
| 02/23/96   | 7.50          | 4.89           | 4.10        | 1.86             | 0.661          | 4.161          | --    | --               | --      | --      | --                | --     | --    | --    |
| 02/28/96   | 7.50          | --             | --          | >0.83            | 1.250          | 5.411          | --    | --               | --      | --      | --                | --     | --    | --    |
| 03/08/96   | 7.50          | 6.10           | 2.86        | 1.83             | 0.264          | 5.675          | --    | --               | --      | --      | --                | --     | --    | --    |
| 03/08/96   | 7.50          | 5.49           | 2.30        | 0.36             | 0.528          | 6.203          | --    | --               | --      | --      | --                | --     | --    | --    |

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## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

| DATE                | Well          | Ground         | Depth       | Total            |                |                | Notes | TPH-<br>Gasoline | Benzene | Toluene | Ethyl-<br>Benzene | Xylene | MTBE | Other |
|---------------------|---------------|----------------|-------------|------------------|----------------|----------------|-------|------------------|---------|---------|-------------------|--------|------|-------|
|                     | Head<br>Elev. | Water<br>Elev. | To<br>Water | SPH<br>Thickness | SPH<br>Removed | SPH<br>Removed |       |                  |         |         |                   |        |      |       |
| <b>C-1 (CONT'D)</b> |               |                |             |                  |                |                |       |                  |         |         |                   |        |      |       |
| 03/08/96            | 7.50          | 5.46           | 2.33        | 0.36             | 0.264          | 6.467          | --    | --               | --      | --      | --                | --     | --   | --    |
| 03/08/96            | 7.50          | 5.40           | 2.28        | 0.22             | 0.528          | 6.995          | --    | --               | --      | --      | --                | --     | --   | --    |
| 03/26/96            | 7.50          | 4.56           | 3.96        | 1.28             | 0.396          | 7.391          | --    | --               | --      | --      | --                | --     | --   | --    |
| 04/11/96            | 7.50          | 3.29           | 5.61        | 1.75             | 0.528          | 7.919          | --    | --               | --      | --      | --                | --     | --   | --    |
| 04/19/96            | 7.50          | 4.44           | 3.09        | 0.04             | 0.396          | 8.315          | --    | --               | --      | --      | --                | --     | --   | --    |
| 04/24/96            | 7.50          | 4.48           | 3.04        | 0.03             | 0.396          | 8.711          | --    | --               | --      | --      | --                | --     | --   | --    |
| 05/03/96            | 7.50          | 3.85           | 4.02        | 0.46             | 0.396          | 9.107          | --    | --               | --      | --      | --                | --     | --   | --    |
| 05/03/96            | 7.50          | 3.99           | 3.89        | 0.47             | 0.000          | 9.107          | --    | --               | --      | --      | --                | --     | --   | --    |
| 05/08/96            | 7.50          | 3.53           | 4.25        | 0.35             | 0.066          | 9.173          | --    | --               | --      | --      | --                | --     | --   | --    |
| 05/17/96            | 7.50          | 4.29           | 3.24        | 0.04             | 0.029          | 9.202          | --    | --               | --      | --      | --                | --     | --   | --    |
| 05/17/96            | 7.50          | 4.16           | 3.35        | 0.01             | 0.029          | 9.231          | --    | --               | --      | --      | --                | --     | --   | --    |
| 05/17/96            | 7.50          | 4.08           | 3.43        | 0.01             | 0.029          | 9.260          | --    | --               | --      | --      | --                | --     | --   | --    |
| 05/17/96            | 7.50          | 3.86           | 3.65        | 0.01             | 0.000          | 9.260          | --    | --               | --      | --      | --                | --     | --   | --    |
| 05/22/96            | 7.50          | 4.46           | 3.10        | 0.07             | 0.079          | 9.339          | --    | --               | --      | --      | --                | --     | --   | --    |
| 06/18/96            | 7.50          | 3.20           | 4.68        | 0.48             | 0.264          | 9.603          | --    | --               | --      | --      | --                | --     | --   | --    |
| 07/03/96            | 7.50          | 2.57           | 5.03        | 0.13             | 0.145          | 9.748          | --    | --               | --      | --      | --                | --     | --   | --    |
| 07/09/96            | 7.50          | 3.05           | 4.63        | 0.23             | 0.092          | 9.840          | --    | --               | --      | --      | --                | --     | --   | --    |
| 07/17/96            | 7.50          | 2.89           | 4.73        | 0.15             | 0.317          | 10.157         | --    | --               | --      | --      | --                | --     | --   | --    |
| 07/29/96            | 7.50          | 2.47           | 5.10        | 0.09             | 0.264          | 10.421         | --    | --               | --      | --      | --                | --     | --   | --    |
| 08/02/96            | 7.50          | 1.84           | 5.68        | 0.03             | 0.033          | 10.454         | --    | --               | --      | --      | --                | --     | --   | --    |
| 08/07/96            | 7.50          | 2.35           | 5.16        | 0.01             | 0.132          | 10.586         | --    | --               | --      | --      | --                | --     | --   | --    |
| 08/23/96            | 7.50          | 1.77           | 5.75        | 0.03             | 0.026          | 10.612         | --    | --               | --      | --      | --                | --     | --   | --    |
| 08/28/96            | 7.50          | 1.99           | 5.53        | 0.03             | 0.013          | 10.625         | --    | --               | --      | --      | --                | --     | --   | --    |
| 09/06/96            | 7.50          | 2.12           | 5.38        | --               | 0.046          | 10.671         | --    | --               | --      | --      | --                | --     | --   | --    |
| 09/12/96            | 7.50          | 2.04           | 5.48        | 0.03             | 0.013          | 10.684         | --    | --               | --      | --      | --                | --     | --   | --    |
| 09/19/96            | 7.50          | 1.20           | 6.32        | 0.03             | 0.011          | 10.695         | --    | --               | --      | --      | --                | --     | --   | --    |
| 10/10/96            | 7.50          | 3.00           | 4.58        | 0.10             | 0.132          | 10.827         | --    | --               | --      | --      | --                | --     | --   | --    |
| 10/17/96            | 7.50          | 1.90           | 5.61        | 0.01             | 0.011          | 10.838         | --    | --               | --      | --      | --                | --     | --   | --    |
| 10/29/96            | 7.50          | 1.49           | 6.01        | --               | --             | 10.838         | --    | --               | --      | --      | --                | --     | --   | --    |
| 11/07/96            | 7.50          | 1.94           | 5.56        | 0.04             | 0.132          | 10.970         | --    | --               | --      | --      | --                | --     | --   | --    |
| 11/11/96            | 7.50          | 2.18           | 5.32        | 0.04             | 0.132          | 11.102         | --    | --               | --      | --      | --                | --     | --   | --    |
| 12/11/96            | 7.50          | 4.17           | 3.33        | 0.03             | 0.053          | 11.155         | --    | --               | --      | --      | --                | --     | --   | --    |

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### Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

