Chevron

October 14, 1996

**Chevron ~~U.S.A.~~ Products Company**
6001 Bollinger Canyon Road
Building L
San Ramon, CA 94583
P.O. Box 5004
San Ramon, CA 94583-0804

**Marketing – ~~Northwest Region~~**
Phone 510 842 9500

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

#541

**Re: Chevron Service Station #9-1851**
**451 Hegenberger Road , Alameda, California**

Dear Mr. Chan:

Enclosed is the First and Second Quarter 1996 Groundwater Monitoring Reports that were prepared by our consultant Blaine Tech Services Inc., for the above noted site. I apologize for the delay in the submittal of the quarterly reports and future reports will be submitted in a timely manner. The groundwater samples collected were analyzed for TPH-g, BTEX, MtBE, TPH-d and VOC constituents, in monitoring well M-2 and analyzed for TPH-g, BTEX, and MtBE constituents for the remaining three wells.

Low concentrations of TPH-g, BTEX, MtBE, TPH-d and VOC constituents were detected in monitoring well MW-2. Concentrations of TPH-g, and BTEX constituents were below method detection levels in the other three monitoring wells. The ground water depth varied from 3.33 to 4.61 feet below grade in the first quarter and with a ground water flow to the southwest. In the second quarter the water depth varied from 3.60 to 4.60 feet below grade and with a ground water flow to the northwest.

Chevron will continue to monitor the wells quarterly. If you have any questions, I can be contacted at (510) 842-9136.

Sincerely,
CHEVRON PRODUCTS COMPANY

Philip R. Briggs
Site Assessment and Remediation Project Manager

Enclosure

cc. Mr. Bill Scudder, Chevron

Mr. Ben Shimek
451 Hegenberger Road
Oakland, CA 94621

BLAINE
TECH SERVICES INC.

985 TIMOTHY DRIVE
SAN JOSE, CA 95133
(408) 995-5535
FAX (408) 293-8773

July 19, 1996

Phil Briggs
Chevron U.S.A. Products Company
P. 0. Box 5004
San Ramon, CA 94583-0804

**2nd Quarter 1996 Monitoring at 9-1851**

Second Quarter 1996 Groundwater Monitoring at
Chevron Service Station Number 9-1851
451 Hegenberger Rd.
Oakland, CA

Monitoring Performed on June 26, 1996

Groundwater Sampling Report **960626-H-2**

This report covers the routine quarterly 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,

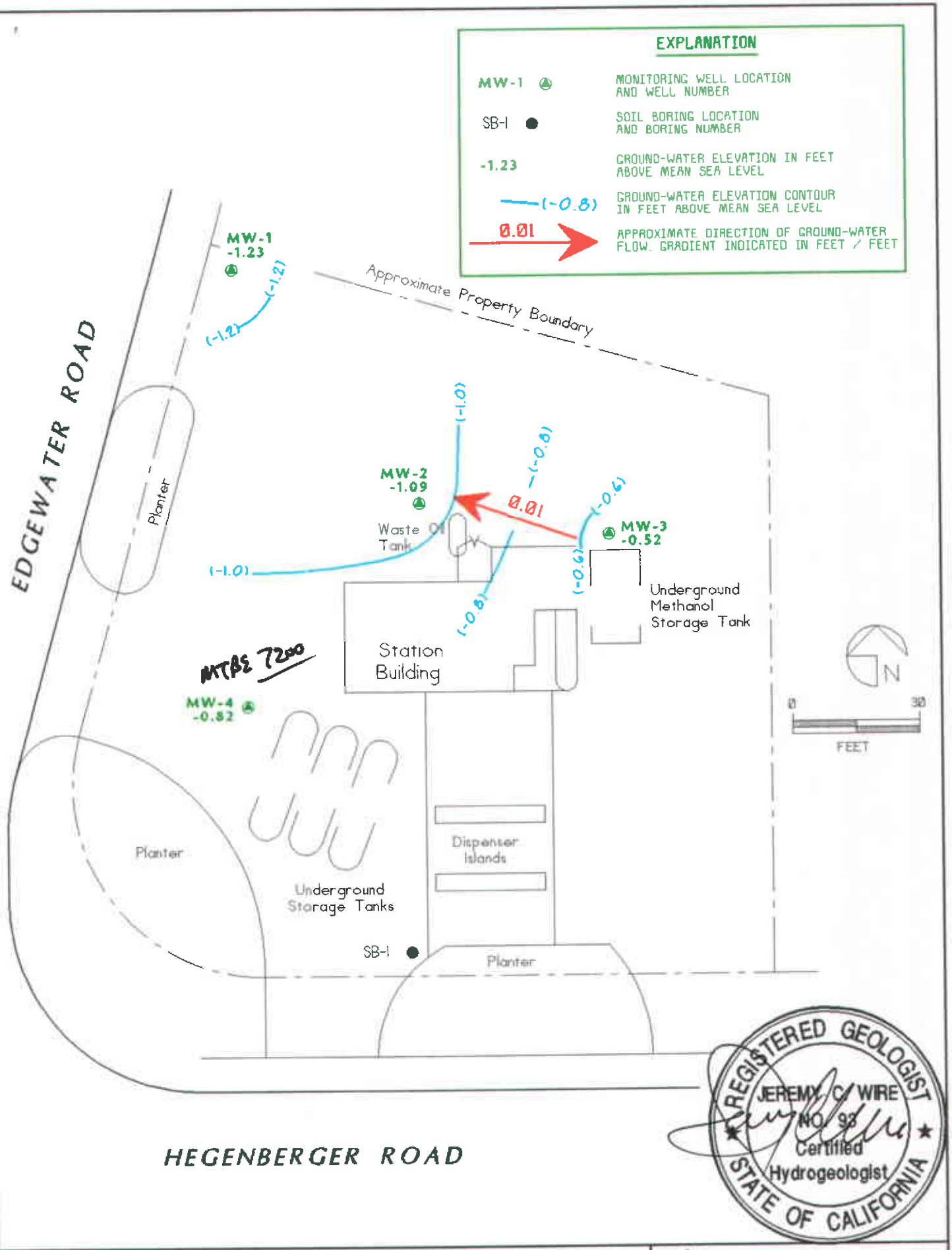
Deedee Keller for:

James Keller
Vice President

JPK/dk

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

# Professional Engineering Appendix




TITLE : GROUND-WATER ELEVATION CONTOUR MAP - JUNE 26, 1996

LOCATION : CHEVRON SERVICE STATION No.: 9-1851
451 HEGENBERGER ROAD, OAKLAND, CALIFORNIA

SOURCE :GETTLER-RYAN INC.

GEOCONSULTANTS, INC
SAN JOSE, CALIFORNIA
Project No. G758-09

# Table of
# Well 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 | TOG | TPH- Diesel (EPA 8240) | Benzene by (EPA 8240) | Xylene by (EPA 8240) | C-1, 2- DCE | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-1** | | | | | | | | | | | | | | | |
| 10/17/95 | 2.61 | -1.51 | 4.12 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- |
| 03/29/96 | 2.61 | -0.72 | 3.33 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- |
| 06/26/96 | 2.61 | -1.23 | 3.84 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- |
| **MW-2** | | | | | | | | | | | | | | | |
| 10/17/95 | 3.51 | -1.82 | 5.33 | * | 170 | 3.5 | <0.5 | 1.0 | 6.1 | <5000 | 1600** | -- | -- | 11 | -- |
| 03/29/96 | 3.51 | -0.44 | 3.95 | -- | 89 | 4.7 | <0.5 | 0.64 | 0.74 | -- | 3000** | 11 | 2.5 | 17 | 5.4 |
| 06/26/96 | 3.51 | -1.09 | 4.60 | -- | 80 | 8.7 | <0.5 | 1.2 | 1.3 | -- | 2000** | 11 | <2.0 | 15 | 12 |
| **MW-3** | | | | | | | | | | | | | | | |
| 10/17/95 | 3.08 | -1.34 | 4.42 | *** | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- |
| 03/29/96 | 3.08 | 0.08 | 3.00 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- |
| 06/26/96 | 3.08 | -0.52 | 3.60 | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- |
| **MW-4** | | | | | | | | | | | | | | | |
| 10/17/95 | 3.48 | -1.60 | 5.08 | -- | <125 | <1.2 | <1.2 | <1.2 | <1.2 | -- | -- | -- | -- | -- | -- |
| 03/29/96 | 3.48 | -1.13 | 4.61 | -- | <1000 | <10 | <10 | <10 | <10 | -- | -- | -- | -- | -- | -- |
| 06/26/96 | 3.48 | -0.82 | 4.30 | -- | <2000 | <20 | <20 | <20 | <20 | -- | -- | -- | -- | -- | -- |

* Results of EPA 8010 test indicates that the detection of 1,1-Dichloroethane is 1.7 ppb.
** Chromatagram pattern indicates an unidentified hydrocarbon.
*** Results of EPA 8015 test indicates that levels of Methanol and Methyl ethyl ketone are respetively <1000 and <200 ppb.

# 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 | TOG | TPH-Diesel | Benzene (EPA 8240) | Xylene (EPA 8240) | 1, 2-DCE | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TRIP BLANK** | | | | | | | | | | | | | | | |
| 10/17/95 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- |
| 03/29/96 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- |
| 06/26/96 | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | -- | -- | -- |

Note: Blaine Tech Services, Inc. began routine monitoring of the groundwater wells at this site on March 29, 1996.
Earlier field data and analytical results are drawn from the December 29, 1995 Gettler-Ryan, Inc. report.

