ExxonMobil Environmental Services Company

4096 Piedmont Avenue #194 Oakland, California 94611 510 547 8196 Telephone 510 547 8706 Facsimile

RECEIVED

10:58 am, Sep 14, 2009

Alameda County Environmental Health Jennifer C. Sedlachek Project Manager



September 9, 2009

Ms. Barbara Jakub Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502

Subject: Former Mobil Station 04334, 2492 Castro Valley Boulevard, Castro Valley, California

Dear Ms. Jakub:

Attached for your review and comment is a copy of the *Report of Groundwater Monitoring, Third Quarter 2009* for the above-referenced site. The report, prepared by ETIC Engineering, Inc. of Pleasant Hill, California, details the results of the July 2009 sampling event.

Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached report is true and correct.

If you have any questions or comments, please contact me at 510.547.8196.

Sincerely,

Jennifer C. Sedlachek

Project Manager

Attachment: ETIC Groundwater Monitoring Report

c: w/ attachment:

Ms. Paula Floeck - Jiffy Lube International

Mr. Joseph D. Phillips - Jiffy Lube Remediation Coordinator

Mr. William Slautterback - Cal Lube Real Estate Limited Partnership

Mr. William Peterson – Owner of Castro Valley Lumber Company

c: w/o attachment:

Mr. Bryan Campbell - ETIC Engineering, Inc.



Report of Groundwater Monitoring Third Quarter 2009

Former Mobil Station 04334 2492 Castro Valley Boulevard Castro Valley, California

Prepared for

ExxonMobil Oil Corporation

Prepared by

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

K. Erik Appel, J.G. #8092

Senior Project Geologist

Septenber 9,3

APPEL

SITE CONTACTS

Site Name:

Former Mobil Station 04334

Site Address:

2492 Castro Valley Boulevard

Castro Valley, California

ExxonMobil Project Manager:

Jennifer C. Sedlachek

ExxonMobil Environmental Services Company

4096 Piedmont Avenue #194 Oakland, California 94611

(510) 547-8196

Consultant to ExxonMobil:

ETIC Engineering, Inc.

2285 Morello Avenue

Pleasant Hill, California 94523

(925) 602-4710

ETIC Project Manager:

K. Erik Appel

Regulatory Oversight:

Barbara Jakub

Alameda County Health Care Services Agency

1131 Harbor Bay Parkway, Suite 250

Alameda, California 94502

(510) 567-6700

INTRODUCTION

ETIC Engineering, Inc. (ETIC) has prepared this quarterly groundwater monitoring report for ExxonMobil Environmental Services Company on behalf of ExxonMobil Oil Corporation for the former Mobil Station 04334. 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 April 2009, the date of the previous monitoring event, to 21 July 2009, the date of the most 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 04334

Site address:

2492 Castro Valley Boulevard, Castro Valley, California

Current property owner:

Cal Lube Real Estate Limited Partnership

Current site use:

Jiffy Lube Oil Change facility

Current phase of project:

Groundwater monitoring

Tanks at site:

Four former underground storage tanks removed 1983

Number of wells:

5 (3 onsite, 2 offsite)

GROUNDWATER MONITORING SUMMARY

Gauging and sampling date:

21 July 2009

Wells gauged and sampled:

MW1-MW5

Wells gauged only:

None

Groundwater flow direction:

Northeast

Groundwater gradient:

0.022

Well screens submerged:

None

Well screens not submerged:

MW1, MW2, MW3, MW4, MW5

Liquid-phase hydrocarbons:

Not observed or detected

Laboratory:

Calscience Environmental Laboratories, Inc., Garden Grove,

California

Analyses performed:

- Total Petroleum Hydrocarbons as gasoline and as diesel by EPA Method 8015B (M)
- Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8021B
- Methyl tertiary butyl ether by EPA Method 8260B
- Ethyl tertiary butyl ether, tertiary amyl methyl ether, tertiary butyl alcohol, 1,2-dibromoethane, 1,2-dichloroethane, diisopropyl ether, and ethanol by EPA Method 8260B

ADDITIONAL ACTIVITIES PERFORMED

None.

WORK PROPOSED FOR NEXT QUARTER

The Alameda County Health Care Services Agency sent a letter dated 24 July 2009 recommending reducing groundwater monitoring from quarterly to semi-annually. Semi-annual groundwater monitoring will be conducted in the second and fourth quarters per the attached groundwater monitoring plan.

Attachments:

Figure 1: Site Map Showing Groundwater Elevations and Contours

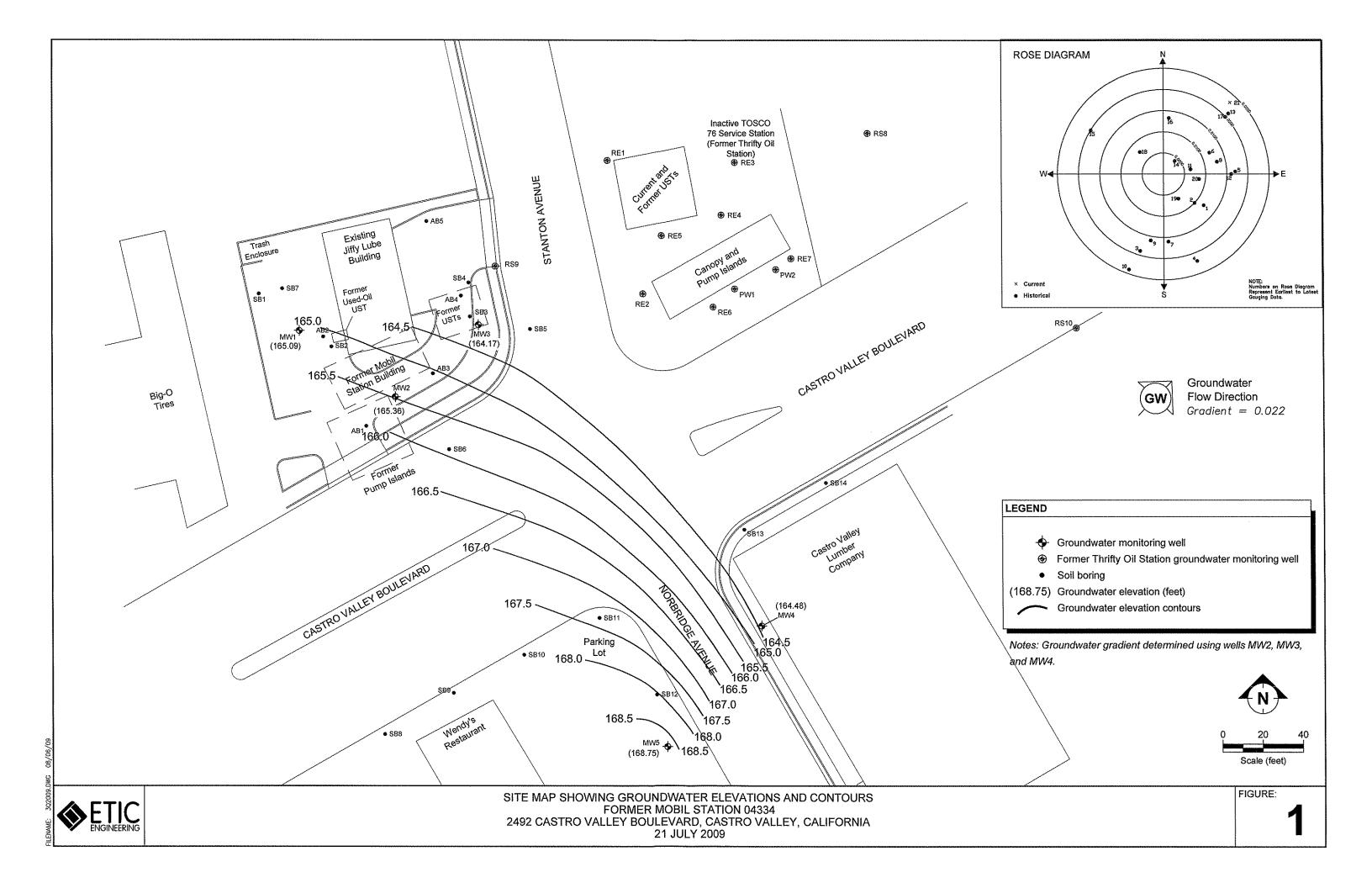
Figure 2: Site Map Showing Groundwater Analytical Results

Table 1: Well Construction DetailsTable 2: Groundwater Monitoring DataTable 3: Groundwater Monitoring Plan

Appendix A: Field Protocols Appendix B: Field Documents

Appendix C: Laboratory Analytical Reports and Chain-of-Custody Documentation





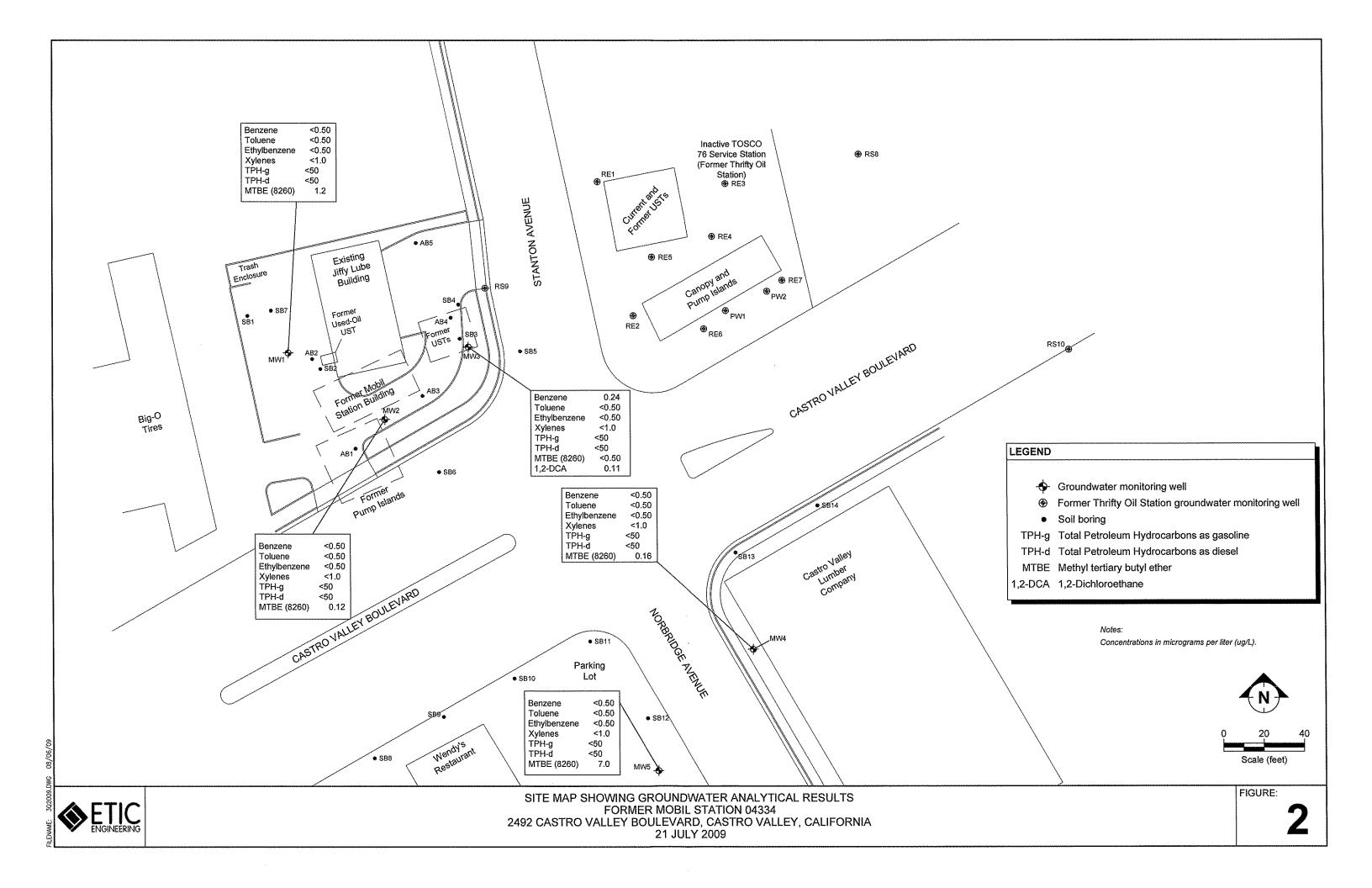




TABLE 1 WELL CONSTRUCTION DETAILS, FORMER MOBIL STATION 04334, 2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

| 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 |
|-------------|---|------------------------------|----------------------------|--------------------|--------------------------|-------------------------|----------------------------------|--------------------------|--------------------------------|-----------------------|-----------------------------------|----------------------|
| MW1 | a | 06/24/04 | 173.23 | PVC | 20 | 20 | 8.25 | 2 | 5 - 20 | 0.010 | 4.5 - 20 | #2/12 Sand |
| MW2 | a | 06/25/04 | 173.63 | PVC | 20 | 20 | 8.25 | 2 | 5 - 20 | 0.010 | 4.5 - 20 | #2/12 Sand |
| MW3 | a | 06/25/04 | 171.91 | PVC | 20 | 20 | 8.25 | 2 | 5 - 20 | 0.010 | 4.5 - 20 | #2/12 Sand |
| MW4 | a | 06/24/04 | 170.48 | PVC | 15 | 14 | 8.25 | 2 | 4 - 14 | 0.010 | 3.5 - 15 | #2/12 Sand |
| MW5 | b | 01/30/09 | 173.80 | PVC | 15 | 15 | 8.25 | 2 | 5 - 15 | 0.010 | 4.0 - 15 | #2/12 Sand |

Notes:

a Well surveyed on 12 July 2004 by Morrow Surveying.

b Well surveyed on 10 February 2009 by Morrow Surveying.