| DATE                | Well Head Elev. | Ground Water Elev. | Depth To Water | SPH Thickness | SPH Removed | Total SPH Removed | Notes | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylene | MTBE  | Other |
|---------------------|-----------------|--------------------|----------------|---------------|-------------|-------------------|-------|--------------|---------|---------|---------------|--------|-------|-------|
| <b>C-1 (CONT'D)</b> |                 |                    |                |               |             |                   |       |              |         |         |               |        |       |       |
| 12/17/96            | 7.50            | 3.77               | 3.73           | 0.01          | 0.010       | 11.165            | --    | --           | --      | --      | --            | --     | --    | --    |
| 01/15/97            | 7.50            | 4.76               | 2.74           | --            | --          | 11.165            | --    | 47,000       | 16,000  | 2800    | 1300          | 4900   | <1000 | --    |
| 01/22/97            | 7.50            | 6.13               | 1.37           | 0.19          | 0.066       | 11.231            | --    | --           | --      | --      | --            | --     | --    | --    |
| 02/04/97            | 7.50            | 4.52               | 2.98           | 0.51          | 0.145       | 11.376            | --    | --           | --      | --      | --            | --     | --    | --    |
| 02/20/97            | 7.50            | 3.41               | 4.09           | 0.13          | 0.106       | 11.482            | --    | --           | --      | --      | --            | --     | --    | --    |
| 03/06/97            | 7.50            | 3.75               | 3.75           | 0.56          | 1.189       | 12.671            | --    | --           | --      | --      | --            | --     | --    | --    |
| 03/14/97            | 7.50            | 3.68               | 3.82           | 0.03          | 0.119       | 12.790            | --    | --           | --      | --      | --            | --     | --    | --    |
| 03/20/97            | 7.50            | 3.77               | 3.73           | 0.03          | 0.013       | 12.803            | --    | --           | --      | --      | --            | --     | --    | --    |
| 03/25/97            | 7.50            | 3.18               | 4.32           | 0.01          | --          | 12.803            | --    | --           | --      | --      | --            | --     | --    | --    |
| 03/31/97            | 7.50            | 3.79               | 3.71           | 0.03          | 0.003       | 12.806            | --    | --           | --      | --      | --            | --     | --    | --    |
| 04/03/97            | 7.50            | 2.92               | 4.60           | 0.03          | 0.004       | 12.810            | --    | --           | --      | --      | --            | --     | --    | --    |
| 04/09/97            | 7.50            | 3.27               | 4.25           | 0.02          | 0.026       | 12.836            | --    | --           | --      | --      | --            | --     | --    | --    |
| 04/24/97            | 7.50            | 2.87               | 4.65           | 0.02          | 0.005       | 12.841            | --    | --           | --      | --      | --            | --     | --    | --    |
| 04/30/97            | 7.50            | 4.02               | 3.50           | 0.02          | 0.005       | 12.846            | --    | --           | --      | --      | --            | --     | --    | --    |
| 05/22/97            | 7.50            | 2.53               | 4.97           | --            | 0.011       | 12.857            | --    | --           | --      | --      | --            | --     | --    | --    |
| 06/03/97            | 7.50            | 3.93               | 3.62           | 0.06          | 0.007       | 12.864            | --    | --           | --      | --      | --            | --     | --    | --    |
| 07/09/97            | 7.50            | 3.25               | 4.30           | 0.06          | 0.132       | 12.996            | --    | --           | --      | --      | --            | --     | --    | --    |
| 08/12/97            | 7.50            | 2.32               | 5.18           | 0.00          | 0.050       | 13.046            | --    | --           | --      | --      | --            | --     | --    | --    |
| 09/30/97            | 7.50            | 2.65               | 5.25           | 0.50          | 0.070       | 13.116            | --    | --           | --      | --      | --            | --     | --    | --    |
| 10/29/97            | 7.50            | 2.19               | 5.33           | 0.03          | 0.020       | 13.136            | --    | --           | --      | --      | --            | --     | --    | --    |
| 11/13/97            | 7.50            | 2.66               | 4.86           | 0.02          | 0.026       | 13.162            | --    | --           | --      | --      | --            | --     | --    | --    |
| 12/18/97            | 7.50            | 5.16               | 2.34           | --            | --          | 13.162            | --    | --           | --      | --      | --            | --     | --    | --    |
| 01/14/98            | 7.50            | 7.27               | 0.25           | 0.02          | 0.132       | 13.294            | --    | --           | --      | --      | --            | --     | --    | --    |
| 02/02/98            | 7.50            | 5.19               | 2.35           | 0.05          | 0.026       | 13.320            | --    | --           | --      | --      | --            | --     | --    | --    |
| 03/16/98            | 7.50            | 5.40               | 2.50           | 0.50          | 0.132       | 13.452            | --    | --           | --      | --      | --            | --     | --    | --    |
| 04/17/98            | 7.50            | 5.17               | 2.65           | 0.40          | 0.106       | 13.558            | --    | --           | --      | --      | --            | --     | --    | --    |

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

| DATE       | Well Head Elev. | Ground Water Elev. | Depth To Water | SPH Thickness | SPH Removed | Total SPH Removed | Notes     | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylene | MTBE | Other |
|------------|-----------------|--------------------|----------------|---------------|-------------|-------------------|-----------|--------------|---------|---------|---------------|--------|------|-------|
| <b>C-2</b> |                 |                    |                |               |             |                   |           |              |         |         |               |        |      |       |
| 08/18/86   | --              | --                 | --             | --            | --          | --                | --        | --           | --      | --      | --            | --     | --   | --    |
| 09/04/86   | --              | --                 | --             | --            | --          | --                | --        | 1100         | 49      | 18      | 84            | --     | --   | --    |
| 07/22/87   | --              | --                 | --             | --            | --          | --                | --        | <50          | 1.8     | <1.0    | <4.0          | --     | --   | --    |
| 05/03/89   | --              | --                 | --             | --            | --          | --                | Abandoned | --           | --      | --      | --            | --     | --   | --    |

## Cumulative Table of Well Data and Analytical Results

| Vertical Measurements are in feet. |                 |                    |                | Volumetric Measurements are in gallons. |             |                   |                             | Analytical results are in parts per billion (ppb) |         |         |               |        |      |       |
|------------------------------------|-----------------|--------------------|----------------|---|-------------|-------------------|-----------------------------|---|---------|---------|---------------|--------|------|-------|
| DATE                               | Well Head Elev. | Ground Water Elev. | Depth To Water | SPH Thickness                           | SPH Removed | Total SPH Removed | Notes                       | TPH-Gasoline                                      | Benzene | Toluene | Ethyl-Benzene | Xylene | MTBE | Other |
| <b>C-3</b>                         |                 |                    |                |   |             |                   |                             |   |         |         |               |        |      |       |
| 08/18/86                           | --              | --                 | 4.00           | --                                      | --          | --                | --                          | --  | --      | --      | --            | --     | --   | --    |
| 09/04/86                           | --              | --                 | --             | --                                      | --          | --                | --                          | 50  | 3.2     | 5.4     | 5.8           | --     | --   | --    |
| 07/22/87                           | --              | --                 | --             | --                                      | --          | --                | --                          | <50   | <0.5    | <1.0    | <4.0          | --     | --   | --    |
| 05/03/89                           | --              | --                 | 4.15           | --                                      | --          | --                | --                          | <50   | <0.5    | <1.0    | <2.0          | --     | --   | --    |
| 12/04/89                           | --              | --                 | 4.24           | --                                      | --          | --                | --                          | <250  | <0.5    | <0.5    | <0.5          | --     | --   | --    |
| 02/14/90                           | --              | --                 | 3.57           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5          | --     | --   | --    |
| 03/07/90                           | --              | --                 | 3.31           | --                                      | --          | --                | --                          | --  | <5.0    | <5.0    | <5.0          | --     | --   | --    |
| 09/06/91                           | --              | --                 | 4.59           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 12/15/91                           | --              | --                 | 4.84           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 03/03/92                           | --              | --                 | 2.17           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 06/04/92                           | 4.41            | 0.40               | 4.01           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 10/13/92                           | 4.41            | -0.38              | 4.79           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 01/11/93                           | 4.41            | 2.40               | 2.01           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 04/14/93                           | 4.41            | 1.65               | 2.76           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 07/13/93                           | 4.41            | 0.45               | 3.96           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5          | <1.5   | --   | --    |
| 10/19/93                           | 4.41            | -0.12              | 4.53           | --                                      | --          | --                | --                          | 66  | 12      | 1.4     | 1.0           | 8.4    | --   | --    |
| 11/30/93                           | 7.83            | 3.79               | 4.04           | --                                      | --          | --                | --                          | --  | --      | --      | --            | --     | --   | --    |
| 01/27/94                           | 7.83            | 4.66               | 3.17           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 04/07/94                           | 7.83            | 4.63               | 3.20           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 07/01/94                           | 7.83            | 3.84               | 3.99           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 10/05/94                           | 7.83            | 3.29               | 4.54           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 01/12/95                           | 7.83            | 7.03               | 0.80           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 05/02/95                           | 7.83            | 5.68               | 2.15           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 07/12/95                           | 7.83            | 4.41               | 3.42           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 10/30/95                           | 7.83            | 3.37               | 4.46           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 01/22/96                           | 7.83            | 6.10               | 1.73           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 04/24/96                           | 7.83            | 5.21               | 2.62           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 07/29/96                           | 7.83            | 3.89               | 3.94           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 10/10/96                           | 7.83            | 3.77               | 4.06           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 01/15/97                           | 7.83            | 6.29               | 1.54           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 04/03/97                           | 7.83            | 4.60               | 3.23           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 07/09/97                           | 7.83            | 3.47               | 4.36           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 10/29/97                           | 7.83            | 3.18               | 4.65           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 01/14/98                           | 7.83            | 7.06               | 0.77           | --                                      | --          | --                | Gauged and sampled annually | <50   | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

