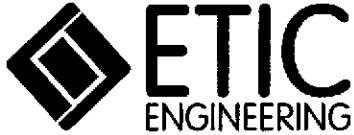


RO 422



Semi-annual Groundwater Monitoring Report Third Quarter 2004

**Former Mobil Station 04-FGN
14994 East 14th Street
San Leandro, California**

Prepared for

ExxonMobil Refining and Supply Company
25A Crescent Drive #407
Pleasant Hill, California 94523

Prepared by

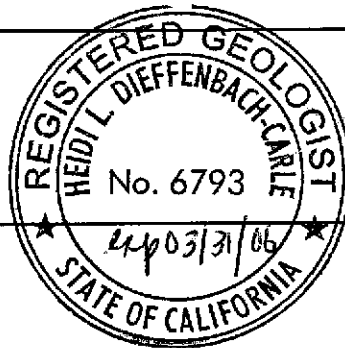
ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, California 94523
(925) 602-4710

Bryan Campbell
Project Manager

September 1, 2004

Date

Heidi Dieffenbach-Carle, R.G. #6793
Senior Geologist



September 1, 2004

Date

September 2004

ExxonMobil
Refining & Supply Company
Global Remediation
25A Crescent Drive #407
Pleasant Hill, CA 94523
(925) 246-8747 Telephone
(925) 246-7822 Facsimile
gene.n.ortega@exxonmobil.com

Gene N. Ortega
Project Manager
Global Remediation - U.S. Retail

ExxonMobil
Refining & Supply

August 31, 2004

Mr. Amir Gholami
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway
Alameda, California 94501

Subject: Former Mobil Station 04-FGN, 14994 East 14th Street, San Leandro, California

Dear Mr. Gholami:

Attached for your review and comment is a copy of the *Semi-annual Groundwater Monitoring Report, Third Quarter 2004* for the above-referenced site. The report, prepared by ETIC Engineering, Inc. of Pleasant Hill, California, details the results of the July 2004 sampling event.

A **Formal Case Closure Request**, dated November 23, 1998, was previously submitted by Alton Geoscience to your agency for the site. The report recommended that the site be granted case closure with no further action. A review of the case file at your agency was conducted by ETIC Engineering, Inc., on August 5, 2004, and no response by your agency to that report was found. We request that your agency please review that report. Almost six years of groundwater monitoring has been conducted since the report was issued and hydrocarbon concentrations appear to show a stable or decreasing trend. I would like to discuss case closure of this site with you.

If you have any questions or comments, please contact me at (925) 246-8747.

Sincerely,



Gene N. Ortega
Project Manager

Attachment: ETIC Semi-annual Groundwater Monitoring Report dated September 2004

- c: w/ attachment:
Ms. Jana Gluckman (property owner)

- c: w/o attachment:
Ms. Christa Marting - ETIC Engineering, Inc.

Alameda County
9/8/04
No 402
AG

Alameda County
SEP 03 2004
Environmental Health Services

INTRODUCTION

At the request of ExxonMobil Refining and Supply Company, ETIC Engineering, Inc. has prepared this semi-annual groundwater monitoring report for former Mobil Station 04-FGN. This report presents the results for the most recent groundwater monitoring conducted at the site and summarizes recent site activities. This report covers site activities from 15 January 2004, the date of the last monitoring event, until 7 July 2004, the date of the recent monitoring event. Groundwater monitoring results, well construction details, and a groundwater monitoring plan are provided in the attached figures and tables. Groundwater monitoring protocols, field data, and analytical results are provided in the attached appendixes.

GENERAL SITE INFORMATION

| | |
|----------------------------------|---|
| Site name: | Former Mobil Station 04-FGN |
| Site address: | 14994 East 14 th Street, San Leandro, California |
| Current property owner: | Jana Gluckman |
| Current site use: | Retail shopping center |
| Current phase of project: | Groundwater monitoring |
| Tanks at site: | None |
| Number of wells: | 3 (all onsite) |

GROUNDWATER MONITORING SUMMARY

| | |
|------------------------------------|---|
| Gauging and sampling date: | 7 July 2004 |
| Wells gauged and sampled: | MW1A-MW3A |
| Wells gauged only: | None |
| Groundwater flow direction: | South-southwest |
| Groundwater gradient: | 0.007 |
| Well screens submerged: | None |
| Well screens not submerged: | MW1A-MW3A |
| Liquid-phase hydrocarbons: | Not observed or detected |
| Laboratory: | TestAmerica, Inc., Nashville, Tennessee |

Analyses performed:

- Total Petroleum Hydrocarbons as gasoline by EPA Method 8015B
- Benzene, toluene, ethylbenzene, and total xylenes by EPA Method 8021B
- Methyl t-butyl ether, ethyl t-butyl ether, t-amyl methyl ether, t-butyl alcohol, diisopropyl ether, 1,2-dichloroethane, and 1,2-dibromoethane by EPA Method 8260B

SITE CONTACTS

Station Number: Former Mobil Station 04-FGN

Station Address: 14994 East 14th Street
San Leandro, California

ExxonMobil Project Manager: Gene N. Ortega
ExxonMobil Refining and Supply Company
25A Crescent Drive #407
Pleasant Hill, California 94523
(925) 246-8747

Consultant to ExxonMobil: ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, California 94523
(925) 602-4710

ETIC Project Manager: Bryan Campbell

Regulatory Oversight: Amir Gholami
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway
Alameda, California 94501
(510) 567-6783

ADDITIONAL ACTIVITIES PERFORMED AT SITE

No additional activities were performed at the site.

WORK PROPOSED FOR NEXT QUARTER

The site is sampled semi-annually. Groundwater will be monitored in accordance with the attached groundwater monitoring plan in the first quarter of 2005.

Attachments:

Figure 1: Site Plan Showing Groundwater Elevations and Analytical Results

Table 1: Well Construction Details

Table 2: Groundwater Monitoring Data

Table 3: Groundwater Analytical Results for Oxygenates and Additives

Table 4: Groundwater Monitoring Plan

Appendix A: Field Protocols

Appendix B: Field Documents

Appendix C: Laboratory Analytical Reports



Approximate
Groundwater Flow Direction
Gradient = 0.007

| | |
|--------------|-------|
| Benzene | 15.9 |
| Toluene | 2.7 |
| Ethylbenzene | 5.8 |
| Xylenes | 1.8 |
| TPH-g | 2,250 |
| MTBE(8260) | <0.5 |

| | |
|--------------|-------|
| Benzene | 18.7 |
| Toluene | 2.9 |
| Ethylbenzene | 3.7 |
| Xylenes | 1.5 |
| TPH-g | 2,210 |
| MTBE(8260) | <0.5 |

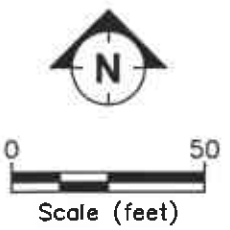
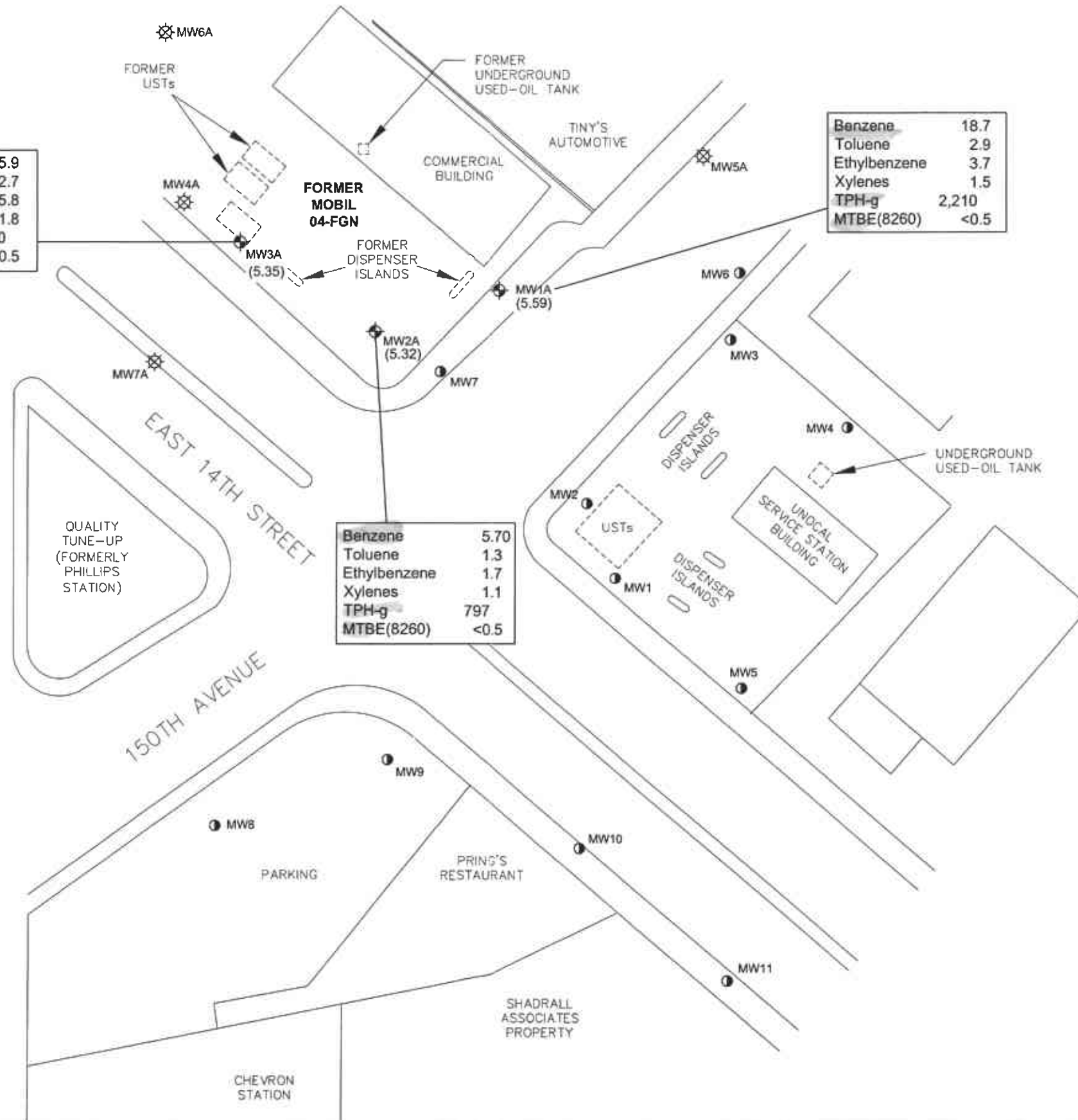
| | |
|--------------|------|
| Benzene | 5.70 |
| Toluene | 1.3 |
| Ethylbenzene | 1.7 |
| Xylenes | 1.1 |
| TPH-g | 797 |
| MTBE(8260) | <0.5 |