PVC Polyvinyl chloride.

TOC Top of casing.

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04334, 2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

| | | | | | | | | | Concentrat | ion (μg/L) | | | | |
|------------|------|--------------------|--------------------------------------|-----------------------------|------------------------------------|---------|---------------------|-------------------|---------------------|------------|-------|---------------------------|-------------------------------------|--|
| Well ID | | Date | Top of Casing Elevation (feet) | Depth to Water (feet) | Groundwater Elevation (feet) | Benzene | Toluene | Ethyl- benzene | Total Xylenes | ТРН-g | TPH-d | MTBE | Other Oxygenates and Additives | |
| 3.43371 | - 01 | 0/10/04 | 172.22 | <i>7</i> .22 | 165.01 | <0.5 | 0.7 | <0.5 | 1.0 | <50 | 71 | 1.20 b | | |
| MW1 MW1 | | 8/13/04 1/09/04 | 173.23 | 7.32 6.96 | 165.91 166.27 | <0.5 | 0.7 | <0.5 <0.5 | 0.9 | <50 <50 | 63 | 1.50 ^b | | |
| MW1 | | 1/09/04 2/16/05 | 173.23 173.23 | 6.10 | 167.13 | <0.5 | 1.0 | <0.5 | 1.5 | <50 | 78 | 1.30 b | | |
| | | | | | | | | | | | | 1.40 ^b | | |
| MW1 | | 5/16/05 | 173.23 | 5.81 | 167.42 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <50 | 1.40 1.19 ^b | | |
| MW1 | | 8/17/05 | 173.23 | 6.70 | 166.53 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <50 | 1.13 | | |
| MW1 | | 1/15/05 | 173.23 | 7.55 | 165.68 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <50 | <0.5 ^b | | |
| MW1 | | 2/06/06 | 173.23 | 6.40 | 166.83 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | 160 | <0.50 ^b | | |
| MW1 | | 5/03/06 | 173.23 | 6.95 | 166.28 | <1.00 | <1.00 | <1.00 | <3.00 | <50.0 | 78 | <0.500 ^b | | |
| MWI | | 8/04/06 | 173.23 | 7.71 | 165.52 | <0.50 | <0.50 | <0.50 | <0.50 | <50.0 | 167 | | | |
| MWI | | 1/06/06 | 173.23 | 7.57 | 165.66 | < 0.50 | <0.50 | <0.50 | < 0.50 | <50.0 | <47.2 | 0.880 b | | |
| MW1 | | 2/21/07 | 173.23 | 7.19 | 166.04 | <0.50 | < 0.50 | < 0.50 | < 0.50 | <50.0 | <46.9 | 2.42 ^b | | |
| MW1 | | 8/01/07 | 173.23 | 8.00 | 165.23 | 3.02 | 4.18 | 0.89 | 3.96 | 90.8 | <47 | 1.54 ^b | | |
| MW1 | | 0/25/07 | 173.23 | 7.90 | 165.33 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | <50.0 | <47.2 | 1.63 ^b | | |
| MWI | | 1/31/08 | 173.23 | 6.60 | 166.63 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | <50 | <50 | 1.8 ^b | | |
| MW1 | | 5/01/08 | 173.23 | 7.80 | 165.43 | <1.00 | <1.00 | <1.00 | <3.00 | <50.0 | <47.2 | 1.67 ^b | | |
| MW1 | 0 | 7/31/08 | 173.23 | 8.15 | 165.08 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | <50 | <47 | 1.7 ^b | | |
| MW1 | 1 | 1/07/08 | 173.23 | 8.11 | 165.12 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | <50 | <47 | 1.4 ^b | | |
| MW1 | 0 | 1/29/09 | 173.23 | 7.75 | 165.48 | < 0.50 | 0.21 ^{e,f} | < 0.50 | 0.30 ^{e,f} | . <50 | <50 | 1.6 ^b | | |
| MW1 | 04 | 4/15/09 | 173.23 | 7.55 | 165.68 | < 0.50 | < 0.50 | < 0.50 | <1.0 | <50 | <50 | 1.6 ^b | 19 ^g , 22 ^{h,e} | |
| MW1 | 0 | 7/21/09 | 173.23 | 8.14 | 165.09 | <0.50 | < 0.50 | <0.50 | <1.0 | <50 | <50 | 1.2 ^b | ND | |
| MW2 | a 08 | 8/13/04 | 173.63 | 6.96 | 166.67 | <0.5 | 0.8 | <0.5 | 1.0 | <50 | 57 | <0.5 b | AV 48 | |
| MW2 | 1 | 1/09/04 | 173.63 | 6.44 | 167.19 | < 0.5 | 1.1 | < 0.5 | 1.2 | <50 | <50 | <0.5 b | ** | |
| MW2 | 02 | 2/16/05 | 173.63 | 5.21 | 168.42 | < 0.5 | 0.9 | < 0.5 | 1.4 | <50 | 55 | <0.5 b | | |
| MW2 | 0: | 5/16/05 | 173.63 | 5.86 | 167.77 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | <50 | <50 | <0.5 ^b | | |
| MW2 | | 8/17/05 | 173.63 | 5.72 | 167.91 | < 0.5 | < 0.5 | <0.5 | < 0.5 | <50 | <50 | <0.5 b | | |
| MW2 | | 1/15/05 | 173.63 | 7.65 | 165.98 | <0.5 | < 0.5 | <0.5 | <0.5 | <50 | <50 | <0.5 ^b | ** | |
| MW2 | | 2/06/06 | 173.63 | 6.24 | 167.39 | <0.5 | <0.5 | < 0.5 | < 0.5 | <50 | <50 | <0.5 b | | |
| MW2 | | 5/03/06 | 173.63 | 6.53 | 167.10 | <1.00 | <1.00 | <1.00 | <3.00 | <50.0 | <50 | <0.50 ^b | | |

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04334, 2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

| MTBE <0.500 ^b <0.500 ^b 1.70 ^b <0.50 ^b | Other Oxygenates and Additives |
|---|--|
| <0.500 ^b 1.70 ^b | |
| 1.70 ^b | |
| | |
| <0.50 ^b | |
| | *** |
| <0.500 ^b | |
| <0.500 ^b | ** |
| 0.82^{b} | *** |
| <0.500 ^b | |
| <0.50 ^b | 44-99 |
| < 0.50 ^b | |
| <0.50 ^b | |
| $0.50^{\rm b,c}$ | 6.5 ^{g,e} |
| 0.12 ^{b,e} | ND |
| <0.5 b | |
| <0.5 ^b | |
| <0.5 ^b | *** |
| <0.5 ^b | |
| | *** |
| | |
| <0.5 b | *** |
| <0.50 ^b | ~" |
| <0.500 b | |
| <0.500 ^b | ** |
| <0.500 ^b | |
| <0.50 b | *** |
| <0.500 ^b | |
| <0.500 ^b | |
| < 0.50 ^b | |
| | <0.5 b <0.5 b <0.5 b <0.50 b <0.500 b |

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04334, 2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

| | | | | | | Concentration (µg/L) | | | | | | | |
|---------|---|----------|--------------------------------------|-----------------------------|------------------------------------|----------------------|---------------------|-------------------|---------------------|-------|-------|----------------------|--------------------------------|
| Well ID | | Date | Top of Casing Elevation (feet) | Depth to Water (feet) | Groundwater Elevation (feet) | Benzene | Toluene | Ethyl- benzene | Total Xylenes | ТРН-g | TPH-d | MTBE | Other Oxygenates and Additives |
| MW3 | | 05/01/08 | 171.91 | 6.60 | 165.31 | 2.38 | <1.00 | <1.00 | <3.00 | <50.0 | <47.2 | <0.500 ^b | |
| MW3 | | 07/31/08 | 171.91 | 7.77 | 164.14 | < 0.50 | < 0.50 | < 0.50 | <0.50 | <50 | <47 | <0.50 ^b | |
| MW3 | | 11/07/08 | 171.91 | 6.34 | 165.57 | 3.6 | < 0.50 | 1.4 | < 0.50 | <50 | <47 | <0.50 ^b | |
| MW3 | | 01/29/09 | 171.91 | 5.86 | 166.05 | 13 | 0.33 ^e | 13 | 0.52 ^{e,f} | 92 | <50 | <0.50 ^b | |
| MW3 | | 04/15/09 | 171.91 | 6.14 | 165.77 | 2.2 | < 0.50 | 3.2 | <1.0 | 51 | <50 | <0.50 ^b | 3.7 ^{g,e} |
| MW3 | | 07/21/09 | 171.91 | 7.74 | 164.17 | 0.24 ^e | <0.50 | <0.50 | <1.0 | <50 | <50 | <0.50 ^b | 0.11 ^{j,e} |
| MW4 | a | 08/13/04 | 170.48 | 6.10 | 164.38 | <0.5 | 0.8 | <0.5 | 1.1 | <50 | 72 | 2.80 ^b | |
| MW4 | | 11/09/04 | 170.48 | 5.54 | 164.94 | < 0.5 | 2.3 | 0.7 | 1.5 | <50 | < 50 | 2.10 b | |
| MW4 | | 02/16/05 | 170.48 | 5.11 | 165.37 | < 0.5 | 1.1 | < 0.5 | 1.7 | <50 | <50 | <0.5 b | |
| MW4 | | 05/16/05 | 170.48 | 5.44 | 165.04 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | <50 | <50 | <0.5 ^b | |
| MW4 | | 08/17/05 | 170.48 | 5.71 | 164.77 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | <50 | <50 | 1.03 ^b | |
| MW4 | | 11/15/05 | 170.48 | 5.80 | 164.68 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | <50 | <50 | 0.730 ^b | |
| MW4 | | 02/06/06 | 170.48 | 5.10 | 165.38 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | <50 | 85.2 | <0.5 b | |
| MW4 | | 05/03/06 | 170.48 | 5.54 | 164.94 | <1.00 | <1.00 | <1.00 | <3.00 | <50.0 | <47 | <0.50 b | |
| MW4 | | 08/04/06 | 170.48 | 5.75 | 164.73 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | <50.0 | 52.7 | <0.500 ^b | |
| MW4 | | 11/06/06 | 170.48 | 5.95 | 164.53 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | <50.0 | <47.2 | <0.500 b | |
| MW4 | | 02/21/07 | 170.48 | 5.56 | 164.92 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | <50.0 | <46.9 | <0.500 ^b | ** |
| MW4 | | 05/01/07 | 170.48 | 5.66 | 164.82 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | <50.0 | <46.9 | <0.50 b | *** |
| MW4 | | 08/01/07 | 170.48 | 6.06 | 164.42 | 0.85 | < 0.50 | < 0.50 | 0.97 | <50.0 | <47 | <0.870 ^b | |
| MW4 | | 10/25/07 | 170.48 | 5.34 | 165.14 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | <50.0 | <47.2 | < 0.500 ^b | *** |
| MW4 | | 01/31/08 | 170.48 | 5.05 | 165.43 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | <50 | <47 | < 0.50 ^b | |
| MW4 | | 05/01/08 | 170.48 | 5.86 | 164.62 | <1.00 | <1.00 | <1.00 | <3.00 | <50.0 | <47.2 | <0.500 ^b | |
| MW4 | | 07/31/08 | 170.48 | 6.10 | 164.38 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | <47 | <0.50 ^b | |
| MW4 | | 11/07/08 | 170.48 | 5.65 | 164.83 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 50 | <47 | <0.50 ^b | |
| MW4 | | 01/29/09 | 170.48 | 5.80 | 164.68 | < 0.50 | 0.19 ^{e,f} | < 0.50 | <1.0 | <50 | <50 | <0.50 ^b | |
| MW4 | | 04/15/09 | 170.48 | 5.90 | 164.58 | < 0.50 | < 0.50 | < 0.50 | <1.0 | <50 | <50 | 0.15 ^{b,e} | ND |
| MW4 | | 07/21/09 | 170.48 | 6.00 | 164.48 | <0.50 | <0.50 | <0.50 | <1.0 | <50 | <50 | 0.16 ^{b,c} | ND |
| MW5 | i | 03/04/09 | 173.80 | 4.70 | 169.10 | <0.50 | <0.50 | < 0.50 | <1.0 | 150 | | 10 ° | ND |

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04334, 2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

| | | | | | Concentration (μg/L) | | | | | | | | |
|-------------------|-----------------------------|--------------------------------------|-----------------------------|------------------------------------|------------------------|------------------------|------------------------|------------------|--------------------|--------------------|--------------|---|--|
| Well ID | Date | Top of Casing Elevation (feet) | Depth to Water (feet) | Groundwater Elevation (feet) | Benzene | Toluene | Ethyl- benzene | Total Xylenes | ТРН-g | TPH-d | МТВЕ | Other Oxygenates and Additives | |
| MW5 MW5 | 04/15/09 07/21/09 | 173.80 173.80 | 5.17 5 .05 | 168.63 168.75 | <0.50 < 0.50 | <0.50 < 0.50 | <0.50 < 0.50 | <1.0 <1.0 | <50 < 50 | <50 < 50 | 9.3° 7.0° | 24 ^{n,e} ND | |

Depth-to-water-level measurements in feet from top-of-casing. Notes:

Other Oxygenates and Additives include ethyl tertiary butyl ether, tertiary amyl methyl ether, tertiary butyl alcohol, 1,2-dibromoethane, 1,2-dichloroethane, disopropyl ether, and ethanol which are individually identified only if detected above the laboratory reporting limit. Analyzed by EPA Method 8260B.

