

ENVIRONMENTAL
PROTECTION

98 JUN 16 PM 3:52



Chevron

June 15, 1998

Ms. Eva Chu
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 # 9-1723
9757 San Leandro Blvd.
San Leandro, California**

Dear Ms. Chu:

Enclosed is a copy of the Second Quarter Groundwater Monitoring report for 1998 that was prepared by our consultant Blaine Tech Services. Monitoring wells MW-5, MW-6 and MW-8 are sampled quarterly and MW-2 and MW-9 are sampled semiannually (1st and 3rd quarters). All wells are sampled and analyzed for TPH-g, BTEX and MtBE constituents.

The benzene constituent increased in monitoring well MW-5 and decreased in well MW-8. The concentrations were below method detection limits for all constituents in monitoring well MW-6.

The depth to ground water varied from 5.04 feet to 5.55 feet below grade, with a direction of flow westerly.

For your information, I have requested Cambria Environmental Technology, Inc. to look into **preparing a Risk Management Plan** and to work toward closer for this site. A representative from their office will probably be contacting you within the next ten days.

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

Sincerely

CHEVRON PRODUCTS COMPANY

Philip R. Briggs
Site Assessment and Remediation Project Manager



June 15, 1998
Ms. Eva Chu
Former Chevron Service Station #9-1723
Page 2

Enclosure

CC. Mr. Chuck Headlee
RWQWB- San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, CA 94612

Trustees of the Estate
Pacific American Management Co.
369 Broadway
San Francisco, CA 94133

Dr. Eric J. McHuron, CEG, CEA
President
McHuron Geosciences
1670 8th Avenue
San Francisco, CA 94122

Ms. Tara Arrowood
Cambria Environmental Technology, Inc.
1144 65th Street, Suite B
Oakland, CA 94608

Ms. Bette Owen, Chevron

Mr. Curtis Peck, Chevron, CRTC, RIC 100/10-3514

BLAINE
TECH SERVICES INC.



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

June 5, 1998

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

2nd Quarter 1998 Monitoring at 9-1723

Second Quarter 1998 Groundwater Monitoring at
Former Chevron Service Station Number 9-1723
9757 San Leandro Street
Oakland, CA