LEGEND:

- MW2 Mobil groundwater monitoring well
- MW1 Destroyed monitoring well location
- MW1 Unocal groundwater monitoring well
- (5.59) Groundwater elevation (feet)
- TPH-g Total Petroleum Hydrocarbons as gasoline
- MTBE Methyl t-butyl ether

NOTE:

Concentrations in micrograms per liter (ug/L).



SITE PLAN SHOWING GROUNDWATER ELEVATIONS AND ANALYTICAL RESULTS
FORMER MOBIL STATION 04-FGN
14994 EAST 14th STREET, SAN LEANDRO, CALIFORNIA
7 JULY 2004

FIGURE:

1

TABLE 1 WELL CONSTRUCTION DETAILS, FORMER MOBIL STATION 04-FGN, 14994 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

| Well Number | Well Installation Date | Elevation TOC (feet) | Casing Material | Total Depth (feet) | Well Depth (feet) | Borehole Diameter (inches) | Casing Diameter (inches) | Screened Interval (feet) | Slot Size (inches) | Filter Pack Interval (feet) | Filter Pack Material |
|-------------|------------------------|----------------------|-----------------|--------------------|-------------------|----------------------------|--------------------------|--------------------------|--------------------|--------------------------------|----------------------|
| MW1A | a 03/31/88 | 16.34 | PVC | 24 | 19 | 8 | 2 | 9 - 19 | 0.020 | 8 - 19 19 - 24 ^c | #3 Sand |
| MW2A | a 02/10/94 | 16.12 | PVC | 24 | 24 | 8 | 2 | 8.5 - 24 | 0.010 | 7 - 24 | #2/12 Lonestar Sand |
| MW3A | a 02/10/94 | 16.42 | PVC | 23 | 23 | 8 | 2 | 8 - 23 | 0.010 | 6.5 - 23 | #2/12 Lonestar Sand |
| MW4A | b 06/01/95 | -- | PVC | 26.5 | 24 | 11 | 4 | 9 - 24 | 0.010 | 7 - 26.5 | #2/12 Lonestar Sand |
| MW5A | b 06/01/95 | -- | PVC | 26.5 | 24 | 11 | 4 | 9 - 24 | 0.010 | 7 - 26.5 | #2/12 Lonestar Sand |
| MW6A | b 06/02/95 | -- | PVC | 26.5 | 24 | 11 | 4 | 9 - 24 | 0.010 | 7 - 26.5 | #2/12 Lonestar Sand |
| MW7A | b 07/28/95 | -- | PVC | 26.5 | 24 | 11 | 4 | 9 - 24 | 0.010 | 7 - 26.5 | #2/12 Lonestar Sand |

a Well resurveyed on 27 November 2001.
 b Well destroyed.
 c Depth of bentonite seal at the base of the boring.

PVC Polyvinyl chloride.
 TOC Top of casing.

-- Information not available.

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04-FGN, 14994 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

| Well ID | Date | TOC Elevation (feet) | Depth to Water (feet) | Groundwater Elevation (feet) | Concentrations (µg/L) | | | | | | | |
|---------|----------|----------------------|--|------------------------------|-----------------------|--------------------|---------|---------|---------------|---------------|---------------------|---------------------|
| | | | | | TPH-g | TPH-d | Benzene | Toluene | Ethyl-benzene | Total Xylenes | MTBE (8020 or 8021) | MTBE (8240 or 8260) |
| MW1A | 03/31/88 | 36.35 | — | — | 29,000 | ND | ND | ND | 550 | 640 | — | — |
| MW1A | 01/31/89 | 36.35 | — | — | 11,200 | — | 260 | ND | 500 | 500 | — | — |
| MW1A | 02/24/94 | 36.35 | 9.42 | 26.93 | 11,000 | 2,500 | 70 | ND | 260 | 180 | — | — |
| MW1A | 08/03/94 | 36.35 | 12.00 | 24.35 | 13,000 | 7,100 | 61 | 50 | 280 | 230 | — | — |
| MW1A | 11/23/94 | 36.35 | 11.18 | 25.17 | 12,000 | 2,500 | 49 | ND | 300 | 190 | — | — |
| MW1A | 02/28/95 | 36.35 | 9.08 | 27.27 | 10,000 | 3,200 | 25 | ND | 110 | 67 | — | — |
| MW1A | 05/10/95 | 36.35 | 8.33 | 28.02 | 10,000 | 3,600 | 31 | ND | 140 | 81 | — | — |
| MW1A | 08/02/95 | 36.63 | 9.49 | 27.14 | 10,000 | 3,800 | 24 | 18 | 130 | 80 | — | — |
| MW1A | 11/02/95 | 36.63 | 11.05 | 25.58 | 12,000 | 3,400 ⁱ | ND | ND | 190 | 150 | — | — |
| MW1A | 02/08/96 | 36.63 | 7.55 | 29.08 | 8,000 | 3,600 ⁱ | 100 | 21 | 87 | 58 | — | — |
| MW1A | 05/08/96 | 36.63 | 7.52 | 29.11 | 9,200 | — | 11 | ND | 120 | 64 | — | — |
| MW1A | 08/09/96 | 36.63 | 9.63 | 27.00 | — | — | — | — | — | — | — | — |
| MW1A | 08/20/96 | 36.63 | — | — | 6,800 | — | 64 | 22 | 100 | 55 | 130 | ND |
| MW1A | 11/07/96 | 36.63 | 11.01 | 25.62 | 7,900 | — | 100 | 12 | 70 | 34 | 95 | ND |
| MW1A | 02/10/97 | 36.63 | 7.58 | 29.05 | 5,800 | — | 36 | 15 | 67 | 29 | 58 | ND |
| MW1A | 05/07/97 | 36.63 | 9.15 | 27.48 | 1,400 | — | 13 | ND | 11 | ND | ND | — |
| MW1A | 09/10/97 | 36.63 | 10.88 | 25.75 | 7,800 | — | 64 | ND | 70 | 26 | 120 | ND |
| MW1A | 02/12/98 | 36.63 | 5.52 | 31.11 | ND | — | ND | ND | ND | ND | ND | — |
| MW1A | 08/12/98 | 36.63 | 8.80 | 27.83 | 500 | — | 41 | 12 | 1.8 | 20 | ND | — |
| MW1A | 12/10/99 | 36.63 | 10.86 | 25.77 | 1,700 | — | ND | 1.4 | 6.2 | 3.3 | ND | — |
| MW1A | 01/14/00 | 36.63 | 11.33 | 25.30 | 4,600 | — | ND | 30 | 28 | ND | ND | — |
| MW1A | 10/27/00 | 36.63 | 10.30 | 26.33 | 3,500 | — | <10 | 2.6 | 13 | 6.4 | 18 | <5 |
| MW1A | 01/18/01 | 36.63 | 10.45 | 26.18 | 4,500 | — | <10 | 3.9 | 12 | 4.7 | <20 | — |
| MW1A | 07/10/01 | 36.63 | 10.72 | 25.91 | 2,000 | — | <20 | 18 | 9.6 | 18 | <20 | <2 |
| MW1A | 11/27/01 | 16.34 | Well resurveyed to new reference point | | | | | | | | | |
| MW1A | 01/16/02 | 16.34 | 9.02 | 7.32 | 2,690 | — | 11.7 | 1.60 | 6.80 | 6.00 | 23.9 | — |
| MW1A | 07/08/02 | 16.34 | 10.43 | 5.91 | 1,570 | — | 12.0 | 11.0 | <5.0 | <5.0 | 24.0 | <0.50 |
| MW1A | 01/23/03 | 16.34 | 8.84 | 7.50 | 2,040 | — | 16.5 | 3.5 | 8.70 | 5.90 | — | <0.50 |
| MW1A | 07/09/03 | 16.34 | 9.97 | 6.37 | 1,440 | — | 8.60 | 1.0 | 7.3 | 5.2 | 13.6 | <0.5 |
| MW1A | 01/15/04 | 16.34 | 9.39 | 6.95 | 1,640 | — | 0.70 | 5.2 | 4.0 | 2.8 | — | <0.5 |
| MW1A | 07/07/04 | 16.34 | 10.75 | 5.59 | 2,210 | — | 18.7 | 2.9 | 3.7 | 1.5 | — | <0.5 |
| MW2A | 02/24/94 | 36.61 | 9.52 | 27.09 | 6,400 | 4,500 | 31 | ND | 58 | 42 | — | — |
| MW2A | 08/23/94 | 36.61 | 12.05 | 24.56 | 7,500 | 7,100 | 42 | 21 | 71 | 53 | — | — |

