

January 25, 1999

Mr. Scott Seery 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, Room 1110 PO Box 6004 San Ramon, CA 94583-0904

Philip R. Briggs
Project Manager
Site Assessment & Remediation
Phone 925 842-9136
Fax 925 842-8370

Re: Chevron Service Station #9-3322 7225 Bancroft Avenue, Oakland, California

Dear Mr. Seery:

Enclosed is the Fourth Quarter Groundwater Monitoring Report for 1998 that was prepared by our consultant Gettler-Ryan Inc. for the above noted site. Ground water samples were collected and analyzed for the TPH-g, BTEX and MtBE constituents.

The concentration of the benzene constituent increased in monitoring wells MW-1 and MW-2 from the previous sampling event, while it decreased in well MW-3.

The depth to ground water varied from 15.63 feet to 20.80 feet below grade with the direction of flow northwesterly.

Three additional wells, downgradient of the existing wells, were installed January 22, 1999, and the report of the installation and findings will be forwarded when received.

Chevron will continue to monitor the site quarterly. If you have any questions, call me at (925) 842-9136.

Sincerely,

CHEVRON PRODUCTS COMPANY

Philip R. Briggs

Site Assessment and Remediation Project Manager

Enclosure

Cc. Mr. Bill Scudder, Chevron



1680 ROGERS AVENUE SAN JOSE, CA 95112-1105 (408) 573-7771 FAX (408) 573-0555 PHONE

January 20, 1999

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

4th Quarter 1998 Monitoring at 9-3322

Fourth Quarter 1998 Groundwater Monitoring at Former Chevron Service Station Number 9-3322 7225 Bancroft Ave., Oakland, CA

Monitoring Performed on November 24, 1998

Groundwater Sampling Report 981124-Z-2

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,

Francis Thie Vice President

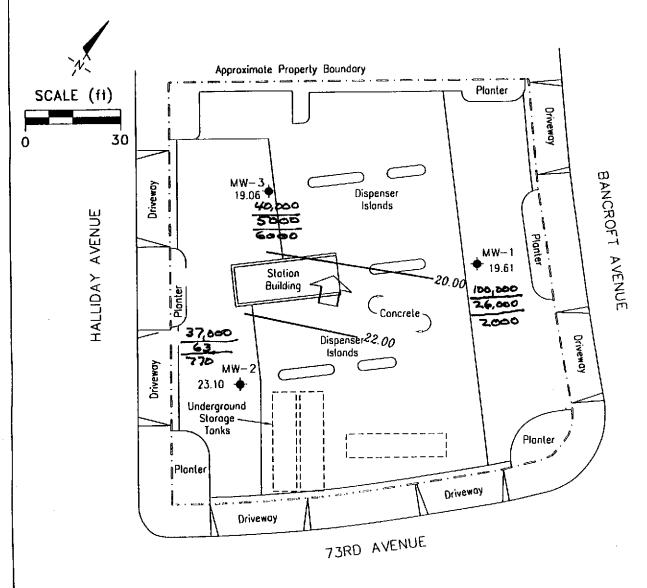
FPT/JT

attachments: Professional Engineering Appendix

Cumulative Table of Well Data and Analytical Results

Analytical Appendix Field Data Sheets

Professional Engineering Appendix



EXPLANATION

Groundwater monitoring well

19.61 Groundwater elevation (ft, msl)

20.00 — Groundwater elevation contour (ft, msl)

Approximate groundwater flow direction;
Approximate gradient = 0.07

TPH·G/benzera/MtBE (ug/l)



Ref. 3322-qm.dwg Basemap from Gettler-Ryan, Inc.