- Top-of-casing elevation surveyed by Morrow Surveying on 12 July 2004. a
- Analyzed by EPA Method 8260 or 8260B. Ь
- Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to holding time requirements. С
- Does not match typical pattern. d
- Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated. е
- f Analyte presence was not confirmed by second column or GC/MS analysis.
- Tertiary butyl alcohol. g
- Ethanol. h
- Top-of-casing elevation surveyed by Morrow Surveying on 10 February 2009.
- 1,2-Dichloroethane.

MTBE Methyl tertiary butyl ether.

TPH-d Total Petroleum Hydrocarbons as diesel. Total Petroleum Hydrocarbons as gasoline. TPH-g

Not detected at or above laboratory reporting limits. ND

μg/L Micrograms per liter.

Not sampled or not analyzed.

TABLE 3 GROUNDWATER MONITORING PLAN, FORMER MOBIL STATION 04334, 2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

| Well | Groundwater Gauging | Groundwater Sampling and Analysis Frequency | | | | | | |
|--------|---------------------------------|---|---|--|--|--|--|--|
| Number | Frequency | BTEX, TPH-g, and TPH-d | MTBE | | | | | |
| MW1 | SA | SA | SA | | | | | |
| MW2 | SA | SA | SA | | | | | |
| MW3 | SA | SA | SA | | | | | |
| MW4 | SA | SA | SA | | | | | |
| MW5 | SA | SA | SA | | | | | |
| Notes: | | | *************************************** | | | | | |
| BTEX | Benzene, toluene, ethylbenzene, | and xylenes. | | | | | | |
| MTBE | Methyl tertiary butyl ether. | | | | | | | |
| SA | Semi-annually (During the secon | nd and fourth quarters of each year). | | | | | | |
| TPH-d | Total Petroleum Hydrocarbons a | as diesel. | | | | | | |
| TPH-g | Total Petroleum Hydrocarbons a | s gasoline. | | | | | | |

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



MONITORING WELL DATA FORM

| Client: Former Ex | xon 04334 | Date: 07-21-09 | |
|--------------------|-------------------------------|-----------------------|--|
| Project Number: UI | P04334.1.6 | Station Number: 04334 | |
| Site Location: | 2492 Castro Valley Boulevard, | Samplers: #4-5% | |
| | Castro Valley, California | | |

| | Castro Valley, California | | | | | | | | | | | |
|------------------------------|-------------------------------|---------------------------------|---|------------------------------------|---------------------------------|-----------------------------|----------------------------|--|--|--|--|--|
| MONITORING WELL NUMBER | DEPTH TO WATER (TOC)FT. | DEPTH TO PRODUCT (TOC)FT. | APPARENT PRODUCT THICKNESS (FT.) | AMOUNT OF PRODUCT REMOVED(L) | MONITORING WELL INTEGRITY | DEPTH TO BOTTOM (TOC) | WELL CASING DIAMETER | | | | | |
| MW1 | 8-14 | | | | | 19.78 | 2" | | | | | |
| MW2 | 8-27 | | | | | 20·i8 | 2" | | | | | |
| MW3 | 7.74 | | | | | 19.90 | 2" | | | | | |
| MW4 | 6.00 | | | | | 14.18 | 2" | | | | | |
| MW5 | 5.15 | | | | | /S.15 | 2" | | | | | |
| | | | | | | | | | | | | |
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GROUNDWATER PURGE AND SAMPLE FORM

| Engineering, Inc. | | | | | | | | | |
|---|----------------------|------------------|------------------|---|--|---|-------------------|--|--|
| Project Name: | Exxon 04334 | | 1 | Well No: | <u>Mwi</u> | Date: | 07-21-09 | | |
| Project No: | UP04-334.1.6 | | | Personnel | : ALA | × | | | |
| GAUGING DATA | A | | | | | | | | |
| Water Level Mea | asuring Method: | WLM / IP | | Measuring | Point De | scription: TOC | | | |
| WELL PURGE | Total Depth | Depth to Water | Water Column | Multipli | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Casing Volume | Total Purge | | |
| VOLUME | (feet) | (feet) | (feet) | Casing D | iameter | (gal) | Volume (gal) | | |
| CALCULATION | 19.78 | 8.14 | 11.64 | 01 (2) | 4 6 | 1.86 | S.58 | | |
| | | | <u> </u> | 0.04 0.16 | 0.64 1.44 | | | | |
| PURGING DAT | | | | | _ | | 004 | | |
| Purge Method: | WATERRA / BAI | LER / SUB | | | Purg | e Rate: | GPM I | | |
| Time | 672S | e 727 | 07-29 | | | | | | |
| Volume Purge (gal) | 2 | 4 | 6 | | | | | | |
| Temperature (C) | 19.5 | 24 | 20.1 | ···· | | | | | |
| pH | 6.88 | 7.16 | 7.29 | | | | | | |
| Spec.Cond.(umhos | 930 | 938 | 936 | | | | | | |
| Turbidity/Color | 2140 / Men | SIAD /ARN | EILTY BRN | | | | | | |
| Odor (Y/N) | N | N | N | | | | | | |
| Casing Volumes | 1 | 2 | 3 | | | | | | |
| Dewatered (Y/N) | ~ | Ν | N | | | | | | |
| Comments/Obse | rvations: | | | | | | | | |
| | | | | | | | | | |
| SAMPLING DA | TA | 9 (4.500) | | | | | | | |
| Time Sampled: | 1TA 673 | G | Approximate Dept | h to Water I | During Sar | mpling: 9.0 | (feet) | | |
| Comments: | | | | | | | | | |
| | | | | estature estatuarios | (11) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | |
| Sample Number | Number of Containers | Container Type | Preservative | Volume (mL | - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 | Turbidity/ Color | Analysis Method | | |
| Mwi | 6 | Voa | HCL | STREET, | ml | The second control of | TPH-g, BTEX, MTBE | | |
| MWI | 2 | AMBERS | HCL | 1 | L | | TPH-D | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Total Purge Volume: (gallons) Disposal: SYSTEM | | | | | | | | | |
| Weather Condi | | | | | | BOLTS (| 3 / N | | |
| | ell Box and Casing | g at Time of Sam | oling: 🚜 | | | CAP & LOCK | ∅ / N | | |
| | ditions Requiring | | near | | | GROUT (| Y) / N | | |
| Problems Encountered During Purging and Sampling: WELL BOX. () N | | | | | | | | | |

SECURED

Comments:

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Comments:

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GROUNDWATER PURGE AND SAMPLE FORM

Engineering, Inc MW2 Date: 67 -21 -9 Well No: Exxon 04334 Project Name: ALX Personnel: UP04-334.1.6 Project No: **GAUGING DATA** Measuring Point Description: TOC IP 1 Water Level Measuring Method: Total Purge Water Column Multiplier for Casing Volume Total Depth Depth to Water **WELL PURGE** Volume (gal) (feet) Casing Diameter (gal) (feet) (feet) VOLUME CALCULATION 8-27 5.71 190 20.18 11.91 0.04 0.16 0.64 **PURGING DATA** GPM Purge Method: WATERRA / BAILER / SUB Purge Rate: d 75 / 6753 e755 4 Ġ Volume Purge (gal) 100 19.7 Temperature (C) 17.2 19.6 6.84 7.14 7.21 pΗ 803 792 768 Spec:Cond.(umhos) eneme pass curre from prine Turbidity/Color N Odor (Y/N) N Casing Volumes 3 1 N N Dewatered (Y/N) Comments/Observations: **SAMPLING DATA** 6805 90 (feet) Approximate Depth to Water During Sampling: Time Sampled: Comments: Volume Filled Analysis⊚ Number of Turbidity/ Color Sample Number Container Type Preservative Method (mL or L) Containers MW Z Voa **HCL** 40 ml TPH-g, BTEX, MTBE 6 HCL MWZ **AMBERS** 1L TPH-D 2 Total Purge Volume: 6 (gallons) Disposal: SYSTEM (V) BOLTS Ν Weather Conditions: ac CAP & LOCK Ν Condition of Well Box and Casing at Time of Sampling: GROUT Ν Well Head Conditions Requiring Correction: NONE WELL BOX. Ν Problems Encountered During Purging and Sampling: Ν **SECURED**



GROUNDWATER PURGE AND SAMPLE FORM

| Project Name: | Exxon 04334 | | | Well No: | MW3 | Date: | 67-21-0 | 7 |
|-------------------------------------|--|--|--|----------------------------------|--------------------------|-------------------------|----------------------|---------------|
| Project No: | UP04-334.1.6 | | | Personnel: | pres | | | |
| GAUGING DAT | Ά | | | | | | | |
| | asuring Method: | WLM) / IP | | Measuring Point Description: TOC | | | | |
| WELL PURGE VOLUME | Total Depth (feet) | Depth to Water (feet) | Water Column (feet) | Multiplier l Casing Dian | | sing Volume (gal) | Total Pu Volume (| |
| CALCULATION | 19.90 | 7.74 | j2.16 (s | 1 2 4 0.04 0.16 0.64 | 6 1.44 | 1. 94 |) 5·8 | ` & |
| PURGING DAT | Ά | | | | ··········· | | | |
| Purge Method: | WAZERRA BAI | LER / SUB | | | Purge R | ate: | GPM | |
| Time | 6820 | 0822 | 08 24 | | | | | |
| Volume Purge (gal) | 2 | 4 | 6 | | | | | |
| Temperature (C) | 18-7 | 19-3 | 19.3 | | | | | |
| pH | 6-79 | 6.82 | 6.89 | | | | | |
| Spec Cond (umhos | 963 | 977 | 981 | | | | | |
| Turbidity/Color. | SIGT / FREN | SIETY /THEN | SHOPS/FREN | | | | | |
| Odor (Y/N) | N | N | ~ | | | | | |
| Casing Volumes | 1 | 2 | 3 | | | | | |
| Dewatered (Y/N) | N | N | N | | | | | |
| Comments/Obse | ervations: | | | Manage | | | | |
| | | | : | dennes | | ···· | | |
| CAMEDI DIO DA | TA | | | | | | | |
| SAMPLING DA Time Sampled: | ''A 435 |) | Approximate Dept | th to Water Duri | ing Samplir | ng: | (feet) | |
| Comments: | | | | | , | | | |
| THE CONTRACTOR STREET | no I reconstruction de la construction de la constr | ###################################### | Control of the Contro | | | ges and a second second | gwgarriwa auran | APASINSSI |
| Sample Number | Number of Containers | Container Type | Preservative | Volume Fi (mL or I | 2017/2017/2015 2017/2017 | irbidity/ Color | Analy: Metho | |
| MWZ | 6 | Voa | HCL | 40 ml | | | TPH-g, BTEX, | MTBE |
| MALB | 2 | AMBERS | HCL | 1L | | | TPH- | ·D |
| | | | | | | | | |
| | | | | | | | | . |
| Total Purge Vo | | (gallons) | | Disposal: | | SYSTEM | | |
| Weather Cond | itions: 🕳 | | | | | DLTS | S/N | |
| Condition of W | ell Box and Casing | g at Time of Samp | oling: ek | | ····· | AP & LOCK | Y)/ N | |
| | nditions Requiring | | AUMIE | | | ROUT (| Ω / N | |
| | ountered During Pu | urging and Sampl | ing: /vave | | | ELL BOX. | \bigcirc / N | |
| Comments: G:\Projects\ExxonMobil\Si | tes\10GC8\Public\QM Pre-Field F | older\10GC8 Scope of Work.x | is]Sheet1 | | SE | CURED (| Y) / N | F |

