April 24, 1998 ERI 222903.R01

Ms. Marla D. Guensler Exxon Company, U.S.A. P.O. Box 4032 Concord, California 94524-4032

Subject:

Quarterly Groundwater Monitoring, First Quarter 1998, Exxon Service Station 7-

0235, 2225 Telegraph Avenue, Oakland, California.

Ms. Guensler:

At the request of Exxon Company, U.S.A. (Exxon), Environmental Resolutions, Inc. (ERI) performed the first quarter 1998 groundwater monitoring event at the subject site (Plate 1). The purpose of quarterly monitoring is to evaluate fluctuations in dissolved hydrocarbon concentrations in groundwater and groundwater flow direction and gradient.

GROUNDWATER MONITORING AND SAMPLING

On March 13, 1998, ERI measured depth to water (DTW) in monitoring wells MW6B, and MW6E through MW6H, and collected groundwater samples from these wells for laboratory analysis.

Based on DTW measurements, the groundwater appears to flow southeast with an average hydraulic gradient of 0.03 (Plate 2). Historical and recent monitoring data are summarized in Table 1.

LABORATORY ANALYSES AND RESULTS

Groundwater samples were submitted to Sequoia Analytical Laboratories (California State Certification Number 1210) in Redwood City, California, under chain of custody protocol. The samples were analyzed for benzene, toluene, ethylbenzene, total xylenes (BTEX), methyl tertiary-butyl ether (MTBE), total petroleum hydrocarbons as gasoline (TPHg) using the methods listed in the notes in Table 1. The laboratory analysis reports and chain of custody records are attached (Attachment B). Cumulative results of laboratory analysis of groundwater samples are summarized in Table 1. The results of analyses of groundwater samples collected during the recent sampling event are shown on Plate 2.

LIMITATIONS

This report was prepared in accordance with generally accepted standards of environmental geological practice in California at the time this investigation was performed. This report has been prepared for Exxon and any reliance on this report by third parties shall be at such party's sole risk.

If you have any questions or comments regarding this report, please call (415) 382-5997.

Sincerely, Environmental Resolutions, Inc.

laff Geologist

ROBERT H. ENKEBOLL

GEOLOGIST

H. Enkeboll

Enclosures:

Table 1:

Cumulative Groundwater Monitoring and Sampling Data

Plate 1:

Site Vicinity Map

Plate 2:

Generalized Site Plan

Attachment A: Groundwater Sampling Protocol

Attachment B: Laboratory Reports and Chain of Custody Record

TABLE 1 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA

Exxon Service Station 7-0235 2225 Telegraph Avenue Oakland, California (Page 1 of 2)