Monitoring Performed on May 1, 1998

Groundwater Sampling Report 980501-G-4

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,

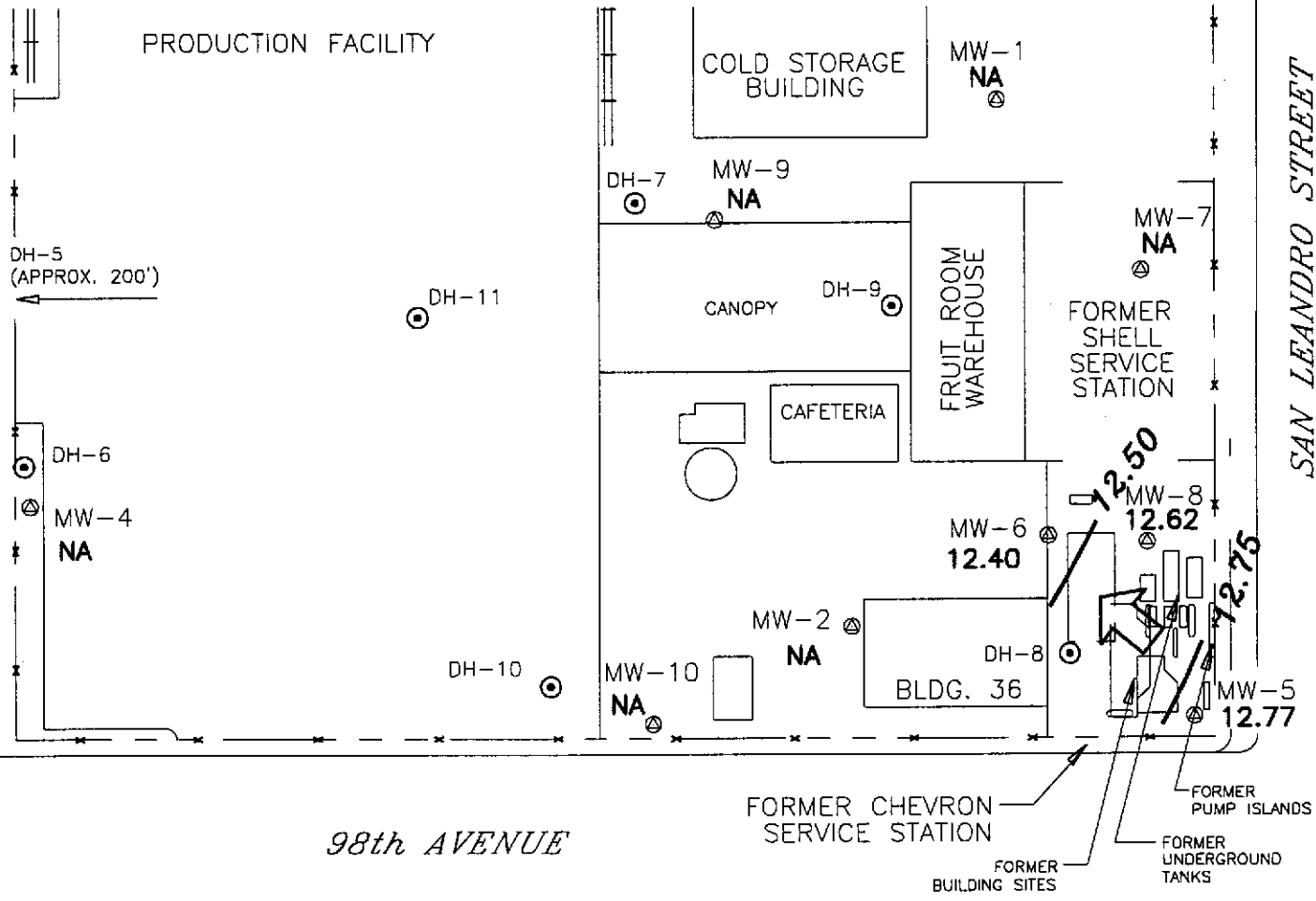
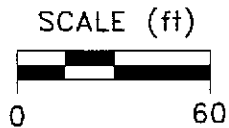
A handwritten signature in black ink, appearing to read "Francis Thie". The signature is written in a cursive style with a long horizontal stroke at the end.

Francis Thie
Vice President

FPT/aa

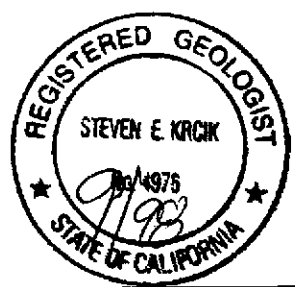
attachments: Professional Engineering Appendix
Cumulative Table of Field Data and Analytical Results
Analytical Appendix
Field Data Sheets

Professional Engineering Appendix



EXPLANATION

- ⊗ MONITORING WELL
- ⊙ SOIL BORING
- 12.62 GROUNDWATER ELEVATION (FT, MSL)
- 12.50 — GROUNDWATER ELEVATION CONTOUR (FT, MSL)
- NA DATA NOT AVAILABLE
- ↖ APPROXIMATE GROUNDWATER FLOW DIRECTION;
APPROXIMATE GRADIENT = 0.005



Base map from Geoconsultants, Inc.