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04-FGN, 14994 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

| Well ID | Date | TOC Elevation (feet) | Depth to Water (feet) | Groundwater Elevation (feet) | Concentrations (µg/L) | | | | | | | |
|---------|----------|----------------------|--|------------------------------|-----------------------|--------------------|---------|---------|---------------|---------------|---------------------|---------------------|
| | | | | | TPH-g | TPH-d | Benzene | Toluene | Ethyl-benzene | Total Xylenes | MTBE (8020 or 8021) | MTBE (8240 or 8260) |
| MW2A | 11/23/94 | 36.61 | 11.25 | 25.36 | 7,000 | 1,800 | 33 | 11 | 39 | ND | — | — |
| MW2A | 02/28/95 | 36.61 | 9.10 | 27.51 | 9,000 | 1,600 | 29 | 36 | 96 | 45 | — | — |
| MW2A | 05/10/95 | 36.61 | 8.42 | 28.19 | 5,100 | 1,600 | 20 | 27 | 32 | 35 | — | — |
| MW2A | 08/02/95 | 36.62 | 9.54 | 27.08 | 4,300 | 1,800 | 36 | ND | 11 | 16 | — | — |
| MW2A | 11/02/95 | 36.62 | 11.08 | 25.54 | 4,300 | 3,000 ⁱ | 22 | ND | 10 | 11 | — | — |
| MW2A | 02/08/96 | 36.62 | 7.68 | 28.94 | 2,900 | 940 ⁱ | 32 | 13 | 13 | ND | — | — |
| MW2A | 05/08/96 | 36.62 | 8.64 | 27.98 | 2,500 | — | 13 | 12 | 19 | 26 | — | — |
| MW2A | 08/09/96 | 36.62 | 9.71 | 26.91 | — | — | — | — | — | — | — | — |
| MW2A | 08/20/96 | 36.62 | — | — | 2,500 | — | 19 | 11 | 6.8 | 8.1 | 36 | — |
| MW2A | 11/07/96 | 36.62 | 11.04 | 25.58 | 4,700 | — | 58 | 7.3 | 5.3 | ND | 55 | — |
| MW2A | 02/10/97 | 36.62 | 7.75 | 28.87 | 2,600 | — | 12 | 10 | 35 | 15 | ND | — |
| MW2A | 05/07/97 | 36.62 | 9.23 | 27.39 | 3,300 | — | 25 | 18 | 16 | 11 | ND | — |
| MW2A | 09/10/97 | 36.62 | 10.91 | 25.71 | 2,800 | — | 24 | ND | ND | ND | 43 | — |
| MW2A | 02/12/98 | 36.62 | 5.59 | 31.03 | 3,800 | — | 10 | 11 | 30 | 14 | ND | — |
| MW2A | 08/12/98 | 36.62 | 8.85 | 27.77 | 1,300 | — | 0.8 | 8.7 | 2.4 | 4.7 | ND | — |
| MW2A | 12/10/99 | 36.62 | 10.90 | 25.72 | 1,300 | — | ND | 2.2 | ND | ND | ND | — |
| MW2A | 01/14/00 | 36.62 | 11.39 | 25.23 | 2,700 | — | 1.3 | 18 | 2.4 | ND | ND | — |
| MW2A | 10/27/00 | 36.62 | 10.48 | 26.14 | 2,600 | — | 9.6 | 2.4 | <5.0 | <5.0 | 7.9 | — |
| MW2A | 01/18/01 | 36.62 | 10.61 | 26.01 | 3,800 | — | <5.0 | 2.1 | 3.0 | 2.0 | <10 | — |
| MW2A | 07/10/01 | 36.62 | 10.78 | 25.84 | 2,100 | — | <10 | 2.6 | 2.8 | 3.4 | <10 | — |
| MW2A | 11/27/01 | 16.12 | Well resurveyed to new reference point | | | | | | | | | |
| MW2A | 01/16/02 | 16.12 | 9.11 | 7.01 | 2,500 | — | 9.80 | 5.10 | 6.50 | 9.80 | 16.0 | — |
| MW2A | 07/08/02 | 16.12 | 10.48 | 5.64 | 682 | — | 6.3 | 0.7 | 0.9 | 3.3 | 8.5 | — |
| MW2A | 01/23/03 | 16.12 | 8.94 | 7.18 | 1,180 | — | 8.8 | 3.1 | 4.8 | 5.8 | — | <0.50 |
| MW2A | 07/09/03 | 16.12 | 10.03 | 6.09 | 1,430 | — | 7.80 | 1.5 | 3.1 | 3.4 | 10.5 | <0.5 |
| MW2A | 01/15/04 | 16.12 | 9.48 | 6.64 | 1,530 | — | 0.50 | 4.8 | 2.2 | 2.9 | — | <0.5 |
| MW2A | 07/07/04 | 16.12 | 10.80 | 5.32 | 797 | — | 5.70 | 1.3 | 1.7 | 1.1 | — | <0.5 |
| MW3A | 02/24/94 | 36.92 | 9.85 | 27.07 | 19,000 | 10,000 | 52 | 30 | 690 | 290 | — | — |
| MW3A | 08/23/94 | 36.92 | 12.33 | 24.59 | 14,000 | 11,000 | 44 | 24 | 1,000 | 100 | — | — |
| MW3A | 11/23/94 | 36.92 | 11.56 | 25.36 | 13,000 | 2,600 | 30 | 18 | 690 | 52 | — | — |
| MW3A | 02/28/95 | 36.92 | 9.35 | 27.57 | 8,500 | — | 11 | ND | 340 | 24 | — | — |
| MW3A | 05/10/95 | 36.92 | 8.55 | 28.37 | 7,600 | 3,800 | ND | ND | 400 | 45 | — | — |
| MW3A | 08/02/95 | 36.93 | 9.75 | 27.18 | 9,200 | 3,800 | 17 | 13 | 340 | 34 | — | — |

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04-FGN, 14994 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