| Well ID# | Sampling | SUBJ | DTW | Elev. | TPPHg | В | T | E | X | MTBE |
|----------|----------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| (TOC) | Date | < | feet | > . | < | | ug/L | | | |
| MW-6B | | | | | | | | | | |
| (17.48) | 11/26/96 | NLPH | 12.26 | 5.22 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 30 |
| | 2/27/97 | NLPH | 11.73 | 5.75 | < 50 | < 0.5 | < 0.5 | < 0.5 | 0.80 | < 30 |
| | 5/21/97 | NLPH | 12.70 | 4.78 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 30 |
| | 8/18/97 | NLPH | 12.89 | 4.59 | 380 | 4.3 | < 0.5 | 1.2 | 1.5 | <30 |
| | 3/13/98 | NLPH | 11.15 | 6.33 | 360 | 93 | 4.9 | 4.1 | 12 | < 6.2 |
| MW-6E | | | | | | | | | | |
| (17.63) | 11/26/96 | NLPH | 12.94 | 4.69 | < 50 | 1.1 | < 0.5 | < 0.5 | < 0.5 | < 30 |
| | 2/27/97 | NLPH | 12.28 | 5.35 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | <30 |
| | 5/21/97 | NLPH | 13.60 | 4.03 | 160 | 10 | 1.4 | 5.5 | 4.8 | <5 |
| | 8/18/97 | NLPH | 13.75 | 3.88 | 66 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 30 |
| | 3/13/98 | NLPH | 11.36 | 6.27 | < 50 | <0.5 | < 0.5 | < 0.5 | < 0.5 | <2.5 |
| MW-6F | | | | | | | | | | |
| (18.58) | 11/26/96 | NLPH | 13.29 | 5.29 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | <30 |
| | 2/27/97 | | | | | | | | | |
| | 5/21/97 | NLPH | 14.18 | 4.40 | | | | | | |
| | 8/18/97 | NLPH | 14.69 | 3.89 | | | | | | |
| | 3/13/98 | NLPH | 10.93 | 7.65 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | <2.5 |
| MW-6G | | | | | | | | | | |
| (16.82) | 11/26/96 | NLPH | 11.12 | 5.70 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | <30 |
| | 2/27/97 | | | | =+- | | | | | |
| | 5/21/97 | NLPH | 11.76 | 5.06 | | | | | | |
| | 8/18/97 | NLPH | 12.23 | 4.59 | | | | | | |
| | 3/13/98 | NLPH | 9.13 | 7.69 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 4.4 |
| MW-6H | | | | | | | | | | |
| (16.58) | 11/26/96 | NLPH | 11.87 | 4.71 | 1,200 | 320 | 110 | 22 | 85 | < 30 |
| | 2/27/97 | NLPH | 11.58 | 5.00 | 1,800 | 760 | 31 | 8.4 | 44 | <200 |
| | 5/21/97 | NLPH | 12.23 | 4.35 | 1,100 | 640 | 18 | 5.4 | 45 | 81 |
| | 8/18/97 | NLPH | 12.29 | 4.29 | 870 | 200 | 3.6 | 2.4 | 7.4 | 26 |
| | 3/13/98 | NLPH | 11.44 | 5.14 | 5,300 | 1,900 | 720 | 100 | 470 | < 125 |

11.

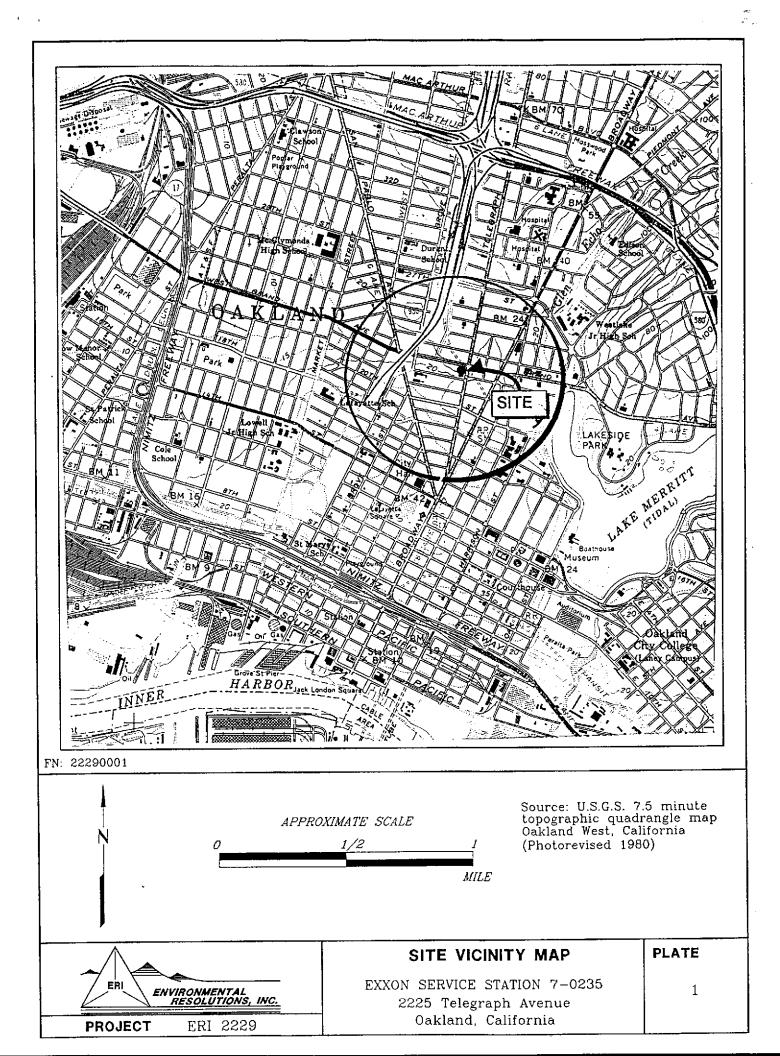
TABLE 1 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA

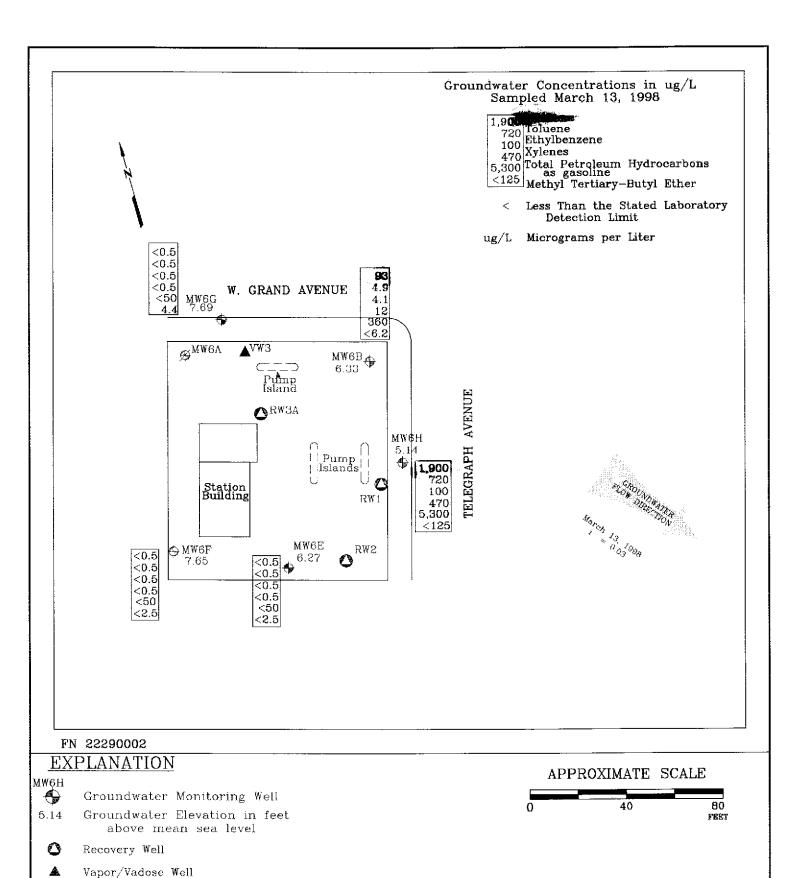
Exxon Service Station 7-0235

2225 Telegraph Avenue Oakland, California

(Page 2 of 2)