PREPARED BY



engineering contracting firm

Former Chevron Station 9-1723
9757 San Leandro Street
Oakland, California

GROUNDWATER ELEVATION CONTOUR MAP,
MAY 1, 1998

FIGURE:
1
PROJECT:
DAC04

Table of Field Data and Analytical Results

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

| DATE | Well Head Elev. | Ground Water Elev. | Depth To Water | Notes | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylene | Lead | MTBE |
|--------------------------------|-----------------|--------------------|----------------|--------------------|--------------|---------|---------|---------------|--------|------|------|
| MW-1 | | | | | | | | | | | |
| 11/02/93 | 20.92 | 10.68 | 10.24 | -- | -- | -- | -- | -- | -- | -- | -- |
| 02/10/94 | 20.92 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 05/12/94 | 20.92 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 08/26/94 | 20.92 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| NO LONGER MONITORED OR SAMPLED | | | | | | | | | | | |
| MW-2 | | | | | | | | | | | |
| 11/02/93 | 21.31 | 10.83 | 10.48 | -- | -- | -- | -- | -- | -- | -- | -- |
| 02/10/94 | 21.31 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 05/12/94 | 21.31 | 11.94 | 9.37 | -- | 390 | 6.8 | 2.0 | 6.3 | 14 | -- | -- |
| 08/26/94 | 21.31 | -- | -- | Sampled biannually | -- | -- | -- | -- | -- | -- | -- |
| 02/01/95 | 21.31 | 13.76 | 7.55 | -- | 78 | 10 | 1.2 | <0.5 | 0.51 | -- | -- |
| 08/02/95 | 21.31 | 11.53 | 9.78 | -- | 100 | 3.5 | <0.5 | 2.6 | 4.1 | -- | -- |
| 01/31/96 | 21.31 | 14.38 | 6.93 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | <2.5 |
| 08/01/96 | 21.31 | 11.49 | 9.82 | -- | 73 | <0.5 | <0.5 | <0.5 | <0.5 | -- | 610 |
| 12/17/96 | 21.31 | 12.75 | 8.56 | -- | -- | -- | -- | -- | -- | -- | -- |
| 02/20/97 | 21.31 | 12.30 | 9.01 | -- | 280 | 6.7 | 0.56 | 1.5 | 2.9 | -- | 11 |
| 05/02/97 | 21.31 | 11.78 | 9.53 | -- | -- | -- | -- | -- | -- | -- | -- |
| 07/23/97 | 21.31 | 11.23 | 10.08 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | <2.5 |
| 02/04/98 | 21.31 | 16.06 | 5.25 | -- | <50 | 1.1 | <0.5 | <0.5 | <0.5 | -- | 5.6 |
| MW-4 | | | | | | | | | | | |
| 11/02/93 | -- | -- | 10.23 | -- | -- | -- | -- | -- | -- | -- | -- |
| 02/10/94 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 05/12/94 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 08/26/94 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

NO LONGER MONITORED OR SAMPLED

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

| DATE | Well Head Elev. | Ground Water Elev. | Depth To Water | Notes | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylene | Lead | MTBE |
|-------------|-----------------|--------------------|----------------|-------|--------------|---------|---------|---------------|--------|------|------|
| MW-5 | | | | | | | | | | | |
| 11/02/93 | 21.84 | 11.15 | 10.69 | -- | 790 | 43 | 3.4 | 22 | 12 | <400 | -- |
| 02/10/94 | 21.84 | 13.10 | 8.74 | -- | 1400 | 52 | 3.0 | 50 | 40 | -- | -- |
| 05/12/94 | 21.84 | 12.40 | 9.44 | -- | 1800 | 87 | 6.2 | 77 | 66 | -- | -- |
| 08/26/94 | 21.84 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11/11/94 | 21.84 | 13.50 | 8.34 | -- | 380 | 18 | <1.0 | 18 | 11 | -- | -- |
| 02/01/95 | 21.84 | 14.32 | 7.52 | -- | 570 | 36 | 0.59 | 21 | 11 | -- | -- |
| 05/18/95 | 21.84 | 12.87 | 8.97 | -- | 590 | 29 | 1.0 | 16 | 9.8 | -- | -- |
| 08/02/95 | 21.84 | 11.98 | 9.86 | -- | 210 | 9.2 | <0.5 | 4.0 | 1.2 | -- | -- |
| 11/01/95 | 21.84 | 11.58 | 10.26 | -- | 210 | 5.6 | <0.5 | 1.9 | <0.5 | -- | <2.5 |
| 01/31/96 | 21.84 | 14.72 | 7.12 | -- | 1200 | 50 | <5.0 | 19 | 29 | -- | <25 |
| 05/16/96 | 21.84 | 14.22 | 7.62 | -- | 440 | 14 | <0.5 | 17 | 8.6 | -- | 11 |
| 08/01/96 | 21.84 | 11.86 | 9.98 | -- | 58 | 1.4 | <0.5 | <0.5 | <0.5 | -- | 2.5 |
| 12/17/96 | 21.84 | 13.13 | 8.71 | -- | 300 | 9.7 | <0.5 | 11 | 6.3 | -- | 6.9 |
| 02/20/97 | 21.84 | 12.81 | 9.03 | -- | 350 | 6.7 | <0.5 | 4.3 | 1.9 | -- | 5.0 |
| 05/02/97 | 21.84 | 12.50 | 9.34 | -- | 270 | 4.8 | <0.5 | 3.5 | 1.3 | -- | 7.3 |
| 07/23/97 | 21.84 | 11.70 | 10.14 | -- | 290 | 3.4 | <0.5 | <0.5 | <0.5 | -- | 3.1 |
| 11/04/97 | 21.84 | 11.69 | 10.15 | -- | 180 | 3.8 | <0.5 | 1.5 | <0.5 | -- | 8.6 |
| 02/04/98 | 21.84 | 16.54 | 5.30 | -- | 140 | 4.3 | <0.5 | 8.5 | <0.5 | -- | <2.5 |
| 05/01/98 | 21.84 | 12.77 | 9.07 | -- | 1200 | 19 | <1.0 | 9.7 | 1.7 | -- | 25 |