ABBREVIATIONS:
TPH = Total Petroleum Hydrocarbons
ND = Not detected at or above the minimum quantitation limit. See laboratory reports for minimum quantitation limits.
TOG = Total Oil Grease
MTBE = Methyl t-butyl ether
C-1,2 DCE = Cis-1,2-Dichloroethylene

# Analytical Appendix

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Technical Services
985 Timothy Drive
San Jose, CA 95133

Attention: Jim Keller

Client Proj. ID: Chevron 9-1851 960626-H2
Sample Descript: MW-1
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9606G25-01

Sampled: 06/26/96
Received: 06/27/96

Analyzed: 07/05/96
Reported: 07/13/96

QC Batch Number: GC070596BTEX21A
Instrument ID: GCHP21

## 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** | **46** |
| 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 | 93 |

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

**SEQUOIA ANALYTICAL** - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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Blaine Technical Services
985 Timothy Drive
San Jose, CA 95133

Attention: Jim Keller

Client Proj. ID: Chevron 9-1851 960626-H2
Sample Descript: MW-2
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9606G25-02

Sampled: 06/26/96
Received: 06/27/96

Analyzed: 07/05/96
Reported: 07/13/96

QC Batch Number: GC070596BTEX21A
Instrument ID: GCHP21

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

| Analyte | Detection Limit ug/L | Sample Results ug/L |
|---|---|---|
| **TPPH as Gas** | **50** | **80** |
| **Methyl t-Butyl Ether** | **2.5** | **31** |
| **Benzene** | **0.50** | **8.7** |
| Toluene | 0.50 | N.D. |
| **Ethyl Benzene** | **0.50** | **1.2** |
| **Xylenes (Total)** | **0.50** | **1.3** |
| **Chromatogram Pattern:** | | **Gas** |

| Surrogates | Control Limits % | | % Recovery |
|---|---|---|---|
| Trifluorotoluene | 70 | 130 | 90 |

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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Blaine Technical Services
985 Timothy Drive
San Jose, CA 95133

Attention: Jim Keller

Client Proj. ID: Chevron 9-1851 960626-H2
Sample Descript: MW-2
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9606G25-02

Sampled: 06/26/96
Received: 06/27/96
Extracted: 07/02/96
Analyzed: 07/05/96
Reported: 07/13/96

QC Batch Number: GC0701960HBPEXB
Instrument ID: GCHP5B

## Total Extractable Petroleum Hydrocarbons (TEPH)

| Analyte | Detection Limit ug/L | Sample Results ug/L |
|---|---|---|
| **TEPH as Diesel** | **50** | **2000** |
| **Chromatogram Pattern:** | **C9-C24** | **Unidentified HC** |
| **Surrogates** | **Control Limits %** | **% Recovery** |
| n-Pentacosane (C25) | 50 150 | 212 Q |

Results quantitated against a diesel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

Peggy Penner
Project Manager

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Blaine Technical Services
985 Timothy Drive
San Jose, CA 95133

Attention: Jim Keller

Client Proj. ID: Chevron 9-1851 960626-H2
Sample Descript: MW-2
Matrix: LIQUID
Analysis Method: EPA 8260
Lab Number: 9606G25-02

Sampled: 06/26/96
Received: 06/27/96

Analyzed: 07/09/96
Reported: 07/13/96

## Volatile Organics (EPA 8260)

| Analyte | Detection Limit 115 | Sample Results 115 |
|---|---|---|
| **Benzene** | **2.0** | **11** |
| Bromobenzene | 2.0 | N.D. |
| Bromochloromethane | 2.0 | N.D. |
| Bromodichloromethane | 2.0 | N.D. |
| Bromoform | 2.0 | N.D. |
| Bromomethane | 2.0 | N.D. |
| n-Butylbenzene | 2.0 | N.D. |
| sec-Butylbenzene | 2.0 | N.D. |
| tert-Butylbenzene | 2.0 | N.D. |
| Carbon tetrachloride | 2.0 | N.D. |
| Chloroethane | 2.0 | N.D. |
| Chloroform | 2.0 | N.D. |
| Chloromethane | 2.0 | N.D. |
| 2-Chlorotoluene | 2.0 | N.D. |
| 4-Chlorotoluene | 2.0 | N.D. |
| Dibromochloromethane | 2.0 | N.D. |
| 1,2-Dibromoethane | 2.0 | N.D. |
| Dibromomethane | 2.0 | N.D. |
| 1,2-Dibromo-3-chloropropane | 5.0 | N.D. |
| 1,2-Dichlorobenzene | 2.0 | N.D. |
| 1,3-Dichlorobenzene | 2.0 | N.D. |
| 1,4-Dichlorobenzene | 2.0 | N.D. |
| Dichlorodifluoromethane | 2.0 | N.D. |
| 1,1-Dichloroethane | 2.0 | N.D. |
| 1,2-Dichloroethane | 2.0 | N.D. |
| 1,1-Dichloroethylene | 2.0 | N.D. |
| **cis-1,2-Dichloroethylene** | **2.0** | **15** |
| trans-1,2-Dichloroethylene | 2.0 | N.D. |
| 1,2-Dichloropropane | 2.0 | N.D. |
| 1,3-Dichloropropane | 2.0 | N.D. |
| 2,2-Dichloropropane | 2.0 | N.D. |
| 1,1-Dichloropropene | 2.0 | N.D. |
| Ethylbenzene | 2.0 | N.D. |
| Hexachlorobutadiene | 2.0 | N.D. |
| Isopropylbenzene | 2.0 | N.D. |