| Well ID # (TOC) | Sampling Date | SUBJ < | DTW feet | Elev. | TPPHg < | В | T ug/L | Е | x | МТВЕ | > |
|-----------------|------------------|------------------|---------------------------------|----------------|------------------|---------------|---------------|----------------|-------|------|---|
| MW-6I | 11/06/06 | 177 MT | 10.46 | 201 | - 50 | -0.6 | 40.6 | -0.5 | .0.5 | - 20 | |
| (16.26) | 11/26/96 | NLPH | 12.45 | 3.81 | < 50 | < 0.5 | <0.5 | < 0.5 | < 0.5 | <30 | |
| | 2/27/97 | NLPH | 12.24 | 4.02 | < 50 | < 0.5 | <0.5 | < 0.5 | < 0.5 | <30 | |
| | 5/21/97 | NLPH | 12.82 | 3.44 | < 50 | < 0.5 | < 0.5 | < 0.5 | | <30 | |
| | 8/18/97 | NLPH | 12.81 | 3.45 | < 50 | < 0.5 | < 0.5 | <0.5 | <0.5 | <30 | |
| | 3/13/98 | | | | | | | | | | |
| RW-1 | | | | | | | | | | | |
| (16.79) | Not Monitor | red since 6/16/9 | 12 | | | | | | | | |
| RW-2 | | | | | | | | | | | |
| (17.02) | Not Monitor | red since 6/16/9 | 2 | | | | | | | | |
| RW-3 | | | | | | | | | | | |
| (18.04) | Not Monitor | red since 8/30/9 | 4 | | | | | | | | |
| Notes: | | | · . · · · · · · · · · · · · · · | | | | • | | | | — |
| SUBJ | = | Results of sub | ojective evaluatio | on | | | | | | | |
| NLPH | = | No liquid-pha | se hydrocarbons | s present in w | ell | | | | | | |
| TOC | = | Elevation of t | op of well casin | g; relative to | mean sea level | | | | | | |
| DTW | = | Depth to water | er | | | | | | | | |
| Elev. | = | Elevation of g | groundwater sur | face; relative | to mean sea lev | el | | | | | |
| TPPHg | = | Total purgeab | le petroleum hy | drocarbons as | gasotine analy | zed using EPA | A method 5030 | /8015 (modifie | ed). | | |
| BTEX | = | | nene, Ethylbenze | | | | | | | | |
| MTBE | = | | y-butyl ether an | | | | | | | | |
| < | = | Less than the | indicated detect | ion limit show | vn by the labora | atory | | | | | |
| *** | = | Not measured | or sampled | | | | | | | | |
| ug/L | = | Micrograms p | er liter | | | | | | | | |







GENERALIZED SITE PLAN

EXXON SERVICE STATION 7-0235 2225 Telegraph Avenue Oakland, California PROJECT NO.

2229

PLATE 2

ATTACHMENT A GROUNDWATER SAMPLING PROTOCOL

GROUNDWATER SAMPLING PROTOCOL

The static water level and separate phase product level, if present, in each well that contained water and/or separate phase product are measured with a MMC Interface Probe, which is accurate to the nearest 0.01 foot. To calculate groundwater elevations and evaluate groundwater gradient, depth to water (DTW) levels are subtracted from wellhead elevations.

Groundwater samples collected for subjective evaluation are collected by slowly lowering approximately half the length of a clean Teflon® bailer past the air-water interface (if possible) and collecting a sample from near the surface of the water in the well. The samples are checked for measurable free-phase hydrocarbons or sheen. Any free-phase hydrocarbons are removed from the well.

Before water samples are collected from the groundwater monitoring wells, the wells are purged until the temperature, pH, and conductivity have stabilized, or until a minimum of three well casing volumes are purged. Water samples from the wells that do not obtain stability of the temperature, pH, and conductivity are considered to be "grab samples". The quantity of water purged from each well is calculated as follows:

one well casing volume = (3.14) r²h(7.48) where:

r = radius of the well casing in feet.
h = column of water in the well in feet
(depth to bottom - depth to water)
7.48 = conversion constant from cubic feet to gallons

Gallons of water purged/gallons in one well casing volume = well casing volumes removed.