PREPARED BY

RRM
engineering contracting firm

Chevron Station 9-3322 7225 Bancroft Avenue Oakland, California

GROUNDWATER ELEVATION CONTOUR MAP, NOVEMBER 24, 1998

FIGURE: 1 PROJECT: DACO4

Table of Well Data and Analytical Results

Cumulative Table of Well Data and Analytical Results

| Vertical Measurements are in feet. | | | Analyti | cal results are in parts pe | er billion (ppb) | | | | | |
|------------------------------------|-----------------------|--------------------------|----------------------|-----------------------------|------------------|---------|---------|-------------------|---------|----------|
| DATE | Well Head Elev. | Ground Water Elev. | Depth To Water | Notes | TPH- Gasoline | Benzene | Toluene | Ethyl- Benzene | Xylene | мтве |
| MW-1 | | | | | | | | | | <u> </u> |
| 02/08/98 | 40.41 | 26.53 | 13.88 | | 130,000 | 9700 | 8200 | 3200 | 15,000 | <250 |
| 06/16/98 | 40.41 | 26.18 | 14.23 | | 96,000 | 15,000 | 12,000 | 2600 | 11,000 | 1300 |
| 07/29/98 | 40.41 | 22.59 | 17.82 | 54 | 370,000 | 19,000 | 14,000 | 5800 | 15,000 | <2500 |
| 08/13/98 | 40.41 | 22.01 | 18.40 | | 120,000 | 19,000 | 16,000 | 2900 | 14,000 | <1000 |
| 11/24/98 | 40.41 | 19.61 | 20.80 | | 100,000 | 26,000 | 18,000 | 4000 | 22,000 | 2000 |
| MW-2 | | | | | | | | | | |
| 02/08/98 | 38.73 | 31.13 | 7.60 | | 24,000 | 130 | 170 | 450 | 1900 | 2300 |
| 06/16/98 | 38.73 | 29.61 | 9.12 | | 8900 | 31 | 46 | 310 | 1100 | 260 |
| 07/29/98 | 38.73 | 27.06 | 11.67 | | 7600 | 15 | 21 | 150 | 480 | 82 |
| 08/13/98 | 38.73 | 26.32 | 12.41 | · | 14,000 | 26 | 80 | 500 | 2100 | 32 |
| 11/24/98 | 38.73 | 23.10 | 15.63 | | 37,000 | 63 | 220 | 1300 | 7100 | 770 |
| MW-3 | | | | | | | | | | |
| 02/08/98 | 39.51 | 24.91 | 14.60 | | 94,000 | 12,000 | 4400 | 2000 | 10,000 | 8000 |
| 06/16/98 | 39.51 | 25.53 | 13.98 | | 38,000 | 5600 | 1400 | 1200 | 4700 | 6300 |
| 06/16/98 | 39.51 | 25.53 | 13.98 | Confirmation run | | | | | | 4600 |
| 07/29/98 | 39.51 | 22.14 | 17.37 | ••• | 58,000 | 4100 | 700 | 1300 | 4200 | 4100 |
| 08/13/98 | 39.51 | 21.29 | 18.22 | | 43,000 | 6800 | 1900 | 1600 | 6800 | 2300 |
| 11/24/98 | 39.51 | 19.06 | 20.45 | | 40,000 | 5000 | 800 | 1600 | 6800 | 6000 |
| 11/24/98 | 39.51 | 19.06 | 20.45 | Confirmation run | | | | | | 4400 |

Cumulative Table of Well Data and Analytical Results

| Vertical Me | easurement | s are in feet. | Analyt | cal results are in p | arts per billion (ppb) | | | | | |
|-------------|-----------------------|--------------------------|----------------------|----------------------|------------------------|---------|---------|-------------------|--------|------|
| DATE | Well Head Elev. | Ground Water Elev, | Depth To Water | Notes | TPH- Gasoline | Benzene | Toluene | Ethyl- Benzene | Xylene | мтве |
| TRIP E | BLANK | | | | | | | | | |
| 02/08/98 | | | | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 06/16/98 | | | | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 07/29/98 | ' | | | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 08/13/98 | | | | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 |
| 11/24/98 | | | | | <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 24, 1998. Earlier field data and analytical results are drawn from the August 13, 1998, Gettler-Ryan, Inc. report.

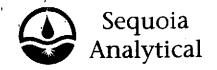
ABBREVIATIONS:

TPH = Total Petroleum Hydrocarbons

ND = Not detected at or above the minimum quantitation limit. See laboratory reports for minimum quantitation limits.