Sequoia Analytical

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Blaine Technical Services
985 Timothy Drive
San Jose, CA 95133

Attention: Jim Keller

Client Proj. ID: Chevron 9-1851 960626-H2
Sample Descript: MW-2
Matrix: LIQUID
Analysis Method: EPA 8260
Lab Number: 9606G25-02

Sampled: 06/26/96
Received: 06/27/96

Analyzed: 07/09/96
Reported: 07/13/96

| Analyte | Detection Limit 115 | Sample Results 115 |
|---|---|---|
| p-Isopropyltoluene | 2.0 | N.D. |
| Methylene chloride | 10 | N.D. |
| **Naphthalene** | **2.0** | **4.6** |
| n-Propylbenzene | 2.0 | N.D. |
| Styrene | 2.0 | N.D. |
| 1,1,1,2-Tetrachloroethane | 2.0 | N.D. |
| 1,1,2,2-Tetrachloroethane | 2.0 | N.D. |
| Tetrachloroethylene | 2.0 | N.D. |
| Toluene | 2.0 | N.D. |
| 1,2,3-Trichlorobenzene | 2.0 | N.D. |
| 1,2,4-Trichlorobenzene | 2.0 | N.D. |
| 1,1,1-Trichloroethane | 2.0 | N.D. |
| 1,1,2-Trichloroethane | 2.0 | N.D. |
| Trichloroethylene | 2.0 | N.D. |
| Trichlorofluoromethane | 2.0 | N.D. |
| 1,2,3-Trichloropropane | 2.0 | N.D. |
| 1,2,4-Trimethylbenzene | 2.0 | N.D. |
| 1,3,5-Trimethylbenzene | 2.0 | N.D. |
| **Vinyl chloride** | **2.0** | **12** |
| Total Xylenes | 2.0 | N.D. |

| Surrogates | Control Limits % | | % Recovery |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 76 | 114 | Q |
| Toluene-d8 | 88 | 110 | 101 |
| 4-Bromofluorobenzene | 86 | 115 | 96 |

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

**SEQUOIA ANALYTICAL** - ELAP #1894

Peggy Renner
Project Manager

Sequoia Analytical

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Blaine Technical Services
985 Timothy Drive
San Jose, CA 95133

Attention: Jim Keller

Client Proj. ID: Chevron 9-1851 960626-H2
Sample Descript: MW-3
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9606G25-03

Sampled: 06/26/96
Received: 06/27/96

Analyzed: 07/05/96
Reported: 07/13/96

QC Batch Number: GC070596BTEX21A
Instrument ID: GCHP21

## 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** | 47 |
| 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 | 86 |

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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Blaine Technical Services
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San Jose, CA 95133

Attention: Jim Keller

Client Proj. ID: Chevron 9-1851 960626-H2
Sample Descript: MW-4
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9606G25-04

Sampled: 06/26/96
Received: 06/27/96

Analyzed: 07/08/96
Reported: 07/13/96

QC Batch Number: GC070896BTEX17A
Instrument ID: GCHP17

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

| Analyte | Detection Limit ug/L | Sample Results ug/L |
|---|---|---|
| TPPH as Gas | 2000 | N.D. |
| **Methyl t-Butyl Ether** | **100** | 7200 |
| Benzene | 20 | N.D. |
| Toluene | 20 | N.D. |
| Ethyl Benzene | 20 | N.D. |
| Xylenes (Total) | 20 | N.D. |
| Chromatogram Pattern: | | |

| Surrogates | Control Limits % | | % Recovery |
|---|---|---|---|
| Trifluorotoluene | 70 | 130 | 110 |

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

**SEQUOIA ANALYTICAL** - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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Blaine Technical Services
985 Timothy Drive
San Jose, CA 95133

Attention: Jim Keller

Client Proj. ID: Chevron 9-1851 960626-H2
Sample Descript: TB
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9606G25-05