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

| DATE | Well Head Elev. | Ground Water Elev. | Depth To Water | Notes | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylene | Lead | MTBE |
|-------------|-----------------|--------------------|----------------|--------------|--------------|---------|---------|---------------|--------|------|------|
| MW-6 | | | | | | | | | | | |
| 11/02/93 | 21.71 | 10.93 | 10.78 | -- | 300 | 19 | 1.8 | 2.5 | 5.0 | <400 | -- |
| 02/10/94 | 21.71 | 12.86 | 8.85 | -- | 200 | 10 | 0.9 | 2.0 | 4.0 | -- | -- |
| 05/12/94 | 21.71 | 12.08 | 9.63 | -- | 210 | 10 | 1.1 | 1.2 | 3.1 | -- | -- |
| 08/26/94 | 21.71 | 10.82 | 10.89 | -- | 310 | 16 | 1.4 | 2.3 | 7.1 | -- | -- |
| 11/11/94 | 21.71 | 13.25 | 8.46 | -- | <50 | 1.3 | <0.5 | <0.5 | 1.0 | -- | -- |
| 02/01/95 | 21.71 | 14.02 | 7.69 | -- | <50 | 1.9 | <0.5 | <0.5 | 0.51 | -- | -- |
| 05/18/95 | 21.71 | 12.43 | 9.28 | -- | <50 | 8.2 | <0.5 | <0.5 | <0.5 | -- | -- |
| 08/02/95 | 21.71 | 11.64 | 10.07 | -- | <50 | 2.3 | <0.5 | <0.5 | <0.5 | -- | -- |
| 11/01/95 | 21.71 | 11.31 | 10.40 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | <2.5 |
| 01/31/96 | 21.71 | 13.63 | 8.08 | -- | <50 | 0.98 | <0.5 | <0.5 | <0.5 | -- | <2.5 |
| 05/16/96 | 21.71 | 13.91 | 7.80 | -- | <50 | 1.6 | <0.5 | <0.5 | <0.5 | -- | <2.5 |
| 08/01/96 | 21.71 | 11.56 | 10.15 | -- | <50 | 0.82 | <0.5 | <0.5 | <0.5 | -- | <2.5 |
| 12/17/96 | 21.71 | 13.26 | 8.45 | -- | 63 | 2.6 | <0.5 | <0.5 | <0.5 | -- | <2.5 |
| 02/20/97 | 21.71 | -- | -- | Inaccessible | -- | -- | -- | -- | -- | -- | -- |
| 05/02/97 | 21.71 | -- | -- | Inaccessible | -- | -- | -- | -- | -- | -- | -- |
| 05/29/97 | 21.71 | 11.72 | 9.99 | -- | 120 | 1.8 | <0.5 | <0.5 | <0.5 | -- | 2.6 |
| 07/23/97 | 21.71 | 11.31 | 10.40 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | <2.5 |
| 11/04/97 | 21.71 | 11.38 | 10.33 | -- | 63 | 1.2 | <0.5 | <0.5 | <0.5 | -- | <2.5 |
| 02/04/98 | 21.71 | 16.19 | 5.52 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | <2.5 |
| 05/01/98 | 21.71 | 12.40 | 9.31 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | <2.5 |

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

| DATE | Well Head Elev. | Ground Water Elev. | Depth To Water | Notes | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylene | Lead | MTBE |
|-------------|-----------------|--------------------|----------------|-------|--------------|---------|---------|---------------|--------|------|------|
| MW-7 | | | | | | | | | | | |
| 11/02/93 | 20.95 | 10.88 | 10.07 | -- | -- | -- | -- | -- | -- | -- | -- |
| 02/10/94 | 20.95 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 05/12/94 | 20.95 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 08/26/94 | 20.95 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