| DATE        | Well Head Elev. | Ground Water Elev. | Depth To Water | SPH Thickness | SPH Removed | Total SPH Removed | Notes                       | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylene | MTBE | Other |
|-------------|-----------------|--------------------|----------------|---------------|-------------|-------------------|-----------------------------|--------------|---------|---------|---------------|--------|------|-------|
| <b>MW-4</b> |                 |                    |                |               |             |                   |                             |              |         |         |               |        |      |       |
| 06/04/92    | 3.58            | -0.05              | 3.63           | --            | --          | --                | --                          | <50          | 0.8     | <0.5    | <0.5          | <0.5   | --   | --    |
| 10/13/92    | 3.58            | --                 | --             | --            | --          | --                | --                          | --           | --      | --      | --            | --     | --   | --    |
| 01/11/93    | 3.58            | 1.69               | 1.89           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 04/14/93    | 3.58            | 1.38               | 2.20           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <1.5   | --   | --    |
| 07/13/93    | 3.58            | 0.07               | 3.51           | --            | --          | --                | --                          | 54           | 2.6     | 1.6     | <0.5          | <1.5   | --   | --    |
| 10/19/93    | 3.58            | -0.64              | 4.22           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 11/30/93    | 7.01            | 3.00               | 4.01           | --            | --          | --                | --                          | --           | --      | --      | --            | --     | --   | --    |
| 01/27/94    | 7.01            | 4.12               | 2.89           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 04/07/94    | 7.01            | 3.95               | 3.06           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 07/01/94    | 7.01            | 3.42               | 3.59           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 10/05/94    | 7.01            | 2.68               | 4.33           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 01/12/95    | 7.01            | 5.81               | 1.20           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 04/26/95    | 7.01            | 5.86               | 1.15           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 07/12/95    | 7.01            | 4.29               | 2.72           | --            | --          | --                | --                          | <50          | 6.4     | <0.5    | 0.63          | 0.72   | --   | --    |
| 10/30/95    | 7.01            | 2.93               | 4.08           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 01/22/96    | 7.01            | 5.25               | 1.76           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 04/24/96    | 7.01            | 5.06               | 1.95           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 07/29/96    | 7.01            | 3.64               | 3.37           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 10/10/96    | 7.01            | 3.05               | 3.96           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 01/15/97    | 7.01            | 5.74               | 1.27           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 04/03/97    | 7.01            | 4.90               | 2.11           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 07/09/97    | 7.01            | 2.97               | 4.04           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 10/29/97    | 7.01            | 2.45               | 4.56           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 01/14/98    | 7.01            | 6.62               | 0.39           | --            | --          | --                | Gauged and sampled annually | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |

### Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

| DATE        | Well Head Elev. | Ground Water Elev. | Depth To Water | SPH Thickness | SPH Removed | Total SPH Removed | Notes              | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylene | MTBE | Other |
|-------------|-----------------|--------------------|----------------|---------------|-------------|-------------------|--------------------|--------------|---------|---------|---------------|--------|------|-------|
| <b>MW-5</b> |                 |                    |                |               |             |                   |                    |              |         |         |               |        |      |       |
| 06/04/92    | 3.61            | 0.36               | 3.25           | --            | --          | --                | --                 | 560          | 110     | 0.5     | 37            | 2.2    | --   | --    |
| 10/13/92    | 3.61            | -0.59              | 4.20           | --            | --          | --                | --                 | 1200         | 150     | <2.5    | 84            | 8.6    | --   | --    |
| 01/11/93    | 3.61            | 2.31               | 1.30           | --            | --          | --                | --                 | 1300         | 48      | 1.0     | 83            | 33     | --   | --    |
| 04/14/93    | 3.61            | 2.41               | 1.20           | --            | --          | --                | --                 | 2600         | 240     | 6.1     | 250           | 170    | --   | --    |
| 07/13/93    | 3.61            | 0.46               | 3.15           | --            | --          | --                | --                 | 1700         | 260     | 7.8     | 160           | 100    | --   | --    |
| 10/19/93    | 3.61            | -0.21              | 3.82           | --            | --          | --                | --                 | 1900         | 190     | 3.3     | 200           | 93     | --   | --    |
| 11/30/93    | 7.04            | 3.48               | 3.56           | --            | --          | --                | --                 | --           | --      | --      | --            | --     | --   | --    |
| 01/27/94    | 7.04            | 4.62               | 2.42           | --            | --          | --                | --                 | 4000         | 100     | 12      | 210           | 110    | --   | --    |
| 04/07/94    | 7.04            | 4.71               | 2.33           | --            | --          | --                | --                 | 2600         | 170     | 10      | 150           | 88     | --   | --    |
| 07/01/94    | 7.04            | 3.86               | 3.18           | --            | --          | --                | --                 | 2300         | 350     | 9.1     | 110           | 76     | --   | --    |
| 10/05/94    | 7.04            | 3.06               | 3.98           | --            | --          | --                | --                 | 11,000       | 840     | 150     | 130           | 340    | --   | --    |
| 01/12/95    | 7.04            | 6.64               | 0.40           | --            | --          | --                | --                 | 2300         | 82      | <2.5    | 54            | 20     | --   | --    |
| 04/26/95    | 7.04            | 6.54               | 0.50           | --            | --          | --                | --                 | 1600         | 52      | <5.0    | 36            | 61     | --   | --    |
| 07/12/95    | 7.04            | 4.63               | 2.41           | --            | --          | --                | --                 | 2800         | 150     | <5.0    | 34            | 38     | --   | --    |
| 10/30/95    | 7.04            | 3.26               | 3.78           | --            | --          | --                | --                 | 1100         | 81      | <5.0    | <5.0          | <5.0   | 35   | --    |
| 01/22/96    | 7.04            | 6.26               | 0.78           | --            | --          | --                | --                 | 880          | 7.3     | <2.0    | 15            | 4.8    | <10  | --    |
| 04/24/96    | 7.04            | 5.39               | 1.65           | --            | --          | --                | --                 | 1600         | 51      | 3.8     | 14            | 5.6    | 56   | --    |
| 07/29/96    | 7.04            | --                 | --             | --            | --          | --                | Inaccessible       | --           | --      | --      | --            | --     | --   | --    |
| 10/10/96    | 7.04            | 3.44               | 3.60           | --            | --          | --                | --                 | 1000         | 18      | <1.2    | 1.5           | <1.2   | <6.2 | --    |
| 01/15/97    | 7.04            | 6.59               | 0.45           | --            | --          | --                | --                 | 520          | 0.84    | <0.5    | 3.1           | 1.2    | 8.4  | --    |
| 04/03/97    | 7.04            | 4.93               | 2.11           | --            | --          | --                | --                 | 1400         | 13      | <2.0    | 4.3           | 8.4    | 32   | --    |
| 07/09/97    | 7.04            | 3.33               | 3.71           | --            | --          | --                | --                 | 810          | 3.6     | 0.97    | <0.5          | <0.5   | 9.7  | --    |
| 10/29/97    | 7.04            | 2.84               | 4.20           | --            | --          | --                | --                 | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 01/14/98    | 7.04            | 7.04               | 0.00           | --            | --          | --                | --                 | 430          | 5.8     | 2.4     | <0.5          | 1.6    | 17   | --    |
| 04/17/98    | 7.04            | 6.33               | 0.71           | --            | --          | --                | Sampled biannually | --           | --      | --      | --            | --     | --   | --    |