After purging, each well is allowed to recharge to at least 80% of the initial water level. Water samples from wells that do not recover at least 80% (due to slow recharging of the well) between purging and sampling are considered to be "grab samples". Water samples are collected with a new, disposable Teflon® bailer. The groundwater is carefully poured into 40-milliliter (ml) glass vials, which are filled so as to produce a positive meniscus. Each vial is preserved with hydrochloric acid, sealed with a cap containing a Teflon® septum, and subsequently examined for air bubbles to avoid headspace which would allow volatilization to occur. The samples are promptly transported in iced storage in a thermally-insulated ice chest, accompanied by a Chain of Custody Record, to a California-certified laboratory.

ATTACHMENT B

LABORATORY REPORTS AND CHAIN OF CUSTODY RECORD



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

(650) 364-9600 (510) 988-9600 (916) 921-9600 FAX (650) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949

Client Proj. ID: Exxon 7-0235, 222913

Sample Descript: W-11-MW6F

Matrix: LIQUID

Analysis Method: 8015Mod/8020 Lab Number: 9803B35-01

Sampled: 03/13/98 Received: 03/16/98

Analyzed: 03/25/98 Reported: 03/31/98

QC Batch Number: GC032598BTEX17A

Instrument ID: GCHP17

Attention: Marc Briggs

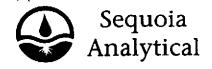
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

| 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 % 130 | % Recovery 94 |

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

SEQUOIA ANALYTICAL -ELAP #1210

Richard Herling Project Manager



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063 Walnut Creek, CA 94598

(650) 364-9600 (510) 988-9600 (916) 921-9600 FAX (650) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949

Client Proj. ID: Exxon 7-0235, 222913

Sample Descript: W-9-MW6G

Matrix: LIQUID

Analysis Method: 8015Mod/8020

Lab Number: 9803B35-02

Sampled: 03/13/98 Received: 03/16/98

Analyzed: 03/25/98 Reported: 03/31/98

QC Batch Number: GC032598BTEX17A

Instrument ID: GCHP17

Attention: Marc Briggs

Total Purgeable Petroleum 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. 4.4 N.D. N.D. N.D. N.D. |
| Surrogates Trifluorotoluene | Control Limits % 70 130 | % Recovery 98 |

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

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling Project Manager



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

(650) 364-9600 (510) 988-9600 (916) 921-9600 FAX (650) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Sampled: 03/13/98

Received: 03/16/98

Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949

Client Proj. ID: Exxon 7-0235, 222913

Sample Descript: W-11-MW6E Matrix: LIQUID

Analysis Method: 8015Mod/8020

Analyzed: 03/25/98 Lab Number: 9803B35-03 Reported: 03/31/98

QC Batch Number: GC032598BTEX17A

Instrument ID: GCHP17

Attention: Marc Briggs

Total Purgeable Petroleum 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 % 130 | % Recovery 96 |

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

SEQUOIA ANALYTICAL -ELAP #1210

Bichard Herling Project Manager



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (650) 364-9600 (510) 988-9600 (916) 921-9600 FAX (650) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Environmental Resolutions 74 Digital Drive , Suite 6 Novato, CA 94949

Environmental Resolutions Client Proj. ID: Exxon 7-0235, 222913 Sampled: 03/13/98

Sample Descript: W-11-MW6B

Matrix: LIQUID Analysis Method: 8015Mod/8020

Analyzed: 03/26/98 Reported: 03/31/98

Received: 03/16/98

Attention: Marc Briggs Lab Number: 9803B35-04

QC Batch Number: GC032698BTEX02A

Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

| Analyte | Det | ection Limit ug/L | San | nple Results ug/L |
|-------------------------------------|---|----------------------|-------|----------------------|
| TPPH as Gas Methyl t-Butyl Ether | ••••• | 1 25 | ••••• | 360 N.D. |
| Benzene Toluene | *************************************** | 12 | | 93 4.9 |
| Ethyl Benzene Xylenes (Total) | *************************************** | 12 | | 4.1 12 |
| Chromatogram Pattern: | *************************************** | ••• | | Gas |
| Surrogates Trifluorotoluene | Con · 70 | trol Limits % 130 | % Re | covery 117 |