MTBE = Methyl-tert-butyl ether

Analytical Appendix



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 958341 Petaluma, CA 94954

(650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865 FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112

Attention: Christine Lillie

Client Proj. ID: Chevron 9-3322/981124-Z2

Sample Descript: MW-1

Matrix: LIQUID

Analysis Method: 8016Mod/0020

Lab Number: 9811H47-01

Sampled: 11/24/98 Received: 11/25/98

Analyzed: 12/03/98 Reported: 12/09/98

QC Batch Number: GC120398802004A

Instrument ID: HP4

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

| Analyte | De | tection Limit ug/L | • | Sample Results ug/L |
|--|-------------------|--|-----|---|
| TPPH as Gas Methyl t-Butyl Ether Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern: | | 10000 500 100 100 100 100 | | 2000 26000 18000 4000 22000 |
| Surrogates Trifluorotoluene | Co n 70 | trol Limits % | 130 | Recovery 111 |

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

SEQUOIA ANALYTICAL ELAP #1271

Mike Gregory Project Manager



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954 (650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865 FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112

Attention: Christine Lillie

Client Proj. ID: Chevron 9-3322/981124-Z2

Sample Descript: MW-2

Matrix: LIQUID

Analysis Method: 8015Mod/8020 Lab Number: 9811H47-02 Sampled: 11/24/98 Received: 11/25/98

Analyzed: 12/03/98 Reported: 12/09/98

QC Batch Number: GC120398802004A

Instrument ID: HP4

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

| Analyte | De | tection Limit ug/L | ! | Sample Results ug/L |
|-----------------------|---|-----------------------|-----|------------------------|
| TPPH as Gas | | 5000 | | . 37000 |
| Methyl t-Butyl Ether | | 250 | | . 770 |
| Benzene | | 50 | | . 63 |
| Toluene | | 50 | | 220 |
| Ethyl Benzene | | 50 | | . 1300 |
| Xylénes (Total) | ***************** | 50 | | 7100 |
| Chromatogram Pattern: | *************************************** | | | GAS |
| Surrogates | Con | trol Limits % | % | Recovery |
| Trifluorotoluene | 70 | | 130 | 94 |

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

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Mike Gregory Project Manager

Page:

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Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954 (650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865 FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Client Proj. ID: Chevron 9-3322/981124-Z2 Sample Descript: MW-3

Sampled: 11/24/98 Received: 11/25/98

Attention: Christine Lillie

Matrix: LIQUID Analysis Method: EPA 8266 Lab Number: 9811H47-03

Analyzed: 12/04/98 Reported: 12/09/98

QC Batch Number: MS1203988260S2A

Instrument ID: MS-2

Methyl t-Butyl Ether (MTBE)

| Analyte | Det | Sample Results ug/L | |
|-----------------------|-----|------------------------|------------|
| Methyl t-Butyl Ether | | 2.0 | |
| Surrogates | Con | trol Limits % | % Recovery |
| 1,2-Dichloroethane-d4 | 76 | 114 | ď |
| Toluene-d8 | 88 | 110 | Q |
| 4-Bromofluorobenzene | 86 | 115 | Q |

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

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Mikeseregory Project Manager

Page:

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

(650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865 FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Sampled: 11/24/98

Received: 11/25/98

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112

Attention: Christine Lillie

Client Proj. ID: Chevron 9-3322/981124-Z2

Sample Descript: MW-3

Matrix: LIQUID Analysis Method: 8015Mod/8020

Analyzed: 12/03/98 Reported: 12/09/98 Lab Number: 9811H47-03

QC Batch Number: GC120398802004A

Instrument ID: HP4

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

| Analyte | Detection I ug/L | _imit S | ample Results ug/L |
|-----------------------|---------------------|---------|-----------------------|
| TPPH as Gas | 5000 | | 40000 |
| Methyl t-Butyl Ether | 250 | | 6000 |
| Benzene | 50 | | 5000 |
| Toluene | 50 | | 800 |
| Ethyl Benzene | 50 | | 1600 |
| Xylenes (Total) | 50 | | 6800 |
| Chromatogram Pattern: | 50 | | GAS |
| Surrogates | Control Lim | its % % | Recovery |
| Trifluorotoluene | 70 | | 102 |

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

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Mike Gregory Project Manager



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

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FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112

Attention: Christine Lillie

Chevron 9-3322/981124-Z2 Client Proj. ID:

Sample Descript: TB

Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9811H47-04

Sampled: 11/24/98 Received: 11/25/98

Analyzed: 12/03/98 Reported: 12/09/98

QC Batch Number: GC120398802004A

Instrument ID: HP4

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

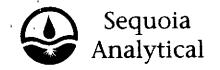
| Analyte | Detection Limit ug/L | Sample Results ug/L |
|--|---|--|
| TPPH as Gas Methyl t-Butyl Ether Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern: | 50 2.5 0.50 0.50 0.50 0.50 | N.D. N.D. N.D. N.D. N.D. N.D. |
| Surrogates Trifluorotoluene | Control Limits % 70 130 | % Recovery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

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

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ELAP #1271

Mike Gregory Project Manager



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954 (650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865 FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Christine Lillie

Client Proj. ID: Chevron 9-3322/981124-Z2

Received: 11/25/98

Lab Proj. ID: 9811H47

Reported: 12/09/98

LABORATORY NARRATIVE

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

TPH-GAS/BTEX:

Sample 9811H47-01 was diluted 200-fold. Sample 9811H47-02 was diluted 100-fold. Sample 9811H47-03 was diluted 100-fold.

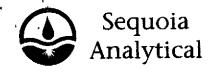
8260 (MTBE):

The surrogate used for 9811H47-03 was Dibromofluoromethane with a % recovery of 92. The control limits were 50-150.

SEQUOIA ANALYTICAL

Mike Øregød Project Manager

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Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954 (650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865 FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Blaine Tech Services, Inc.

1680 Rogers Ave. San Jose, CA 95112 Attention: Christine Lillie Client Project ID:

Matrix:

Chevron 9-3322/981124-Z2

Liquid

Work Order #:

9811H47 -01-04

Reported:

Dec 9, 1998

QUALITY CONTROL DATA REPORT

| Analyte: | Benzene | Toluene | Ethyl | Xylenes | BTEX as TPH |
|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | | Benzene | | |
| | GC120398802004A | GC120398802004A | GC120398802004A | GC120398802004A | GC120398802004A |
| Analy. Method: | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8015M |
| Prep. Method: | EPA 5030 |
| Analyst: | C. Westwater |
| MS/MSD #: | 8120018 | 8120018 | 8120018 | 8120018 | 8120018 |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. | N.D. |
| Prepared Date: | 12/3/98 | 12/3/98 | 12/3/98 | 12/3/98 | 12/3/98 |
| Analyzed Date: | 12/3/98 | 12/3/98 | 12/3/98 | 12/3/98 | 12/3/98 |
| nstrument I.D.#: | HP4 | HP4 | HP4 | HP4 | HP4 |
| Conc. Spiked: | 20 μg/L | 20 μg/L | 20 μg/L | 60 μg/L | 360 μg/L |
| Result: | 22 | 19 | 19 | 66 | 340 |
| MS % Recovery: | 110 | 95 | 95 | 110 | 94 |
| Dup. Result: | 23 | 19 | 19 | 67 | 330 |
| MSD % Recov.: | 115 | 95 | 95 | 112 | 92 |
| RPD: | 4.4 | 0.0 | 0.0 | 1,5 | 3.0 |
| RPD Limit: | 0-20 | 0-20 | 0-20 | 0-20 | 0-50 |
| | | | | | |
| LCS #: | LCS120398 | LCS120398 | LCS120398 | LCS120398 | LC\$120398 |
| Prepared Date: | 12/3/98 | 12/3/98 | 12/3/98 | 12/3/98 | 12/3/98 |
| Analyzed Date: | 12/3/98 | 12/3/98 | 12/3/98 | 12/3/98 | 12/3/98 |
| nstrument I.D.#: | HP4 | HP4 | HP4 | HP4 | HP4 |
| Conc. Spiked: | 20 μg/L | 20 μg/L | 20 μg/L | 60 μg/L | 360 μg/L |
| LCS Result: | 21 | 18 | 18 | 63 | 340 |
| LCS % Recov.: | 105 | 90 | 90 | 105 | 94 |
| MS/MSD | 60-140 | 60-140 | 60-140 | 60-140 | |
| LCS Control Limits | 70-130 | 70-130 | 70-130 | 70-130 | 50-150 |

SEQUOIA ANALYTICAL Elap #1271

Mike Gregory 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

9811H47.BLA <1>





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

(650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865

FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Blaine Tech Services, Inc.