| Well ID | Date | TOC Elevation (feet) | Depth to Water (feet) | Groundwater Elevation (feet) | Concentrations (µg/L) | | | | | | | |
|---------|----------|----------------------|--|------------------------------|-----------------------|--------------------|---------|---------|---------------|---------------|---------------------|---------------------|
| | | | | | TPH-g | TPH-d | Benzene | Toluene | Ethyl-benzene | Total Xylenes | MTBE (8020 or 8021) | MTBE (8240 or 8260) |
| MW3A | 11/02/95 | 36.93 | 11.29 | 25.64 | 9,200 | 4,400 ⁱ | 31 | ND | 360 | 72 | — | — |
| MW3A | 02/08/96 | 36.93 | 7.97 | 28.96 | 6,900 | 3,800 ⁱ | 38 | ND | 230 | 43 | — | — |
| MW3A | 05/08/96 | 36.93 | 8.82 | 28.11 | 7,700 | — | ND | ND | 270 | 38 | — | — |
| MW3A | 08/09/96 | 36.93 | 9.95 | 26.98 | — | — | — | — | — | — | — | — |
| MW3A | 08/20/96 | 36.93 | — | — | 5,600 | — | 8.0 | 29 | 180 | 23 | 12 | — |
| MW3A | 11/07/96 | 36.93 | 11.28 | 25.65 | 8,600 | — | 47 | ND | 150 | 29 | ND | — |
| MW3A | 02/10/97 | 36.93 | 7.95 | 28.98 | 8,300 | — | 28 | ND | 130 | 23 | ND | — |
| MW3A | 05/07/97 | 36.93 | 9.45 | 27.48 | 37,000 | — | 230 | 110 | 630 | ND | ND | — |
| MW3A | 09/10/97 | 36.93 | 11.13 | 25.80 | 5,500 | — | 16 | ND | 75 | 11 | ND | — |
| MW3A | 02/12/98 | 36.93 | 5.72 | 31.21 | 10,000 | — | 37 | ND | 84 | 25 | ND | — |
| MW3A | 08/12/98 | 36.93 | 9.05 | 27.88 | 5,600 | — | 4 | 18 | 39 | 19 | ND | — |
| MW3A | 12/10/99 | 36.93 | 11.21 | 25.72 | 5,900 | — | ND | 3.0 | 22 | 5.0 | ND | — |
| MW3A | 01/14/00 | 36.93 | 11.64 | 25.29 | 6,500 | — | 7.5 | 27 | 37 | ND | ND | — |
| MW3A | 10/27/00 | 36.93 | 10.78 | 26.15 | 6,300 | — | <10 | 3.8 | 17 | 5.6 | <20 | — |
| MW3A | 01/18/01 | 36.93 | 10.87 | 26.06 | 7,300 | — | <20 | 3.1 | 14 | 3.3 | <10 | — |
| MW3A | 07/10/01 | 36.93 | 11.03 | 25.90 | 5,200 | — | 7.3 | 8.0 | 11 | 9.6 | <10 | — |
| MW3A | 11/27/01 | 16.42 | Well resurveyed to new reference point | | | | | | | | | |
| MW3A | 01/16/02 | 16.42 | 9.38 | 7.04 | 4,900 | — | 19.0 | <5.00 | 16.0 | 14.0 | 28.0 | <5 |
| MW3A | 07/08/02 | 16.42 | 10.75 | 5.67 | 2,470 | — | 9.1 | 1.8 | 8.8 | 4.1 | 17.5 | — |
| MW3A | 01/23/03 | 16.42 | 9.20 | 7.22 | 2,240 | — | 12.5 | 4.5 | 7.9 | 28.0 | — | <0.50 |
| MW3A | 07/09/03 | 16.42 | 10.28 | 6.14 | 2,850 | — | 10.8 | 2.8 | 8.3 | 5.5 | 15.7 | <0.5 |
| MW3A | 01/15/04 | 16.42 | 9.77 | 6.65 | 2,810 | — | 1.20 | 8.2 | 5.9 | 9.1 | — | <0.5 |
| MW3A | 07/07/04 | 16.42 | 11.07 | 5.35 | 2,250 | — | 15.9 | 2.7 | 5.8 | 1.8 | — | <0.5 |
| MW4A | 08/02/95 | 37.18 | 9.63 | 27.55 | ND | ND | ND | ND | ND | ND | — | — |
| MW4A | 11/02/95 | 37.18 | 11.48 | 25.70 | ND | ND | ND | ND | ND | ND | — | — |
| MW4A | 02/08/96 | 37.18 | 8.18 | 29.00 | ND | ND | ND | 1.1 | ND | 0.92 | — | — |
| MW4A | 05/08/96 | 37.18 | 8.49 | 28.69 | ND | — | ND | ND | ND | ND | — | — |
| MW4A | 08/09/96 | 37.18 | 10.05 | 27.13 | — | — | — | — | — | — | — | — |
| MW4A | 08/20/96 | 37.18 | — | — | ND | — | ND | ND | ND | ND | ND | — |
| MW4A | 11/07/96 | 37.18 | 11.48 | 25.70 | ND | — | ND | ND | ND | 0.88 | ND | — |
| MW4A | 02/10/97 | 37.18 | 8.11 | 29.07 | ND | — | ND | 2.4 | ND | ND | ND | — |
| MW4A | 05/07/97 | 37.18 | 9.64 | 27.54 | ND | — | ND | ND | ND | ND | ND | — |
| MW4A | 09/10/97 | 37.18 | 11.32 | 25.86 | — | — | — | — | — | — | — | — |

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04-FGN, 14994 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

| Well ID | Date | TOC Elevation (feet) | Depth to Water (feet) | Groundwater Elevation (feet) | Concentrations (µg/L) | | | | | | | |
|---------|----------|----------------------|-----------------------|------------------------------|-----------------------|-------|---------|---------|---------------|---------------|---------------------|---------------------|
| | | | | | TPH-g | TPH-d | Benzene | Toluene | Ethyl-benzene | Total Xylenes | MTBE (8020 or 8021) | MTBE (8240 or 8260) |
| MW4A | 02/12/98 | 37.18 | 5.90 | 31.28 | ND | — | ND | ND | ND | ND | ND | — |
| MW4A | 08/12/98 | 37.18 | 9.21 | 27.97 | — | — | — | — | — | — | — | — |
| MW4A | 12/10/99 | 37.18 | 11.46 | 25.72 | ND | — | ND | 0.39 | ND | 0.95 | ND | — |
| MW4A | 03/09/00 | Well destroyed | | | | | | | | | | |
| MW5A | 08/02/95 | 35.91 | 8.74 | 27.17 | 1,300 | 220 | 16 | 0.68 | 1.3 | 4.3 | — | — |
| MW5A | 11/02/95 | 35.91 | 10.34 | 25.57 | 180 | ND | 1.9 | 1.2 | ND | ND | — | — |
| MW5A | 02/08/96 | 35.91 | 6.67 | 29.24 | 160 | 150 | 1.9 | 2.2 | ND | 0.89 | — | — |
| MW5A | 05/08/96 | 35.91 | 7.35 | 28.56 | 260 | — | 2.4 | 6.7 | 2.0 | 9.6 | — | — |
| MW5A | 08/09/96 | 35.91 | 8.81 | 27.10 | — | — | — | — | — | — | — | — |
| MW5A | 08/20/96 | 35.91 | — | — | ND | — | ND | 1.8 | ND | ND | 9.4 | — |
| MW5A | 11/07/96 | 35.91 | 10.25 | 25.66 | — | — | — | — | — | — | — | — |
| MW5A | 02/10/97 | 35.91 | 6.93 | 28.98 | ND | — | ND | 1.2 | ND | ND | ND | — |
| MW5A | 05/07/97 | 35.91 | 8.42 | 27.49 | — | — | — | — | — | — | — | — |
| MW5A | 09/10/97 | 35.91 | 10.15 | 25.76 | — | — | — | — | — | — | — | — |
| MW5A | 02/12/98 | 35.91 | 5.32 | 30.59 | ND | — | ND | ND | ND | ND | ND | — |
| MW5A | 08/12/98 | 35.91 | 8.19 | 27.72 | — | — | — | — | — | — | — | — |
| MW5A | 12/10/99 | 35.91 | 10.10 | 25.81 | ND | — | ND | ND | ND | ND | ND | — |
| MW5A | 03/09/00 | Well destroyed | | | | | | | | | | |
| MW6A | 08/02/95 | 37.10 | 9.68 | 27.42 | ND | ND | ND | ND | ND | ND | — | — |
| MW6A | 11/02/95 | 37.10 | 11.26 | 25.84 | ND | ND | ND | ND | ND | ND | — | — |
| MW6A | 02/08/96 | 37.10 | 7.79 | 29.31 | ND | ND | ND | 1.3 | ND | 1.3 | — | — |
| MW6A | 05/08/96 | 37.10 | 8.38 | 28.72 | ND | — | ND | 1.6 | ND | 1.2 | — | — |
| MW6A | 08/09/96 | 37.10 | 9.82 | 27.28 | — | — | — | — | — | — | — | — |
| MW6A | 08/20/96 | 37.10 | — | — | ND | — | ND | ND | ND | ND | ND | — |
| MW6A | 11/07/96 | 37.10 | 11.02 | 26.08 | — | — | — | — | — | — | — | — |
| MW6A | 02/10/97 | 37.10 | 7.70 | 29.40 | ND | — | ND | 3.4 | ND | ND | ND | — |
| MW6A | 05/07/97 | 37.10 | 9.31 | 27.79 | — | — | — | — | — | — | — | — |
| MW6A | 09/10/97 | 37.10 | 11.08 | 26.02 | — | — | — | — | — | — | — | — |
| MW6A | 02/12/98 | 37.10 | 5.52 | 31.58 | ND | — | ND | ND | ND | ND | ND | — |
| MW6A | 08/12/98 | 37.10 | 8.91 | 28.19 | — | — | — | — | — | — | — | — |
| MW6A | 12/10/99 | 37.10 | 11.24 | 25.86 | ND | — | ND | 0.32 | ND | ND | ND | — |
| MW6A | 03/09/00 | Well destroyed | | | | | | | | | | |

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04-FGN, 14994 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

| Well ID | Date | TOC Elevation (feet) | Depth to Water (feet) | Groundwater Elevation (feet) | Concentrations (µg/L) | | | | | | | |
|---------|----------|----------------------|-----------------------|------------------------------|-----------------------|-------|---------|---------|---------------|---------------|---------------------|---------------------|
| | | | | | TPH-g | TPH-d | Benzene | Toluene | Ethyl-benzene | Total Xylenes | MTBE (8020 or 8021) | MTBE (8240 or 8260) |
| MW7A | 11/02/95 | 37.39 | 11.77 | 25.62 | ND | ND | ND | ND | ND | ND | — | — |
| MW7A | 02/08/96 | 37.39 | 8.68 | 28.71 | ND | 75 | ND | 1.4 | ND | 1.5 | — | — |
| MW7A | 05/08/96 | 37.39 | 9.00 | 28.39 | ND | — | 2.2 | 6.3 | 1.4 | 7.9 | — | — |
| MW7A | 08/09/96 | 37.39 | 10.31 | 27.08 | — | — | — | — | — | — | — | — |
| MW7A | 08/20/96 | 37.39 | — | — | ND | — | ND | ND | ND | ND | ND | — |
| MW7A | 11/07/96 | 37.39 | 11.81 | 25.58 | ND | — | ND | 0.96 | ND | 1.6 | ND | — |
| MW7A | 02/10/97 | 37.39 | 8.57 | 28.82 | ND | — | ND | 2.4 | ND | ND | ND | — |
| MW7A | 05/07/97 | 37.39 | 10.05 | 27.34 | ND | — | ND | ND | ND | ND | ND | — |
| MW7A | 09/10/97 | 37.39 | 11.66 | 25.73 | ND | — | ND | ND | ND | ND | ND | — |
| MW7A | 02/12/98 | 37.39 | 6.55 | 30.84 | ND | — | ND | ND | ND | ND | ND | — |
| MW7A | 08/12/98 | 37.39 | 9.65 | 27.74 | ND | — | 0.5 | ND | ND | ND | ND | — |
| MW7A | 12/10/99 | 37.39 | 11.80 | 25.59 | ND | — | ND | ND | ND | ND | ND | — |
| MW7A | 03/09/00 | Well destroyed | | | | | | | | | | |

i Unidentified hydrocarbons <C10

- TPH-d Total Petroleum Hydrocarbons as diesel.
- TPH-g Total Petroleum Hydrocarbons as gasoline.
- MTBE Methyl tertiary butyl ether.
- ND Not detected at or above laboratory reporting limit.
- TOC Top of casing.
- µg/L Micrograms per liter.
- Not analyzed or not provided.