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

| DATE        | Well          | Ground         | Depth       | Total            |                |                | Notes | TPH-<br>Gasoline | Benzene | Toluene | Ethyl-<br>Benzene | Xylene | MTBE | Other |
|-------------|---------------|----------------|-------------|------------------|----------------|----------------|-------|------------------|---------|---------|-------------------|--------|------|-------|
|             | Head<br>Elev. | Water<br>Elev. | To<br>Water | SPH<br>Thickness | SPH<br>Removed | SPH<br>Removed |       |                  |         |         |                   |        |      |       |
| <b>MW-6</b> |               |                |             |                  |                |                |       |                  |         |         |                   |        |      |       |
| 06/04/92    | 3.85          | -0.04          | 3.89        | --               | --             | --             | --    | 210              | 54      | <0.5    | 1.9               | 2.4    | --   | --    |
| 10/13/92    | 3.85          | -0.71          | 4.56        | --               | --             | --             | --    | 10,000           | 5300    | <10     | 70                | <10    | --   | --    |
| 01/11/93    | 3.85          | 1.49           | 2.36        | --               | --             | --             | --    | 100              | 50      | <0.5    | <0.5              | <0.5   | --   | --    |
| 04/14/93    | 3.85          | 0.70           | 3.15        | --               | --             | --             | --    | <50              | <0.5    | <0.5    | <0.5              | <0.5   | --   | --    |
| 07/13/93    | 3.85          | -0.09          | 3.94        | --               | --             | --             | --    | <50              | 1.8     | <0.5    | <0.5              | <1.5   | --   | --    |
| 10/19/93    | 3.85          | -0.55          | 4.40        | --               | --             | --             | --    | 320              | 150     | <0.5    | 0.8               | <0.5   | --   | --    |
| 11/30/93    | 7.27          | 3.11           | 4.16        | --               | --             | --             | --    | --               | --      | --      | --                | --     | --   | --    |
| 01/27/94    | 7.27          | 3.94           | 3.33        | --               | --             | --             | --    | 120              | 45      | <0.5    | <0.5              | <0.5   | --   | --    |
| 04/07/94    | 7.27          | 3.84           | 3.43        | --               | --             | --             | --    | <50              | <0.5    | <0.5    | <0.5              | <0.5   | --   | --    |
| 07/01/94    | 7.27          | 3.33           | 3.94        | --               | --             | --             | --    | <50              | <0.5    | <0.5    | <0.5              | <0.5   | --   | --    |
| 10/05/94    | 7.27          | 2.89           | 4.38        | --               | --             | --             | --    | 8300             | 2400    | 160     | 42                | 190    | --   | --    |
| 01/12/95    | 7.27          | 4.84           | 2.43        | --               | --             | --             | --    | <50              | 12      | <0.5    | <0.5              | <0.5   | --   | ND*   |
| 04/26/95    | 7.27          | 5.21           | 2.06        | --               | --             | --             | --    | <50              | 5.5     | 0.67    | <0.5              | 1.3    | --   | --    |
| 07/12/95    | 7.27          | 3.74           | 3.53        | --               | --             | --             | --    | 65               | 27      | <0.5    | <0.5              | <0.5   | --   | --    |
| 10/30/95    | 7.27          | 2.93           | 4.34        | --               | --             | --             | --    | <50              | 3.9     | <0.5    | <0.5              | <0.5   | <2.5 | --    |
| 01/22/96    | 7.27          | 4.66           | 2.61        | --               | --             | --             | --    | <50              | 0.93    | <0.5    | <0.5              | <0.5   | <2.5 | --    |
| 04/24/96    | 7.27          | 4.77           | 2.50        | --               | --             | --             | --    | 260              | 110     | <1.2    | <1.2              | <1.2   | <6.2 | --    |
| 07/29/96    | 7.27          | 3.42           | 3.85        | --               | --             | --             | --    | <50              | 23      | <0.5    | <0.5              | <0.5   | <2.5 | --    |
| 10/10/96    | 7.27          | 2.90           | 4.37        | --               | --             | --             | --    | 79               | 31      | <0.5    | <0.5              | <0.5   | <2.5 | --    |
| 01/15/97    | 7.27          | 4.64           | 2.63        | --               | --             | --             | --    | <50              | <0.5    | <0.5    | <0.5              | <0.5   | <2.5 | --    |
| 04/03/97    | 7.27          | 3.85           | 3.42        | --               | --             | --             | --    | 670              | 360     | <5.0    | <5.0              | <5.0   | <25  | --    |
| 07/09/97    | 7.27          | 2.98           | 4.29        | --               | --             | --             | --    | 330              | 140     | <2.0    | <2.0              | <2.0   | <10  | --    |
| 10/29/97    | 7.27          | 2.71           | 4.56        | --               | --             | --             | --    | 400              | 260     | <2.0    | <2.0              | <2.0   | 5.8  | --    |
| 01/14/98    | 7.27          | 6.26           | 1.01        | --               | --             | --             | --    | <50              | <0.5    | <0.5    | <0.5              | <0.5   | <2.5 | --    |
| 04/17/98    | 7.27          | 4.33           | 2.94        | --               | --             | --             | --    | <50              | 1.7     | <0.5    | <0.5              | <0.5   | <2.5 | --    |

\* EPA 8010

### Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

| DATE        | Vertical Measurements are in feet. |                    |                | Volumetric Measurements are in gallons. |             |                   |                             | Analytical results are in parts per billion (ppb) |         |         |                |        |      |       |
|-------------|------------------------------------|--------------------|----------------|---|-------------|-------------------|-----------------------------|---|---------|---------|----------------|--------|------|-------|
|             | Well Head Elev.                    | Ground Water Elev. | Depth To Water | SPH Thickness                           | SPH Removed | Total SPH Removed | Notes                       | TPH- Gasoline                                     | Benzene | Toluene | Ethyl- Benzene | Xylene | MTBE | Other |
| <b>MW-7</b> |                                    |                    |                |   |             |                   |                             |   |         |         |                |        |      |       |
| 11/30/93    | 8.22                               | 2.89               | 5.33           | --                                      | --          | --                | --                          | 480   | 110     | 41      | 4.4            | 38     | --   | --    |
| 01/27/94    | 8.22                               | 3.72               | 4.50           | --                                      | --          | --                | --                          | 120   | 21      | 1.1     | 2.2            | 4.8    | --   | --    |
| 04/07/94    | 8.22                               | 3.60               | 4.62           | --                                      | --          | --                | --                          | 2600  | 630     | 39      | 56             | 94     | --   | --    |
| 07/01/94    | 8.22                               | 3.09               | 5.13           | --                                      | --          | --                | --                          | 2200  | 770     | 42      | <10            | 92     | --   | --    |
| 10/05/94    | 8.22                               | 2.61               | 5.61           | --                                      | --          | --                | --                          | 15,000  | 3300    | 90      | 130            | 320    | --   | --    |
| 01/12/95    | 8.22                               | 5.39               | 2.83           | --                                      | --          | --                | --                          | 340   | 57      | <1.3    | 18             | 6.4    | --   | --    |
| 04/26/95    | 8.22                               | 5.87               | 2.35           | --                                      | --          | --                | --                          | 15,000  | 3700    | 210     | 520            | 800    | --   | --    |
| 07/12/95    | 8.22                               | 3.56               | 4.66           | --                                      | --          | --                | --                          | 7700  | 1800    | 59      | 130            | 370    | --   | --    |
| 10/30/95    | 8.22                               | 2.74               | 5.48           | --                                      | --          | --                | --                          | 770   | 260     | <5.0    | 33             | 48     | 25   | --    |
| 01/22/96    | 8.22                               | 4.88               | 3.34           | --                                      | --          | --                | --                          | 290   | 63      | <1.0    | 6.4            | 5.7    | <5.0 | --    |
| 04/24/96    | 8.22                               | 4.10               | 4.12           | --                                      | --          | --                | --                          | 12,000  | 2500    | 510     | 380            | 810    | <125 | --    |
| 07/29/96    | 8.22                               | 3.19               | 5.03           | --                                      | --          | --                | --                          | 2600  | 650     | <25     | 61             | 150    | <125 | --    |
| 10/10/96    | 8.22                               | 2.70               | 5.52           | --                                      | --          | --                | --                          | 5800  | 1700    | 28      | 170            | 210    | <62  | --    |
| 01/15/97    | 8.22                               | 5.30               | 2.92           | --                                      | --          | --                | --                          | 1000  | 230     | <2.5    | 28             | 11     | 63   | --    |
| 04/03/97    | 8.22                               | 3.57               | 4.65           | --                                      | --          | --                | --                          | 6000  | 1800    | 100     | 140            | 170    | <100 | --    |
| 07/09/97    | 8.22                               | 2.83               | 5.39           | --                                      | --          | --                | --                          | 5500  | 2200    | <20     | 41             | 30     | <100 | --    |
| 10/29/97    | 8.22                               | 2.64               | 5.58           | --                                      | --          | --                | --                          | 220   | 40      | 0.61    | 3.0            | 2.4    | 7.6  | --    |
| 01/14/98    | 8.22                               | 5.42               | 2.80           | --                                      | --          | --                | --                          | 140   | 5.1     | <0.5    | <0.5           | 1.4    | <2.5 | --    |
| 04/17/98    | 8.22                               | 5.22               | 3.00           | --                                      | --          | --                | --                          | 13,000  | 4200    | 98      | 250            | 240    | 250  | --    |
| <b>MW-8</b> |                                    |                    |                |   |             |                   |                             |   |         |         |                |        |      |       |
| 10/17/95    | 6.96                               | 2.56               | 4.40           | --                                      | --          | --                | --                          | --  | --      | --      | --             | --     | --   | --    |
| 10/30/95    | 6.96                               | 2.52               | 4.44           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5           | <0.5   | <2.5 | --    |
| 01/22/96    | 6.96                               | 4.72               | 2.24           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5           | <0.5   | <2.5 | --    |
| 04/24/96    | 6.96                               | 3.99               | 2.97           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5           | <0.5   | <2.5 | --    |
| 07/29/96    | 6.96                               | 3.59               | 3.37           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5           | <0.5   | <2.5 | --    |
| 10/10/96    | 6.96                               | 2.84               | 4.12           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5           | <0.5   | <2.5 | --    |
| 01/15/97    | 6.96                               | 6.02               | 0.94           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5           | <0.5   | <2.5 | --    |
| 04/03/97    | 6.96                               | 4.76               | 2.20           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5           | <0.5   | <2.5 | --    |
| 07/09/97    | 6.96                               | 2.86               | 4.30           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5           | <0.5   | <2.5 | --    |
| 10/29/97    | 6.96                               | 2.39               | 4.57           | --                                      | --          | --                | --                          | <50   | <0.5    | <0.5    | <0.5           | <0.5   | <2.5 | --    |
| 01/14/98    | 6.96                               | 6.13               | 0.83           | --                                      | --          | --                | Gauged and sampled annually | <50   | <0.5    | <0.5    | <0.5           | <0.5   | <2.5 | --    |



### Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Volumetric Measurements are in gallons.

Analytical results are in parts per billion (ppb)

| DATE                           | Well Head Elev. | Ground Water Elev. | Depth To Water | SPH Thickness | SPH Removed | Total SPH Removed | Notes                       | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylene | MTBE | Other |
|--------------------------------|-----------------|--------------------|----------------|---------------|-------------|-------------------|-----------------------------|--------------|---------|---------|---------------|--------|------|-------|
| <b>MW-9</b>                    |                 |                    |                |               |             |                   |                             |              |         |         |               |        |      |       |
| 10/17/95                       | 7.21            | 2.41               | 4.80           | --            | --          | --                | --                          | --           | --      | --      | --            | --     | --   | --    |
| 10/30/95                       | 7.21            | 2.24               | 4.97           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 01/22/96                       | 7.21            | 3.81               | 3.40           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 04/24/96                       | 7.21            | 3.03               | 4.18           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 07/29/96                       | 7.21            | 2.52               | 4.69           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 10/10/96                       | 7.21            | 2.01               | 5.20           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 01/15/97                       | 7.21            | 3.90               | 3.31           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 04/03/97                       | 7.21            | 2.64               | 4.57           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 07/09/97                       | 7.21            | 2.17               | 5.04           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 10/29/97                       | 7.21            | 2.25               | 4.96           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 01/14/98                       | 7.21            | 4.81               | 2.40           | --            | --          | --                | Gauged and sampled annually | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| <b>MW-10</b>                   |                 |                    |                |               |             |                   |                             |              |         |         |               |        |      |       |
| 10/17/95                       | 7.28            | 2.23               | 5.05           | --            | --          | --                | --                          | --           | --      | --      | --            | --     | --   | --    |
| 10/30/95                       | 7.28            | 2.17               | 5.11           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | 5.1  | --    |
| 01/22/96                       | 7.28            | 3.25               | 4.03           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | 0.70   | 17   | --    |
| 04/24/96                       | 7.28            | 2.98               | 4.30           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | 12   | --    |
| 07/29/96                       | 7.28            | 2.58               | 4.70           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | 14   | --    |
| 10/10/96                       | 7.28            | 2.04               | 5.24           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 01/15/97                       | 7.28            | 3.93               | 3.35           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 04/03/97                       | 7.28            | 2.64               | 4.64           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | 8.2  | --    |
| 07/09/97                       | 7.28            | 2.16               | 5.12           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 10/29/97                       | 7.28            | 2.18               | 5.10           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | 5.3  | --    |
| 01/14/98                       | 7.28            | 4.20               | 3.08           | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | 8.6  | --    |
| 04/17/98                       | 7.28            | 3.49               | 3.79           | --            | --          | --                | Sampled biannually          | --           | --      | --      | --            | --     | --   | --    |
| <b>TMW-1</b>                   |                 |                    |                |               |             |                   |                             |              |         |         |               |        |      |       |
| 11/11/93                       | --              | --                 | --             | --            | --          | --                | --                          | <1.0         | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| NO LONGER MONITORED OR SAMPLED |                 |                    |                |               |             |                   |                             |              |         |         |               |        |      |       |
| <b>3115A GIBBONS DR.</b>       |                 |                    |                |               |             |                   |                             |              |         |         |               |        |      |       |
| 01/14/98                       | --              | --                 | --             | --            | --          | --                | --                          | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |

## Cumulative Table of Well Data and Analytical Results

| Vertical Measurements are in feet. |                 |                    | Volumetric Measurements are in gallons. |               |             |                   | Analytical results are in parts per billion (ppb) |              |         |         |               |        |      |       |
|------------------------------------|-----------------|--------------------|---|---------------|-------------|-------------------|---|--------------|---------|---------|---------------|--------|------|-------|
| DATE                               | Well Head Elev. | Ground Water Elev. | Depth To Water                          | SPH Thickness | SPH Removed | Total SPH Removed | Notes   | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylene | MTBE | Other |
| <b>TRIP BLANK</b>                  |                 |                    |   |               |             |                   |   |              |         |         |               |        |      |       |
| 02/14/90                           | --              | --                 | --                                      | --            | --          | --                | --  | <50          | <0.5    | 1.1     | <0.5          | <0.5   | --   | --    |
| 09/06/91                           | --              | --                 | --                                      | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 12/15/91                           | --              | --                 | --                                      | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 03/03/92                           | --              | --                 | --                                      | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 06/04/92                           | --              | --                 | --                                      | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 10/13/92                           | --              | --                 | --                                      | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 01/11/93                           | --              | --                 | --                                      | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 04/14/93                           | --              | --                 | --                                      | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 07/13/93                           | --              | --                 | --                                      | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 10/19/93                           | --              | --                 | --                                      | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <1.5   | --   | --    |
| 01/27/94                           | --              | --                 | --                                      | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 04/07/94                           | --              | --                 | --                                      | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 07/01/94                           | --              | --                 | --                                      | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 10/05/94                           | --              | --                 | --                                      | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 01/12/95                           | --              | --                 | --                                      | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 04/26/95                           | --              | --                 | --                                      | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 07/12/95                           | --              | --                 | --                                      | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 10/30/95                           | --              | --                 | --                                      | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | --   | --    |
| 01/22/96                           | --              | --                 | --                                      | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 04/24/96                           | --              | --                 | --                                      | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 07/29/96                           | --              | --                 | --                                      | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 10/10/96                           | --              | --                 | --                                      | --            | --          | --                | --  | --           | --      | --      | --            | --     | --   | --    |
| 01/15/97                           | --              | --                 | --                                      | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 04/03/97                           | --              | --                 | --                                      | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 07/09/97                           | --              | --                 | --                                      | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 10/29/97                           | --              | --                 | --                                      | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 01/14/98                           | --              | --                 | --                                      | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |
| 04/17/98                           | --              | --                 | --                                      | --            | --          | --                | --  | <50          | <0.5    | <0.5    | <0.5          | <0.5   | <2.5 | --    |

Note: Blaine Tech Services, Inc. began routine monitoring of the groundwater wells at this site on November 1, 1994. Earlier field data and analytical results are drawn from the September 27, 1994 Groundwater Technology, Inc. report.