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

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling Project Manager

Page:

4



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063 Walnut Creek, CA 94598

(650) 364-9600 (510) 988-9600 (916) 921-9600

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

Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949

Client Proj. ID: Exxon 7-0235, 222913

Sample Descript: W-11-MW6H

Matrix: LIQUID

Analysis Method: 8015Mod/8020 Lab Number: 9803B35-05

Sampled: 03/13/98 Received: 03/16/98

Analyzed: 03/26/98 Reported: 03/31/98

QC Batch Number: GC032698BTEX02A

Instrument ID: GCHP02

Attention: Marc Briggs

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

| Analyte | Det | tection Limit ug/L | Sample Results ug/L |
|--|------------------|-----------------------|--|
| TPPH as Gas Methyl t-Butyl Ether Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern: | | 125 25 25 25 25 25 | 5300 N.D. 1900 720 100 470 Gas |
| Surrogates Trifluorotoluene | Con 70 | trol Limits % 130 | % Recovery 108 |

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

SEQUOIA ANALYTICAL -ELAP #1210

Richard Herling Project Manager



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

(650) 364-9600 (510) 988-9600 (916) 921-9600 FAX (650) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Environmental Resolutions 74 Digital Drive, Ste. 6

Client Project ID: Matrix:

Exxon 7-0235, 222913

Liquid

Novato, CA 94949 Attention: Marc Briggs

Work Order #:

9803B35 01, 02, 03

Reported:

Apr 3, 1998

QUALITY CONTROL DATA REPORT

| Analyte: | Benzene | Toluene | Ethyl | Xylenes | Gas |
|------------------|-----------------|-----------------|-----------------|-------------------|-------------------|
| | | | Benzene | · | |
| | GC032598BTEX17A | GC032598BTEX17A | GC032598BTEX17A | GC032598BTEX17A | GC032598BTEX17 |
| Analy. Method: | | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8015M |
| Prep. Method: | EPA 5030 | EPA 5030 | EPA 5030 | EPA 5030 | EPA 5030 |
| Analyst: | C. DeMartini | C. DeMartini | C. DeMartini | C. DeMartini | C. DeMartini |
| MS/MSD #: | 9803A3802 | 9803A3802 | 9803A3802 | 9803A3802 | |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. | 9803A3802 |
| Prepared Date: | | 3/25/98 | 3/25/98 | | N.D. |
| Analyzed Date: | | 3/25/98 | 3/25/98 | 3/25/98 | 3/25/98 |
| nstrument I.D.#: | GCHP17 | GCHP17 | GCHP17 | 3/25/98 GCHP17 | 3/25/98 |
| Conc. Spiked: | 10 μg/L | 10 μg/L | 10 μg/L | 30 μg/L | GCHP17 60 µg/L |
| Result: | 9.0 | | | | |
| MS % Recovery: | 90 | 9.4 | 10.1 | 32 | 52 |
| MIS 76 NECOVERY. | 30 | 94 | 101 | 107 | 87 |
| Dup. Result: | 9.0 | 9.7 | 10.4 | 32 | 53 |
| MSD % Recov.: | 90 | 97 | 104 | 107 | 88 |
| RPD: | 0.0 | 3.1 | 2.9 | 0.0 | 1.9 |
| RPD Limit: | 0-25 | 0-25 | 0-25 | 0-25 | 0-25 |
| | | | | | |
| LCS #: | BLK032698 | BLK032698 | BLK032698 | BLK032698 | BLK032698 |
| Prepared Date: | 3/25/98 | 3/25/98 | 3/25/98 | 3/25/98 | 2/25/00 |
| Analyzed Date: | 3/25/98 | 3/25/98 | 3/25/98 | 3/25/98 | 3/25/98 |
| nstrument I.D.#: | GCHP17 | GCHP17 | GCHP17 | GCHP17 | 3/25/98 GCHP17 |
| Conc. Spiked: | 10 μg/L | 10 μg/L | 10 μg/L | 30 μg/L | 60 μg/L |
| LCS Result: | 8.5 | 9.1 | • • | | • |
| LCS % Recov.: | 85 | 9.1 91 | 9.8 | 30 | 49 |
| | 55 | 91 | 98 | 100 | 82 |
| MS/MSD | 60-140 | 60-140 | 00.440 | | |
| 100 | 00-140 | 90+14U | 60-140 | 60-140 | 60-140 |