TABLE 3 GROUNDWATER ANALYTICAL RESULTS FOR OXYGENATES AND ADDITIVES,
FORMER MOBIL STATION 04-FGN, 14994 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

| Well ID | Date | Concentrations (µg/L) | | | | | | |
|---------|----------|-----------------------|----------------------|-------------------|---------------------|---------------------|--------------------|-------------------|
| | | t-Butyl alcohol | Methyl t-butyl ether | Diisopropyl ether | Ethyl t-butyl ether | t-Amyl methyl ether | 1,2-Dichloroethane | 1,2-Dibromoethane |
| MW1A | 08/20/96 | -- | ND | -- | -- | -- | -- | -- |
| MW1A | 11/07/96 | -- | ND | -- | -- | -- | -- | -- |
| MW1A | 02/10/97 | -- | ND | -- | -- | -- | -- | -- |
| MW1A | 09/10/97 | -- | ND | -- | -- | -- | -- | -- |
| MW1A | 10/27/00 | -- | <5 | -- | -- | -- | -- | -- |
| MW1A | 07/10/01 | -- | <2 | -- | -- | -- | -- | -- |
| MW1A | 07/08/02 | -- | <0.50 | -- | -- | -- | -- | -- |
| MW1A | 01/23/03 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW1A | 01/15/04 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| MW1A | 07/07/04 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| MW2A | 01/23/03 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW2A | 01/15/04 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| MW2A | 07/07/04 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| MW3A | 01/16/02 | -- | <5 | -- | -- | -- | -- | -- |
| MW3A | 01/23/03 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW3A | 01/15/04 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| MW3A | 07/07/04 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

ND Not detected at or above laboratory reporting limit.

-- Not analyzed or not provided.
µg/L Micrograms per liter.

TABLE 4 GROUNDWATER MONITORING PLAN,
FORMER MOBIL STATION 04-FGN, 14994 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

| Well Number | Groundwater Gauging Frequency | Groundwater Sampling and Analysis Frequency | | |
|-------------|-------------------------------|---|------|--------------------------|
| | | BTEX and TPH-g | MTBE | Oxygenates and Additives |
| MW1A | SA | SA | SA | SA |
| MW2A | SA | SA | SA | SA |
| MW3A | SA | SA | SA | SA |

SA = Semi-annually (during the first and third quarters of each year).

BTEX = Benzene, toluene, ethylbenzene, total xylenes.

MTBE = Methyl tertiary butyl ether.

TPH-g = Total Petroleum Hydrocarbons as gasoline.

Oxygenates and additives include diisopropyl ether, t-butyl alcohol, tert-amyl methyl ether, ethyl tert-butyl ether, 1,2-dibromoethane, and 1,2-dichloroethane.

Appendix A

Field Protocols

PROTOCOLS FOR QUARTERLY GROUNDWATER MONITORING

GROUNDWATER GAUGING

Wells are opened prior to gauging to allow the groundwater level in the wells to equilibrate with atmospheric pressure. The depth to groundwater and depth to liquid-phase hydrocarbons, if present, are then measured to the nearest 0.01 feet using an electronic water level meter or optical interface probe. The measurements are made from a permanent reference point at the top of the well casing. If less than 1 foot of water is measured in a well, the water is bailed from the well and, if the well does not recover, the well is considered "functionally dry." Wells with a sheen or measurable liquid-phase hydrocarbons are generally not purged or sampled.

WELL PURGING

After the wells are gauged, each well is purged of approximately 3 well casing volumes of water to provide representative groundwater samples for analysis. Field parameters of pH, temperature, and electrical conductance are measured during purging to ensure that these parameters have stabilized before groundwater in a well is sampled. Groundwater in each well is purged using an inertial pump (WaTerra), an electric submersible pump, or a bailer. After the well is purged, the water level is checked to ensure that the well has recharged to at least 80 percent of its original water level.

GROUNDWATER SAMPLING

After purging, groundwater in each well is sampled using dedicated tubing and an inertial pump (WaTerra) or a factory-cleaned disposable bailer. Samples from extraction wells are typically collected from sample ports associated with the groundwater remediation system. Samples collected for volatile organic analysis are placed in Teflon septum-sealed 40-milliliter glass vials. Samples collected for diesel analysis are placed in 1-liter amber glass bottles. Each sample bottle is labeled with the site name, well number, date, sampler's initials, and preservative. The samples are placed in a cooler with ice for delivery to a state-certified laboratory. The information for each sample is entered on a chain-of-custody form prior to transport to the laboratory.

Appendix B

Field Documents



GROUNDWATER PURGE AND SAMPLE

Project Name: Former Mobil 04-FGN Well No: MW1A Date: 7/7/04
 Project No: TM04FGN.6 Personnel: C. Mitchell

GAUGING DATA
 Water Level Measuring Method: WLM Measuring Point Description: TOC

| WELL PURGE VOLUME CALCULATION | Total Depth (feet) | Depth to Water (feet) | Water Column (feet) | Multiplier for Casing Diameter | | | | Casing Volume (gal) | Total Purge Volume (gal) |
|-------------------------------|--------------------|-----------------------|---------------------|--------------------------------|------------------|------------------|------------------|---------------------|--------------------------|
| | | <u>14.62</u> | <u>10.75</u> | <u>3.87</u> | <u>1</u> 0.04 | <u>2</u> 0.16 | <u>4</u> 0.64 | <u>6</u> 1.44 | <u>1.25</u> |

PURGING DATA
 Purge Method: WaTerra Bailer Purge Depth: Screen Purge Rate: (gpm)

| Time | 1 | 2 | 3 | | | |
|--------------------|---------------|---------------|---------------|--|--|--|
| Volume Purge (gal) | <u>1</u> | <u>2</u> | <u>3</u> | | | |
| Temperature (C) | <u>20.5°C</u> | <u>20.1°C</u> | <u>20.0°C</u> | | | |
| pH | <u>7.24</u> | <u>7.19</u> | <u>7.21</u> | | | |
| Spec Cond (umhos) | <u>717.45</u> | <u>723.95</u> | <u>716.15</u> | | | |
| Turbidity/Color | <u>5.14y</u> | <u>5.14y</u> | <u>5.14y</u> | | | |
| Odor (Y/N) | <u>N</u> | <u>N</u> | <u>N</u> | | | |
| Dewatered (Y/N) | <u>N</u> | <u>N</u> | <u>N</u> | | | |

Comments/Observations:

SAMPLING DATA
 Time Sampled: 12:55 Approximate Depth to Water During Sampling: 10 (feet)
 Comments:

| Sample Number | Number of Containers | Container Type | Perservative | Volume Filled (ml or L) | Turbidity/Color | Analysis Method |
|---------------|----------------------|----------------|--------------|-------------------------|-----------------|--------------------------|
| <u>MW1A</u> | <u>6</u> | <u>Voa</u> | <u>HCL</u> | <u>40 ml</u> | | <u>TPH-g, BTEX, MTBE</u> |
| | | | | | | |
| | | | | | | |

Total Purge Volume: 3 (gallons) Disposal: OK
 Weather Conditions: OK
 Condition of Well Box and Casing at Time of Sampling: No screws
 Well Head Conditions Requiring Correction:
 Problems Encountered During Purging and Sampling: None
 Comments:



GROUNDWATER PURGE AND SAMPLE

Project Name: Former Mobil 04-FGN Well No: MW2A Date: 7/2/04
 Project No: TM04FGN.6 Personnel: C. Mitchell

GAUGING DATA

Water Level Measuring Method: WLM Measuring Point Description: TOC

| WELL PURGE VOLUME CALCULATION | Total Depth (feet) | Depth to Water (feet) | Water Column (feet) | Multiplier for Casing Diameter | | | | Casing Volume (gal) | Total Purge Volume (gal) |
|-------------------------------|--------------------|-----------------------|---------------------|--------------------------------|------|------|------|---------------------|--------------------------|
| | | 24.73 | 10.80 | 13.93 | 1 | 2 | 4 | 6 | 2.22 |
| | | | | 0.04 | 0.16 | 0.64 | 1.44 | | |

PURGING DATA

Purge Method: ~~Water~~ Bailou Purge Depth: Screen Purge Rate: (gpm)

| Time | 12:19 | 12:23 | 12:27 | | | |
|---------------------|---------|---------|---------|--|--|--|
| Volume Purge (gal) | 2 | 4 | 6 | | | |
| Temperature (C) | 21.6°C | 20.9°C | 20.8°C | | | |
| pH | 6.54 | 7.09 | 7.10 | | | |
| Spec. Cond. (umhos) | 769.7µS | 771.5µS | 769.7µS | | | |
| Turbidity/Color | Silty | Silty | Silty | | | |
| Odor (Y/N) | N | N | N | | | |
| Dewatered (Y/N) | N | N | N | | | |