**ABBREVIATIONS:**

TPH = Total Petroleum Hydrocarbons  
 SPH = Separate-Phase Hydrocarbons  
 MTBE = Methyl t-butyl ether

# **Analytical Appendix**



# Sequoia Analytical

680 Chesapeake Drive  
404 N. Wiger Lane  
819 Striker Avenue, Suite 8  
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063  
Walnut Creek, CA 94598  
Sacramento, CA 95834  
Petaluma, CA 94954

(650) 364-9600  
(510) 988-9600  
(916) 921-9600  
(707) 792-1865

FAX (650) 364-9233  
FAX (510) 988-9673  
FAX (916) 921-0100  
FAX (707) 792-0342

|  |   |   |
|--|---|---|
| Blaine Tech Services<br>1680 Rogers Avenue<br>San Jose, CA 95112 | Client Proj. ID: Chevron 9-1153/980417-S1<br>Sample Descript: MW-6<br>Matrix: LIQUID<br>Analysis Method: 8015Mod/8020<br>Lab Number: 9804C71-01 | Sampled: 04/17/98<br>Received: 04/20/98<br>Analyzed: 04/27/98<br>Reported: 04/30/98 |
| Attention: Fran Thie   |   |   |

QC Batch Number: GC042798BTEX03A  
Instrument ID: GCHP03

## Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

| Analyte               | Detection Limit<br>ug/L | Sample Results<br>ug/L |
|-----------------------|-------------------------|------------------------|
| TPPH as Gas           | 50                      | N.D.                   |
| Methyl t-Butyl Ether  | 2.5                     | N.D.                   |
| <b>Benzene</b>        | <b>0.50</b>             | <b>1.7</b>             |
| Toluene               | 0.50                    | N.D.                   |
| Ethyl Benzene         | 0.50                    | N.D.                   |
| Xylenes (Total)       | 0.50                    | N.D.                   |
| Chromatogram Pattern: |                         |                        |
| <b>Surrogates</b>     | <b>Control Limits %</b> | <b>% Recovery</b>      |
| Trifluorotoluene      | 70 130                  | 98                     |

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Peggy Penner  
Project Manager





Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112

Client Proj. ID: Chevron 9-1153/980417-S1  
Sample Descript: MW-7  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9804C71-02

Sampled: 04/17/98  
Received: 04/20/98  
Analyzed: 04/27/98  
Reported: 04/30/98

QC Batch Number: GC042798BTEX03A  
Instrument ID: GCHP03

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

| Analyte               | Detection Limit<br>ug/L | Sample Results<br>ug/L |
|-----------------------|-------------------------|------------------------|
| TPPH as Gas           | 5000                    | 13000                  |
| Methyl t-Butyl Ether  | 250                     | 250                    |
| Benzene               | 50                      | 4200                   |
| Toluene               | 50                      | 98                     |
| Ethyl Benzene         | 50                      | 250                    |
| Xylenes (Total)       | 50                      | 240                    |
| Chromatogram Pattern: |                         | GAS                    |
| <b>Surrogates</b>     | <b>Control Limits %</b> | <b>% Recovery</b>      |
| Trifluorotoluene      | 70 130                  | 104                    |

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**

Peggy Penner  
Project Manager





|  |   |   |
|--|---|---|
| Blaine Tech Services<br>1680 Rogers Avenue<br>San Jose, CA 95112 | Client Proj. ID: Chevron 9-1153/980417-S1<br>Sample Descript: TB<br>Matrix: LIQUID<br>Analysis Method: 8015Mod/8020<br>Lab Number: 9804C71-04 | Sampled: 04/17/98<br>Received: 04/20/98<br>Analyzed: 04/25/98<br>Reported: 04/30/98 |
| Attention: Fran Thie   |   |   |


QC Batch Number: GC042598BTEX17A  
Instrument ID: GCHP17

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

| Analyte               | Detection Limit<br>ug/L     | Sample Results<br>ug/L |
|-----------------------|-----------------------------|------------------------|
| TPPH as Gas           | 50                          | N.D.                   |
| Methyl t-Butyl Ether  | 2.5                         | N.D.                   |
| Benzene               | 0.50                        | N.D.                   |
| Toluene               | 0.50                        | N.D.                   |
| Ethyl Benzene         | 0.50                        | N.D.                   |
| Xylenes (Total)       | 0.50                        | N.D.                   |
| Chromatogram Pattern: |                             |                        |
| <b>Surrogates</b>     | <b>Control Limits %</b>     | <b>% Recovery</b>      |
| Trifluorotoluene      | 70                      130 | 83                     |

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

  
\_\_\_\_\_  
Peggy Penner  
Project Manager





# Sequoia Analytical

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(916) 921-9600 FAX (916) 921-0100  
(707) 792-1865 FAX (707) 792-0342

Blaine Tech Services  
1680 Rogers Ave.  
San Jose, CA 95112  
Attention: Fran Thie

Client Project ID: Chevron 9-1153/980417-S1

QC Sample Group: 9804C71-04

Reported: Apr 30, 1998

## QUALITY CONTROL DATA REPORT

Matrix: Liquid  
Method: EPA 8015/8020  
Analyst: A. MIRAFTAB

**ANALYTE** Benzene Ethylbenzene Toluene Xylenes BTEX as TPH

QC Batch #: GC042598BTEX17A

Sample No.: GW9804C72-6

|                              |         |         |         |         |         |
|------------------------------|---------|---------|---------|---------|---------|
| Date Prepared:               | 4/25/98 | 4/25/98 | 4/25/98 | 4/25/98 | 4/25/98 |
| Date Analyzed:               | 4/25/98 | 4/25/98 | 4/25/98 | 4/25/98 | 4/25/98 |
| Instrument I.D.#:            | GCHP17  | GCHP17  | GCHP17  | GCHP17  | GCHP17  |
| Sample Conc., ug/L:          | N.D.    | N.D.    | N.D.    | N.D.    | N.D.    |
| Conc. Spiked, ug/L:          | 10      | 10      | 10      | 30      | 60      |
| Matrix Spike, ug/L:          | 11      | 11      | 11      | 29      | 60      |
| % Recovery:                  | 110     | 110     | 110     | 97      | 100.0   |
| Matrix pike Duplicate, ug/L: | 11      | 11      | 10.0    | 28      | 58      |
| % Recovery:                  | 110     | 110     | 100.0   | 93      | 97      |
| relative % Difference:       | 0.0     | 0.0     | 9.5     | 4.2     | 3.0     |
| RPD Control Limits:          | 0-25    | 0-25    | 0-25    | 0-25    | 0-25    |

LCS Batch#: GAWBLK042598A

|                     |         |         |         |         |         |
|---------------------|---------|---------|---------|---------|---------|
| Date Prepared:      | 4/25/98 | 4/25/98 | 4/25/98 | 4/25/98 | 4/25/98 |
| Date Analyzed:      | 4/25/98 | 4/25/98 | 4/25/98 | 4/25/98 | 4/25/98 |
| Instrument I.D.#:   | GCHP17  | GCHP17  | GCHP17  | GCHP17  | GCHP17  |
| Conc. Spiked, ug/L: | 10      | 10      | 10      | 30      | 60      |
| LCS Recovery, ug/L: | 11      | 11      | 9.4     | 30      | 59      |
| LCS % Recovery:     | 110     | 110     | 94      | 100.0   | 98      |

### Percent Recovery Control Limits:

|       |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|
| MSMSD | 60-140 | 60-140 | 60-140 | 60-140 | 60-140 |
| LCS   | 70-130 | 70-130 | 70-130 | 70-130 | 70-130 |

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

#### Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Peggy Penner  
Project Manager





# Sequoia Analytical

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|  |   |
|--|---|
| Blaine Tech Services<br>1680 Rogers Ave.<br>San Jose, CA 95112<br>Attention: Fran Thie | Client Project ID: Chevron 9-1153/980417-S1 |
| QC Sample Group: 9804C71-01-02   | Reported: Apr 30, 1998                      |