NO LONGER MONITORED OR SAMPLED

MW-8

| | | | | | | | | | | | |
|----------|-------|-------|-------|--------------|--------|------|------|------|------|------|------|
| 11/02/93 | 21.84 | 11.02 | 10.82 | -- | 15,000 | 2000 | 440 | 420 | 1400 | <400 | -- |
| 02/10/94 | 21.84 | 12.97 | 8.87 | -- | 6500 | 1200 | 380 | 250 | 7900 | -- | -- |
| 05/12/94 | 21.84 | 12.19 | 9.65 | -- | 30,000 | 1400 | 2900 | 800 | 3800 | -- | -- |
| 08/26/94 | 21.84 | 10.90 | 10.94 | -- | 17,000 | 720 | 200 | 330 | 930 | -- | -- |
| 11/11/94 | 21.84 | 13.38 | 8.46 | -- | 6800 | 250 | 170 | 190 | 650 | -- | -- |
| 02/01/95 | 21.84 | 14.36 | 7.48 | -- | 330 | 68 | 2.8 | 2.7 | 4.3 | -- | -- |
| 05/18/95 | 21.84 | 12.54 | 9.30 | -- | 540 | 120 | 12 | 11 | 23 | -- | -- |
| 08/02/95 | 21.84 | 11.73 | 10.11 | -- | 1100 | 150 | 9.7 | 20 | 40 | -- | -- |
| 11/01/95 | 21.84 | 11.36 | 10.48 | -- | 1700 | 120 | 15 | 16 | 39 | -- | <5.0 |
| 01/31/96 | 21.84 | 14.64 | 7.20 | -- | 57 | 5.3 | <0.5 | <0.5 | <0.5 | -- | <2.5 |
| 05/16/96 | 21.84 | 13.99 | 7.85 | -- | 2100 | 260 | 43 | 56 | 130 | -- | 64 |
| 08/01/96 | 21.84 | 11.59 | 10.25 | -- | 1100 | 45 | 0.92 | 8.9 | 25 | -- | 7.4 |
| 12/17/96 | 21.84 | 12.95 | 8.89 | -- | 2000 | 280 | 30 | 51 | 88 | -- | 22 |
| 02/20/97 | 21.84 | -- | -- | Inaccessible | -- | -- | -- | -- | -- | -- | -- |
| 05/02/97 | 21.84 | -- | -- | Inaccessible | -- | -- | -- | -- | -- | -- | -- |
| 05/29/97 | 21.84 | 11.79 | 10.05 | -- | 3400 | 280 | 31 | 53 | 120 | -- | <50 |
| 07/23/97 | 21.84 | 11.48 | 10.36 | -- | 760 | 20 | 2.2 | 2.6 | 5.0 | -- | 9.7 |
| 11/04/97 | 21.84 | 11.49 | 10.35 | -- | 1100 | 150 | 13 | 22 | 39 | -- | 49 |
| 02/04/98 | 21.84 | 16.29 | 5.55 | -- | 270 | 6.8 | <0.5 | 3.3 | <0.5 | -- | <2.5 |
| 05/01/98 | 21.84 | 12.62 | 9.22 | -- | 190 | 5.3 | <0.5 | <0.5 | 0.75 | -- | 2.8 |