ETICENGINEERING

GROUNDWATER PURGE AND SAMPLE FORM

| Project Name: | Exxon 04334 | | | Well No: | nwy | Date: | 9-21- | e9 |
|---------------------------------------|--------------------------------|------------------------------|---|--|---|------------------------|---|-------------------|
| Project No: | UP04-334.1.6 | | | Personnel: | ALO | K. | | , |
| GAUGING DATA Water Level Mea | A asuring Method: (| WLM / IP | | Measuring P | oint Des | scription: TOC | | |
| WELL PURGE VOLUME | Total Depth (feet) | Depth to Water (feet) | Water Column (feet) | Multiplier Casing Diar | | Casing Volume (gal) | | Purge ne (gal) |
| CALCULATION | 14.i8 C | 6.00 | 8.18 | 1 2 4 0.04 0.16 0.6 | +1 | /.ತಾ (| \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 92 |
| PURGING DATA Purge Method: | A WATERRA/BAII | EB / SUB | *************************************** | | Purge | e Rate: | GPM | |
| Time | 6155 | 1001 | 1007 | | | | | |
| Volume Purge (gal) | 1.5 | رح. | 4.5 | | | | | |
| Temperature (C) | 18.9 | 19-2 | 18-19 | | - | | | |
| рН | 7-24 | 7-39 | 7.42 | | | | | |
| Spec.Cond.(umhos) | 913 | 918 | 922 | | | | | |
| Turbidity/Color | SMED / PARN | SIMY /BOW | < 143 /P/EV | | | | | |
| Odor (Y/N) | ~ | W | N | | | | | |
| Casing Volumes | 1 | 2 | 3 | | | | | |
| Dewatered (Y/N) | N | N | ~ | | | | | |
| Comments/Obse | rvations: | | | | | | | |
| | | | | | | | | |
| SAMPLING DA | TA | | | | | | | |
| Time Sampled: | | 1020 | Approximate Dept | h to Water Dur | ing Sam | してわ pling: | (feet) | |
| Comments: | | | minimum | | | | | |
| Sample Number | Number of Containers | Container Type | Preservative | Volume F (mL or | Contraction and the last | Turbidity/ Color | at the state of the state of the state of | alysis ethod |
| mind | 6 | Voa | HCL | 40 ml | | | TPH-g, B1 | TEX, MTBE |
| mwd | 2 | AMBERS | HCL | 1L | | | TF | PH-D |
| | | | | | | | | |
| | <u> </u> | | | | | | <u>L</u> | |
| Total Purge Vo | | (gallons) | | Disposal: | | SYSTEM | 7 | |
| Weather Condi | | | | ······································ | | BOLTS (| <u> </u> | N |
| · · · · · · · · · · · · · · · · · · · | ell Box and Casing | | | | | CAP & LOCK | <u>(D) /</u> | N |
| | ditions Requiring (| | mm more | | *************************************** | GROUT | 爱 / | N |
| | untered During Pu | rging and Sampl | ing: ''V''' | · · · · · · · · · · · · · · · · · · · | | WELL BOX. SECURED | *- | N N |
| Comments: G:\Projects\ExxonMobil\Site | es\10GC8\Public\QM Pre-Field F | older\[10GC8 Scope of Work.x | is]Sheet I | | | SECURED | $\overset{\smile}{\smile}$ | IA |



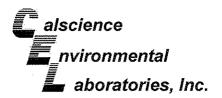
GROUNDWATER PURGE AND SAMPLE FORM

MWS Date: 17-24-9 Well No: Project Name: Exxon 04334 AX Personnel: UP04-334.1.6 Project No: **GAUGING DATA** ΙP Measuring Point Description: TOC Water Level Measuring Method: Multiplier for Casing Volume Depth to Water Water Column Total Purge Total Depth **WELL PURGE** Casing Diameter Volume (gal) (feet) (feet) (gal) (feet) VOLUME CALCULATION 2 6 4-84 5.05 10.1 1.61 15.15 0.04 0.16 0.64 **PURGING DATA** Purge Method: WATERRAY BAILER / SUB Purge Rate: **GPM** 0905 07/02 0908 Time 2 6 Volume Purge (gal) éf 21.8 22.0 Temperature (C) 20.7 7.39 7.18 7.26 pΗ 1067 1103 110 (co Spec.Cond.(umhos) SUTY/PPN SILTY PERN Turbidity/Color BAN Odor (Y/N) N N N Casing Volumes 3 1 N N Dewatered (Y/N) Comments/Observations: **SAMPLING DATA** 6.0 0915 (feet) Approximate Depth to Water During Sampling: Time Sampled: Comments: Volume Filled Analysis. Number of Turbidity/ Color Container Type Preservative Sample Number Method: Containers (mL or L) MW5 HCL Voa 40 ml TPH-g, BTEX, MTBE 6 14 645 HCL 2 **AMBERS** 1L TPH-D Ø SYSTEM Disposal: Total Purge Volume: (gallons) K BOLTS Ν Weather Conditions: a CAP & LOCK Ν Condition of Well Box and Casing at Time of Sampling: NONE GROUT Ν Well Head Conditions Requiring Correction: NONE WELL BOX. Problems Encountered During Purging and Sampling: Ν SECURED Ν Comments:

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Appendix C

Laboratory Analytical Reports and Chain-of-Custody Documentation





July 29, 2009

Erik Appel ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850

Subject: Calscience Work Order No.: 09-07-1856

Client Reference:

ExxonMobil 04334 / 2492 Castro Valley, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 7/23/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Cecile & ex Soin

Calscience Environmental Laboratories, Inc. Cecile deGuia **Project Manager**





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850

Surrogates:

Date Received: Work Order No: Preparation: Method:

Qual

07/23/09 09-07-1856 EPA 3510C EPA 8015B (M)

Project: ExxonMobil 04334 / 2492 Castro Valley, CA

Page 1 of 2

| Client Sample Number | | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|--|--|----------------------|------------------------|-----------------|--|------------------|-----------------------|-------------|
| MW1 ************************************ | Company Comp | 09-07-1856-1 | -G 07/21/09 07:35 | Aqueous | GC 47 Anna Anna Anna Anna Anna Anna Anna Ann | 07/23/09 | 07/23/09 22:58 | 090723B12 |
| Comment(s): -The sample | • | | | | | | | |
| -Results were | evaluated to the MDL, o | oncentrations >= to | the MDL but < R | L, if found, ar | e qualified with | ı a "J" flag. | | |
| Parameter | Result | <u>RL</u> <u>M</u> | <u>DL</u> | <u>DF</u> | Qual | <u>Units</u> | | |
| TPH as Diesel | ND | 50 4 | 7 1 | | | ua/l | | |

Decachlorobiphenyl 110 68-140

| MW2 09-07-1856-2-G 07/21/09 Aqueous GC 47 07/23/09 07/2 | |
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Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

REC (%)

-Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter Result RL MDL DF Qual Units

TPH as Diesel ND 50 47 1 ug/L

Surrogates: REC (%) Control Limits Qual

Control Limits

Decachlorobiphenyl 106 68-140

| MW3 09-07-1856-3-G 07/21/09 Aqueous GC | C 47 07/23/09 07/23/09 090723B12 |
|--|--|
| | C 47 07/23/09 07/23/09 090723B12 |
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Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

-Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter Result RL **MDL** <u>DF</u> **Units** TPH as Diesel ND 50 47 1 ug/L Surrogates: REC (%) Control Limits Qual

Decachlorobiphenyl 110 68-140

| MW4 09-07-1856-4-G 07/21/09 Aqueous G | C 47 07/23/09 U//23/U9 090723B12 |
|---------------------------------------|----------------------------------|
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| | |
| | C 47 07/23/09 07/23/09 090723B12 |
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| 10:20 | 23'46 |
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Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

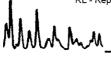
-Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

<u>Parameter</u> Result RL. **MDL** DF Qual Units TPH as Diesel ND 50 47 1 ug/L Surrogates: **REC (%)** Control Limits Qual

Decachlorobiphenyl 120 68-140

RL - Reporting Limit ,

DF - Dilution Factor ,







ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method:

07/23/09 09-07-1856 EPA 3510C EPA 8015B (M)

Project: ExxonMobil 04334 / 2492 Castro Valley, CA

Page 2 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|--|----------------------|------------------------|---------|-----------------------|------------------|-----------------------|-------------|
| MMSS and the property of the control | 09-07-1856-5-G | 07/21/09 09:15 | Aqueous | GC 47.47 and a second | 07/23/09 | 07/24/09 00:01 | 090723B12 |

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

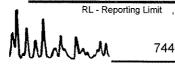
-Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

<u>Parameter</u> Result RL <u>MDL</u> DF Quai <u>Units</u> TPH as Diesel ND 50 47 ug/L Surrogates: REC (%) **Control Limits** Qual

Decachlorobipheny! 105 68-140

| Method Blank 099-12-330-1,199 N/A | | |
|-----------------------------------|--|--|
| Method Blank | | |
| | Aqueous GC 47 07/23/09 07/23/09 09072 | |
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Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag. <u>Parameter</u> Result <u>RL</u> MDL <u>DE</u> Qual TPH as Diesel ND 50 47 1 ug/L Surrogates: **REC (%)** Control Limits Qual Decachlorobiphenyl 124 68-140



DF - Dilution Factor





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: 07/23/09 09-07-1856 EPA 5030B EPA 8015B (M)

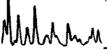
Project: ExxonMobil 04334 / 2492 Castro Valley, CA

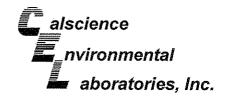
Page 1 of 2

| Project: ExxonMobil 0 | 4334 / 2492 (| astro valley | , CA | | *************************************** | | | r | age 1 of 2 |
|---|---------------------------------------|---------------------------------|------------------------|-------------------------------|---|----------------------------------|-------------------------------|-----------------------|-------------|
| Client Sample Number | | Lab Sampl Number | e | Date/Time Collected Matrix | | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
| MW1 | | 09-07-18 | 56-1-E | 07/21/09 07:35 | | | 07/25/09 | 07/25/09 15:02 | 090725B01 |
| Comment(s); -Results were ev | valuated to the MDL, Result | concentrations >: | to the | | ., if found, ar | e qualified with Qual | n a "J" flag. Units | | |
| TPH as Gasoline Surrogates: | ND REC (%) | 50 Control Limits | 48 | 1 | | <u>Qual</u> | ug/L | | |
| 1,4-Bromofluorobenzene | 109 | 38-134 | | | | | | | |
| MW2 | | 09-07-18 | 56-2-E | 07/21/09 08:05 | Aqueous | GC 25 | 07/25/09 | 07/25/09 14:29 | 090725B01 |
| Comment(s): -Results were ev Parameter | valuated to the MDL, Result | concentrations > <u>RL</u> | to the <u>MDL</u> | | ., if found, ar DF | e qualified with Qual | n a "J" flag. <u>Units</u> | | |
| TPH as Gasoline Surrogates: | ND REC (%) | 50 Control Limits | 48 | 1 | | Qual | ug/L | | |
| 1,4-Bromofluorobenzene | 110 | 38-134 | | | | | | | |
| MW3 | 1 | 09-07-18 | 56-3-E | 07/21/09 08:35 | Aqueous | GC 25 | 07/25/09 | 07/25/09 15:36 | 090725B01 |
| Comment(s): -Results were en Parameter | valuated to the MDL, <u>Result</u> | concentrations > RL | to the <u>MDL</u> | | , if found, ar DF | e qualified with Qual | n a "J" flag. <u>Units</u> | | |
| TPH as Gasoline Surrogates: | ND REC (%) | 50 Control Limits | 48 | 1 | | Qual | ug/L | | |
| 1,4-Bromofluorobenzene | 109 | 38-134 | | | | | | | |
| MW4 | | 09-07-18 | 56-4-E | 07/21/09 10:20 | Aqueous | GC 25 | 07/25/09 | 07/25/09 =16:09 | 090725B01 |
| Comment(s): -Results were e Parameter | valuated to the MDL, <u>Result</u> | , concentrations > <u>RL</u> | = to the <u>MDL</u> | | _, if found, ar DF | re qualified with <u>Qual</u> | h a "J" flag. <u>Units</u> | | |
| TPH as Gasoline Surrogates: | ND REC (%) | 50 Control Limits | 48 | 1 | | Qual | ug/L | | |
| 1,4-Bromofluorobenzene | 111 | 38-134 | | | | | | | |
| | | | | | | | | | |