SEQUQIA ANALYTICAL

Richard Herling Project Manager

LCS

Control Limits

Please Note:

70-130

70-130

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.

70-130

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

9803B35.EEE <1>

70-130

70-130



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

(650) 364-9600 (510) 988-9600 (916) 921-9600 FAX (650) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Environmental Resolutions 74 Digital Drive, Ste. 6 Novato, CA 94949

Client Project ID: Matrix:

Exxon 7-0235, 222913

Liquid

Attention: Marc Briggs

Work Order #:

9803B35 04, 05 Reported:

Apr 3, 1998

QUALITY CONTROL DATA REPORT

| Analyte: | Benzene | Toluene | Ethyl | Xylenes | Gas |
|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | | Benzene | • | |
| | GC032698BTEX02A | GC032698BTEX02A | GC032698BTEX02A | GC032698BTEX02A | GC032698BTEX02A |
| Analý. Method: | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8015M |
| Prep. Method: | EPA 5030 |
| Analyst: | C. DeMartini |
| MS/MSD #: | 9803C4406 | 9803C4406 | 9803C4406 | 9803C4406 | 9803C4406 |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. | N.D. |
| Prepared Date: | 3/26/98 | 3/26/98 | 3/26/98 | 3/26/98 | 3/26/98 |
| Analyzed Date: | 3/26/98 | 3/26/98 | 3/26/98 | 3/26/98 | 3/26/98 |
| Instrument I.D.#: | GCHP2 | GCHP2 | GCHP2 | GCHP2 | GCHP2 |
| Conc. Spiked: | 10 μg/L | 10 μg/L | 10 μg/L | 30 μg/L | 60 μg/L |
| Result: | 8.1 | 9.3 | 11 | 33 | 61 |
| MS % Recovery: | 81 | 93 | 110 | 110 | 102 |
| Dup. Result: | 8.2 | 9.3 | 11 | 33 | 61 |
| MSD % Recov.: | 82 | 93 | 110 | 110 | 102 |
| RPD: | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| RPD Limit: | 0-25 | 0-25 | 0-25 | 0-25 | 0-25 |
| | | | | | |
| LCS #: | BLK032698 | BLK032698 | BLK032698 | BLK032698 | BLK032698 |
| Prepared Date: | 3/26/98 | 3/26/98 | 3/26/98 | 3/26/98 | 3/26/98 |
| Analyzed Date: | 3/26/98 | 3/26/98 | 3/26/98 | 3/26/98 | 3/26/98 |
| Instrument I.D.#: | GCHP2 | GCHP2 | GCHP2 | GCHP2 | GCHP2 |
| Conc. Spiked: | 10 μg/L | 10 μg/L | 10 μg/L | 30 μg/L | 60 μg/L |

| Prepared Date: Analyzed Date: Instrument I.D.#: Conc. Spiked: | 3/26/98 3/26/98 GCHP2 10 µg/L | 3/26/98 3/26/98 GCHP2 10 µg/L | 3/26/98 3/26/98 GCHP2 10 µg/L | 3/26/98 3/26/98 GCHP2 30 µg/L | 3/26/98 3/26/98 GCHP2 60 µg/L |
|--|--|--|--|--|--|
| LCS Result: LCS % Recov.: | 8.1 | 9.2 | 11 | 33 | 61 |
| LCS % Recov.: | 81 | 92 | 110 | 110 | 102 |

| 118 7118 B | | <u> </u> | | | |
|----------------|--------|----------|--------|--------|--------|
| MS/MSD | 60-140 | 60-140 | 60-140 | 60-140 | 60-140 |
| LCS | 70-130 | 70-130 | 70-130 | 70-130 | 70-130 |
| Control Limits | | | | | |