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

| DATE | Well Head Elev. | Ground Water Elev. | Depth To Water | Notes | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylene | Lead | MTBE |
|--------------|-----------------|--------------------|----------------|--------------------|--------------|---------|---------|---------------|--------|------|------|
| MW-9 | | | | | | | | | | | |
| 11/02/93 | 20.55 | 10.53 | 10.02 | -- | -- | -- | -- | -- | -- | -- | -- |
| 02/10/94 | 20.55 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 05/12/94 | 20.55 | 11.60 | 8.95 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 08/26/94 | 20.55 | -- | -- | Sampled biannually | -- | -- | -- | -- | -- | -- | -- |
| 02/01/95 | 20.55 | 13.35 | 7.20 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 08/02/95 | 20.55 | 11.22 | 9.33 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 01/31/96 | 20.55 | 14.10 | 6.45 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | <2.5 |
| 08/01/96 | 20.55 | 11.20 | 9.35 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | <2.5 |
| 12/17/96 | 20.55 | 12.29 | 8.26 | -- | -- | -- | -- | -- | -- | -- | -- |
| 02/20/97 | 20.55 | 12.09 | 8.46 | -- | 55* | 1.1 | <0.5 | <0.5 | <0.5 | -- | <2.5 |
| 05/02/97 | 20.55 | 11.45 | 9.10 | -- | -- | -- | -- | -- | -- | -- | -- |
| 07/23/97 | 20.55 | 10.95 | 9.60 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | <2.5 |
| 02/04/98 | 20.55 | 15.51 | 5.04 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | <2.5 |
| MW-10 | | | | | | | | | | | |
| 11/02/93 | 21.25 | 10.93 | 10.32 | -- | -- | -- | -- | -- | -- | -- | -- |
| 02/10/94 | 21.25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 05/12/94 | 21.25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 08/26/94 | 21.25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

NO LONGER MONITORED OR SAMPLED

* Chromatogram pattern indicates an unidentified hydrocarbon.

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

| DATE | Well Head Elev. | Ground Water Elev. | Depth To Water | Notes | TPH- Gasoline | Benzene | Toluene | Ethyl- Benzene | Xylene | Lead | MTBE |
|-------------------|-----------------|--------------------|----------------|-------|---------------|---------|---------|----------------|--------|------|------|
| TRIP BLANK | | | | | | | | | | | |
| 02/10/94 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 05/12/94 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 08/26/94 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 11/11/94 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 02/01/95 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 05/18/95 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 08/02/95 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 11/01/95 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 01/31/96 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | <2.5 |
| 05/16/96 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | <2.5 |
| 08/01/96 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | <2.5 |
| 12/17/96 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | <2.5 |
| 02/20/97 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | <2.5 |
| 05/02/97 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | <2.5 |
| 07/23/97 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | <2.5 |
| 02/04/98 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | <2.5 |
| 05/01/98 | -- | -- | -- | -- | <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 14, 1994 Groundwater Technology, Inc. report.

ABBREVIATIONS:

TPH = Total Petroleum Hydrocarbons
 MTBE = Methyl t-Butyl Ether

Analytical Appendix



Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Client Proj. ID: Chevron 9-1723/980501-G4
Sample Descript: MW-5
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9805223-01

Sampled: 05/01/98
Received: 05/05/98
Analyzed: 05/07/98
Reported: 05/11/98

QC Batch Number: GC050798BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

| Analyte | Detection Limit ug/L | Sample Results ug/L |
|-----------------------|-------------------------|------------------------|
| TPPH as Gas | 100 | 1200 |
| Methyl t-Butyl Ether | 5.0 | 25 |
| Benzene | 1.0 | 19 |
| Toluene | 1.0 | N.D. |
| Ethyl Benzene | 1.0 | 9.7 |
| Xylenes (Total) | 1.0 | 1.7 |
| Chromatogram Pattern: | | GAS |
| Surrogates | Control Limits % | % Recovery |
| Trifluorotoluene | 70 130 | 103 |

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

SEQUOIA ANALYTICAL - ELAP #1210


Mike Gregory
Project Manager





| | | |
|--|---|---|
| Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 | Client Proj. ID: Chevron 9-1723/980501-G4 Sample Descript: MW-6 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9805223-02 | Sampled: 05/01/98 Received: 05/05/98 Analyzed: 05/07/98 Reported: 05/11/98 |
|--|---|---|

QC Batch Number: GC050798BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

| Analyte | Detection Limit ug/L | Sample Results 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: | | |
| Surrogates | Control Limits % | % Recovery |
| Trifluorotoluene | 70 130 | 85 |

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

SEQUOIA ANALYTICAL - ELAP #1210


Mike Gregory
Project Manager





| | | |
|--|---|---|
| Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 | Client Proj. ID: Chevron 9-1723/980501-G4 Sample Descript: MW-8 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9805223-03 | Sampled: 05/01/98 Received: 05/05/98 Analyzed: 05/07/98 Reported: 05/11/98 |
|--|---|---|