RL - Reporting Limit

DF - Dilution Factor ,







ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850

Date Received: Work Order No: Preparation: Method:

07/23/09 09-07-1856 EPA 5030B EPA 8015B (M)

Project: ExxonMobil 04334 / 2492 Castro Valley, CA

Page 2 of 2

| Client Sample Number | | Lab Sample Number | | Date/Time Collected Matrix | | Date Prepared | Date/Time Analyzed | QC Batch ID | |
|-----------------------------|--|----------------------|------------|--|-------------|------------------|-----------------------|-------------------|-----------|
| MW5 | And the state of t | 09-07-18 | 56-5-E | 07/21/09 A 09:15 | queous | GO 25 | 07/25/09 | 07/25/09 16:42 | 090725B01 |
| Comment(s): -Results were e | valuated to the MDL, | concentrations > | = to the | VIDL but < RL, if | found, ar | e qualified with | n a "J" flag. | | |
| <u>Parameter</u> | Result | RL | MDL | <u>DF</u> | | Qual | <u>Units</u> | | |
| TPH as Gasoline | ND | 50 | 48 | 1 | | | ug/L | | |
| Surrogates: | <u>REC (%)</u> | Control Limits | | | | Qual | | | |
| 1,4-Bromofluorobenzene | 109 | 38-134 | | | | | | | |
| Method Blank | The second problem and | 099-12-4 | 36-3,573 | A Company of the Comp | queous | GC 25 | 07/25/09 | 07/25/09 11:41 | 090725B01 |
| Comment(s): -Results were e | valuated to the MDL, | concentrations > | = to the l | MDL but < RL, if | f found, ar | e qualified with | a "J" flag. | | |
| <u>Parameter</u> | Result | <u>RL</u> | MDL | <u>DF</u> | | Qual | <u>Units</u> | | |

1

ug/L

Qual

48

1.4-Bromofluorobenzene

TPH as Gasoline

Surrogates:

109

REC (%)

ND

38-134

Control Limits

50

RL - Reporting Limit ,





 ETIC Engineering, Inc.
 Date Received:
 07/23/09

 2285 Morello Avenue
 Work Order No:
 09-07-1856

 Pleasant Hill, CA 94523-1850
 Preparation:
 EPA 5030B

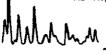
 Method:
 EPA 8021B

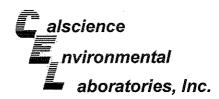
 Units:
 ug/L

| | | | | | Units: | | | | | ι | ıg/L |
|--|--|--|-------------------|---------------|------------------------|--|-----------------|--|-----------------------|------------|---|
| Project: ExxonMobi | 1 04334 / 2492 | 2 Castro | Valley | , CA | | | | | Pag | je 1 | - |
| Client Sample Number | | | Lab Samı Numbe | | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC | Batch ID |
| MW1 | | A CONTROL OF THE CONT | 09-07-18 | 56-1-D | 07/21/09 07:35 | Aqueous | GC 8 | 07/25/09 | 07/25/09 17:38 | 090 | 725B01 |
| Comment(s): -Results w | ere evaluated to the | MDL, cond | entrations | s >= to the f | MDL but < RL | , if found, are | e qualified wit | h a "J" flag. | | | |
| Parameter | Result | RL | MDL | DF Qual | Parameter | | | Result | RL | MDL | DF Qual |
| Benzene | ND | 0.50 | 0.14 | 1 | Ethylbenzei | те | | ND | 0.50 | 0.17 | 1 |
| Toluene | ND | 0.50 | 0.17 | 1 | Xylenes (to | al) | | ND | 1.0 | 0.26 | 1 |
| Surrogates: | <u>REC (%)</u> | Control | | Qual | | | | | | | |
| 1,4-Bromofluorobenzene | 100 | <u>Limits</u> 70-130 | | | | | | | | | |
| MW2 | | The state of the s | 09-07-18 | 56-2-D | 07/21/09 | Aqueous | GC 8 | 07/25/09 | 07/25/09 | 090 | 725B01 |
| See a particular de la contraction de la contrac | Western William Committee | And the second s | | | 08:05 | A CONTROL OF THE CONT | | And Andrew Andre | 18:12 | | ************************************** |
| Comment(s): -Results w | ere evaluated to the | MDL, cond | entrations | s >= to the 1 | MDL but < RL | , if found, are | e qualified wit | h a "J" flag. | | | |
| <u>Parameter</u> | Result | RL | MDL | DF Qual | <u>Parameter</u> | | | Result | <u>RL</u> | <u>MDL</u> | DF Qual |
| Benzene | ND | 0.50 | 0.14 | 1 | Ethylbenzei | те | | ND | 0.50 | 0.17 | 1 |
| Toluene | ND | 0.50 | 0.17 | 1 | Xylenes (to | al) | | ND | 1.0 | 0.26 | 1 |
| Surrogates: | <u>REC (%)</u> | Control Limits | | <u>Qual</u> | | | | | | | |
| 1,4-Bromofluorobenzene | 105 | 70-130 | | | | | | | | | |
| MW3 | Company Comp | | 09-07-18: | 56-3-D | 07/21/09 08:35 | Aqueous | GC 8 | 07/25/09 | 07/25/09 18:45 | 090 | 725B01 |
| Comment(s): -Results w | ere evaluated to the | MDL cond | entrations | s >= to the I | MDI but < RI | if found are | e qualified wif | h a ".l" flan | | | ••••••••••••••••••••••••••••••••••••••• |
| Parameter | Result | RL | | DF Qual | Parameter | , ii lourio, arc | s quannou m | Result | RL | MDL | DF Qual |
| Benzene | 0.24 | 0.50 | 0.14 | 1 J | Ethylbenze | 10 | | ND | 0.50 | 0.17 | 1 |
| Toluene | ND | 0.50 | 0.17 | 1 | Xylenes (to | | | ND | 1.0 | 0.17 | 1 |
| Surrogates: | REC (%) | Control | 0,,,, | Qual | 7131C11CO (101 | usj | | .40 | 1,0 | 0.20 | • |
| | | Limits | | | | | | | | | |
| 1,4-Bromofluorobenzene | 103 | 70-130 | | | | | | · | | | |
| MW4 | The second secon | Content of the Charles of the Charle | 09-07-18 | 56-4-D | 07/21/09 10:20 | Aqueous | SGC 8 | 07/25/09 | 07/25/09 19:19 | 090 | 725B01 |
| Comment(s): -Results w | ere evaluated to the | MDL, cond | entrations | s >= to the l | MDL but < RL | , if found, are | e qualified wit | h a "J" flag. | | | |
| Parameter | Result | RL | MDL | DF Qual | Parameter | • | | Result | RL | MDL | DF Qual |
| Benzene | ND | 0.50 | 0.14 | 1 | Ethylbenze | ne | | ND | 0.50 | 0.17 | 1 |
| Toluene | ND | 0.50 | 0.17 | 1 | Xylenes (to | | | ND | 1.0 | 0.26 | 1 |
| Surrogates: | REC (%) | Control | | <u>Qual</u> | , ,,, | , | | | | | |
| 1,4-Bromofluorobenzene | 104 | <u>Limits</u> 70-130 | | | | | | | | | |

RL - Reporting Limit

DF - Dilution Factor ,







Date Received: 07/23/09 ETIC Engineering, Inc. 2285 Morello Avenue Work Order No: 09-07-1856 Pleasant Hill, CA 94523-1850 Preparation: EPA 5030B Method: EPA 8021B Units: ug/L

| Project: Exxoniviobil 04334 / 2492 (| | | | | | | |
|--|-------------------------------|-------------------|---------------|------------------|-------------|-------------------|-------------|
| Client Sample Number | • | | Matrix | Instrument | | | QC Batch ID |
| MW5 | 09-07-1856-5-D | 07/21/09 09:15 | Aqueous | GC 8 | 07/25/09 | 07/25/09 19:52 | 090725B01 |
| Comment(s): -Results were evaluated to the M | IDL, concentrations >= to the | ne MDL but < RL | , if found, a | e qualified with | a "J" flag. | | |

| | | • | | | | | | | |
|------------------------|---------|----------------|------------|---------|------------------|--------|------|------------|---------|
| <u>Parameter</u> | Result | <u>RL</u> | <u>MDL</u> | DF Qual | <u>Parameter</u> | Result | RL | <u>MDL</u> | DF Qual |
| Benzene | ND | 0.50 | 0.14 | 1 | Ethylbenzene | ND | 0.50 | 0.17 | 1 |
| Toluene | ND | 0.50 | 0.17 | 1 | Xylenes (total) | ND | 1.0 | 0.26 | 1 |
| Surrogates: | REC (%) | <u>Control</u> | | Qual | | | | | |
| | | <u>Limits</u> | | | | | | | |
| 1,4-Bromofluorobenzene | 104 | 70-130 | | | | | | | |

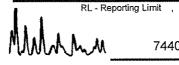
| Method Blank | | | 099-12-66 | 7-513 | N/A Aqueous | GC 8 07/25/09 | 07/25/ 12:1 | | 725B01 |
|------------------|----------------------------------|-----------|-----------|---------|------------------|---------------|----------------|------------|---------|
| Comment(s): | -Results were evaluated to the M | - | | | | · · | | | |
| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | MDL | DF Qual | <u>Parameter</u> | Result | RL | <u>MDL</u> | DF Qual |
| Benzene | ND | 0.50 | 0.14 | 1 | Ethylbenzene | ND | 0.50 | 0.17 | 1 |
| Toluene | ND | 0.50 | 0.17 | 1 | Xylenes (total) | ND | 1.0 | 0.26 | 1 |

<u>Qual</u>

Surrogates: <u>Limits</u> 70-130 1,4-Bromofluorobenzene 115

REC (%)

Controi



DF - Dilution Factor ,

07/23/09

09-07-1856

EPA 5030B

EPA 8260B

ug/L



Analytical Report



ETIC Engineering, Inc.

2285 Morello Avenue

Pleasant Hill, CA 94523-1850

Method:

Date Received:

Work Order No:

Preparation:

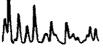
Method:

Units:

| Project: ExxonMobil 04 | 334 / 2492 | 2 Castro | Valley | , CA | | | | | Pag | је 1 і | of 3 | |
|--|--|--|--|--|--|--|----------------|--|--|--|--|--|
| Client Sample Number | *************************************** | • | Lab Samp Number | | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | | Batch ID | |
| MW1 | Comment Comm | 09-07-1856-1-C | | | 07/21/09 Aqueous GC/M 07:35 | | | 07/28/09 | 07/28/09 16:42 | D90 | 090728L01 | |
| Comment(s): -Results were e | evaluated to the | MDL, cond | entrations | s >= to the N | MDL but < RL, if | found, are | qualified wi | th a "J" flag. | | | | |
| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | MDL | DF Qual | <u>Parameter</u> | | | Result | <u>RL</u> | <u>MDL</u> | DF Qual | |
| ,2-Dibromoethane | ND | 0.50 | 0.12 | 1 | Diisopropyl Eth | ner (DIPE) | 1 | ND | 0.50 | 0.028 | 1 | |
| ,2-Dichloroethane | ND | 0.50 | 0.080 | 1 | Ethyl-t-Butyl Et | ther (ETB | E) | ND | 0.50 | 0.036 | 1 | |
| fethyl-t-Butyl Ether (MTBE) | 1.2 | 0.50 | 0.067 | 1 | Tert-Amyl-Met | hyl Ether (| TAME) | ND | 0.50 | 0.030 | 1 | |
| ert-Butyl Alcohol (TBA) | ND | 10 | 2.1 | 1 | Ethanol | | | ND | 50 | 15 | 1 | |
| Surrogates: | REC (%) | Control | | <u>Qual</u> | Surrogates: | | | REC (%) | Control | | Qua | |
| | | <u>Limits</u> | | | | | | | Limits | | | |
| .2-Dichloroethane-d4 | 106 | 80-128 | | | Dibromofluoro | | | .121 | 80-127 | | | |
| oluene-d8 | 100 | 80-120 | | PHARMAN AND AND AND AND AND AND AND AND AND A | 1,4-Bromofluo | robenzene | | 82 | 68-120 | | | |
| MW2 | The second secon | 100 100 100 100 100 100 100 100 100 100 | 09-07-18! | 56-2-C | 07/21/09 A 08:05 | queous | GC/MS L | 07/28/09 | 07/28/09 17:12 | 090 | 728L01 | |
| Comment(s): -Results were e | evaluated to the | MDL, cond | entrations | s >= to the N | ADL but < RL, if | found, are | qualified wi | th a "J" flag. | | | | |
| Parameter | Result | RL | MDL | DF Qual | Parameter | | | Result | RL | MDL | DF Que | |
| ,2-Dibromoethane | ND | 0.50 | 0.12 | 1 | Diisopropyl Eth | ner (DIPE) | 1 | ND | 0.50 | 0.028 | 1 | |
| .2-Dichloroethane | ND | 0.50 | 0.080 | 1 | Ethyl-t-Butyl E | • , | | ND | | 0.036 | 1 | |
| Methyl-t-Butyl Ether (MTBE) | 0.12 | 0.50 | 0.067 | 1 J | Tert-Amyl-Met | , | • | ND | 0.50 | 0.030 | 1 | |
| ert-Butyl Alcohol (TBA) | ND | 10 | 2.1 | 1 | Ethanol | • | , | ND | 50 | 15 | 1 | |
| Surrogates: | REC (%) | <u>Control</u> | | Qual | Surrogates: | | | REC (%) | Control | | Qua | |
| | | <u>Limits</u> | | | | | | | <u>Limits</u> | | | |
| ,2-Dichloroethane-d4 | 112 | 80-128 | | | Dibromofluoro | methane | | 121 | 80-127 | | | |
| oluene-d8 | 101 | 80-120 | | | 1,4-Bromofluo | robenzene |) | 81 | 68-120 | | | |
| MW3 | | ta en el fille en la tracte a con a re | | | | | | | | JAN 11 10 JAN 12 | | |
| Pakahan nagari, ah Managhaghi Aga Lar Saygardhi I ndawah wahida, Lahunayaya nagah nagah masak masa Magahira masay minamban masah nga mbay pagah jamang ngah jaman magahar gangga haman ma | | | 09-07-18 | 56-3-B | 07/21/09 A 08:35 | queous | GC/MS L | 07/27/09 | 07/27/09 21:25 | 090 | 727L01 | |
| Comment(s): -Results were | evaluated to the | 27 | | A CONTRACTOR OF THE CONTRACTOR | | A CONTROL OF THE PARTY OF THE P | | The second secon | | 090 | A Company of the Comp | |
| • • | evaluated to the <u>Result</u> | 27 | entration: | A CONTRACTOR OF THE CONTRACTOR | 08;35 | A CONTROL OF THE PARTY OF THE P | | The second secon | | 090 <u>MDL</u> | DF Qua | |
| <u>Parameter</u> | | MDL, cond | entration: | s >= to the N | 08:35 //DL but < RL, if | found, are | qualified wi | th a "J" flag. | 21:25 | 1941 - 19 | The second secon | |
| <u>Parameter</u> ,2-Dibromoethane | Result | MDL, cond | entration: | s >= to the N DF Qual | 08:35 MDL but < RL, if Parameter Diisopropyl Etl | found, are | qualified wi | th a "J" flag. <u>Result</u> | 21:25 <u>RL</u> | MDL | DF Qua | |
| <u>Parameter</u> ,2-Dibromoethane ,2-Dichloroethane | <u>Result</u> ND | MDL, cond <u>RL</u> 0.50 | entration: MDL 0.12 | s >= to the f DF Qual 1 | 08:35 MDL but < RL, if Parameter | found, are ner (DIPE) ther (ETB | e qualified wi | th a "J" flag. <u>Result</u> ND | 21:25 <u>RL</u> 0.50 | <u>MDL</u> 0.028 | DF Qua | |
| <u>Parameter</u> ,2-Dibromoethane ,2-Dichloroethane Methyl-t-Butyl Ether (MTBE) | Result ND 0.11 | MDL, cond RL 0.50 0.50 | entration: <u>MDL</u> 0.12 0.080 | s >= to the f <u>DF</u> <u>Qual</u> 1 1 J | 08:35 MDL but < RL, if Parameter Diisopropyl Ett Ethyl-t-Butyl E | found, are ner (DIPE) ther (ETB | e qualified wi | th a "J" flag. <u>Result</u> ND ND | 21:25 RL 0.50 0.50 | MDL 0.028 0.036 | DF Qua | |
| Parameter 1,2-Dibromoethane 1,2-Dichloroethane Methyl-t-Butyl Ether (MTBE) Fert-Butyl Alcohol (TBA) | <u>Result</u> ND 0.11 ND | MDL, cond RL 0.50 0.50 0.50 | entration: <u>MDL</u> 0.12 0.080 0.067 | s >= to the l <u>DF Qual</u> 1 1 J 1 | 08:35 MDL but < RL, if Parameter Diisopropyl Ether Ethyl-t-Butyl E Tert-Amyl-Met | found, are ner (DIPE) ther (ETB | e qualified wi | th a "J" flag. <u>Result</u> ND ND ND ND | 21:25 <u>RL</u> 0.50 0.50 0.50 | MDL 0.028 0.036 0.030 | DF Qua 1 1 1 | |
| Parameter ,2-Dibromoethane ,2-Dichloroethane Methyl-t-Butyl Ether (MTBE) Pert-Butyl Alcohol (TBA) | Result ND 0.11 ND ND | MDL, cond RL 0.50 0.50 0.50 10 | entration: <u>MDL</u> 0.12 0.080 0.067 | s >= to the M <u>DF</u> Qual 1 1 J 1 1 | 08:35 MDL but < RL, if Parameter Diisopropyl Eth Ethyl-t-Butyl E Tert-Amyl-Met Ethanol | found, are ner (DIPE) ther (ETB | e qualified wi | th a "J" flag. <u>Result</u> ND ND ND ND | 21:25 <u>RL</u> 0.50 0.50 0.50 50 | MDL 0.028 0.036 0.030 | DF Qua 1 1 1 | |
| Comment(s): -Results were e Parameter 1,2-Dibromoethane 1,2-Dichloroethane Methyl-t-Butyl Ether (MTBE) Fert-Butyl Alcohol (TBA) Surrogates: | Result ND 0.11 ND ND | MDL, conc RL 0.50 0.50 0.50 10 Control | entration: <u>MDL</u> 0.12 0.080 0.067 | s >= to the M <u>DF</u> Qual 1 1 J 1 1 | 08:35 MDL but < RL, if Parameter Diisopropyl Eth Ethyl-t-Butyl E Tert-Amyl-Met Ethanol | found, are ner (DIPE) ther (ETB hyl Ether (| e qualified wi | th a "J" flag. <u>Result</u> ND ND ND ND | 21:25 RL 0.50 0.50 0.50 0.50 50 Control | MDL 0.028 0.036 0.030 | DF Qua 1 1 | |

RL - Reporting Limit

DF - Dilution Factor ,







ETIC Engineering, Inc. 2285 Morello Avenue

Pleasant Hill, CA 94523-1850

Date Received: Work Order No:

Preparation: Method:

Units:

07/23/09

09-07-1856 EPA 5030B

EPA 8260B ug/L

| Project: ExxonMobil 043 | 34 / 2492 | 2 Castro | o Valley | , CA | | | | | Paç | je 2 (| of 3 |
|--|--|--|-------------------|---------------|------------------------|--------------------------------|---|------------------|-----------------------|--------|------------------------|
| Client Sample Number | | | Lab Samı Numbe | | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | ~~ | Batch ID |
| MW4 | A | And the second s | 09-07-18 | 56-4-C | 07/21/09 10:20 | Aqueous | GC/MS L | 07/28/09 | 07/28/09 17:42 | 090 | 728L01 |
| Comment(s): -Results were ev | aluated to the | MDL, con | | | | , if found, are | e qualified wi | th a "J" flag. | | | |
| <u>Parameter</u> | Result | <u>RL</u> | MDL | DF Qual | <u>Parameter</u> | | | Result | <u>RL</u> | MDL | DF Qual |
| 1,2-Dibromoethane | ND | 0.50 | 0.12 | 1 | Diisopropyl | Ether (DIPE |) | ND | 0.50 | 0.028 | 1 |
| 1,2-Dichloroethane | ND | 0.50 | 0.080 | 1 | Ethyl-t-Buty | yl Ether (ETB | E) | ND | 0.50 | 0.036 | 1 |
| Methyl-t-Butyl Ether (MTBE) | 0.16 | 0.50 | 0.067 | 1 J | Tert-Amyl-I | Methyl Ether | (TAME) | ND | 0.50 | 0.030 | 1 |
| Tert-Butyl Alcohol (TBA) | ND | 10 | 2.1 | 1 | Ethanol | | | ND | 50 | 15 | 1 |
| Surrogates: | REC (%) | Control | | <u>Qual</u> | Surrogates: | | | REC (%) | <u>Control</u> | | <u>Qual</u> |
| | | <u>Limits</u> | | | | | | | Limits | | |
| 1,2-Dichloroethane-d4 | 108 | 80-128 | | | _ , | oromethane | | 121 | 80-127 | | |
| Toluene-d8 | 100 | 80-120 | | | 1,4-Bromof | fluorobenzen |) | 81 | 68-120 | | vancaniia ay a a a a a |
| The state of the s | New Control of the Co | American State of the Control of the | 09-07-18 | 56-5-B | 07/21/09 09:15 | Aqueous | GC/MS L | 07/27/09 | 07/27/09 19:56 | 090 | 727L01 |
| Comment(s): -Results were ev | aluated to the | MDL.con | centration | s>= to the N | VIDI but < RI | if found, are | e qualified wi | th a ".l" flag. | | | |
| Parameter | Result | RL | | DF Qual | | -,, | - - | Result | RL | MDL | DF Qual |
| 1.2-Dibromoethane | ND | 0.50 | 0.12 | 1 | Diisopropyl | Ether (DIPE |) | ND | | 0.028 | 1 |
| 1,2-Dichloroethane | ND | 0.50 | 0.080 | 1 | , ., | vi Ether (ETB | , | ND | | 0.036 | 1 |
| Methyl-t-Butyl Ether (MTBE) | 7.0 | 0.50 | 0.067 | 1 | • • | Methyl Ether | , | ND | | 0.030 | 1 |
| Tert-Butyl Alcohol (TBA) | ND | 10 | 2.1 | 1 | Ethanol | , | (, , , , , , , , , , , , , , , , , , , | ND | 50 | 15 | 1 |
| Surrogates: | REC (%) | Control | | Qual | Surrogates: | | | REC (%) | Control | | Qual |
| | | Limits | | | , | • | | | Limits | | |
| 1,2-Dichloroethane-d4 | 111 | 80-128 | | | Dibromoflu | oromethane | | 121 | 80-127 | | |
| Toluene-d8 | 101 | 80-120 | | | 1,4-Bromot | fluorobenzene | 9 | 82 | 68-120 | | |
| Method Blank | And the second of the second o | | 099-10-0 | 25-1,124 | N/A | Aqueous | GC/MS L | 07/27/09 | 07/27/09 13:25 | 090 | 727L01 |
| Comment(s): -Results were ev | aluated to the | MDL. con | centration | s >= to the l | MDL but < RL | if found, an | e qualified w | th a "J" flag. | | | |
| Parameter | Result | RL | MDL | DF Qual | Parameter | | | Result | RL | MDL | DF Qual |
| 1,2-Dibromoethane | ND | 0.50 | 0.12 | | | Ether (DIPE | 1 | ND | 0.50 | 0.028 | 1 |
| | ND | 0.50 | 0.080 | 1 | , , , | yl Ether (ETB | , | ND | 0.50 | 0.026 | 1 |
| 1,2-Dichloroethane Methyl-t-Butyl Ether (MTBE) | ND | 0.50 | 0.067 | 1 | | yı culer (cı c Methyl Ether | • | ND ND | | 0.030 | 1 |
| Tert-Butyl Alcohol (TBA) | ND | 10 | 2.1 | 1 | Ethanol | weatht mater | () MAINEY | ND ND | 50 | 15 | 1 |
| Surrogates: | REC (%) | Control | 2.1 | ' Qual | Surrogates: | | | REC (%) | Control | 13 | Qual |
| Ourrogates. | 17F77(0) | Limits | | <u>waai</u> | Curroyates. | <u>.</u> | | 12F67/81 | Limits | | wual |
| 1,2-Dichloroethane-d4 | 96 | 80-128 | | | Dibromoflu | oromethane | | 100 | 80-127 | | |
| Toluene-d8 | 97 | 80-120 | | | | fluorobenzen | 2 | 82 | 68-120 | | |
| | | | | | ., | | - | | | | |



DF - Dilution Factor ,





ETIC Engineering, Inc. 2285 Morello Avenue

Pleasant Hill, CA 94523-1850

Date Received: Work Order No: Preparation: Method:

Units:

09-07-1856 EPA 5030B EPA 8260B ug/L

07/23/09

Project: ExxonMobil 04334 / 2492 Castro Valley, CA

Page 3 of 3

| Client Sample Number | | | Lab Sam Numbe | • | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Tim Analyzed | _ ^^ | Batch ID |
|-----------------------------|--|--|------------------|---------------|------------------------|-----------------|----------------|------------------|----------------------|-------|----------|
| Method Blank | Adequate control of the control of t | Section of Companying Common Companying Common Companying Common Companying C | 099-10-0 | 25-1,125 | N/A | Aqueous | GC/MS L | 07/28/09 | 07/28/09 13:17 | 090 | 728L01 |
| Comment(s): -Results were | evaluated to the | MDL, con | centration: | s >= to the I | VIDL but < RL | , if found, are | e qualified wi | th a "J" flag. | | | <u> </u> |
| Parameter | Result | <u>RL</u> | MDL | DF Qual | <u>Parameter</u> | | | <u>Result</u> | <u>RL</u> | MDL | DF Qual |
| 1,2-Dibromoethane | ND | 0.50 | 0.12 | 1 | Diisopropyl | Ether (DIPE |) | ND | 0.50 | 0.028 | 1 |
| 1,2-Dichloroethane | ND | 0.50 | 0.080 | 1 | Ethyl-t-Buty | l Ether (ETB | E) | ND | 0.50 | 0.036 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | 0.50 | 0.067 | 1 | Tert-Amyl-N | lethyl Ether | (TAME) | ND | 0.50 | 0.030 | 1 |
| Tert-Butyl Alcohol (TBA) | ND | 10 | 2.1 | 1 | Ethanol | | | ND | 50 | 15 | 1 |
| Surrogates: | <u>REC (%)</u> | Control Limits | | Qual | Surrogates: | | | REC (%) | Control Limits | | Qual |
| 1,2-Dichloroethane-d4 | 111 | 80-128 | | | Dibromoflue | promethane | | 120 | 80-127 | | |
| Toluene-d8 | 102 | 80-120 | | | 1,4-Bromof | uorobenzene | • | 81 | 68-120 | | |





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850

Date Received: Work Order No: Preparation: Method: 07/23/09 09-07-1856 EPA 5030B EPA 8015B (M)

Project ExxonMobil 04334 / 2492 Castro Valley, CA

| Quality Control Sample ID | Matrix | Instrument | Date Prepared | | Date Analyzed | MS/MSD Batch Number |
|---------------------------|---------|------------|------------------|-----|------------------|------------------------|
| MW2 | Aqueous | GC 25 | 07/25/09 | | 07/25/09 | 090725801 |
| Parameter | MS %REC | MSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
| TPH as Gasoline | 94 | 91 | 68-122 | 3 | 0-18 | |

Mulhan_





ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: 07/23/09 09-07-1856 EPA 5030B EPA 8021B

Project ExxonMobil 04334 / 2492 Castro Valley, CA

| Quality Control Sample ID | Matrix | Matrix Instrument | | Date Prepared | | MS/MSD Batch Number | |
|-----------------------------|---------|--|---------|--|----------|------------------------|--|
| 09-07-1998-1 | Aqueous | Process General Confession (Confession (Co | | Control of the second of the s | 07/25/09 | 090725801 | |
| <u>Parameter</u> | MS %REC | MSD %REC | %REC CL | RPD | RPD CL | Qualifiers | |
| Benzene | 96 | 99 | 57-129 | 3 | 0-23 | | |
| Toluene | 93 | 97 | 50-134 | 4 | 0-26 | | |
| Ethylbenzene | 96 | 98 | 58-130 | 2 | 0-26 | | |
| p/m-Xylene | 99 | 101 | 58-130 | 2 | 0-28 | | |
| o-Xylene | 93 | 95 | 57-123 | 2 | 0-26 | | |
| Methyl-t-Butyl Ether (MTBE) | 101 | 101 | 44-134 | 1 | 0-27 | | |

RPD-Rela

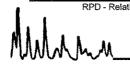




ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: 07/23/09 09-07-1856 EPA 5030B EPA 8260B

Project ExxonMobil 04334 / 2492 Castro Valley, CA

| Quality Control Sample ID | Matrix | Instrument | Date Prepared | | Date ialyzed | MS/MSD Batch Number |
|---------------------------------------|---------|------------|------------------|-----|-----------------|------------------------|
| 09-07-1639-8 | Aqueous | GC/MS L | 07/27/09 | 07 | //27/09 | 090727501 |
| · · · · · · · · · · · · · · · · · · · | | | | | | |
| <u>Parameter</u> | MS %REC | MSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
| Benzene | 116 | 107 | 76-124 | 8 | 0-20 | |
| Toluene . | 109 | 109 | 80-120 | 0 | 0-20 | |
| Ethylbenzene | 105 | 103 | 78-126 | 2 | 0-20 | |
| Methyl-t-Butyl Ether (MTBE) | 66 | 75 | 67-121 | 12 | 0-49 | 3 |
| Tert-Butyl Alcohol (TBA) | 137 | 120 | 36-162 | 13 | 0-30 | |
| Diisopropyl Ether (DIPE) | 69 | 74 | 60-138 | 7 | 0-45 | |
| Ethyl-t-Butyl Ether (ETBE) | 65 | 71 | 69-123 | 9 | 0-30 | 3 |
| Tert-Amyl-Methyl Ether (TAME) | 84 | 78 | 65-120 | 8 | 0-20 | |
| Ethanol | 136 | 111 | 30-180 | 20 | 0-72 | |
| 1,1-Dichloroethene | 96 | 106 | 73-127 | 10 | 0-20 | |
| 1,2-Dibromoethane | 107 | 110 | 80-120 | 3 | 0-20 | |
| 1,2-Dichlorobenzene | 97 | 100 | 80-120 | 3 | 0-20 | |
| Carbon Tetrachloride | 106 | 106 | 74-134 | 0 | 0-20 | |
| Chlorobenzene | 115 | 113 | 80-120 | 2 | 0-20, | |
| Trichloroethene | 104 | 106 | 77-120 | 2 | 0-20 | |
| Vinyl Chloride | 87 | 94 | 72-126 | 8 | 0-20 | |







ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: 07/23/09 09-07-1856 EPA 5030B EPA 8260B

Project ExxonMobil 04334 / 2492 Castro Valley, CA

| Quality Control Sample ID | Matrix | Instrument | Date Prepare | ed | Date Analyzed | MS/MSD Batch Number |
|-------------------------------|---------|------------|-----------------|-----|------------------|------------------------|
| 09-07-1640-1 | Aqueo | us GC/MSL | 07/28/09 | | 07/28/09 | 090728S01 |
| | | | | | | |
| <u>Parameter</u> | MS %REC | MSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
| Benzene | 111 | 102 | 76-124 | 8 | 0-20 | |
| Toluene | 105 | 113 | 80-120 | 7 | 0-20 | |
| Ethylbenzene | 101 | 101 | 78-126 | 0 | 0-20 | |
| Methyl-t-Butyl Ether (MTBE) | 76 | 82 | 67-121 | 8 | 0-49 | |
| Tert-Butyl Alcohol (TBA) | 116 | 97 | 36-162 | 18 | 0-30 | |
| Diisopropyl Ether (DIPE) | 83 | 75 | 60-138 | 11 | 0-45 | |
| Ethyl-t-Butyl Ether (ETBE) | 76 | 74 | 69-123 | 4 | 0-30 | |
| Tert-Amyl-Methyl Ether (TAME) | 88 | 80 | 65-120 | 10 | 0-20 | |
| Ethanol | 134 | 127 | 30-180 | 5 | 0-72 | |
| 1,1-Dichloroethene | 86 | 119 | 73-127 | 32 | 0-20 | 4 |
| 1,2-Dibromoethane | 113 | 115 | 80-120 | 2 | 0-20 | |
| 1,2-Dichlorobenzene | 97 | 95 | 80-120 | 3 | 0-20 | |
| Carbon Tetrachloride | 102 | 99 | 74-134 | 3 | 0-20 | |
| Chlorobenzene | 110 | 110 | 80-120 | 0 | 0-20 | |
| Trichloroethene | 103 | 105 | 77-120 | 2 | 0-20 | |
| Vinyl Chloride | 76 | 88 | 72-126 | 14 | 0-20 | |





Quality Control - LCS/LCS Duplicate



ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850 Date Received: Work Order No: Preparation: Method: N/A 09-07-1856 EPA 3510C EPA 8015B (M)

Project: ExxonMobil 04334 / 2492 Castro Valley, CA

| Quality Control Sample ID | Matrix Inst | rument Pi | Date repared A | Date nalyzed | LCS/LCSD Bate Number | ch |
|---------------------------|-------------|-----------|-------------------|-----------------|-------------------------|--|
| 099-12-330-1,199 | Aqueous G | C 47 0 | 7/23/09 07 | //23/09 | 090723B12 | And the second s |
| Parameter | LCS %REC | LCSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
| TPH as Diesel | 106 | 112 | 75-117 | 6 | 0-13 | |

MANA_



Quality Control - LCS/LCS Duplicate



ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850

Date Received: Work Order No: Preparation: Method: N/A 09-07-1856 EPA 5030B EPA 8015B (M)

Project: ExxonMobil 04334 / 2492 Castro Valley, CA

| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Ba Number | tch |
|---------------------------|---------|------------|------------------|------------------|-----------------------|--|
| 099-12-436-3,573 | Aqueous | GC 25 | 07/25/09 | 07/25/09 | 090725B01 | The state of the s |
| <u>Parameter</u> | LCS %F | REC LCSD | %REC %R | EC CL RP | D RPD CL | Qualifiers |
| TPH as Gasoline | 98 | 99 | 7 | 8-120 1 | 0-10 | |

MMM_

alscience nvironmental Quality Control - Laboratory Control Sample aboratories, Inc.



ETIC Engineering, Inc.

2285 Morello Avenue

Pleasant Hill, CA 94523-1850

Date Received:

Work Order No:

Preparation: Method:

N/A 09-07-1856

EPA 5030B

EPA 8021B

Project: ExxonMobil 04334 / 2492 Castro Valley, CA

| Quality Control Sample ID | Matrix | Instrument | Date Analyzed | Lab File II |) LCS | Batch Number |
|-----------------------------|---------|--|----------------|-------------|--|--------------|
| 099-12-667-513 | Aqueous | Angelet (Section), Angelet (Sect | 07/25/09 | 002F0201 | A Company of the Comp | 090725B01 |
| Parameter | | Conc Added | Conc Recovered | LCS %Rec | %Rec CL | Qualifiers |
| Benzene | | 100 | 105 | 105 | 70-118 | |
| Toluene | | 100 | 102 | 102 | 66-114 | |
| Ethylbenzene | | 100 | 105 | 105 | 72-114 | |
| p/m-Xylene | • | 200 | 218 | 109 | 74-116 | |
| o-Xylene | | 100 | 101 | 101 | 72-114 | |
| Methyl-t-Butyl Ether (MTBE) | | 100 | 103 | 103 | 41-137 | |

CL - Control Limit



Quality Control - LCS/LCS Duplicate



ETIC Engineering, Inc. 2285 Morello Avenue

Pleasant Hill, CA 94523-1850

Date Received:

Work Order No: Preparation:

Method:

N/A

09-07-1856 EPA 5030B

EPA 8260B

Project: ExxonMobil 04334 / 2492 Castro Valley, CA

| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed | | LCS/LCSD I Numbe | |
|-------------------------------|----------|------------|------------------|------------------|-----|---------------------|--|
| 099-10-025-1,124 | Aqueous | GC/MS L | 07/27/09 | 07/27 | /09 | 090727L | Manager of the control of the contro |
| Parameter | LCS %REC | LCSD %REC | %REC CL | ME_CL | RPD | RPD CL | Qualifiers |
| Benzene | 112 | 107 | 80-120 | 73-127 | 5 | 0-20 | |
| Carbon Tetrachloride | 103 | 98 | 74-134 | 64-144 | 5 | 0-20 | |
| Chlorobenzene | 115 | 107 | 80-120 | 73-127 | 7 | 0-20 | |
| 1,2-Dibromoethane | 112 | 106 | 79-121 | 72-128 | 5 | 0-20 | |
| 1,2-Dichlorobenzene | 103 | 97 | 80-120 | 73-127 | 6 | 0-20 | |
| 1,1-Dichloroethene | 87 | 80 | 78-126 | 70-134 | 9 | 0-28 | |
| Ethylbenzene | 108 | 100 | 80-120 | 73-127 | 8 | 0-20 | |
| Toluene | 106 | 101 | 80-120 | 73-127 | 5 | 0-20 | |
| Trichloroethene | 106 | 101 | 79-127 | 71-135 | 4 | 0-20 | |
| Vinyl Chloride | 76 | 83 | 72-132 | 62-142 | 8 | 0-20 | |
| Methyl-t-Butyl Ether (MTBE) | 74 | 67 | 69-123 | 60-132 | 10 | 0-20 | |
| Tert-Butyl Alcohol (TBA) | 120 | 108 | 63-123 | 53-133 | 10 | 0-20 | |
| Diisopropyl Ether (DIPE) | 81 | 67 | 59-137 | 46-150 | 18 | 0-37 | |
| Ethyl-t-Butyl Ether (ETBE) | 81 | 73 | 69-123 | 60-132 | 9 | 0-20 | |
| Tert-Amyl-Methyl Ether (TAME) | 89 | 83 | 70-120 | 62-128 | 7 | 0-20 | |
| Ethanol | 131 | 141 | 28-160 | 6-182 | 7 | 0-57 | |

Total number of LCS compounds: 16

Total number of ME compounds: 1

Total number of ME compounds allowed:

LCS ME CL validation result: Pass





Quality Control - LCS/LCS Duplicate

aboratories, Inc.