SEQUOIA AŅALYTICAL

Richard Herling 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

9803B35.EEE <2>



Sequoia Analytical 680 Chesapeake Dr. Redwood City, CA 94063 (415) 364-9600 • FAX (415) 364-9233

EXXON COMPANY, U.S.A.

P.O. Box 2180, Houston, TX 77002-7426
CHAIN OF CUSTODY

9803B35

| (413) 304-3000 + FAX (413) 304-9. | 233 | | // // C | | | | | 100 | ソクシ | | |
|-----------------------------------|----------------|--------------|-----------|---------------------------------------|------------------------|-----------------------|--------------|-------------|-----------|---|-------|
| Consultant's Name: ENVIRONM | ENTAL RE | SOLUTI | 1,2Wo | иC | | | | Page _ | L of 1 | | |
| Address: 74 DIGITAL DR | | 6, NOV | ATO, (| CA 9494 | | | Site Lo | cation: | 2225 | TELEGRAP | Н |
| Project #: | · | | | t#: 2229 | | | Consu | Itant Wo | rk Releas | se #: | |
| Project Contact: MARC BRIG | | Phone #: | (415) | 382-91 | 105 | | Labora | tory Wo | rk Releas | ie #: | |
| EXXON Contact: MARLA GUE | NSLER | | (510) |) 246-8 | 776 | , | EXXO | I RAS #: | 7-C | 235 | |
| Sampled by (print): SUE SHALLE | NBERGER | Sampler's | s Signatu | ire: Tue Shal | Cenber | Ser | OAK | LANI | >, CA | | |
| Shipment Method: | | Air Bill #: | | | | 0 | | | | | |
| TAT: 124 hr 148 hr 172 hr | ⊒ 96 hr 🛱 (Sta | andard (10 d | ay) | | A | NALYS | IS REQU | IRED | | œ | 15.2 |
| | llection Matr | I Prev | # of | Sequoia's | TPH/Gas | TPH/ | TRPH | MTBE | | Temperature: | _ |
| Description Date 1 | Time Soll/Wat | ter/Air | Cont. | Sample # | BTEX/ 8015/ 8020 | Diesel EPA 8015 | S.M. 5520 | 8020 | | Inbound Seal; Yes Outbound Seal; Yes | |
| W-11-MW6F3/13/98 13 | 35 WAT | ER ICE | 3 | í | \times | | | > < | | | |
| 1 1 1 | 45 | | 3 | 2 | \times | | | > | | | |
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| RELINQUISHED BY / AFFILIATION | ON Dai | te 1 | Time | ACCEPT | ED / AFF | ILIATIO | ON . | Date | Time | Additional Comm | nenta |
| Sue Shall-enberger | 3/16/97 | 8 11:2 | 25 | May Sceno | g-/50 | quai | ۵ | 3/16 | 11:25 | | |
| Ry Scroff Leguois | 3/16 | | | · · · · · · · · · · · · · · · · · · · | | | | | | | |
| | | | - | 1 000 | ~~ ~ | | | 3/16 | 142.1 | | I |



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063 Walnut Creek, CA 94598

(650) 364-9600 (510) 988-9600 (916) 921-9600

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

Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949 Marc Briggs Attention:

Client Proj. ID: Exxon 7-0235, 222913

Received: 03/16/98

Lab Proj. ID: 9803B35

Reported: 03/31/98

LABORATORY NARRATIVE

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

SEQUOIA ANALYTICAL

Richard Harting Project Manager