Sampled: 06/26/96
Received: 06/27/96

Analyzed: 07/05/96
Reported: 07/13/96

QC Batch Number: GC070596BTEX21A
Instrument ID: GCHP21

## 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 | 88 |

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

**SEQUOIA ANALYTICAL** - ELAP #1210

Peggy Renner
Project Manager

Sequoia Analytical

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Blaine Technical Services
985 Timothy Drive
San Jose, CA 95133
Attention: Jim Keller

Client Proj. ID: Chevron 9-1851 960626-H2

Lab Proj. ID: 9606G25

Received: 06/27/96

Reported: 07/13/96

## LABORATORY NARRATIVE

TPPH Note: Sample 9606G25-04 was diluted 40-fold.

8260 Note: Q = Dibromofluoromethane was used as a surrogate to replace 1,2-Dichloroethane-d4 the recovery for this surrogate is 96% with control limits of 86-118 %.

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

Sequoia Analytical

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Blaine Tech Services, Inc.
985 Timothy Drive
San Jose, CA 95133
Attention: Jim Keller

Client Project ID: Chevron 9-1851 / 960626-H2
Matrix: Liquid
Work Order #: 9606G25 -01-03, 05

Reported: Jul 13, 1996

## QUALITY CONTROL DATA REPORT

| Analyte: | Benzene | Toluene | Ethyl Benzene | Xylenes |
|---|---|---|---|---|
| QC Batch#: | GC070596BTEX21A | GC070596BTEX21A | GC070596BTEX21A | GC070596BTEX21A |
| Analy. Method: | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8020 |
| Prep. Method: | EPA 5030 | EPA 5030 | EPA 5030 | EPA 5030 |
| Analyst: | J. Woo | J. Woo | J. Woo | J. Woo |
| MS/MSD #: | 9606E7103 | 9606E7103 | 9606E7103 | 9606E7103 |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. |
| Prepared Date: | 7/5/96 | 7/5/96 | 7/5/96 | 7/5/96 |
| Analyzed Date: | 7/5/96 | 7/5/96 | 7/5/96 | 7/5/96 |
| Instrument I.D.#: | GCHP21 | GCHP21 | GCHP21 | GCHP21 |
| Conc. Spiked: | 10 µg/L | 10 µg/L | 10 µg/L | 30 µg/L |
| Result: | 9.7 | 10 | 10 | 30 |
| MS % Recovery: | 97 | 100 | 100 | 100 |
| Dup. Result: | 9.7 | 10 | 10 | 32 |
| MSD % Recov.: | 97 | 100 | 100 | 107 |
| RPD: | 0.0 | 0.0 | 0.0 | 6.5 |
| RPD Limit: | 0-25 | 0-25 | 0-25 | 0-25 |
| LCS #: | BLK070596 | BLK070596 | BLK070596 | BLK070596 |
| Prepared Date: | 7/5/96 | 7/5/96 | 7/5/96 | 7/5/96 |
| Analyzed Date: | 7/5/96 | 7/5/96 | 7/5/96 | 7/5/96 |
| Instrument I.D.#: | GCHP21 | GCHP21 | GCHP21 | GCHP21 |
| Conc. Spiked: | 10 µg/L | 10 µg/L | 10 µg/L | 30 µg/L |
| LCS Result: | 10 | 10 | 11 | 32 |
| LCS % Recov.: | 100 | 100 | 110 | 107 |
| MS/MSD Control Limits | 60-140 | 60-140 | 60-140 | 60-140 |
| LCS Control Limits | 70-130 | 70-130 | 70-130 | 70-130 |

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

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.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Tech Services, Inc.
985 Timothy Drive
San Jose, CA 95133
Attention: Jim Keller

Client Project ID: Chevron 9-1851 / 960626-H2
Matrix: Liquid
Work Order #: 9606G25-04
Reported: Jul 13, 1996