1680 Rogers Ave. San Jose, CA 95112 Client Project ID:

Work Order #:

Chevron 9-3322/981124-Z2 Liquid

Attention: Christine Lillie

Matrix:

Reported:

Dec 9, 1998;

QUALITY CONTROL DATA REPORT

9811H47-03

Analyte:

MTBE

QC Batch#: MS1203988260S2A Analy. Method:

EPA 8260

Prep. Method:

EPA 5030

Analyst: MS/MSD #:

N. Nelson

Sample Conc.:

8111826

Prepared Date:

33

Analyzed Date:

12/4/98

Instrument I.D.#:

12/4/98 GCM\$2

Conc. Spiked:

 $50 \mu g/L$

Result:

82

MS % Recovery:

98

Dup. Result:

84

MSD % Recov.:

102

RPD:

24

RPD Limit:

0-25

LCS #:

LCS120498

Prepared Date:

12/4/98

Analyzed Date: Instrument I.D.#: 12/4/98

Conc. Spiked:

GCMS2 50 μg/L

LCS Result:

57

LCS % Recov.:

114

MS/MSD

60-140

LCS Control Limits 65-135

SEQUOIA ANALYTICAL

Elap #1271

Gregory 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

9811H47.BLA <2>

| ax co | ру (| of L | .ab | Report | and | coc | to | Che | evro | n Go | onța | ct: | □ Ye | es o | | | | Cha | in- | of- | -Cu | stoo | ly-Recor | |
|---|-------------------|--------------------------|-------|---|-----------------------------------|---------------------------------|-----------------------|-------------------------------|-------------------------------|------------------------------|--------------------------------|--------------------------|--|---|---------------------------------|--|---|---------------------------------------|---------------|--------|-----|---------------------------|----------------------------------|----------|
| hevron Pr .O. BOX in Ramon, VX (925) | 6004 CA 94 | | Consu | on Facility Num Facility Addr Iltant Project N Iltant Name Idress 1680 roject Contact | umber LAINE ROGEF | 7225 TECH RS AVE | SERV | Ц-' ICE, AN JO LILLI | INC, OSE | | | | — — — | Laborato Laborato Laborato Samples | ory Nam ary Serv ary Serv | (Pho SE ilos Ord ilos Co ilos by | ne) <u>PH</u> ene) (9 EQUOI for 91 de Z <u>Z</u> (Name) | 1L BF 25) 8 A 44488 02800 | 1GGS 142-9 | | | 98 | ILLENT T | |
| | ther? | Air | 5 | | 246 | | State | Met | hod: | | 14 | □ or | 3 | WA - | □ NI | N Se | rles | | o l | ⊐ UT | | | Ramorks | |
| Sample Number | Number of Contain | Material A = Water C = C | 1 8 | Data/Timo | BIEX/MBE+TPH GAS (8020 + 8015) | BIEX + TPH GAS (8020 + 8015) | TPH Disease (8015) | Oxygenates (8250) | Purgeable Holocarba (BO10) | Purgeable Organics (8250) | Extractoble Organics (8270) | Oil and Grease (5520) | (ICAP or Zn.Ni | HEX (8020) | BTEX/MTBE/Naph. (8020) | TPH - KCID | TPH-D Extended | | | | | | Lab Sample No. | |
| 161 162 163 173 | 3.32 | \(\frac{1}{\psi}\) | HCL | 1/24 121 113 115 | <u>UX</u> | | | | | | | | | | | - | | | | | | 02 03 M | * MW3 needs MTBE Run by | |
| | | | - | | | | | | | | - | | | | | | | | | | | | \$020 * 8260 | |
| | | , | | | | | | | | | | | | | | | | | | | | | <u> </u> | P6 |
| quiehed By | (Signal) | 6 | | Organization Organization | Date/Tir | na · | | 2 4 | (Signat | <u> </u> | | 5200 | ization //// /// /// /// /// /// /// /// /// | 16-6 | /Time | <i>y</i> | Icad Y/ | | | Turn A | 24 | me (Circ Hre. Hre. | le Choice) | |
| The second second | (Signal) | ire) | | 4000 of Organization | (1-25 Date/Tir | | Recie | yod For | Labore | lory By | (Signal | ure) | | | /Ilms | ,;, | loe(Y) | И | | | 10 | Days Days Intracted | | . |