## QUALITY CONTROL DATA REPORT

|                              |         |              |         |         |             |
|------------------------------|---------|--------------|---------|---------|-------------|
| <b>Matrix:</b> Liquid        |         |              |         |         |             |
| <b>Method:</b> EPA 8015/8020 |         |              |         |         |             |
| <b>Analyst:</b> DEMARTINI    |         |              |         |         |             |
| <b>ANALYTE</b>               | Benzene | Ethylbenzene | Toluene | Xylenes | BTEX as TPH |

QC Batch #: GC042798BTEX03A

Sample No.: GW9804E16-1

|                                     |         |         |         |         |         |
|-------------------------------------|---------|---------|---------|---------|---------|
| <b>Date Prepared:</b>               | 4/27/98 | 4/27/98 | 4/27/98 | 4/27/98 | 4/27/98 |
| <b>Date Analyzed:</b>               | 4/27/98 | 4/27/98 | 4/27/98 | 4/27/98 | 4/27/98 |
| <b>Instrument I.D.#:</b>            | GCHP03  | GCHP03  | GCHP03  | GCHP03  | GCHP03  |
| <b>Sample Conc., ug/L:</b>          | N.D.    | N.D.    | N.D.    | N.D.    | N.D.    |
| <b>Conc. Spiked, ug/L:</b>          | 10      | 10      | 10      | 30      | 60      |
| <b>Matrix Spike, ug/L:</b>          | 10.0    | 10.0    | 10.0    | 31      | 67      |
| <b>% Recovery:</b>                  | 100.0   | 100.0   | 100.0   | 103     | 112     |
| <b>Matrix pike Duplicate, ug/L:</b> | 10.0    | 10.0    | 10.0    | 31      | 67      |
| <b>% Recovery:</b>                  | 100.0   | 100.0   | 100.0   | 103     | 112     |
| <b>Relative % Difference:</b>       | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| <b>RPD Control Limits:</b>          | 0-25    | 0-25    | 0-25    | 0-25    | 0-25    |

LCS Batch#: GAWBLK042798A

|                            |         |         |         |         |         |
|----------------------------|---------|---------|---------|---------|---------|
| <b>Date Prepared:</b>      | 4/27/98 | 4/27/98 | 4/27/98 | 4/27/98 | 4/27/98 |
| <b>Date Analyzed:</b>      | 4/27/98 | 4/27/98 | 4/27/98 | 4/27/98 | 4/27/98 |
| <b>Instrument I.D.#:</b>   | GCHP03  | GCHP03  | GCHP03  | GCHP03  | GCHP03  |
| <b>Conc. Spiked, ug/L:</b> | 10      | 10      | 10      | 30      | 60      |
| <b>LCS Recovery, ug/L:</b> | 10.0    | 10.0    | 10.0    | 31      | 66      |
| <b>LCS % Recovery:</b>     | 100.0   | 100.0   | 100.0   | 103     | 110     |

Percent Recovery Control Limits:

|        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|
| MS/MSD | 60-140 | 60-140 | 60-140 | 60-140 | 60-140 |
| LCS    | 70-130 | 70-130 | 70-130 | 70-130 | 70-130 |

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

**Please Note:**  
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

**SEQUOIA ANALYTICAL**  
  
Peggy Penner  
Project Manager







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Analytical

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FAX (707) 792-0342

Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112  
Attention: Fran Thie

Client Proj. ID: Chevron 9-1153/980417-S1

Received: 04/20/98

Lab Proj. ID: 9804C71

Reported: 04/30/98

### LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 6 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

TPPH Note: Sample 9804C71-02 was diluted 100-fold.

SEQUOIA ANALYTICAL

Peggy Fenner  
Project Manager







# **Field Data Sheets**



## CHEVRON WELL MONITORING DATA SHEET

|                                 |                                       |
|---------------------------------|---------------------------------------|
| Project #: 980417-J1            | Station #: 9-1153                     |
| Sampler: Steve Smith            | Date: 4/16/98                         |
| Well I.D.: C-1                  | Well Diameter: 2 (3) 4 6 8 _____      |
| Total Well Depth:               | Depth to Water: 2.65                  |
| Depth to Free Product: 2.25     | Thickness of Free Product (feet): .40 |
| Referenced to: <u>PVC</u> Grade | D.O. Meter (if req'd): YSI HACH       |

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 2"            | 0.16       | 5"            | 1.02                        |
| 3"            | 0.37       | 6"            | 1.47                        |
| 4"            | 0.65       | Other         | radius <sup>2</sup> * 0.163 |

|                      |                   |
|----------------------|-------------------|
| Purge Method:        | Sampling Method:  |
| Bailer               | Bailer            |
| Disposable Bailer    | Disposable Bailer |
| Middleburg           | Extraction Port   |
| Electric Submersible | Other: _____      |
| Extraction Pump      |                   |
| Other: _____         |                   |

|                       |   |                   |   |                   |
|-----------------------|---|-------------------|---|-------------------|
| _____                 | X | _____             | = | _____ Gals.       |
| 1 Case Volume (Gals.) |   | Specified Volumes |   | Calculated Volume |

| Time | Temp (°F) | pH | Cond. | Gals. Removed | Observations       |
|------|-----------|----|-------|---------------|--------------------|
|      |           |    |       |               |                    |
|      |           |    |       |               | Emptied Skimmer    |
|      |           |    |       |               | Bailed FP ≈ 400 ml |
|      |           |    |       |               |                    |
|      |           |    |       |               |                    |

|  |   |      |   |
|--|---|------|---|
| Did well dewater?                          | Yes   | No   | Gallons actually evacuated:                         |
| Sampling Time:                             | Sampling Date:                                |      |   |
| Sample I.D.:                               | Laboratory: Sequoia GTEL N. Creek Assoc. Labs |      |   |
| Analyzed for: TPH-G BTEX MTBE TPH-D Other: |   |      |   |
| Duplicate I.D.:                            | Analyzed for: TPH-G BTEX MTBE TPH-D Other:    |      |   |
| D.O. (if req'd):                           | Pre-purge:                                    | mg/L | Post-purge: <span style="float: right;">mg/L</span> |
| O.R.P. (if req'd):                         | Pre-purge:                                    | mV   | Post-purge: <span style="float: right;">mV</span>   |

# CHEVRON WELL MONITORING DATA SHEET

|  |                                   |
|--|-----------------------------------|
| Project #: 980417-J1                         | Station #: 9-1153                 |
| Sampler: Steve Smith                         | Date: 4/17/98                     |
| Well I.D.: mw-6                              | Well Diameter: (2) 3 4 6 8 _____  |
| Total Well Depth: 13.91                      | Depth to Water: 2.94              |
| Depth to Free Product: <del>          </del> | Thickness of Free Product (feet): |
| Referenced to: (PVC) Grade                   | D.O. Meter (if req'd): YSI HACH   |

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 2"            | 0.16       | 5"            | 1.02                        |
| 3"            | 0.37       | 6"            | 1.47                        |
| 4"            | 0.65       | Other         | radius <sup>2</sup> * 0.163 |

|  |   |
|--|---|
| Purge Method: Bailer<br>Disposable Bailer <input checked="" type="checkbox"/><br>Middleburg<br>Electric Submersible<br>Extraction Pump<br>Other: _____ | Sampling Method: Bailer<br>Disposable Bailer <input checked="" type="checkbox"/><br>Extraction Port<br>Other: _____ |
|--|---|

|                       |   |                   |   |                   |       |
|-----------------------|---|-------------------|---|-------------------|-------|
| 1.8                   | x | 3                 | = | 5.4               | Gals. |
| 1 Case Volume (Gals.) |   | Specified Volumes |   | Calculated Volume |       |

| Time            | Temp (°F) | pH  | Cond. | Gals. Removed | Observations |
|-----------------|-----------|-----|-------|---------------|--------------|
| 8 <sup>38</sup> | 60.0      | 6.6 | 830   | 2.0           |              |
| 8 <sup>41</sup> | 60.2      | 6.3 | 740   | 3.5           |              |
| 8 <sup>44</sup> | 60.0      | 6.3 | 760   | 5.5           |              |
|                 |           |     |       |               |              |
|                 |           |     |       |               |              |

|   |  |
|---|--|
| Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Gallons actually evacuated: 5.5  |
| Sampling Time: 8 <sup>49</sup>  | Sampling Date: 4/17/98   |
| Sample I.D.: mw-6   | Laboratory: (Sequoia) GTEL N. Creek Assoc. Labs  |
| Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:                                      |  |
| Duplicate I.D.:   | Analyzed for: TPH-G BTEX MTBE TPH-D Other:   |
| D.O. (if req'd):  | Pre-purge: <span style="float: right;">mg/L</span> Post-purge: <span style="float: right;">mg/L</span> |
| O.R.P. (if req'd):  | Pre-purge: <span style="float: right;">mV</span> Post-purge: <span style="float: right;">mV</span>     |