ETIC Engineering, Inc. 2285 Morello Avenue

Pleasant Hill, CA 94523-1850

Date Received:

Work Order No:

Preparation:

Method:

N/A

09-07-1856 **EPA 5030B**

EPA 8260B

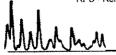
Project: ExxonMobil 04334 / 2492 Castro Valley, CA

| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed 07/28/09 | | LCS/LCSD Numbe | |
|-------------------------------|----------|------------|------------------|------------------------------|-----|-------------------|------------|
| 099-10-025-1,125 | Aqueous | GC/MS L | 07/28/09 | | | 090728L01 | |
| Parameter | LCS %REC | LCSD %REC | %REC CL | ME CL | RPD | RPD CL | Qualifiers |
| Benzene | 107 | 106 | 80-120 | 73-127 | 1 | 0-20 | |
| Carbon Tetrachloride | 97 | 95 | 74-134 | 64-144 | 1 | 0-20 | |
| Chlorobenzene | 107 | 106 | 80-120 | 73-127 | 1 | 0-20 | |
| 1,2-Dibromoethane | 105 | 106 | 79-121 | 72-128 | 1 | 0-20 | |
| 1,2-Dichlorobenzene | 95 | 95 | 80-120 | 73-127 | 0 | 0-20 | |
| 1,1-Dichloroethene | 82 | 84 | 78-126 | 70-134 | 2 | 0-28 | |
| Ethylbenzene | 97 | 97 | 80-120 | 73-127 | 0 | 0-20 | |
| Toluene | 102 | 101 | 80-120 | 73-127 | 1 | 0-20 | |
| Trichloroethene | 100 | 98 | 79-127 | 71-135 | 2 | 0-20 | |
| Vinyl Chloride | 73 | 74 | 72-132 | 62-142 | 2 | 0-20 | |
| Methyl-t-Butyl Ether (MTBE) | 83 | 84 | 69-123 | 60-132 | 1 | 0-20 | |
| Tert-Butyl Alcohol (TBA) | 109 | 144 | 63-123 | 53-133 | 28 | 0-20 | Х |
| Diisopropyl Ether (DIPE) | 83 | 85 | 59-137 | 46-150 | 2 | 0-37 | |
| Ethyl-t-Butyl Ether (ETBE) | 74 | 76 | 69-123 | 60-132 | 4 | 0-20 | |
| Tert-Amyl-Methyl Ether (TAME) | 85 | 86 | 70-120 | 62-128 | 1 | 0-20 | |
| Ethanol | 122 | 157 | 28-160 | 6-182 | 25 | 0-57 | |

Total number of LCS compounds: 16 Total number of ME compounds: 0 Total number of ME compounds allowed: 1 LCS ME CL validation result : Pass

RPD - Relative Percent Difference .

CL - Control Limit



X: LCS/LCS Duplicate RPD was out of control (above the upper control limit). The spike and spike duplicate were within control limits and, therefore, the sample data was reported without further clarification.

X: The percent recovery is above acceptable control limits. The samples and method blank associated with this batch are nondetect, and therefore, the results have been reported without further clarification.



Glossary of Terms and Qualifiers



Work Order Number: 09-07-1856

| Qualifier | <u>Definition</u> |
|-----------|---|
| * | See applicable analysis comment. |
| 1 | Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification. |
| 2 | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification. |
| 3 | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification. |
| 4 | The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification. |
| 5 | The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required. |
| Α | Result is the average of all dilutions, as defined by the method. |
| В | Analyte was present in the associated method blank. |
| С | Analyte presence was not confirmed on primary column. |
| E | Concentration exceeds the calibration range. |
| I | Compound did not meet method-described identification guidelines. Identification was based on additional GC/MS characteristics. |
| J | Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated. |
| ND | Parameter not detected at the indicated reporting limit. |
| Q | Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. |
| Χ | % Recovery and/or RPD out-of-range. |
| Z | Analyte presence was not confirmed by second column or GC/MS analysis. |
| | Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. |



7440 LINCOLN WAY **GARDEN GROVE, CA 92841-1432**

TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE:

| PAGE: | i o | F | 1 |
|-------|-----|---|---|

| | RATORY CLIENT: OnMobil c/o ETIC Eng | ineerina | | | | | CLIE | NT PRO | NECLI | VAME / | NUMBER: | | | | | | | P.O. | NO.: | | | | T |
|---|--|------------------------|----------------|-----------|--|-----------|------------------|----------------------|---|------------------|---|------|------------|---------|--------|----------|----------|----------|--------|-----|--------|----------|-------------|
| ADDRESS: 2285 Morello Avenue | | | | | 04334, 2492 Castro Valley Blvd., Castro Valley, CA | | | | | | | Α | 4510815837 | | | | | | | | | | |
| CITY: | | | | | PROJECT CONTACT: Project Number: Erik Appel, ETIC Engineering TM04334.1.6 | | | | | | | 4.0 | QU | OTE NO. | : | | | | | | | | |
| | sant Hill, CA 94523 | | | | | | SAM | PLER(S |): (SIGI | NATUR | ic Eligi | neer | ing | | 1 IALO | 4334. | 1.0 | LAE | BUSEON | ILY | | | |
| TEL: | 602-4710 x21 | FAX: 925-602-4720 | | E-MAIL | | | Ì | fe | ~ | / | Uon | -61 | - | | | | | | Z | | 18 | .15 | 16 |
| | AROUND TIME | 323-002-4720 | • | see in | structio | วทร | | / _ | *************************************** | _/ | | | | | | | | | | | 1) — | | |
| | SAME DAY 🔲 24 HR | | X 50 | AYS 🔲 | 10 DA | YS | / | , | , | | | | REG | UES | TED | ANA | LYS | IS | | | | | |
| SPEC | AL REQUIREMENTS (ADDITIONAL (| COSTS MAY APPLY) | ·············· | | | | / | | | | . K | | | | | | <u> </u> | T | T | | | Т | \top |
| | RWQCB REPORTING | ARCHIVE SAMPLE | SUNTIL | / | / | | m) | EPA Method 8021B (M) | · · | 8 | DIPE, ETBE, TAME, A, and ethanol by EPA B | | | l | | | | | | | | | |
| | al instructions f file required, Global | ID #T0600404279 | | | | | 3015 | 0241 | 3015 | EPA Method 8260B | 표, E | | | | | | | Ì | | | | l | |
| | | ticeng.com & eticlabre | norts@et | icena cor | 'n | | рog | 8 po | 3 pot | poq | E # | | | | | | Ì | | | 1 | | İ | |
| * U | se Silica Gel Cleanu | o for TPH-d analysis | po.10@01 | | *' | | Met | Meth | Met | Met | and and | | | | | | | | | | | | |
| | • | • | | | | | EPA Method 8015B | PA | EPA Method 8015B | EPA | A 0 8 | - | | | | | | | | | | | |
| LAG | | LOCATION/ | SAME | PLING | <i>A</i> . | æ. | ā. | | à | Пby | 1,24 2d 82 | | | | | | | | | | - - | | |
| USE ONLY | SAMPLE ID | DESCRIPTION | DATE | TIME | Matrix | *Cont | TPH-g | BTEX by | TPH-d | MTBE | MTBE, TBA, DII EDB, 1,2-DCA, 4 Method 8260B | | | | | | | | | | | | |
| | MW1 | 9 | 21-09 | 6735 | Water | 8 | Х | Х | Х | Х | Х | | | | | | | | | | | | |
| 2 | MW2 | | J | 0805 | Water | 8 | Х | Х | Х | Х | Х | | | | | | | | | | | | |
| 3 | MW3 | | | 0835 | Water | 8 | Х | Х | Х | Х | Х | | | | | | | <u> </u> | | | | \top | |
| 4 | MW4 | | | 1020 | Water | 8 | Х | Х | Х | Х | Х | | | | | | | | | | | | |
| 5 | MW5 | | 7 | 0915 | Water | 8 | Х | Х | X | Х | х | | | | | | | | | | | 十 | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | \top | |
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| | | | | | | | | | | | | | | | | | | | | | | \top | |
| | | | | | | | | | | | | | | | | | 1 | | | | \top | 1 | |
| Reling | uished by: (Signature) | - Morabl | 07-2 | 109 12 | Receive | d by: (S | Signatu | re) | i | | وسسر | £ | | | l | | Date | | | + | ime: | کرح | |
| Belin | dished by: (Signature) | , | - | , 150 | for | - Q | 7 | US | 24 | <u> </u> | | | | | | | 17 | | 2/09 | | | <u> </u> | |
| | 700 | 680 7.230 | 99 1- | 130 | Receive | u sy; (\$ | oignatu | ire) | / | | | | | | | | Date | Ī | • | Ì | ime: | | |
| Relinquished by: (Signature) Received by: | | | | d by: (S | Signature) Dat | | | | | | | Date | e:, Time: | | | | | | | | | | |
| | 5123 | 01783 | | | *************************************** | | | | | | | | -/ | YI JE | TU | <u>a</u> | 1 // | 421 | U-1 | | ,00 | <u>~</u> | 2 0 0 |



WORK ORDER #: **09-07-** [1] Page 22 of 22

SAMPLE RECEIPT FORM

Cooler 1 of 1

| CLIENT: FTIC | DATE: | 07/2 | 3/09 |
|--|----------------------|------------|------------------|
| TEMPERATURE: (Criteria: 0.0 °C − 6.0 °C, not frozen) Temperature 2 • ²/ °C − 0.2 °C (CF) = 2 • 2 °C □ Sample(s) outside temperature criteria (PM/APM contacted by:). □ Sample(s) outside temperature criteria but received on ice/chilled on same | ☑ Blank day of sampl | □ Samp | ole |
| ☐ Received at ambient temperature, placed on ice for transport by C | | <u> </u> | |
| Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs | | Initia | al: <u></u> |
| CUSTODY SEALS INTACT: □ Cooler □ □ No (Not Intact) □ Not Presen □ Sample □ □ No (Not Intact) □ Not Presen | | | ial: ial: |
| SAMPLE CONDITION: | Yes | No | N/A |
| Chain-Of-Custody (COC) document(s) received with samples | | | |
| COC document(s) received complete | | | |
| ☐ Collection date/time, matrix, and/or # of containers logged in based on sample labe | ds. | | |
| ☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished. | | | |
| Sampler's name indicated on COC | Z | | |
| Sample container label(s) consistent with COC | 🗾 | | |
| Sample container(s) intact and good condition | | | |
| Correct containers and volume for analyses requested | 🗗 | | |
| Analyses received within holding time | 🔎 | | |
| Proper preservation noted on COC or sample container | 🗹 | | |
| ☐ Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace | 4 | | |
| Tedlar bag(s) free of condensation | 🗆 | | |
| CONTAINER TYPE: | | | |
| Solid: □4ozCGJ □8ozCGJ □16ozCGJ □Sleeve □EnCores® | □TerraCor | es® □ | |
| Water: □VOA ☑VOAh □VOAna₂ □125AGB □125AGBh □125AGB | Bp □1AGB | □1AGBna | ₂ □1AGB s |
| □500AGB Ø500AGJ □500AGJs □250AGB □250CGB □250CGI | | | |
| □250PB □250PBn □125PB □125PB z nna □100PJ □100PJna₂ □_ | | Ε | |
| Air: □Tedlar [®] □Summa [®] □ Other: □ | | | 00 |
| Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag | E: Envelop | Reviewed b | y: <u> </u> |
| Preservative: b: HCL n: HNO3 na::Na:S:O2 Na: NaOH p: H2PO4 5: H2SO4 znna: ZnAc2+NaOl | H f: Field-filtered | Scanned r | oγ: 'Υ' |