QC Batch Number: GC050798BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

| Analyte | Detection Limit ug/L | Sample Results ug/L |
|-----------------------|-------------------------|------------------------|
| TPPH as Gas | 50 | 190 |
| Methyl t-Butyl Ether | 2.5 | 2.8 |
| Benzene | 0.50 | 5.3 |
| Toluene | 0.50 | N.D. |
| Ethyl Benzene | 0.50 | N.D. |
| Xylenes (Total) | 0.50 | 0.75 |
| Chromatogram Pattern: | | GAS |

| Surrogates | Control Limits % | % Recovery |
|------------------|------------------|------------|
| Trifluorotoluene | 70 130 | 105 |

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

SEQUOIA ANALYTICAL - ELAP #1210


Mike Gregory
Project Manager





| | | |
|--|---|---|
| Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 | Client Proj. ID: Chevron 9-1723/980501-G4 Sample Descript: TB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9805223-04 | Sampled: 05/01/98 Received: 05/05/98 Analyzed: 05/07/98 Reported: 05/11/98 |
|--|---|---|

QC Batch Number: GC050798BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

| Analyte | Detection Limit ug/L | Sample Results 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: | | |
| Surrogates | Control Limits % | % Recovery |
| Trifluorotoluene | 70 130 | 94 |

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

SEQUOIA ANALYTICAL - ELAP #1210


Mike Gregory
Project Manager





Sequoia
Analytical

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

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

Client Proj. ID: Chevron 9-1723/980501-G4

Received: 05/05/98

Lab Proj. ID: 9805223

Reported: 05/11/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 7 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

TPGBMW: Sample 9805223-01 was diluted 2-fold.

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager





Sequoia Analytical

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FAX (707) 792-0342

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

Client Project ID: Chevron 9-1723/980501-G4

QC Sample Group: 9805223-01-04

Reported: Jun 3, 1998

QUALITY CONTROL DATA REPORT

Matrix: Liquid
Method: EPA 8015/8020
Analyst: G. PESHINA

| ANALYTE | Benzene | Toluene | Ethylbenzene | Xylenes | BTEX as TPH |
|---------|---------|---------|--------------|---------|-------------|
|---------|---------|---------|--------------|---------|-------------|

QC Batch #: GC050798BTEX06A

Sample No.: GS9804J67-16

Date Prepared: 5/7/98 5/7/98 5/7/98 5/7/98 5/7/98

Date Analyzed: 5/7/98 5/7/98 5/7/98 5/7/98 5/7/98

Instrument I.D.#: GCHP6 GCHP6 GCHP6 GCHP6 GCHP6

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: 9.2 9.0 9.1 28 46

% Recovery: 92 90 91 93 77

Matrix

Spike Duplicate, ug/L: 8.9 8.6 8.7 26 44

% Recovery: 89 86 87 87 73

Relative % Difference: 3.3 4.5 4.5 6.7 5.3

RPD Control Limits: 0-25 0-25 0-25 0-25 0-25

LCS Batch#: GWBLK050798A

Date Prepared: 5/7/98 5/7/98 5/7/98 5/7/98 5/7/98

Date Analyzed: 5/7/98 5/7/98 5/7/98 5/7/98 5/7/98

Instrument I.D.#: GCHP6 GCHP6 GCHP6 GCHP6 GCHP6

Conc. Spiked, ug/L: 10 10 10 30 60

LCS Recovery, ug/L: 9.1 8.8 8.9 27 44

LCS % Recovery: 91 88 89 90 73

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


Mike Gregory
Project Manager



Field Data Sheets

CHEVRON WELL MONITORING DATA SHEET

| | |
|---------------------------------|-----------------------------------|
| Project #: <u>980501-64</u> | Station #: <u>9-1723</u> |
| Sampler: <u>M6</u> | Date: <u>5/1/98</u> |
| Well I.D.: <u>MW-5</u> | Well Diameter: <u>2</u> 3 4 6 8 |
| Total Well Depth: <u>17.58</u> | Depth to Water: <u>9.07</u> |
| Depth to Free Product: | 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 ² * 0.163 |