# CHEVRON WELL MONITORING DATA SHEET

|                            |                                   |
|----------------------------|-----------------------------------|
| Project #: 980417-51       | Station #: 9-1153                 |
| Sampler: Steve Smith       | Date: 4/17/98                     |
| Well I.D.: MW-7            | Well Diameter: (2) 3 4 6 8        |
| Total Well Depth: 14.52    | Depth to Water: 3.00              |
| Depth to Free Product:     | Thickness of Free Product (feet): |
| Referenced to: (PVC) Grade | D.O. Meter (if req'd): YSI HACH   |

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 2"            | 0.16       | 5"            | 1.02                        |
| 3"            | 0.37       | 6"            | 1.47                        |
| 4"            | 0.65       | Other         | radius <sup>2</sup> * 0.163 |

|  |   |
|--|---|
| Purge Method: Bailer<br>Disposable Bailer <input checked="" type="checkbox"/><br>Middleburg<br>Electric Submersible<br>Extraction Pump<br>Other: _____ | Sampling Method: Bailer<br>Disposable Bailer <input checked="" type="checkbox"/><br>Extraction Port<br>Other: _____ |
|--|---|

|                       |   |                   |   |                   |       |
|-----------------------|---|-------------------|---|-------------------|-------|
| 1.8                   | x | 3                 | = | 5.4               | Gals. |
| 1 Case Volume (Gals.) |   | Specified Volumes |   | Calculated Volume |       |

| Time | Temp (°F) | pH  | Cond. | Gals. Removed | Observations |
|------|-----------|-----|-------|---------------|--------------|
| 8:55 | 64.0      | 6.4 | 1300  | 2.0           | ODOR         |
| 8:58 | 63.4      | 6.7 | 1300  | 3.5           |              |
| 9:01 | 62.8      | 6.8 | 1300  | 5.5           |              |
|      |           |     |       |               |              |
|      |           |     |       |               |              |

|                     |   |      |                                 |
|---------------------|---|------|---------------------------------|
| Did well dewater?   | Yes   | (No) | Gallons actually evacuated: 5.5 |
| Sampling Time: 9:05 | Sampling Date: 4/17/98                          |      |                                 |
| Sample I.D.: MW-7   | Laboratory: (Sequoia) GTEL N. Creek Assoc. Labs |      |                                 |

|  |  |      |             |      |
|--|--|------|-------------|------|
| Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other: | Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other: |      |             |      |
| Duplicate I.D.: DUP                              |  |      |             |      |
| D.O. (if req'd):                                 | Pre-purge:                                       | mg/L | Post-purge: | mg/L |
| O.R.P. (if req'd):                               | Pre-purge:                                       | mV   | Post-purge: | mV   |





## CHEVRON WELL MONITORING DATA SHEET

|                                 |                                   |
|---------------------------------|-----------------------------------|
| Project #: 980316-J1            | Station #: 9-1153                 |
| Sampler: Steve Smith            | Date: 3/16/98                     |
| Well I.D.: C-1                  | Well Diameter: 2 <u>3</u> 4 6 8   |
| Total Well Depth: —             | Depth to Water: 2.50              |
| Depth to Free Product: 2.00     | Thickness of Free Product (feet): |
| Referenced to: <u>PVC</u> Grade | D.O. Meter (if req'd): YSI HACH   |

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 2"            | 0.16       | 5"            | 1.02                        |
| 3"            | 0.37       | 6"            | 1.47                        |
| 4"            | 0.65       | Other         | radius <sup>2</sup> * 0.163 |

|   |  |
|---|--|
| Purge Method: <del>Bailer</del><br>Disposable Bailer<br>Middleburg<br>Electric Submersible<br>Extraction Pump<br>Other: _____ | Sampling Method: <del>Bailer</del><br>Disposable Bailer<br>Extraction Port<br>Other: _____ |
|---|--|

|                       |   |                   |   |                   |
|-----------------------|---|-------------------|---|-------------------|
| _____                 | X | _____             | = | _____ Gals.       |
| 1 Case Volume (Gals.) |   | Specified Volumes |   | Calculated Volume |

| Time | Temp (°F) | pH | Cond.  | Gals. Removed | Observations |
|------|-----------|----|--------|---------------|--------------|
|      |           |    |        |               |              |
|      |           | ↗  | 500 ml | Free Product  | removed      |
|      |           |    |        |               |              |
|      |           |    |        |               |              |

|                                     |   |      |                             |
|-------------------------------------|---|------|-----------------------------|
| Did well dewater?                   | Yes   | No   | Gallons actually evacuated: |
| Sampling Time:                      | Sampling Date:                                |      |                             |
| Sample I.D.: C-1                    | Laboratory: Sequoia GTEL N. Creek Assoc. Labs |      |                             |
| Analyzed for: TPH-G BTEX MTBE TPH-D | Other:  |      |                             |
| Duplicate I.D.:                     | Analyzed for: TPH-G BTEX MTBE TPH-D Other:    |      |                             |
| D.O. (if req'd):                    | Pre-purge:                                    | mg/L | Post-purge: mg/L            |
| O.R.P. (if req'd):                  | Pre-purge:                                    | mV   | Post-purge: mV              |



## CHEVRON WELL MONITORING DATA SHEET

|                             |                                       |
|-----------------------------|---------------------------------------|
| Project #: 930202-A1        | Station #: 9-1153                     |
| Sampler: AL                 | Date: 02-02-98                        |
| Well I.D.: C-1              | Well Diameter: 2 (3) 4 6 8            |
| Total Well Depth: —         | Depth to Water: 2.35                  |
| Depth to Free Product: 2.30 | Thickness of Free Product (feet): .05 |
| Referenced to: PVC - Grade  | D.O. Meter (if req'd): YSI HACH       |

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 2"            | 0.16       | 5"            | 1.02                        |
| 3"            | 0.37       | 6"            | 1.47                        |
| 4"            | 0.65       | Other         | radius <sup>2</sup> * 0.163 |

|  |   |
|--|---|
| Purge Method: Bailer<br>Disposable Bailer<br>Middleburg<br>Electric Submersible<br>Extraction Pump<br>Other: _____ | Sampling Method: Bailer<br>Disposable Bailer *<br>Extraction Port<br>Other: _____ |
|--|---|

|                       |   |                   |   |                   |
|-----------------------|---|-------------------|---|-------------------|
| _____                 | X | _____             | = | _____ Gals.       |
| 1 Case Volume (Gals.) |   | Specified Volumes |   | Calculated Volume |

| Time | Temp (°F) | pH | Cond. | Gals. Removed | Observations     |
|------|-----------|----|-------|---------------|------------------|
|      |           |    |       |               |                  |
|      |           |    |       |               | F.P. = NO SAMPLE |
|      |           |    |       |               | REMOVED 100 ml   |
|      |           |    |       |               |                  |
|      |           |    |       |               |                  |

|                   |   |    |                             |
|-------------------|---|----|-----------------------------|
| Did well dewater? | Yes   | No | Gallons actually evacuated: |
| Sampling Time:    | Sampling Date:                                |    |                             |
| Sample I.D.:      | Laboratory: Sequoia GTEL N. Creek Assoc. Labs |    |                             |

|  |  |                        |
|--|--|------------------------|
| Analyzed for: TPH-G BTEX MTBE TPH-D Other: | Analyzed for: TPH-G BTEX MTBE TPH-D Other: |                        |
| D.O. (if req'd):                           | Pre-purge: _____ mg/L                      | Post-purge: _____ mg/L |
| O.R.P. (if req'd):                         | Pre-purge: _____ mV                        | Post-purge: _____ mV   |