Field Data Sheets

WELL GAUGING DATA

| Project # 9811 24-7 | 22 Date 11-2 | 4-98 Cli | ient (|
|---------------------|--------------|----------|-----------------------------------|
| | | -11 | Chevron 9-3322 7225 Bancroft Ave. |
| Site | | | Cariand |

| | l | | | Thickness | Volume of | 1 | | | 77.83 |
|---------|------------------|-----------------|---------------------------------------|----------------------------|--|------------------------|---------------|----------|--------|
| | Well Size | Sheer / | Depth to | of | Immiscibles | | D - 4 | Survey | |
| Well ID | (in.) | Sheen / Odor | | Immiscible Liquid (ft.) | | Depth to water | | | 61901 |
| MEILID | (111.) | 000 | ridma (ir) | ridina (tr.) | | (ft_) | bottom (ft.) | or TOC | - 1.00 |
| MW-1 | 2 | ا ماما | | | | 20.80 | 34.00 | TOC | 3 |
| Mw.2 | 2_ | odo / | | | | 20.80 1563 20.45 | 36,22 | | 1 |
| MW.3 | 2 | | | | | 20.45 | 3 390° | | 1 |
| | | | | Albayera Tal | | | | | |
| | | | | U | | | | | |
| | | | • 15. | | ************************************** | | | | |
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| | 7498 13.** 34 | | | | | 34 | | | |
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CHEVRON WELL MONITORING DATA SHEET

| Project #: | 9811 | 24-5 | 2 | Station #: | -3322 | | | | | |
|-------------|---------------------|--|------------------------------------|--------------------------|---|--------------|-------------|--|--|--|
| Sampler: | TR | | | Date: 11-24-98 | | | | | | |
| Well I.D.: | : Mu | N - 1 | | Well Diameter: ② 3 4 6 8 | | | | | | |
| Total We | ll Depth: | 34.0 | 0 | Depth to Water: 20.80 | | | | | | |
| Depth to | Free Produ | ıct: | | Thickness of F | ree Product (fe | et): | | | | |
| Reference | ed to: | (PVC) | Grade | D.O. Meter (if | req'd): | YSI | НАСН | | | |
| | Well Diame 2" 3" 4" | ter | Multiplier 0.16 0.37 0.65 | 5" 6" | Multiplier 1.02 1.47 us ² * 0.163 | | | | | |
| Purge Metho | D Ele | Bailer isposable Bail Middleburg ctric Submers extraction Pure | sible | Sampling Method: Other: | Disposable Bailer Extraction Port | × | | | | |
| | 1 Case Vol | ume (Gals.) | X Specified Vo | olumes Cal | Gals. | | | | | |
| Time | Temp (°F) | pН | Cond. | Gals. Removed | Observations | | | | | |
| 1200 | 68.0 | 6.6 | 1400 | 2.5 | | | | | | |
| 1203 | 67.6 | 6.6 | [200 | 5.0 | | | | | | |
| 1206 | 67.8 | 66 | 1000 | 6.5 | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Did well | dewater? | Yes | (No) | Gallons actuall | y evacuated: | <u>. ، ع</u> | <u>></u> | | | |
| Sampling | Time: | 1210 | | Sampling Date | : 11-24 | - 98 | | | | |
| Sample I. | D.: M | W- | | Laboratory: | Sequoia CORE | N. Creek | Assoc. Labs | | | |
| Analyzed | foc TPH- | -G BTEX | MTBE TPH-D | Other: | | | - | | | |
| Duplicate | I.D.: | | Analyzed for: | | итве трн-d | Other: | | | | |
| D.O. (if re | eq'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 #: | 9811 | 24-2 | 2 | Station #: 9-3322 | | | | |
|---|------------------------------|-------------|----------------------------------|-----------------------------------|--|--------|-------------|--|
| Sampler: | TR | | | Date: 11-24-98 | | | | |
| Well I.D. | : M | <u> ソース</u> | | Well Diameter: (2) 3 4 6 8 | | | | |
| Total Well Depth: 30.22 | | | | Depth to Water: 15.63 | | | | |
| Depth to | Free Produ | ıct: | | Thickness of Free Product (feet): | | | | |
| Reference | ed to: | PVC | Grade | D.O. Meter (if | req'd): | YSI | НАСН | |
| | Well Diame 2" 3" 4" | ter | <u>Multiplier</u> 0.16 0.37 0.65 | 5" 6" | <u>Multiplier</u> 1.02 1.47 us ² * 0.163 | | | |
| Purge Method: Bailer Disposable Bailer Middleburg Electric Submersible Extraction Pump Other: | | | sible | Sampling Method: Other: | Bailer Disposable Bailer Extraction Port | × - | | |
| 2.3 1 Case Volume (Gals.) X Specified Volumes = 6.9 Calculated Volume | | | | | | | | |
| Time | Temp (°F) | pН | Cond. | Gals. Removed | Observations | | | |
| 1120 | 71.8 | 7-2 | 450 | 2.5 | -000 | blac | 1c, Sheen | |
| 1124 | 120 | 7.2 | 500 | 5.0 | | | <u>-</u> | |
| 1128 | 71.6 | 7.1 | 480 | .7.0 | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Did well | dewater? | Yes | No | Gallons actually evacuated: 7.0 | | | | |
| Sampling Time: /130 Sampling Date: | | | | | | - 98 |) | |
| Sample I.D.: Mw - 2 Laboratory: Sequoia CORE N. Creek Assoc. Lab | | | | | | | Assoc. Labs | |
| Analyzed for: TPH-G BTEX MTBE TPH-D Other: | | | | | | | | |
| Duplicate I.D.: Analyzed for: | | | | | | | | |
| D.O. (if req'd): | | | Pre-purge: | mg/L | Post-purge: | | mg/L | |
| O.R.P. (if req'd): Pre- | | | Pre-purge: | mV | Post-purge: | | mV | |