Comments/Observations:

SAMPLING DATA

Time Sampled: 12:30 Approximate Depth to Water During Sampling: 10 (feet)

Comments:

| Sample Number | Number of Containers | Container Type | Perservative | Volume Filled (mL or L) | Turbidity/Color | Analysis Method |
|---------------|----------------------|----------------|--------------|-------------------------|-----------------|-------------------|
| MW2A | 6 | Voa | HCL | 40 ml | / | TPH-g, BTEX, MTBE |
| | | | | | | |
| | | | | | | |

Total Purge Volume: 6 (gallons) Disposal:

Weather Conditions:

Condition of Well Box and Casing at Time of Sampling:

Well Head Conditions Requiring Correction:

Problems Encountered During Purging and Sampling:

Comments:

04
~~None~~ 1 tank stripped 1x0
 None
 None



GROUNDWATER PURGE AND SAMPLE

| | | |
|-----------------------------------|------------------------|--------------|
| Project Name: Former Mobil 04-FGN | Well No: MW3A | Date: 7/7/09 |
| Project No: TM04FGN.6 | Personnel: C. Mitchell | |

GAUGING DATA

Water Level Measuring Method: WLM

Measuring Point Description: TOC

| WELL PURGE VOLUME CALCULATION | Total Depth (feet) | Depth to Water (feet) | Water Column (feet) | Multiplier for Casing Diameter | | | | Casing Volume (gal) | Total Purge Volume (gal) |
|-------------------------------|--------------------|-----------------------|---------------------|--------------------------------|-----------|-----------|-----------|---------------------|--------------------------|
| | | 22.52 | 11.07 | 11.45 | 1 0.04 | 2 0.16 | 4 0.64 | 6 1.44 | 1.83 |

PURGING DATA

Purge Method: WaTerra

Purge Depth:

Screen

Purge Rate:

(gpm)

| Time | 13:14 | 13:15 | 13:16 | | | |
|---------------------|---------|---------|---------|--|--|--|
| Volume Purge (gal) | 2 | 4 | 6 | | | |
| Temperature (°C) | 21.9°C | 21.6°C | 21.6°C | | | |
| pH | 7.23 | 7.10 | 7.09 | | | |
| Spec. Cond. (µmhos) | 1028 µs | 1031 µs | 1032 µs | | | |
| Turbidity/Color | Silty | Clear | Clear | | | |
| Odor (Y/N) | N | N | N | | | |
| Dechlorinated (Y/N) | N | N | N | | | |

Comments/Observations:

SAMPLING DATA

Time Sampled: 13:20

Approximate Depth to Water During Sampling: 11 (feet)

Comments:

| Sample Number | Number of Containers | Container Type | Perservative | Volume Filled (mL or L) | Turbidity/Color | Analysis Method |
|---------------|----------------------|----------------|--------------|-------------------------|-----------------|-------------------|
| MW3A | 6 | Voa | HCL | 40 ml | | TPH-g, BTEX, MTBE |
| | | | | | | |
| | | | | | | |

Total Purge Volume: 6 (gallons)

Disposal:

Weather Conditions:

Condition of Well Box and Casing at Time of Sampling:

Well Head Conditions Requiring Correction:

Problems Encountered During Purging and Sampling:

Comments:

OK
OK
None
None

Appendix C

Laboratory Analytical Reports

RECEIVED

AUG 30 2004

8/25/04

CASE NARRATIVE

ETIC ENGINEERING

**ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523**

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: EXXONMOBIL 04-FGN
Project Number: .
Laboratory Project Number: 381812.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

| Sample Identification | Lab Number | Page 1 Collection Date |
|-----------------------|------------|---------------------------|
| ----- | ----- | ----- |
| MW1A | 04-A106106 | 7/ 7/04 |
| MW2A | 04-A106107 | 7/ 7/04 |
| MW3A | 04-A106108 | 7/ 7/04 |

Additional Laboratory Comments:

Corrected sample ID on 106107.

| Sample Identification | Lab Number | Page 2 Collection Date |
|-----------------------|------------|---------------------------|
|-----------------------|------------|---------------------------|

These results relate only to the items tested.
This report shall not be reproduced except in full and with
permission of the laboratory. This is a re-issued report.

Report Approved By: 

Report Date: 8/25/04
Revised Report Date

Johnny A. Mitchell, Operations Manager
Michael H. Dunn, M.S., Technical Director
Pamela A. Langford, Technical Services
Eric S. Smith, QA/QC Director
Sandra McMillin, Technical Services

Gail A. Lage, Technical Services
Glenn L. Norton, Technical Services
Kelly S. Comstock, Technical Services
Roxanne L. Connor, Technical Services

Laboratory Certification Number: 01168CA

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ANALYTICAL REPORT

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

Lab Number: 04-A106106
Sample ID: MW1A
Sample Type: Water
Site ID: 04-FGN

Project:
Project Name: EXXONMOBIL 04-FGN
Sampler: CHRISTOPHER L. MITCHELL

Date Collected: 7/ 7/04
Time Collected: 12:55
Date Received: 7/ 9/04
Time Received: 8:00
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|-----------------------------|--------|-------|--------------|------------|---------------|---------------|-----------|--------|-------|
| *ORGANIC PARAMETERS* | | | | | | | | | |
| Benzene | 18.7 | ug/l | 0.50 | 1.0 | 7/13/04 | 1:41 | H. Wagner | 8021B | 2201 |
| Ethylbenzene | 3.7 | ug/l | 0.5 | 1.0 | 7/13/04 | 1:41 | H. Wagner | 8021B | 2201 |
| Toluene | 2.9 | ug/l | 0.5 | 1.0 | 7/13/04 | 1:41 | H. Wagner | 8021B | 2201 |
| Xylenes (Total) | 1.5 | ug/l | 0.5 | 1.0 | 7/13/04 | 1:41 | H. Wagner | 8021B | 2201 |
| TPH (Gasoline Range) | 2210 | ug/l | 50.0 | 1.0 | 7/13/04 | 1:41 | H. Wagner | 8015B | 2201 |
| *VOLATILE ORGANICS* | | | | | | | | | |
| Ethyl-t-butylether | ND | ug/l | 0.50 | 1.0 | 7/12/04 | 14:44 | B.Herford | 8260B | 4227 |
| tert-amyl methyl ether | ND | ug/L | 0.50 | 1.0 | 7/12/04 | 14:44 | B.Herford | 8260B | 4227 |
| Tertiary butyl alcohol | ND | ug/l | 10.0 | 1.0 | 7/12/04 | 14:44 | B.Herford | 8260B | 4227 |
| 1,2-Dibromoethane | ND | ug/l | 0.50 | 1.0 | 7/12/04 | 14:44 | B.Herford | 8260B | 4227 |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | 1.0 | 7/12/04 | 14:44 | B.Herford | 8260B | 4227 |
| Methyl-t-butyl ether | ND | ug/l | 0.50 | 1.0 | 7/12/04 | 14:44 | B.Herford | 8260B | 4227 |
| Diisopropyl ether | ND | ug/l | 0.50 | 1.0 | 7/12/04 | 14:44 | B.Herford | 8260B | 4227 |

| Surrogate | % Recovery | Target Range |
|---------------------------|------------|--------------|
| BTEX/GRO Surr., a,a,a-TFT | 110. | 62. - 136. |
| VOA Surr 1,2-DCA-d4 | 96. | 71. - 128. |
| VOA Surr Toluene-d8 | 84. | 77. - 119. |
| VOA Surr, 4-BFB | 103. | 79. - 123. |
| VOA Surr, DBFM | 93. | 78. - 124. |

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A106106
Sample ID: MW1A
Project:
Page 2

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

Lab Number: 04-A106107
Sample ID: MW2A
Sample Type: Water
Site ID: 04-FGN

Project:
Project Name: EXXONMOBIL 04-FGN
Sampler: CHRISTOPHER L. MITCHELL

Date Collected: 7/ 7/04
Time Collected: 12:30
Date Received: 7/ 9/04
Time Received: 8:00
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis | | Analyst | Method | Batch |
|------------------------|--------|-------|--------------|------------|----------|------|-----------|--------|-------|
| | | | | | Date | Time | | | |
| *ORGANIC PARAMETERS* | | | | | | | | | |
| Benzene | 5.70 | ug/l | 0.50 | 1.0 | 7/13/04 | 2:13 | H. Wagner | 8021B | 2201 |
| Ethylbenzene | 1.7 | ug/l | 0.5 | 1.0 | 7/13/04 | 2:13 | H. Wagner | 8021B | 2201 |
| Toluene | 1.3 | ug/l | 0.5 | 1.0 | 7/13/04 | 2:13 | H. Wagner | 8021B | 2201 |
| Xylenes (Total) | 1.1 | ug/l | 0.5 | 1.0 | 7/13/04 | 2:13 | H. Wagner | 8021B | 2201 |
| TPH (Gasoline Range) | 797. | ug/l | 50.0 | 1.0 | 7/13/04 | 2:13 | H. Wagner | 8015B | 2201 |
| *VOLATILE ORGANICS* | | | | | | | | | |
| Ethyl-t-butylether | ND | ug/l | 0.50 | 1.0 | 7/12/04 | 2:56 | B.Herford | 8260B | 3369 |
| tert-amyl methyl ether | ND | ug/L | 0.50 | 1.0 | 7/12/04 | 2:56 | B.Herford | 8260B | 3369 |
| Tertiary butyl alcohol | ND | ug/l | 10.0 | 1.0 | 7/12/04 | 2:56 | B.Herford | 8260B | 3369 |
| 1,2-Dibromoethane | ND | ug/l | 0.50 | 1.0 | 7/12/04 | 2:56 | B.Herford | 8260B | 3369 |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | 1.0 | 7/12/04 | 2:56 | B.Herford | 8260B | 3369 |
| Methyl-t-butyl ether | ND | ug/l | 0.50 | 1.0 | 7/12/04 | 2:56 | B.Herford | 8260B | 3369 |
| Diisopropyl ether | ND | ug/l | 0.50 | 1.0 | 7/12/04 | 2:56 | B.Herford | 8260B | 3369 |