## QUALITY CONTROL DATA REPORT

| Analyte: | Benzene | Toluene | Ethyl Benzene | Xylenes |
|---|---|---|---|---|
| QC Batch#: | GC070896BTEX17A | GC070896BTEX17A | GC070896BTEX17A | GC070896BTEX17A |
| Analy. Method: | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8020 |
| Prep. Method: | EPA 5030 | EPA 5030 | EPA 5030 | EPA 5030 |
| Analyst: | J. Woo | J. Woo | J. Woo | J. Woo |
| MS/MSD #: | 9606H4705 | 9606H4705 | 9606H4705 | 9606H4705 |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. |
| Prepared Date: | 7/8/96 | 7/8/96 | 7/8/96 | 7/8/96 |
| Analyzed Date: | 7/8/96 | 7/8/96 | 7/8/96 | 7/8/96 |
| Instrument I.D.#: | GCHP17 | GCHP17 | GCHP17 | GCHP17 |
| Conc. Spiked: | 10 µg/L | 10 µg/L | 10 µg/L | 30 µg/L |
| Result: | 10 | 10 | 11 | 31 |
| MS % Recovery: | 100 | 100 | 110 | 103 |
| Dup. Result: | 10 | 11 | 11 | 32 |
| MSD % Recov.: | 100 | 110 | 110 | 107 |
| RPD: | 0.0 | 9.5 | 0.0 | 3.2 |
| RPD Limit: | 0-25 | 0-25 | 0-25 | 0-25 |
| LCS #: | BLK070896 | BLK070896 | BLK070896 | BLK070896 |
| Prepared Date: | 7/8/96 | 7/8/96 | 7/8/96 | 7/8/96 |
| Analyzed Date: | 7/8/96 | 7/8/96 | 7/8/96 | 7/8/96 |
| Instrument I.D.#: | GCHP17 | GCHP17 | GCHP17 | GCHP17 |
| Conc. Spiked: | 10 µg/L | 10 µg/L | 10 µg/L | 30 µg/L |
| LCS Result: | 10 | 11 | 11 | 32 |
| LCS % Recov.: | 100 | 110 | 110 | 107 |
| MS/MSD Control Limits | 60-140 | 60-140 | 60-140 | 60-140 |
| LCS Control Limits | 70-130 | 70-130 | 70-130 | 70-130 |

SEQUOIA ANALYTICAL

Reggy Renner
Project Manager

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

| | | | |
|---|---|---|---|
| Blaine Tech Services, Inc. | Client Project ID: | Chevron 9-1851 / 960626-H2 | |
| 985 Timothy Drive | Matrix: | Liquid | |
| San Jose, CA 95133 | | | |
| Attention: Jim Keller | Work Order #: | 9606G25-02 | Reported: Jul 13, 1996 |

# QUALITY CONTROL DATA REPORT

| | |
|---|---|
| **Analyte:** | Diesel |
| **QC Batch#:** | GC0701960HBPEXB |
| **Analy. Method:** | EPA 8015M |
| **Prep. Method:** | EPA 3510 |
| **Analyst:** | J. Minkel |
| **MS/MSD #:** | BLK070196 |
| **Sample Conc.:** | N.D. |
| **Prepared Date:** | 7/1/96 |
| **Analyzed Date:** | 7/2/96 |
| **Instrument I.D.#:** | GCHP5 |
| **Conc. Spiked:** | 1000 µg/L |
| **Result:** | 860 |
| **MS % Recovery:** | 86 |
| **Dup. Result:** | 780 |
| **MSD % Recov.:** | 78 |
| **RPD:** | 9.8 |
| **RPD Limit:** | 0-50 |

| | |
|---|---|
| **LCS #:** | - |
| **Prepared Date:** | - |
| **Analyzed Date:** | - |
| **Instrument I.D.#:** | - |
| **Conc. Spiked:** | - |
| **LCS Result:** | - |
| **LCS % Recov.:** | - |

| | |
|---|---|
| **MS/MSD** | 50-150 |
| **LCS** | 60-140 |
| **Control Limits** | |

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Blaine Tech Services, Inc.
985 Timothy Drive
San Jose, CA 95133
Attention: Jim Keller

Client Project ID: Chevron 9-1851 / 960626-H2
Matrix: Liquid
Work Order #: 9606G25-02

Reported: Jul 13, 1996

## QUALITY CONTROL DATA REPORT

| Analyte: | 1,1-Dichloroethene | Trichloroethene | Benzene | Toluene | Chloro-benzene |
|---|---|---|---|---|---|
| QC Batch#: | MS0708968260 | MS0708968260 | MS0708968260 | MS0708968260 | MS0708968260 |
| Analy. Method: | EPA 8260 | EPA 8260 | EPA 8260 | EPA 8260 | EPA 8260 |
| Prep. Method: | N/A | N/A | N/A | N/A | N/A |
| Analyst: | J.M.S. | J.M.S. | J.M.S. | J.M.S. | J.M.S. |
| MS/MSD #: | 6070048 | 6070048 | 6070048 | 6070048 | 6070048 |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. | N.D. |
| Prepared Date: | 7/8/96 | 7/8/96 | 7/8/96 | 7/8/96 | 7/8/96 |
| Analyzed Date: | 7/8/96 | 7/8/96 | 7/8/96 | 7/8/96 | 7/8/96 |
| Instrument I.D.#: | - | - | - | - | - |
| Conc. Spiked: | 50 µg/L | 50 µg/L | 50 µg/L | 50 µg/L | 50 µg/L |
| Result: | 51 | 43 | 49 | 48 | 49 |
| MS % Recovery: | 102 | 86 | 98 | 96 | 98 |
| Dup. Result: | 55 | 46 | 52 | 50 | 53 |
| MSD % Recov.: | 110 | 92 | 104 | 100 | 106 |
| RPD: | 7.5 | 6.7 | 5.9 | 4.1 | 7.8 |
| RPD Limit: | 0-25 | 0-25 | 0-25 | 0-25 | 0-25 |
| LCS #: | LCS070896 | LCS070896 | LCS070896 | LCS070896 | LCS070896 |
| Prepared Date: | 7/8/96 | 7/8/96 | 7/8/96 | 7/8/96 | 7/8/96 |
| Analyzed Date: | 7/8/96 | 7/8/96 | 7/8/96 | 7/8/96 | 7/8/96 |
| Instrument I.D.#: | - | - | - | - | - |
| Conc. Spiked: | 50 µg/L | 50 µg/L | 50 µg/L | 50 µg/L | 50 µg/L |
| LCS Result: | 51 | 43 | 49 | 48 | 49 |
| LCS % Recov.: | 102 | 86 | 98 | 96 | 98 |
| MS/MSD | 60-140 | 60-140 | 60-140 | 60-140 | 60-140 |
| LCS | 65-135 | 70-130 | 70-130 | 70-130 | 70-130 |
| Control Limits | | | | | |