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

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|-------|
| <u>1.4</u> | x | <u>3</u> | = | <u>4.2</u> | Gals. |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Cond. | Gals. Removed | Observations |
|-------------|-------------|------------|-------------|---------------|--------------|
| <u>1340</u> | <u>64.6</u> | <u>7.2</u> | <u>1200</u> | <u>1.5</u> | <u>Odor</u> |
| <u>1343</u> | <u>65.0</u> | <u>7.2</u> | <u>1200</u> | <u>3.0</u> | |
| <u>1346</u> | <u>65.0</u> | <u>7.3</u> | <u>1100</u> | <u>4.5</u> | |
| | | | | | |
| | | | | | |

| | |
|--|--|
| Did well dewater? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> | Gallons actually evacuated: <u>4.5</u> |
| Sampling Time: <u>1351</u> | Sampling Date: <u>5/1/98</u> |
| Sample I.D.: <u>MW-5</u> | Laboratory: <u>Sequoia</u> GTEL N. Creek Assoc. Labs |
| Analyzed for: <u>TPH-G BTEX MTBE</u> TPH-D Other: | |
| Duplicate I.D.: | Analyzed for: TPH-G BTEX MTBE TPH-D Other: |
| D.O. (if req'd): | Pre-purge: <input type="text"/> mg/L Post-purge: <input type="text"/> mg/L |
| O.R.P. (if req'd): | Pre-purge: <input type="text"/> mV Post-purge: <input type="text"/> mV |

CHEVRON WELL MONITORING DATA SHEET

| | |
|---------------------------------|--------------------------------------|
| Project #: <u>980501-64</u> | Station #: <u>9-1723</u> |
| Sampler: <u>MB</u> | Date: <u>5/1/98</u> |
| Well I.D.: <u>MW-6</u> | Well Diameter: 2 3 4 6 8 <u> </u> |
| Total Well Depth: <u>19.69</u> | Depth to Water: <u>9.31</u> |
| Depth to Free Product: | 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 ² * 0.163 |

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

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|-------|
| <u>1.7</u> | x | <u>3</u> | = | <u>5.1</u> | Gals. |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Cond. | Gals. Removed | Observations |
|-------------|-------------|------------|-------------|---------------|--------------|
| <u>1321</u> | <u>64.8</u> | <u>6.7</u> | <u>1100</u> | <u>1.75</u> | |
| <u>1324</u> | <u>64.6</u> | <u>6.7</u> | <u>1000</u> | <u>3.5</u> | |
| <u>1327</u> | <u>64.6</u> | <u>6.7</u> | <u>1000</u> | <u>5.25</u> | |
| | | | | | |
| | | | | | |

| | |
|---|--|
| Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Gallons actually evacuated: <u>5.25</u> |
| Sampling Time: <u>1332</u> | Sampling Date: <u>5/1/98</u> |
| Sample I.D.: <u>MW-6</u> | Laboratory: <u>Sequora</u> GTEL N. Creek Assoc. Labs |

| | | | | |
|---|-----------------|--|-------------|------|
| Analyzed for: <u>TPH-G BTEX MTBE</u> 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 #: <u>980501-04</u> | Station #: <u>9-1723</u> |
| Sampler: <u>MG</u> | Date: <u>5/1/88</u> |
| Well I.D.: <u>MW-8</u> | Well Diameter: <u>2</u> 3 4 6 8 <u> </u> |
| Total Well Depth: <u>18.40</u> | Depth to Water: <u>9.22</u> |
| Depth to Free Product: | 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 ² * 0.163 |

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

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|-------|
| <u>1.5</u> | x | <u>3</u> | = | <u>4.5</u> | Gals. |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Cond. | Gals. Removed | Observations |
|-------------|-------------|------------|------------|---------------|--------------|
| <u>1403</u> | <u>62.8</u> | <u>6.6</u> | <u>850</u> | <u>1.75</u> | |
| <u>1406</u> | <u>63.2</u> | <u>6.6</u> | <u>840</u> | <u>3.5</u> | |
| <u>1409</u> | <u>63.2</u> | <u>6.6</u> | <u>840</u> | <u>5.0</u> | |
| | | | | | |
| | | | | | |

| | |
|---|--|
| Did well dewater? Yes <input type="checkbox"/> <u>No</u> | Gallons actually evacuated: <u>5</u> |
| Sampling Time: <u>1414</u> | Sampling Date: <u>5/1/88</u> |
| Sample I.D.: <u>MW-8</u> | Laboratory: <u>Sequoia</u> GTEL N. Creek Assoc. Labs |
| Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>MTBE</u> TPH-D Other: | |

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