| Surrogate | % Recovery | Target Range |
|---------------------------|------------|--------------|
| BTEX/GRO Surr., a,a,a-TFT | 89. | 62. - 136. |
| VOA Surr 1,2-DCA-d4 | 96. | 71. - 128. |
| VOA Surr Toluene-d8 | 83. | 77. - 119. |
| VOA Surr, 4-BFB | 104. | 79. - 123. |
| VOA Surr, DBFM | 92. | 78. - 124. |

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A106107
Sample ID: MW2A
Project:
Page 2

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

ANALYTICAL REPORT

ETIC ENGINEERING 3865
BRYAN CAMPBELL
2285 MORELLO AVENUE
PLEASANT HILL, CA 94523

Lab Number: 04-A106108
Sample ID: MW3A
Sample Type: Water
Site ID: 04-FGN

Project:
Project Name: EXXONMOBIL 04-FGN
Sampler: CHRISTOPHER L. MITCHELL

Date Collected: 7/ 7/04
Time Collected: 13:20
Date Received: 7/ 9/04
Time Received: 8:00
Page: 1

| Analyte | Result | Units | Report | Dil | Analysis | | Analyst | Method | Batch |
|------------------------|--------|-------|--------|--------|----------|------|------------|--------|-------|
| | | | Limit | Factor | Date | Time | | | |
| *ORGANIC PARAMETERS* | | | | | | | | | |
| Benzene | 15.9 | ug/l | 0.50 | 1.0 | 7/13/04 | 2:44 | H. Wagner | 8021B | 2201 |
| Ethylbenzene | 5.8 | ug/l | 0.5 | 1.0 | 7/13/04 | 2:44 | H. Wagner | 8021B | 2201 |
| Toluene | 2.7 | ug/l | 0.5 | 1.0 | 7/13/04 | 2:44 | H. Wagner | 8021B | 2201 |
| Xylenes (Total) | 1.8 | ug/l | 0.5 | 1.0 | 7/13/04 | 2:44 | H. Wagner | 8021B | 2201 |
| TPH (Gasoline Range) | 2250 | ug/l | 50.0 | 1.0 | 7/13/04 | 2:44 | H. Wagner | 8015B | 2201 |
| *VOLATILE ORGANICS* | | | | | | | | | |
| Ethyl-t-butylether | ND | ug/l | 0.50 | 1.0 | 7/12/04 | 3:24 | B. Herford | 8260B | 3369 |
| tert-amyl methyl ether | ND | ug/L | 0.50 | 1.0 | 7/12/04 | 3:24 | B. Herford | 8260B | 3369 |
| Tertiary butyl alcohol | ND | ug/l | 10.0 | 1.0 | 7/12/04 | 3:24 | B. Herford | 8260B | 3369 |
| 1,2-Dibromoethane | ND | ug/l | 0.50 | 1.0 | 7/12/04 | 3:24 | B. Herford | 8260B | 3369 |
| 1,2-Dichloroethane | ND | ug/l | 0.50 | 1.0 | 7/12/04 | 3:24 | B. Herford | 8260B | 3369 |
| Methyl-t-butyl ether | ND | ug/l | 0.50 | 1.0 | 7/12/04 | 3:24 | B. Herford | 8260B | 3369 |
| Diisopropyl ether | ND | ug/l | 0.50 | 1.0 | 7/12/04 | 3:24 | B. Herford | 8260B | 3369 |

| Surrogate | % Recovery | Target Range |
|---------------------------|------------|--------------|
| BTEX/GRO Surr., a,a,a-TFT | 115. | 62. - 136. |
| VOA Surr 1,2-DCA-d4 | 94. | 71. - 128. |
| VOA Surr Toluene-d8 | 90. | 77. - 119. |
| VOA Surr, 4-BFB | 101. | 79. - 123. |
| VOA Surr, DBFM | 91. | 78. - 124. |

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 04-A106108
Sample ID: MW3A
Project:
Page 2

LABORATORY COMMENTS:

- ND = Not detected at the report limit.
- B = Analyte was detected in the method blank.
- J = Estimated Value below Report Limit.
- E = Estimated Value above the calibration limit of the instrument.
- # = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

PROJECT QUALITY CONTROL DATA

Project Number:
Project Name: **EXXONMOBIL 04-FGN**
Page: 1
Laboratory Receipt Date: **7/ 9/04**

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on a true sample matrix. Laboratory reagent water was used for QC purposes.

| Analyte | units | Orig. Val. | MS Val | Spike Conc | Recovery | Target Range | Q.C. Batch | Spike Sample |
|---------------------------|------------|------------|--------|------------|----------|--------------|------------|--------------|
| **UST ANALYSIS** | | | | | | | | |
| Benzene | mg/l | 0.00560 | 0.0606 | 0.0500 | 110 | 53. - 159. | 2201 | 106061 |
| Toluene | mg/l | < 0.0005 | 0.0479 | 0.0500 | 96 | 54. - 156. | 2201 | 106061 |
| Ethylbenzene | mg/l | 0.0041 | 0.0518 | 0.0500 | 95 | 50. - 159. | 2201 | 106061 |
| Xylenes (Total) | mg/l | 0.0032 | 0.0475 | 0.100 | 44# | 53. - 151. | 2201 | 106061 |
| BTEX/GRO Surr., a,a,a-TFT | % Recovery | | | | 177 | 62 - 136 | 2201 | |
| VOA Surr 1,2-DCA-d4 | % Rec | | | | 93 | 71 - 128 | 3369 | |
| VOA Surr 1,2-DCA-d4 | % Rec | | | | 94 | 71 - 128 | 4227 | |
| VOA Surr Toluene-d8 | % Rec | | | | 105 | 77 - 119 | 3369 | |
| VOA Surr Toluene-d8 | % Rec | | | | 101 | 77 - 119 | 4227 | |
| VOA Surr, 4-BFB | % Rec | | | | 94 | 79 - 123 | 3369 | |
| VOA Surr, 4-BFB | % Rec | | | | 84 | 79 - 123 | 4227 | |
| VOA Surr, DBFM | % Rec | | | | 92 | 78 - 124 | 3369 | |
| VOA Surr, DBFM | % Rec | | | | 91 | 78 - 124 | 4227 | |

Matrix Spike Duplicate

| Analyte | units | Orig. Val. | Duplicate | RPD | Limit | Q.C. Batch |
|---------------------------|-------|------------|-----------|------|-------|------------|
| **UST PARAMETERS** | | | | | | |
| Benzene | mg/l | 0.0606 | 0.0627 | 3.41 | 21. | 2201 |
| Toluene | mg/l | 0.0479 | 0.0497 | 3.69 | 25. | 2201 |
| Ethylbenzene | mg/l | 0.0518 | 0.0538 | 3.79 | 25. | 2201 |
| Xylenes (Total) | mg/l | 0.0475 | 0.0494 | 3.92 | 24. | 2201 |

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number:
Project Name: **EXXONMOBIL 04-FGN**
Page: 2
Laboratory Receipt Date: 7/ 9/04

Matrix Spike Duplicate

| Analyte | units | Orig. Val. | Duplicate | RPD | Limit | Q.C. Batch |
|---------------------------|------------|------------|-----------|-----|-------|------------|
| BTEX/GRO Surr., a,a,a-TFT | % Recovery | | 174. | | | 2201 |
| VOA Surr 1,2-DCA-d4 | % Rec | | 93. | | | 3369 |
| VOA Surr 1,2-DCA-d4 | % Rec | | 94. | | | 4227 |
| VOA Surr Toluene-d8 | % Rec | | 105. | | | 3369 |
| VOA Surr Toluene-d8 | % Rec | | 102. | | | 4227 |
| VOA Surr, 4-BFB | % Rec | | 93. | | | 3369 |
| VOA Surr, 4-BFB | % Rec | | 87. | | | 4227 |
| VOA Surr, DBFM | % Rec | | 89. | | | 3369 |
| VOA Surr, DBFM | % Rec | | 91. | | | 4227 |