CHEVRON WELL MONITORING DATA SHEET

| Project # | : 481194-5 | 2 | Station #: 9 - 5322 | | | | |
|-------------------------------|--|---------------------------|---|--|----------------|-------------------|--|
| Sampler: | TR | | Date: 11-24-98 | | | | |
| Well I.D. | : MW | 3 | Well Diameter: (2) 3 4 6 8 | | | | |
| Total We | ll Depth: 33.9 | <u>[</u> | Depth to Water: 20,45 | | | | |
| Depth to | Free Product: | | Thickness of Free Product (feet): | | | | |
| Reference | ed to: PVC |) Grade | D.O. Meter (if | req'd): | YSI HAC | CH | |
| | <u>Well Diameter</u> 2" 3" 4" | Multiplier 0.16 0.37 0.65 | 5" 6" | Multiplier 1.02 1.47 ius ² * 0.163 | | | |
| Purge Metho | od: Bailer Disposable Ba Middleburg Electric Submer Extraction Pur | sible | Sampling Method: Bailer Disposable Bailer Extraction Port Other: | | | | |
| | 1 Case Volume (Gals.) | Gals. | | | | | |
| Time | Temp (°F) pH | Cond. | Gals. Removed | Observations | | | |
| 1140 | 67.6 6.7 | 1600 | 2.5 | -odor. | black | | |
| 1143 | 67.4 6.6 | 1000 | 5.0 | ーヤノら | 1 | | |
| 1146 | 67.4 6.6 | 1100 | 7.0 | | · | | |
| | , | <i></i> | | | | | |
| | | | | | - | | |
| Did well | dewater? Yes | No | Gallons actually evacuated: 7. 0 | | | | |
| Sampling | Time: //50 | | Sampling Date | : 11-24 | - 98 | | |
| Sample I. | D.: MW - | 3 | Laboratory: (| Sequoia CORE | N. Creek Assoc | c. Labs | |
| Analyzed | for TPH-G BTEX | MTBE TPH-D | Other: | | | | |
| Duplicate I.D.: Analyzed for: | | | TPH-G BTEX M | TBE TPH-D | Other: | | |
| D.O. (if re | eq'd): | Pre-purge: | $^{ m mg}/_{ m L}$ | Post-purge: | | mg/ _{L:} | |
| O.R.P. (if req'd): Pre-purge | | | mV | Post-purge: | | mV | |