SEQUOIA ANALYTICAL

Reggy Penner
Project Manager

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** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Fax copy of Lab Report and COC to Chevron Contact: ☐ Yes ☐ No

# Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number 9-1851
Facility Address 451 Hegenberger Rd., Oakland, CA
Consultant Project Number 960626-H2
Consultant Name Blaine Tech Services, Inc.
Address 985 Timothy Dr., San Jose, CA 95133
Project Contact (Name) Jim Keller
(Phone) 408 995-5535 (Fax Number) 408 293-8773

Chevron (Name) Phil Briggs
(Phone) (510)842-9136
Laboratory, SEQUOIA
Laboratory Release Number 3741480
Samples Collected by (Name) TROY N. HORNER
Collection Date 6/26/96
Signature Troy N. Horner

| Sample Number | Lab Sample Number | Number of Containers | Matrix S = Soil A = Air W = Water C = Charcoal | Type G = Grab C = Composite D = Discrete | Time | Sample Preservation | Iced (Yes or No) | Analyses To Be Performed: BTEX + TPH GAS (8020 + 8015) MTBE | TPH Diesel (8015) | Oil and Grease (5520) | Purgeable Halocarbons (8010) | Purgeable Aromatics (8020) | Purgeable Organics (8240) | Extractable Organics (8270) | Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA) | 9606625 | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 1 | 3 | W | | 1435 | HCL | Y | X | | | | | | | | | |
| MW-2 | 2 | 8 | W | | 1540 | HCL/NONE | Y | X | X | | | | X | | | | |
| MW-3 | 3 | 3 | W | | 1455 | HCL | Y | X | | | | | | | | | |
| MW-4 | 4 | 3 | W | | 1515 | HCL | Y | X | | | | | | | | | |
| TB | 5 | 2 | W | | | HCL | Y | X | | | | | | | | | DO NOT BILL FOR TB-LB |

| Relinquished By (Signature) | Organization | Date/Time | Received By (Signature) | Organization | Date/Time |
|---|---|---|---|---|---|
| [signature] | BTS | 6/27/96 1025 | [signature] | SEQ | 6/27/96 1025 |
| Relinquished By (Signature) | Organization | Date/Time | Received By (Signature) | Organization | Date/Time |
| [signature] | | | | | |
| Relinquished By (Signature) | Organization | Date/Time | Received for Laboratory By (Signature) | | Date/Time |
| | | | [signature] | | 6/27/96 1130 |

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

# Field
# Data
# Sheets

# WELL GAUGING DATA

Project # 960626-H2 Date 6/26/96 Client CHEVRON 9-1851

Site 451 HEGENBERGER RD OAKLAND CA

| Well I.D. | Well Size (in.) | Sheen/ Odor | Depth to Immiscible Liquid (feet) | Thickness of Immiscible Liquid (ft.) | Volume of Immiscibles Removed (ml) | Depth to Water (feet) | Depth to Well Bottom (feet) | Survey Point: TOB or TOC |
|---|---|---|---|---|---|---|---|---|
| MW-1 | 2 | | | | | 3.84 | 14.57 | TOC |
| MW-2 | 2 | | | | | 4.60 | 14.84 | |
| MW-3 | 2 | | | | | 3.60 | 14.62 | |
| MW-4 | 2 | | | | | 4.30 | 15.00 | ↓ |
| | | | | | | | | |
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# CHEVRON WELL MONITORING DATA SHEET

| | |
|---|---|
| Project #: 960626-H2 | Station #: 9-1851 |
| Sampler: JNH | Date: 6/26/96 |
| Well I.D.: MW-1 | Well Diameter: (2) 3 4 6 8 ___ |
| Total Well Depth: 14.57 | Depth to Water: 3.84 |
| 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$^2$ * 0.163 |

Purge Method: Bailer / Disposable Bailer ✓ / Middleburg / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: Bailer / Disposable Bailer ✓ / Extraction Port / Other: ___

1.7 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 5.1 (Calculated Volume) Gals.

| Time | Temp (°F) | pH | Cond. | Gals. Removed | Observations |
|---|---|---|---|---|---|
| 1425 | 69.6 | 7.0 | 3800 | 2 | |
| 1427 | 71.8 | 7.6 | 3200 | 4 | |
| 1430 | 72.2 | 7.8 | 3000 | 5.5 | |
| | | | | | |
| | | | | | |

Did well dewater? Yes (No) Gallons actually evacuated: 5.5

Sampling Time: 1435 Sampling Date: 6/26/96

Sample I.D.: MW-1 Laboratory: (Sequoia) GTEL

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 #: 960626-H2 | Station #: 9-1851 |
| Sampler: TNH | Date: 6/26/96 |
| Well I.D.: MW-2 | Well Diameter: (2) 3 4 6 8 ____ |
| Total Well Depth: 14.84 | Depth to Water: 4.60 |
| 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 | radius² * 0.163 |

Purge Method: Bailer / Disposable Bailer ✕ / Middleburg / Electric Submersible / Extraction Pump / Other: ____

Sampling Method: Bailer / Disposable Bailer ✕ / Extraction Port / Other: ____

1.6 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 4.8 (Calculated Volume) Gals.

| Time | Temp (°F) | pH | Cond. | Gals. Removed | Observations |
|---|---|---|---|---|---|
| 1525 | 69.2 | 6.8 | 9000 | 2 | ODOR SHEEN |
| 1528 | 67.6 | 6.8 | 22000 | 4 | HCL REACTANCE |
| 1531 | 67.2 | 7.0 | 20000 | 5.0 | |
| | | | | | |
| | | | | | |

Did well dewater? Yes (No) Gallons actually evacuated: 5.0

Sampling Time: 1540 Sampling Date: 6/26/96

Sample I.D.: MW-2 Laboratory: (Sequoia) GTEL

Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D) Other: 8240

| | | | | |
|---|---|---|---|---|
| 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 #: 960626-H2 | Station #: 9-1851 |
| Sampler: TNH | Date: 6/26/96 |
| Well I.D.: MW-3 | Well Diameter: (2) 3 4 6 8 ____ |
| Total Well Depth: 14.62 | Depth to Water: 3.60 |
| 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$^2$ * 0.163 |

Purge Method: Bailer, Disposable Bailer, Middleburg, Electric Submersible, Extraction Pump, Other: _____

Sampling Method: Bailer, Disposable Bailer, Extraction Port, Other: _____

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

| Time | Temp (°F) | pH | Cond. | Gals. Removed | Observations |
|---|---|---|---|---|---|
| 1445 | 72.2 | 7.0 | 3500 | 2 | |
| 1448 | 72.2 | 7.0 | 3600 | 4 | |
| 1451 | 72.2 | 7.0 | 3500 | 5.5 | |
| | | | | | |
| | | | | | |

| | | | |
|---|---|---|---|
| Did well dewater? Yes (No) | | Gallons actually evacuated: 5.5 | |
| Sampling Time: 1455 | | Sampling Date: 6/26/96 | |
| Sample I.D.: MW-3 | | Laboratory: (Sequoia) GTEL | |
| 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 #: 960626-H2 | Station #: 9-1851 |
| Sampler: TNH | Date: 6/26/96 |
| Well I.D.: MW-4 | Well Diameter: (2) 3 4 6 8 ___ |
| Total Well Depth: 15.00 | Depth to Water: 4.30 |
| 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$^2$ * 0.163 |

Purge Method:
- Bailer
- Disposable Bailer ✓
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: ___

Sampling Method:
- Bailer
- Disposable Bailer ✓
- Extraction Port
- Other: ___

1.7 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 5.1 (Calculated Volume) Gals.

| Time | Temp (°F) | pH | Cond. | Gals. Removed | Observations |
|---|---|---|---|---|---|
| 1502 | 70.2 | 7.0 | 3800 | 2 | |
| 1505 | 68.3 | 7.0 | 5400 | 4 | |
| 1508 | 67.8 | 7.2 | 5600 | 5.5 | |
| | | | | | |
| | | | | | |

Did well dewater? Yes (No) Gallons actually evacuated: 5.5

Sampling Time: 1515 Sampling Date: 6/26/96

Sample I.D.: MW-4 Laboratory: (Sequoia) GTEL

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 |