Laboratory Control Data

| Analyte | units | Known Val. | Analyzed Val | % Recovery | Target Range | Q.C. Batch |
|---------------------------|------------|------------|--------------|------------|--------------|------------|
| **UST PARAMETERS** | | | | | | |
| Benzene | mg/l | 0.100 | 0.107 | 107 | 76 - 118 | 2201 |
| Toluene | mg/l | 0.100 | 0.0987 | 99 | 72 - 119 | 2201 |
| Ethylbenzene | mg/l | 0.100 | 0.102 | 102 | 72 - 119 | 2201 |
| Xylenes (Total) | mg/l | 0.200 | 0.187 | 94 | 71 - 123 | 2201 |
| TPH (Gasoline Range) | mg/l | 1.00 | 1.01 | 101 | 72 - 122 | 2201 |
| BTEX/GRO Surr., a,a,a-TFT | % Recovery | | | 91 | 62 - 136 | 2201 |
| **VOA PARAMETERS** | | | | | | |
| Ethyl-t-butylether | mg/l | 0.0500 | 0.0530 | 106 | 72 - 127 | 3369 |
| Ethyl-t-butylether | mg/l | 0.0500 | 0.0548 | 110 | 72 - 127 | 4227 |
| tert-amyl methyl ether | mg/L | 0.0500 | 0.0461 | 92 | 61 - 129 | 3369 |
| tert-amyl methyl ether | mg/L | 0.0500 | 0.0474 | 95 | 61 - 129 | 4227 |
| Tertiary butyl alcohol | mg/l | 0.500 | 0.589 | 118 | 39 - 156 | 3369 |
| Tertiary butyl alcohol | mg/l | 0.500 | 0.579 | 116 | 39 - 156 | 4227 |

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number:
Project Name: **EXXONMOBIL 04-FGN**
Page: 3
Laboratory Receipt Date: **7/ 9/04**

Laboratory Control Data

| Analyte | units | Known Val. | Analyzed Val | % Recovery | Target Range | Q.C. Batch |
|----------------------|-------|------------|--------------|------------|--------------|------------|
| 1,2-Dibromoethane | mg/l | 0.0500 | 0.0581 | 116 | 78 - 133 | 3369 |
| 1,2-Dibromoethane | mg/l | 0.0500 | 0.0591 | 118 | 78 - 133 | 4227 |
| 1,2-Dichloroethane | mg/l | 0.0500 | 0.0526 | 105 | 72 - 133 | 3369 |
| 1,2-Dichloroethane | mg/l | 0.0500 | 0.0531 | 106 | 72 - 133 | 4227 |
| Methyl-t-butyl ether | mg/l | 0.0500 | 0.0529 | 106 | 70 - 130 | 3369 |
| Methyl-t-butyl ether | mg/l | 0.0500 | 0.0544 | 109 | 70 - 130 | 4227 |
| Diisopropyl ether | mg/l | 0.0500 | 0.0479 | 96 | 73 - 127 | 3369 |
| Diisopropyl ether | mg/l | 0.0500 | 0.0487 | 97 | 73 - 127 | 4227 |
| VOA Surr 1,2-DCA-d4 | % Rec | | | 92 | 71 - 128 | 3369 |
| VOA Surr 1,2-DCA-d4 | % Rec | | | 91 | 71 - 128 | 4227 |
| VOA Surr Toluene-d8 | % Rec | | | 103 | 77 - 119 | 3369 |
| VOA Surr Toluene-d8 | % Rec | | | 105 | 77 - 119 | 4227 |
| VOA Surr, 4-BFB | % Rec | | | 88 | 79 - 123 | 3369 |
| VOA Surr, 4-BFB | % Rec | | | 91 | 79 - 123 | 4227 |
| VOA Surr, DBFM | % Rec | | | 87 | 78 - 124 | 3369 |
| VOA Surr, DBFM | % Rec | | | 88 | 78 - 124 | 4227 |

Duplicates

| Analyte | units | Orig. Val. | Duplicate | RPD | Limit | Q.C. Batch | Sample Dup'd |
|---------|-------|------------|-----------|-----|-------|------------|--------------|
|---------|-------|------------|-----------|-----|-------|------------|--------------|

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number:
Project Name: **EXXONMOBIL 04-FGN**
Page: 4
Laboratory Receipt Date: **7/ 9/04**

Blank Data

| Analyte | Blank Value | Units | Q.C. Batch | Date Analyzed | Time Analyzed |
|---------------------------|-------------|------------|------------|---------------|---------------|
| **UST PARAMETERS** | | | | | |
| Benzene | < 0.00050 | mg/l | 2201 | 7/12/04 | 16:52 |
| Toluene | < 0.0005 | mg/l | 2201 | 7/12/04 | 16:52 |
| Ethylbenzene | < 0.0005 | mg/l | 2201 | 7/12/04 | 16:52 |
| Xylenes (Total) | 0.0007 | mg/l | 2201 | 7/12/04 | 16:52 |
| TPH (Gasoline Range) | < 0.0500 | mg/l | 2201 | 7/12/04 | 16:52 |
| BTEX/GRO Surr., a,a,a-TFT | 88. | % Recovery | 2201 | 7/12/04 | 16:52 |
| **VOA PARAMETERS** | | | | | |
| Ethyl-t-butylether | < 0.00015 | mg/l | 3369 | 7/11/04 | 23:12 |
| Ethyl-t-butylether | < 0.00015 | mg/l | 4227 | 7/12/04 | 11:55 |
| tert-amyl methyl ether | < 0.00030 | mg/L | 3369 | 7/11/04 | 23:12 |
| tert-amyl methyl ether | < 0.00030 | mg/L | 4227 | 7/12/04 | 11:55 |
| Tertiary butyl alcohol | < 0.00224 | mg/l | 3369 | 7/11/04 | 23:12 |
| Tertiary butyl alcohol | < 0.00224 | mg/l | 4227 | 7/12/04 | 11:55 |
| 1,2-Dibromoethane | < 0.00010 | mg/l | 3369 | 7/11/04 | 23:12 |
| 1,2-Dibromoethane | < 0.00010 | mg/l | 4227 | 7/12/04 | 11:55 |
| 1,2-Dichloroethane | < 0.00021 | mg/l | 3369 | 7/11/04 | 23:12 |
| 1,2-Dichloroethane | < 0.00021 | mg/l | 4227 | 7/12/04 | 11:55 |
| Methyl-t-butyl ether | < 0.00013 | mg/l | 3369 | 7/11/04 | 23:12 |
| Methyl-t-butyl ether | < 0.00013 | mg/l | 4227 | 7/12/04 | 11:55 |
| Diisopropyl ether | < 0.00010 | mg/l | 3369 | 7/11/04 | 23:12 |
| Diisopropyl ether | < 0.00010 | mg/l | 4227 | 7/12/04 | 11:55 |
| VOA Surr 1,2-DCA-d4 | 106. | % Rec | 3369 | 7/11/04 | 23:12 |
| VOA Surr 1,2-DCA-d4 | 105. | % Rec | 4227 | 7/12/04 | 11:55 |
| VOA Surr Toluene-d8 | 93. | % Rec | 3369 | 7/11/04 | 23:12 |
| VOA Surr Toluene-d8 | 95. | % Rec | 4227 | 7/12/04 | 11:55 |
| VOA Surr, 4-BFB | 108. | % Rec | 3369 | 7/11/04 | 23:12 |
| VOA Surr, 4-BFB | 105. | % Rec | 4227 | 7/12/04 | 11:55 |

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number:

Project Name: **EXXONMOBIL 04-FGN**

Page: 5

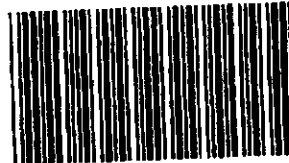
Laboratory Receipt Date: 7/ 9/04

Blank Data

| Analyte | Blank Value | Units | Q.C. Batch | Analysis Date | Analysis Time |
|----------------|-------------|-------|------------|---------------|---------------|
| VOA Surr, DEFM | 102. | # Rec | 3369 | 7/11/04 | 23:12 |
| VOA Surr, DEFM | 103. | # Rec | 4227 | 7/12/04 | 11:55 |

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 381812



381812

COOLER RECEIPT FORM

BC#

Client Name : ETIC Engineering

Cooler Received/Opened On: 7/09/04 Accessioned By: Shawn Gracey

[Signature]
Log-in Personnel Signature

1. Temperature of Cooler when triaged: 0.0 Degrees Celsius
2. Were custody seals on outside of cooler?..... YES...NO...NA
 - a. If yes, how many, what kind and where: 1, Frost
3. Were custody seals on containers and intact?..... NO...YES...NA
4. Were the seals intact, signed, and dated correctly?..... YES...NO...NA
5. Were custody papers inside cooler?..... YES...NO...NA
6. Were custody papers properly filled out (Ink, signed, etc)?..... YES...NO...NA
7. Did you sign the custody papers in the appropriate place?..... YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)?..... YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)?..... YES...NO...NA
12. Did all container labels and tags agree with custody papers?..... YES...NO...NA
13. Were correct containers used for the analysis requested?..... YES...NO...NA
14. a. Were VOA vials received?..... YES...NO...NA
 - b. Was there any observable head space present in any VOA vial?..... NO...YES...NA
15. Was sufficient amount of sample sent in each container?..... YES...NO...NA
16. Were correct preservatives used?..... YES...NO...NA

If not, record standard ID of preservative used here _____

17. Was residual chlorine present?..... NO...YES... NA

18. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:

1963

Fed-Ex UPS Velocity Airborne Route Off-street Misc.

19. If a Non-Conformance exists, see attached or comments below:

