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Jennifer C. Sedlachek  
Project Manager

**RECEIVED**

By dehloptoxic at 8:58 am, Jul 03, 2006

**ExxonMobil**  
Refining & Supply

June 30, 2006

Mr. Barney Chan  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway  
Alameda, CA 94501-6577

Subject: Former Exxon RAS #7-0210, 7840 Amador Valley Boulevard, Dublin, California

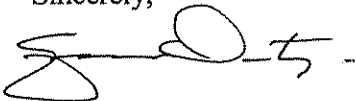
Dear Mr. Chan:

Attached for your review and comment is a copy of the *Report of Groundwater Monitoring, Second Quarter 2006* for the above-referenced site. The report, prepared by ETIC Engineering, Inc. of Pleasant Hill, California, details the results of the May 2006 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,



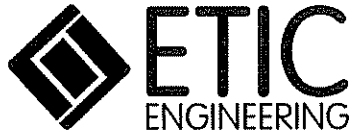
JCS  
Jennifer C. Sedlachek  
Project Manager

Attachment: ETIC Groundwater Monitoring Report dated June 2006

- c: w/ attachment:  
Mr. Robert Ehlers - Valero Energy Corporation
  
- c: w/o attachment:  
Ms. Christa Marting - ETIC Engineering, Inc.

**RECEIVED**

By dehloptoxic at 8:58 am, Jul 03, 2006



**Report of Groundwater Monitoring  
Second Quarter 2006**

**Former Exxon Retail Site 7-0210  
7840 Amador Valley Boulevard  
Dublin, California**

Prepared for

ExxonMobil Oil Corporation  
4096 Piedmont Avenue #194  
Oakland, California 94611

Prepared by

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

*Ted Moise*

*6/29/06*

Ted Moise  
Senior Project Manager

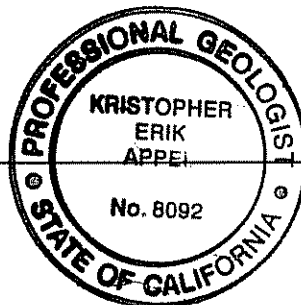
Date

*K. Erik Appel*

K. Erik Appel, P.G. #8092  
Senior Project Geologist

*6/29/06*

Date



June 2006

## SITE CONTACTS

Station Number: Former Exxon Retail Site 7-0210

Station Address: 7840 Amador Valley Boulevard  
Dublin, California

ExxonMobil Project Manager: Jennifer C. Sedlachek  
ExxonMobil Refining and Supply Company  
4096 Piedmont Avenue #194  
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(510) 547-8196

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

ETIC Project Manager: Ted Moise

Regulatory Oversight: Barney Chan  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway  
Alameda, California 94501-6577  
(510) 567-6700

## INTRODUCTION

At the request of ExxonMobil Oil Corporation, ETIC Engineering, Inc. has prepared this quarterly groundwater monitoring report for former Exxon Retail Site 7-0210. 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 6 February 2006, the date of the last monitoring event, until 3 May 2006, 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

|                                  |   |
|----------------------------------|---|
| <b>Site name:</b>                | Former Exxon Retail Site 7-0210                               |
| <b>Site address:</b>             | 7840 Amador Valley Boulevard, Dublin, California              |
| <b>Current property owner:</b>   | Dublin Valero, Inc.   |
| <b>Current site use:</b>         | Active Valero-branded station operated by Dublin Valero, Inc. |
| <b>Current phase of project:</b> | Groundwater monitoring  |
| <b>Tanks at site:</b>            | Three underground storage tanks (gasoline)                    |
| <b>Number of wells:</b>          | 3 (all onsite)  |

## GROUNDWATER MONITORING SUMMARY

|                                    |   |
|------------------------------------|---|
| <b>Gauging and sampling date:</b>  | 3 May 2006  |
| <b>Wells gauged and sampled:</b>   | MW5-MW7   |
| <b>Wells gauged only:</b>          | None  |
| <b>Groundwater flow direction:</b> | Southeast   |
| <b>Groundwater gradient:</b>       | 0.005   |
| <b>Well screens submerged:</b>     | MW5-MW7   |
| <b>Well screens not submerged:</b> | None  |
| <b>Liquid-phase hydrocarbons:</b>  | Not observed or detected                                      |
| <b>Laboratory:</b>                 | Sequoia Analytical/TestAmerica, Inc., Morgan Hill, California |

### Analyses performed:

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

## **ADDITIONAL ACTIVITIES PERFORMED AT SITE**

No additional activities were performed at the site.

## **WORK PROPOSED FOR NEXT QUARTER**

Groundwater will be monitored in accordance with the attached groundwater monitoring plan. A case closure request will be submitted to the Alameda County Health Care Services Agency.

### Attachments:

Figure 1: Site Plan Showing Groundwater Elevations and Analytical Results

Table 1: Well Construction Details

Table 2: Groundwater Monitoring Data

Table 3: Groundwater Monitoring Plan

Appendix A: Field Protocols

Appendix B: Field Documents

Appendix C: Laboratory Analytical Reports

## **Figures**



Groundwater  
Flow Direction  
Gradient = 0.005

AMADOR VALLEY BLVD.

|              |       |
|--------------|-------|
| Benzene      | <0.50 |
| Toluene      | <0.50 |
| Ethylbenzene | <0.50 |
| Xylenes      | <0.50 |
| TPH-g        | <50.0 |
| TPH-d        | <47   |
| MTBE(8260)   | <1.00 |

Underground Vault  
Fire Hydrant

Electrical Christy Box

7-0210-1

MW7  
(343.42)

B2

PUMP ISLANDS

TANK FIELD

SB1

MW1

MW5  
(343.51)

B1

STATION BUILDING

7-0210-2

MW6  
(343.14)

MW2

REGIONAL STREET

|              |       |
|--------------|-------|
| Benzene      | <0.50 |
| Toluene      | <0.50 |
| Ethylbenzene | <0.50 |
| Xylenes      | <0.50 |
| TPH-g        | <50.0 |
| TPH-d        | <47   |
| MTBE(8260)   | 10.3  |

PG&E Christy Box

Underground Vault

|              |       |
|--------------|-------|
| Benzene      | <0.50 |
| Toluene      | <0.50 |
| Ethylbenzene | <0.50 |
| Xylenes      | <0.50 |
| TPH-g        | <50.0 |
| TPH-d        | <47   |
| MTBE(8260)   | 5.52  |

**LEGEND**



GROUNDWATER MONITORING WELL LOCATION



SOIL BORING / GROUNDWATER SAMPLING LOCATION



DESTROYED GROUNDWATER MONITORING WELL

(343.51) GROUNDWATER ELEVATION (FEET)

TPH-g TOTAL PETROLEUM HYDROCARBONS AS GASOLINE

TPH-d TOTAL PETROLEUM HYDROCARBONS AS DIESEL

MTBE METHYL T-BUTYL ETHER



Scale (feet)

CONCENTRATIONS IN MICROGRAMS PER LITER (ug/L)

FILENAME: 202006.DWG 05/31/06



SITE PLAN SHOWING GROUNDWATER ELEVATIONS  
AND ANALYTICAL RESULTS  
FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BLVD., DUBLIN, CA.  
3 MAY 2006

FIGURE:

**1**

## **Tables**



TABLE 1 WELL CONSTRUCTION DETAILS, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, 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 | 04/14/92               | 96.32                | PVC             | 26.5               | 24.75             | 10.25                      | 4                        | 11-24                    | 0.010              | 10-25                       | --                   |
| MW2         | a | 05/13/92               | 95.91                | PVC             | 26                 | 25                | 10.25                      | 4                        | 10-25                    | 0.010              | 9.5-26                      | --                   |
| MW3         | a | 05/14/92               | 97.95                | PVC             | 28                 | 27.75             | 10.25                      | 4                        | 12.5-27.5                | 0.010              | 11-28                       | --                   |
| MW4         | a | 05/14/92               | 96.69                | PVC             | 26.5               | 25                | 10.25                      | 4                        | 12-25                    | 0.010              | 11-26                       | --                   |
| MW5         | b | 11/15/00               | 352.95               | PVC             | 25                 | 25                | 8.25                       | 2                        | 10-25                    | 0.020              | 7-25                        | #3 sand              |
| MW6         | b | 11/14/00               | 352.69               | PVC             | 27                 | 25                | 8.25                       | 2                        | 10-25                    | 0.020              | 8-27                        | #3 sand              |
| MW7         | b | 11/14/00               | 351.87               | PVC             | 26                 | 25                | 8.25                       | 2                        | 10-25                    | 0.020              | 7-25                        | #3 sand              |

a Well was destroyed April 1996.  
 b Elevation is based on the Alameda Benchmark AM-STW. Elevation = 344.17 feet.  
 PVC Polyvinyl chloride.  
 TOC Top of casing.  
 -- Information not available.

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

| Well Number | Date                       | Casing Elevation (feet) | Depth to Water (feet) | Groundwater Elevation (feet) | LPH Thickness (feet) | Concentration (µg/L) |         |               |               |       |       |      |         |
|-------------|----------------------------|-------------------------|-----------------------|------------------------------|----------------------|----------------------|---------|---------------|---------------|-------|-------|------|---------|
|             |                            |                         |                       |                              |                      | Benzene              | Toluene | Ethyl-benzene | Total Xylenes | TPH-g | TPH-d | MTBE | Ethanol |
| MW1         | 05/21/92                   | 96.32                   | 14.45                 | 81.87                        | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | <50   |       | NA   |         |
| MW1         | 02/10/93                   | 96.32                   | 12.22                 | 84.10                        | 0.00                 | 3.1                  | <0.5    | 1.8           | 0.6           | 2,600 |       | NA   |         |
| MW1         | 05/20/93                   | 96.32                   | 10.74                 | 85.58                        | 0.00                 | 1.9                  | <0.5    | 1.8           | <1.0          | 1,000 |       | NA   |         |
| MW1         | 06/23/93                   | 96.32                   | 11.74                 | 84.58                        | 0.00                 | 1.0                  | <0.5    | 1.2           | <0.5          | 1,300 |       | NA   |         |
| MW1         | 08/23/93                   | 96.32                   | 12.72                 | 83.60                        | 0.00                 | <0.5                 | <0.5    | <0.5          | 0.8           | 80    |       | NA   |         |
| MW1         | 10/25/93                   | 96.32                   | 13.99                 | 82.33                        | 0.00                 | <0.5                 | <0.5    | 0.8           | 1.3           | 140   |       | NA   |         |
| MW1         | 02/16/94                   | 96.32                   | 14.90                 | 81.42                        | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | <50   |       | NA   |         |
| MW1         | 04/16/94                   | 96.32                   | 14.49                 | 81.83                        | 0.00                 | <0.5 <sup>b</sup>    | <0.5    | <0.5          | <0.5          | 190   |       | NA   |         |
| MW1         | 07/26/94                   | 96.32                   | 15.11                 | 81.21                        | 0.00                 | <0.5 <sup>b</sup>    | <0.5    | <0.5          | <0.5          | 130   |       | NA   |         |
| MW1         | 10/05/94                   | 96.32                   | 15.69                 | 80.63                        | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | <50   |       | NA   |         |
| MW1         | 01/04/95                   | 96.32                   | 14.66                 | 81.66                        | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | <50   |       | NA   |         |
| MW1         | 06/12/95                   | 96.32                   | 10.08                 | 86.24                        | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | <50   |       | 230  |         |
| MW1         | Well destroyed April 1996. |                         |                       |                              |                      |                      |         |               |               |       |       |      |         |
| MW2         | 05/21/92                   | 95.91                   | 14.30                 | 81.61                        | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | <50   |       | NA   |         |
| MW2         | 02/10/93                   | 95.91                   | 12.34                 | 83.57                        | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | <50   |       | NA   |         |
| MW2         | 05/20/93                   | 95.91                   | 10.73                 | 85.18                        | 0.00                 | <0.5                 | <0.5    | <0.5          | <1.0          | 320   |       | NA   |         |
| MW2         | 06/23/93                   | 95.91                   | 11.74                 | 84.17                        | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | 130   |       | NA   |         |
| MW2         | 08/23/93                   | 95.91                   | 12.60                 | 83.31                        | 0.00                 | <0.5                 | <0.5    | <0.5          | 1.1           | 140   |       | NA   |         |
| MW2         | 10/25/93                   | 95.91                   | 13.86                 | 82.05                        | 0.00                 | <0.5                 | <0.5    | 0.5           | 2.4           | 75    |       | NA   |         |
| MW2         | 02/16/94                   | 95.91                   | 14.73                 | 81.18                        | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | <50   |       | NA   |         |
| MW2         | 04/16/94                   | 95.91                   | 14.33                 | 81.58                        | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | <50   |       | NA   |         |
| MW2         | 07/26/94                   | 95.91                   | 14.96                 | 80.95                        | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | <50   |       | NA   |         |
| MW2         | 10/05/94                   | 95.91                   | 15.49                 | 80.42                        | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | <50   |       | NA   |         |
| MW2         | 01/04/95                   | 95.91                   | 14.44                 | 81.47                        | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | <50   |       | NA   |         |
| MW2         | 06/12/95                   | 95.91                   | 10.10                 | 85.81                        | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | <50   |       | 59   |         |

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

| Well Number | Date                       | Casing Elevation (feet) | Depth to Water (feet) | Groundwater Elevation (feet) | LPH Thickness (feet) | Concentration (µg/L) |         |               |               |       |       |      |
|-------------|----------------------------|-------------------------|-----------------------|------------------------------|----------------------|----------------------|---------|---------------|---------------|-------|-------|------|
|             |                            |                         |                       |                              |                      | Benzene              | Toluene | Ethyl-benzene | Total Xylenes | TPH-g | TPH-d | MTBE |
| MW2         | Well destroyed April 1996. |                         |                       |                              |                      |                      |         |               |               |       |       |      |
| MW3         | 05/21/92                   | 97.95                   | 16.05                 | 81.90                        | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | <50   |       | NA   |
| MW3         | 02/10/93                   | 97.95                   | 13.77                 | 84.18                        | 0.00                 | <0.5                 | <0.5    | <0.5          | 0.7           | <50   |       | NA   |
| MW3         | 05/20/93                   | 97.95                   | 12.32                 | 85.63                        | 0.00                 | <0.5                 | <0.5    | <0.5          | <1.0          | <50   |       | NA   |
| MW3         | 06/23/93                   | 97.95                   | 13.34                 | 84.61                        | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | <50   |       | NA   |
| MW3         | 08/23/93                   | 97.95                   | 14.30                 | 83.65                        | 0.00                 | 2.3                  | 1.2     | 1.4           | 4.1           | <50   |       | NA   |
| MW3         | 10/25/93                   | 97.95                   | 15.62                 | 82.33                        | 0.00                 | NS                   | NS      | NS            | NS            | NS    |       | NS   |
| MW3         | 02/16/94                   | 97.95                   | 16.48                 | 81.47                        | 0.00                 | NS                   | NS      | NS            | NS            | NS    |       | NS   |
| MW3         | 04/16/94                   | 97.95                   | 16.61                 | 81.34                        | 0.00                 | NS                   | NS      | NS            | NS            | NS    |       | NS   |
| MW3         | 07/26/94                   | 97.95                   | 16.72                 | 81.23                        | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | <50   |       | NA   |
| MW3         | 10/05/94                   | 97.95                   | 17.33                 | 80.62                        | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | <50   |       | NA   |
| MW3         | 01/04/95                   | 97.95                   | 16.29                 | 81.66                        | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | <50   |       | NA   |
| MW3         | 06/12/95                   | 97.95                   | 11.67                 | 86.28                        | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | <50   |       | <2.5 |
| MW3         | Well destroyed April 1996. |                         |                       |                              |                      |                      |         |               |               |       |       |      |
| MW4         | 05/21/92                   | 96.69                   | 14.59                 | 82.10                        | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | <50   |       | NA   |
| MW4         | 02/10/93                   | 96.69                   | 12.30                 | 84.39                        | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | <50   |       | NA   |
| MW4         | 05/20/93                   | 96.69                   | 10.75                 | 85.94                        | 0.00                 | 1.4                  | 1.0     | <0.5          | 1.8           | <50   |       | NA   |
| MW4         | 06/23/93                   | 96.69                   | 11.78                 | 84.91                        | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | <50   |       | NA   |
| MW4         | 08/23/93                   | 96.69                   | 12.82                 | 83.87                        | 0.00                 | <0.5                 | <0.5    | <0.5          | 0.8           | <50   |       | NA   |
| MW4         | 10/25/93                   | 96.69                   | 14.10                 | 82.59                        | 0.00                 | NS                   | NS      | NS            | NS            | NS    |       | NS   |
| MW4         | 02/16/94                   | 96.69                   | 15.02                 | 81.67                        | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | <50   |       | NA   |
| MW4         | 04/16/94                   | 96.69                   | 14.61                 | 82.08                        | 0.00                 | NS                   | NS      | NS            | NS            | NS    |       | NS   |
| MW4         | 07/26/94                   | 96.69                   | 15.23                 | 81.46                        | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | <50   |       | NA   |
| MW4         | 10/05/94                   | 96.69                   | 15.85                 | 80.84                        | 0.00                 | <0.5                 | 12      | <0.5          | <0.5          | <50   |       | NA   |

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

| Well Number | Date     | Casing Elevation (feet)                                     | Depth to Water (feet)      | Groundwater Elevation (feet) | LPH Thickness (feet) | Concentration (µg/L) |         |               |               |       |       |                    | Other Oxygenates and Additives |         |
|-------------|----------|---|----------------------------|------------------------------|----------------------|----------------------|---------|---------------|---------------|-------|-------|--------------------|--------------------------------|---------|
|             |          |   |                            |                              |                      | Benzene              | Toluene | Ethyl-benzene | Total Xylenes | TPH-g | TPH-d | MTBE               |                                | Ethanol |
| MW4         | 01/04/95 | 96.69   | 14.84                      | 81.85                        | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | <50   |       | NA                 |                                |         |
| MW4         | 06/12/95 | 96.69   | 10.07                      | 86.62                        | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | <50   |       | <2.5               |                                |         |
| MW4         |          |   | Well destroyed April 1996. |                              |                      |                      |         |               |               |       |       |                    |                                |         |
| MW5         | 06/15/00 | STATION OPERATIONS TRANSFERRED TO VALERO ENERGY CORPORATION |                            |                              |                      |                      |         |               |               |       |       |                    |                                |         |
| MW5         | 11/17/00 | 352.93  | 13.51                      | 339.42                       | 0.00                 | <0.5                 | <0.5    | <0.5          | 2.46          | 240   |       | 1,500              |                                |         |
| MW5         | 11/17/00 | 352.93  |                            |                              |                      |                      |         |               |               |       |       | 1,600 <sup>a</sup> |                                |         |
| MW5         | 02/02/01 | 352.93  | 13.81                      | 339.12                       | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | 110   |       | 1,400              |                                |         |
| MW5         | 02/02/01 | 352.93  |                            |                              |                      |                      |         |               |               |       |       | 1,200 <sup>a</sup> |                                |         |
| MW5         | 05/09/01 | 352.93  | 12.20                      | 340.73                       | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | <50   |       | 770 <sup>a</sup>   | ND <sup>c</sup>                |         |
| MW5         | 09/12/01 | 352.93  | 13.84                      | 339.09                       | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | 100   |       | 760                | NA                             |         |
| MW5         | 09/12/01 | 352.93  |                            |                              |                      |                      |         |               |               |       |       | 800 <sup>a</sup>   |                                |         |
| MW5         | 11/05/01 | 352.95  | 14.14                      | 338.81                       | 0.00                 | <0.5                 | <0.5    | <0.5          | 0.61          | 70    | 86    | 510                | NA                             |         |
| MW5         | 11/05/01 | 352.95  |                            |                              |                      |                      |         |               |               |       |       | 420 <sup>a</sup>   |                                |         |
| MW5         | 02/04/02 | 352.95  | 11.85                      | 341.10                       | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | 381   | d     | <50                | 630                            | NA      |
| MW5         | 02/04/02 | 352.95  |                            |                              |                      |                      |         |               |               |       |       | 525 <sup>a</sup>   |                                |         |
| MW5         | 04/26/02 | 352.95  | 11.75                      | 341.20                       | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | 322   | d     | <50                | 378                            | NA      |
| MW5         | 04/26/02 | 352.95  |                            |                              |                      |                      |         |               |               |       |       | 312 <sup>a</sup>   |                                |         |
| MW5         | 07/30/02 | 352.95  | 12.87                      | 340.08                       | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | 97.8  | d     | <50                | 126                            | NA      |
| MW5         | 07/30/02 | 352.95  |                            |                              |                      |                      |         |               |               |       |       | 132 <sup>a</sup>   |                                |         |
| MW5         | 11/05/02 | 352.95  | 14.13                      | 338.82                       | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | 74.2  | d     | <50                | 80.0                           | NA      |
| MW5         | 11/05/02 | 352.95  |                            |                              |                      |                      |         |               |               |       |       | 96.4 <sup>a</sup>  |                                |         |
| MW5         | 01/24/03 | 352.95  | 11.23                      | 341.72                       | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | 542   | d     | 70                 | 678                            | NA      |
| MW5         | 01/24/03 | 352.95  |                            |                              |                      |                      |         |               |               |       |       | 509 <sup>a</sup>   |                                |         |
| MW5         | 04/24/03 | 352.95  | 10.79                      | 342.16                       | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | 384   | d     | <50                | 522                            | NA      |
| MW5         | 04/24/03 | 352.95  |                            |                              |                      |                      |         |               |               |       |       | 498 <sup>a</sup>   |                                |         |

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

| Well Number | Date            | Casing Elevation (feet)                                     | Depth to Water (feet) | Groundwater Elevation (feet) | LPH Thickness (feet) | Concentration (µg/L) |                 |                 |                 |                 |          |                 |                         | Other Oxygenates and Additives |                       |
|-------------|-----------------|---|-----------------------|------------------------------|----------------------|----------------------|-----------------|-----------------|-----------------|-----------------|----------|-----------------|-------------------------|--------------------------------|-----------------------|
|             |                 |   |                       |                              |                      | Benzene              | Toluene         | Ethyl-benzene   | Total Xylenes   | TPH-g           | TPH-d    | MTBE            | Ethanol                 |                                |                       |
| MW5         | 08/05/03        | 352.95  | 12.24                 | 340.71                       | 0.00                 | <0.5                 | 1.6             | <0.5            | 1.3             | 282             | d        | <50             | 560                     | NA                             |                       |
| MW5         | 08/05/03        | 352.95  |                       |                              |                      |                      |                 |                 |                 |                 |          |                 | 428 <sup>a</sup>        |                                |                       |
| MW5         | 10/17/03        | 352.95  | 13.64                 | 339.31                       | 0.00                 | <0.5                 | 1.6             | <0.5            | 0.9             | 229             | d        | <50             | 284                     | NA                             |                       |
| MW5         | 10/17/03        | 352.95  |                       |                              |                      |                      |                 |                 |                 |                 |          |                 | 272 <sup>a</sup>        |                                |                       |
| MW5         | 01/28/04        | 352.95  | 12.41                 | 340.54                       | 0.00                 | <0.5                 | 0.9             | <0.5            | 1.1             | 283             | d        | NA <sup>c</sup> | 485                     | NA                             |                       |
| MW5         | 01/28/04        | 352.95  |                       |                              |                      |                      |                 |                 |                 |                 |          |                 | 453 <sup>a</sup>        |                                |                       |
| MW5         | 04/16/04        | 352.95  | 11.67                 | 341.28                       | 0.00                 | <0.5                 | <0.5            | <0.5            | <0.5            | 163             | d        | <50             | 200 <sup>a</sup>        | <100 <sup>a</sup>              | NA                    |
| MW5         | 08/03/04        | 352.95  | 13.39                 | 339.56                       | 0.00                 | <0.5                 | <0.5            | <0.5            | 1.0             | 553             | d        | <50             | 92.8 <sup>a</sup>       | <100 <sup>a</sup>              | NA                    |
| MW5         | 11/04/04        | 352.95  | 13.17                 | 339.78                       | 0.00                 | <0.5                 | <0.5            | <0.5            | <0.5            | 117             | d        | <50             | 117 <sup>a</sup>        | <100 <sup>a</sup>              | ND <sup>c</sup>       |
| MW5         | 02/16/05        | 352.95  | 10.81                 | 342.14                       | 0.00                 | <0.50                | <0.5            | <0.5            | <0.5            | <50.0           | d        | <50             | 43.2 <sup>a</sup>       | <100 <sup>a</sup>              | NA                    |
| MW5         | 05/16/05        | 352.95  | 9.92                  | 343.03                       | 0.00                 | <0.5                 | <0.5            | <0.5            | <0.5            | <50             | d        | <50             | 29.5 <sup>a</sup>       | <100 <sup>a</sup>              | NA                    |
| MW5         | 08/17/05        | 352.95  | 11.84                 | 341.11                       | 0.00                 | <0.5                 | <0.5            | <0.5            | <0.5            | <50             | d        | <50             | 2.29 <sup>a</sup>       | <100 <sup>a</sup>              | NA                    |
| MW5         | 11/17/05        | 352.95  | 13.77                 | 339.18                       | 0.00                 | <0.5                 | <0.5            | <0.5            | 1.18            | 72.6            | d        | <50             | 1.02 <sup>a</sup>       | <50 <sup>a</sup>               | ND <sup>c</sup>       |
| MW5         | 02/06/06        | 352.95  | 11.73                 | 341.22                       | 0.00                 | <0.5                 | <0.5            | <0.5            | <0.5            | <50             | d        | <50             | 1.1 <sup>a</sup>        | NA                             | ND <sup>c</sup>       |
| <b>MW5</b>  | <b>05/03/06</b> | <b>352.95</b>   | <b>9.44</b>           | <b>343.51</b>                | <b>0.00</b>          | <b>&lt;0.50</b>      | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;50.0</b> | <b>d</b> | <b>&lt;47</b>   | <b>10.3<sup>a</sup></b> | <b>NA</b>                      | <b>ND<sup>c</sup></b> |
| MW6         | 06/15/00        | STATION OPERATIONS TRANSFERRED TO VALERO ENERGY CORPORATION |                       |                              |                      |                      |                 |                 |                 |                 |          |                 |                         |                                |                       |
| MW6         | 11/17/00        | 352.66  | 13.47                 | 339.19                       | 0.00                 | <0.5                 | <0.5            | <0.5            | <0.5            | <50             |          |                 | 270                     |                                |                       |
| MW6         | 11/17/00        | 352.66  |                       |                              |                      |                      |                 |                 |                 |                 |          |                 | 260 <sup>a</sup>        |                                |                       |
| MW6         | 02/02/01        | 352.66  | 13.79                 | 338.87                       | 0.00                 | <0.5                 | <0.5            | <0.5            | <0.5            | <50             |          |                 | 160                     |                                |                       |
| MW6         | 02/02/01        | 352.66  |                       |                              |                      |                      |                 |                 |                 |                 |          |                 | 130 <sup>a</sup>        |                                |                       |
| MW6         | 05/09/01        | 352.66  | 12.25                 | 340.41                       | 0.00                 | <0.5                 | <0.5            | <0.5            | <0.5            | <50             |          |                 | 760 <sup>a</sup>        | ND <sup>c</sup>                |                       |
| MW6         | 09/12/01        | 352.66  | 13.83                 | 338.83                       | 0.00                 | <0.5                 | <0.5            | <0.5            | <0.5            | <50             |          |                 | 680                     | NA                             |                       |
| MW6         | 09/12/01        | 352.66  |                       |                              |                      |                      |                 |                 |                 |                 |          |                 | 740 <sup>a</sup>        |                                |                       |
| MW6         | 11/05/01        | 352.69  | 14.11                 | 338.58                       | 0.00                 | <0.5                 | <0.5            | <0.5            | <0.5            | <50             | <50      |                 | 390                     | NA                             |                       |
| MW6         | 11/05/01        | 352.69  |                       |                              |                      |                      |                 |                 |                 |                 |          |                 | 320 <sup>a</sup>        |                                |                       |

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

| Well Number | Date     | Casing Elevation (feet) | Depth to Water (feet) | Groundwater Elevation (feet) | LPH Thickness (feet) | Concentration (µg/L) |         |               |               |       |       |      |                    | Other Oxygenates and Additives |                 |
|-------------|----------|-------------------------|-----------------------|------------------------------|----------------------|----------------------|---------|---------------|---------------|-------|-------|------|--------------------|--------------------------------|-----------------|
|             |          |                         |                       |                              |                      | Benzene              | Toluene | Ethyl-benzene | Total Xylenes | TPH-g | TPH-d | MTBE | Ethanol            |                                |                 |
| MW6         | 02/27/02 | 352.69                  | 11.77                 | 340.92                       | 0.00                 | <5.0                 | <5.0    | 8.00          | <5.0          | 1,380 | d     | NA   | 1,310              | NA                             | ND <sup>c</sup> |
| MW6         | 02/27/02 | 352.69                  |                       |                              |                      |                      |         |               |               |       |       |      | 1,410 <sup>a</sup> |                                |                 |
| MW6         | 04/26/02 | 352.69                  | 11.75                 | 340.94                       | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | 422   | d     | <50  | 482                | NA                             | NA              |
| MW6         | 04/26/02 | 352.69                  |                       |                              |                      |                      |         |               |               |       |       |      | 430 <sup>a</sup>   |                                |                 |
| MW6         | 07/30/02 | 352.69                  | 12.88                 | 339.81                       | 0.00                 | <2.5                 | <2.5    | <2.5          | <2.5          | 144   | d     | <50  | 166                | NA                             | NA              |
| MW6         | 07/30/02 | 352.69                  |                       |                              |                      |                      |         |               |               |       |       |      | 185 <sup>a</sup>   |                                |                 |
| MW6         | 11/05/02 | 352.69                  | 14.12                 | 338.57                       | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | 99.7  | d     | <50  | 114                | NA                             | NA              |
| MW6         | 11/05/02 | 352.69                  |                       |                              |                      |                      |         |               |               |       |       |      | 118 <sup>a</sup>   |                                |                 |
| MW6         | 01/24/03 | 352.69                  | 11.32                 | 341.37                       | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | 342   | d     | 84   | 388                | NA                             | NA              |
| MW6         | 01/24/03 | 352.69                  |                       |                              |                      |                      |         |               |               |       |       |      | 293 <sup>a</sup>   |                                |                 |
| MW6         | 04/24/03 | 352.69                  | 10.84                 | 341.85                       | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | 370   | d     | <50  | 509                | NA                             | NA              |
| MW6         | 04/24/03 | 352.69                  |                       |                              |                      |                      |         |               |               |       |       |      | 491 <sup>a</sup>   |                                |                 |
| MW6         | 08/05/03 | 352.69                  | 12.25                 | 340.44                       | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | 967   | d     | <50  | 1,240              | NA                             | NA              |
| MW6         | 08/05/03 | 352.69                  |                       |                              |                      |                      |         |               |               |       |       |      | 1,010 <sup>a</sup> |                                |                 |
| MW6         | 10/17/03 | 352.69                  | 13.63                 | 339.06                       | 0.00                 | <0.5                 | 1.2     | <0.5          | 0.5           | 476   | d     | <50  | 528                | NA                             | NA              |
| MW6         | 10/17/03 | 352.69                  |                       |                              |                      |                      |         |               |               |       |       |      | 535 <sup>a</sup>   |                                |                 |
| MW6         | 01/28/04 | 352.69                  | 12.40                 | 340.29                       | 0.00                 | <0.5                 | 0.8     | <0.5          | 0.9           | 154   | d     | <50  | 283                | NA                             | NA              |
| MW6         | 01/28/04 | 352.69                  |                       |                              |                      |                      |         |               |               |       |       |      | 244 <sup>a</sup>   |                                |                 |
| MW6         | 04/16/04 | 352.69                  | 11.68                 | 341.01                       | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | 219   | d     | <50  | 301 <sup>a</sup>   | <100 <sup>a</sup>              | NA              |
| MW6         | 08/03/04 | 352.69                  | 13.37                 | 339.32                       | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | 243   | d     | <50  | 62.3 <sup>a</sup>  | <100 <sup>a</sup>              | NA              |
| MW6         | 11/04/04 | 352.69                  | 13.13                 | 339.56                       | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | <50   | d     | <50  | 25.0 <sup>a</sup>  | <100 <sup>a</sup>              | ND <sup>c</sup> |
| MW6         | 02/16/05 | 352.69                  | 10.77                 | 341.92                       | 0.00                 | <0.50                | 0.8     | <0.5          | 1.4           | 53.5  | d     | <50  | 52.3 <sup>a</sup>  | <100 <sup>a</sup>              | NA              |
| MW6         | 05/16/05 | 352.69                  | 9.98                  | 342.71                       | 0.00                 | <0.5                 | <0.5    | <0.5          | 1.2           | 59.7  | d     | <50  | 30.1 <sup>a</sup>  | <100 <sup>a</sup>              | NA              |
| MW6         | 08/17/05 | 352.69                  | 11.84                 | 340.85                       | 0.00                 | <0.5                 | 0.574   | <0.5          | 0.843         | <50   | d     | <50  | 4.21 <sup>a</sup>  | <100 <sup>a</sup>              | NA              |
| MW6         | 11/17/05 | 352.69                  | 13.70                 | 338.99                       | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | <50   | d     | <50  | 1.45 <sup>a</sup>  | <50 <sup>a</sup>               | ND <sup>c</sup> |
| MW6         | 02/06/06 | 352.69                  | 11.75                 | 340.94                       | 0.00                 | <0.5                 | <0.5    | <0.5          | <0.5          | <50   | d     | <50  | 2.7 <sup>a</sup>   | NA                             | ND <sup>c</sup> |

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

| Well Number | Date     | Casing Elevation (feet)                                     | Depth to Water (feet) | Groundwater Elevation (feet) | LPH Thickness (feet) | Concentration (µg/L) |         |              |               |       |       |      |                    | Other Oxygenates and Additives |                 |
|-------------|----------|---|-----------------------|------------------------------|----------------------|----------------------|---------|--------------|---------------|-------|-------|------|--------------------|--------------------------------|-----------------|
|             |          |   |                       |                              |                      | Benzene              | Toluene | Ethylbenzene | Total Xylenes | TPH-g | TPH-d | MTBE | Ethanol            |                                |                 |
| MW6         | 05/03/06 | 352.69  | 9.55                  | 343.14                       | 0.00                 | <0.50                | <0.50   | <0.50        | <0.50         | <50.0 | d     | <47  | 5.52 <sup>a</sup>  | NA                             | ND <sup>c</sup> |
| MW7         | 06/15/00 | STATION OPERATIONS TRANSFERRED TO VALERO ENERGY CORPORATION |                       |                              |                      |                      |         |              |               |       |       |      |                    |                                |                 |
| MW7         | 11/17/00 | 351.86  | 12.44                 | 339.42                       | 0.00                 | <0.5                 | <0.5    | <0.5         | <0.5          | <50   |       |      | <0.5               |                                |                 |
| MW7         | 02/02/01 | 351.86  | 12.74                 | 339.12                       | 0.00                 | <0.5                 | <0.5    | <0.5         | <0.5          | <50   |       |      | <0.5               |                                |                 |
| MW7         | 05/09/01 | 351.86  | 11.15                 | 340.71                       | 0.00                 | <0.5                 | <0.5    | <0.5         | <0.5          | <50   |       |      | <5 <sup>a</sup>    |                                | ND <sup>c</sup> |
| MW7         | 09/12/01 | 351.86  | 12.74                 | 339.12                       | 0.00                 | <0.5                 | <0.5    | <0.5         | <0.5          | <50   |       |      | <0.5               |                                | NA              |
| MW7         | 11/05/01 | 351.87  | 13.07                 | 338.80                       | 0.00                 | <0.5                 | <0.5    | <0.5         | <0.5          | <50   |       | 50   | <0.5               |                                | NA              |
| MW7         | 02/04/02 | 351.87  | 10.79                 | 341.08                       | 0.00                 | <0.5                 | <0.5    | <0.5         | <0.5          | <50   | d     | <50  | 5.80               |                                | NA              |
| MW7         | 02/04/02 | 351.87  |                       |                              |                      |                      |         |              |               |       |       |      | 1.4 <sup>a</sup>   |                                |                 |
| MW7         | 04/26/02 | 351.87  | 10.65                 | 341.22                       | 0.00                 | <0.5                 | <0.5    | <0.5         | <0.5          | <50   | d     | <50  | 1.6                |                                | NA              |
| MW7         | 07/30/02 | 351.87  | 11.77                 | 340.10                       | 0.00                 | <0.5                 | <0.5    | <0.5         | <0.5          | <50   | d     | <50  | <0.5               |                                | NA              |
| MW7         | 11/05/02 | 351.87  | 13.04                 | 338.83                       | 0.00                 | <0.5                 | <0.5    | <0.5         | <0.5          | <50   | d     | <50  | <0.5               |                                | NA              |
| MW7         | 01/24/03 | 351.87  | 10.19                 | 341.68                       | 0.00                 | <0.5                 | <0.5    | <0.5         | <0.5          | <50   | d     | 106  | <0.5               |                                | NA              |
| MW7         | 04/24/03 | 351.87  | 9.76                  | 342.11                       | 0.00                 | <0.5                 | <0.5    | <0.5         | <0.5          | <50   | d     | <50  | <0.5               |                                | NA              |
| MW7         | 08/05/03 | 351.87  | 11.18                 | 340.69                       | 0.00                 | <0.5                 | 1.6     | <0.5         | <0.5          | <50   | d     | <50  | <0.5               |                                | NA              |
| MW7         | 10/17/03 | 351.87  | 12.54                 | 339.33                       | 0.00                 | <0.5                 | 1.7     | <0.5         | 0.9           | <50   | d     | <50  | <0.5               |                                | NA              |
| MW7         | 01/28/04 | 351.87  | 11.33                 | 340.54                       | 0.00                 | <0.5                 | 1.0     | <0.5         | 0.9           | <50   | d     | <50  | <0.5               |                                | NA              |
| MW7         | 04/16/04 | 351.87  | 10.57                 | 341.30                       | 0.00                 | <0.5                 | <0.5    | <0.5         | <0.5          | <50   | d     | <50  | <0.5 <sup>a</sup>  | <100 <sup>a</sup>              | NA              |
| MW7         | 08/03/04 | 351.87  | 12.30                 | 339.57                       | 0.00                 | <0.5                 | <0.5    | <0.5         | <0.5          | 94.0  | d     | <50  | <0.5 <sup>a</sup>  | <100 <sup>a</sup>              | NA              |
| MW7         | 11/04/04 | 351.87  | 12.08                 | 339.79                       | 0.00                 | <0.5                 | <0.5    | <0.5         | <0.5          | <50   | d     | <50  | <0.5 <sup>a</sup>  | <100 <sup>a</sup>              | ND <sup>c</sup> |
| MW7         | 02/16/05 | 351.87  | 9.73                  | 342.14                       | 0.00                 | <0.50                | <0.5    | <0.5         | <0.5          | <50.0 | d     | <50  | <0.50 <sup>a</sup> | <100 <sup>a</sup>              | NA              |
| MW7         | 05/16/05 | 351.87  | 8.87                  | 343.00                       | 0.00                 | <0.5                 | <0.5    | <0.5         | <0.5          | <50   | d     | <50  | <0.50 <sup>a</sup> | <100 <sup>a</sup>              | NA              |
| MW7         | 08/17/05 | 351.87  | 10.73                 | 341.14                       | 0.00                 | <0.5                 | <0.5    | <0.5         | 0.880         | <50   | d     | <50  | <0.50 <sup>a</sup> | <100 <sup>a</sup>              | NA              |
| MW7         | 11/17/05 | 351.87  | 12.63                 | 339.24                       | 0.00                 | <0.5                 | <0.5    | <0.5         | <0.5          | <50   | d     | <50  | <0.50 <sup>a</sup> | <50 <sup>a</sup>               | ND <sup>c</sup> |
| MW7         | 02/06/06 | 351.87  | 10.65                 | 341.22                       | 0.00                 | <0.5                 | <0.5    | <0.5         | <0.5          | <50   | d     | <50  | <0.50 <sup>a</sup> | NA                             | ND <sup>c</sup> |

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

| Well Number | Date     | Casing Elevation (feet) | Depth to Water (feet) | Groundwater Elevation (feet) | LPH Thickness (feet) | Concentration (µg/L) |         |               |               |         |       |                    |         |                                |
|-------------|----------|-------------------------|-----------------------|------------------------------|----------------------|----------------------|---------|---------------|---------------|---------|-------|--------------------|---------|--------------------------------|
|             |          |                         |                       |                              |                      | Benzene              | Toluene | Ethyl-benzene | Total Xylenes | TPH-g   | TPH-d | MTBE               | Ethanol | Other Oxygenates and Additives |
| MW7         | 05/03/06 | 351.87                  | 8.45                  | 343.42                       | 0.00                 | <0.50                | <0.50   | <0.50         | <0.50         | <50.0 d | <47   | <1.00 <sup>a</sup> | NA      | ND <sup>c</sup>                |

a Analysis by EPA Method 8260.

b A peak eluting earlier than benzene, suspected to be MTBE.

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

d TPH-g results beginning February 2002 include MTBE.

e Sample bottles broken in transit to laboratory.

LPH Liquid-phase hydrocarbons.

TPH-g Total Petroleum Hydrocarbons as gasoline.

TPH-d Total Petroleum Hydrocarbons as diesel.

MTBE Methyl tertiary butyl ether.

NA Not analyzed.

ND Not detected.

NS Not sampled.

µg/L Micrograms per liter.



TABLE 3 GROUNDWATER MONITORING PLAN,  
FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

| Well Number | Groundwater Gauging Frequency | Groundwater Sampling and Analysis Frequency |       |      |         |
|-------------|-------------------------------|---|-------|------|---------|
|             |                               | BTEX and TPH-g                              | TPH-d | MTBE | Ethanol |
| MW5         | Q                             | Q   | Q     | Q    | Q       |
| MW6         | Q                             | Q   | Q     | Q    | Q       |
| MW7         | Q                             | Q   | Q     | Q    | Q       |

Q = Quarterly.

BTEX = Benzene, toluene, ethylbenzene, total xylenes.

TPH-g = Total Petroleum Hydrocarbons as gasoline.

TPH-d = Total Petroleum Hydrocarbons as diesel.

MTBE = Methyl tertiary butyl ether.

**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**





Engineering, Inc.

**GROUNDWATER PURGE AND SAMPLE**

Project Name: Exxon 7-0210 Well No: MW5 Date: 05-03-06  
 Project No: UP0210.1 Personnel: ALV

**GAUGING DATA**

Water Level Measuring Method: WLM / IP 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) |
|-------------------------------|--------------------|-----------------------|---------------------|--------------------------------|------|------|------|---------------------|--------------------------|
|                               |                    | 24.32                 | 9.44                | 14.88                          | 1    | 2    | 4    | 6                   | 2.30                     |
|                               |                    |                       |                     | 0.04                           | 0.16 | 0.64 | 1.44 |                     |                          |

**PURGING DATA**

Purge Method: WATERRA / SUB / BAILER

| Time                | 0751        | 0753        | 0755        |  |  |  |
|---------------------|-------------|-------------|-------------|--|--|--|
| Volume Purge (gal)  | 2.5         | 5           | 7.5         |  |  |  |
| Temperature (C)     | 14.8        | 16.9        | 15.6        |  |  |  |
| pH                  | 6.72        | 6.97        | 7.00        |  |  |  |
| Spec. Cond. (umhos) | 1527        | 1170        | 1192        |  |  |  |
| Turbidity/Color     | SILTY / BRN | SILTY / BRN | SILTY / BRN |  |  |  |
| Odor (Y/N)          | N           | N           | N           |  |  |  |
| Dewatered (Y/N)     | N           | N           | N           |  |  |  |

Comments/Observations:

**SAMPLING DATA**

Time Sampled: 0805 Approximate Depth to Water During Sampling: 16.0 (feet)

Comments:

| Sample Number | Number of Containers | Container Type | Preservative | Volume Filled (mL or L) | Turbidity/ Color | Analysis Method   |
|---------------|----------------------|----------------|--------------|-------------------------|------------------|-------------------|
| MW5           | 6                    | Voa            | HCL          | 40 ml                   |                  | TPH-g, BTEX, MTBE |
| MW5           | 2                    | Amber          | HCL          | 1 L                     |                  | TPH-d             |
|               |                      |                |              |                         |                  |                   |

Total Purge Volume: 7.5 (gallons) Disposal: ROMIC

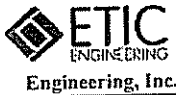
Weather Conditions: OK BOLTS Y / N

Condition of Well Box and Casing at Time of Sampling: OK BROKEN EAR LOCK & CAP Y / N

Well Head Conditions Requiring Correction: N GROUT Y / N

Problems Encountered During Purging and Sampling: N WELL BOX Y / N

Comments: WSECURED Y / N



Engineering, Inc.

### GROUNDWATER PURGE AND SAMPLE

Project Name: Exxon 7-0210 Well No: MWC Date: 05-03-06  
 Project No: UP0210.1 Personnel: Alex

**GAUGING DATA**  
 Water Level Measuring Method: WLM / IP 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) |
|-------------------------------|--------------------|-----------------------|---------------------|--------------------------------|------|------|------|---------------------|--------------------------|
|                               |                    | 24.77                 | 9.55                | 15.22                          | 1    | 2    | 4    | 6                   | 2.43                     |
|                               |                    |                       |                     | 0.04                           | 0.16 | 0.64 | 1.44 |                     |                          |

**PURGING DATA**  
 Purge Method: WATERRA / SUB / BAILER

| Time                | 0845      | 0847      | 0850      |  |  |
|---------------------|-----------|-----------|-----------|--|--|
| Volume Purge (gal)  | 2.5       | 5         | 7.5       |  |  |
| Temperature (C)     | 18.5      | 18.7      | 19.3      |  |  |
| pH                  | 6.59      | 6.87      | 6.99      |  |  |
| Spec. Cond. (umhos) | 1076      | 1054      | 1088      |  |  |
| Turbidity/Color     | Silty/BEN | Silty/BEN | Silty/BEN |  |  |
| Odor (Y/N)          | N         | N         | N         |  |  |
| Dewatered (Y/N)     | N         | N         | N         |  |  |

Comments/Observations:

**SAMPLING DATA**  
 Time Sampled: 0900 Approximate Depth to Water During Sampling: 10.0 (feet)

Comments:

| Sample Number | Number of Containers | Container Type | Preservative | Volume Filled (mL or L) | Turbidity/ Color | Analysis Method   |
|---------------|----------------------|----------------|--------------|-------------------------|------------------|-------------------|
| MWC           | 6                    | Voa            | HCL          | 40 ml                   | /                | TPH-g, BTEX, MTBE |
| MWC           | 2                    | Amber          | HCL          | 1 L                     | /                | TPH-d             |
|               |                      |                |              |                         | /                |                   |

Total Purge Volume: 7.5 (gallons) Disposal: ROMIC

Weather Conditions: OK BOLTS (Y) / N  
 Condition of Well Box and Casing at Time of Sampling: OK LOCK & CAP (Y) / N  
 Well Head Conditions Requiring Correction: N GROUT (Y) / N  
 Problems Encountered During Purging and Sampling: N WELL BOX (X) / N  
 Comments: WSECURED (Y) / N



Engineering, Inc.

**GROUNDWATER PURGE AND SAMPLE**

Project Name: Exxon 7-0210 Well No: MW7 Date: 05-03-06  
 Project No: UP0210.1 Personnel: AUF

**GAUGING DATA**

Water Level Measuring Method: WLM / IP 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) |
|-------------------------------|--------------------|---------------------------|---------------------|--------------------------------|-----------|-----------|-----------|---------------------|--------------------------|
|                               |                    | 23.73<br><del>24.27</del> | 8.45                | 14.32                          | 1<br>0.04 | 2<br>0.16 | 4<br>0.64 | 6<br>1.44           | 2.61                     |

**PURGING DATA**

Purge Method: WATERRA / SUB / BAILER

| Time                | 0819      | 0822      | 0825      |  |  |  |
|---------------------|-----------|-----------|-----------|--|--|--|
| Volume Purge (gal)  | 3         | 6         | 9         |  |  |  |
| Temperature (C)     | 18.4      | 18.3      | 18.8      |  |  |  |
| pH                  | 6.57      | 6.54      | 6.74      |  |  |  |
| Spec. Cond. (umhos) | 1177      | 1189      | 1180      |  |  |  |
| Turbidity/Color     | SILTY/BRN | SILTY/BRN | SILTY/BRN |  |  |  |
| Odor (Y/N)          | N         | N         | N         |  |  |  |
| Dewatered (Y/N)     | N         | N         | N         |  |  |  |

Comments/Observations:

**SAMPLING DATA**

Time Sampled: 0830 Approximate Depth to Water During Sampling: 9.0 (feet)

Comments:

| Sample Number | Number of Containers | Container Type | Preservative | Volume Filled (mL or L) | Turbidity/ Color | Analysis Method   |
|---------------|----------------------|----------------|--------------|-------------------------|------------------|-------------------|
| MW7           | 6                    | Voa            | HCL          | 40 ml                   | /                | TPH-g, BTEX, MTBE |
| MW7           | 2                    | Amber          | HCL          | 1 L                     | /                | TPH-d             |
|               |                      |                |              |                         | /                |                   |

Total Purge Volume: 9 (gallons) Disposal: ROMIC

Weather Conditions: OK BOLTS (Y) / N

Condition of Well Box and Casing at Time of Sampling: OK LOCK & CAP (Y) / N

Well Head Conditions Requiring Correction: N GROUT (Y) / N

Problems Encountered During Purging and Sampling: N WELL BOX (Y) / N

Comments: WSECURED (Y) / N



## **Appendix C**

### **Laboratory Analytical Reports**



24 May, 2006

Ted Moise  
ETIC Engineering Inc - Pleasant Hill (Exxon)  
2285 Morello Avenue  
Pleasant Hill, CA 94523

RE: Exxon 7-0210  
Work Order: MPE0259

Enclosed are the results of analyses for samples received by the laboratory on 05/03/06 19:15. The samples arrived at a temperature of 4° C. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Christina Dell  
Project Manager

CA ELAP Certificate #1210



ETIC Engineering Inc - Pleasant Hill (Exxon)  
2285 Morello Avenue  
Pleasant Hill CA, 94523

Project: Exxon 7-0210  
Project Number: 7-0210  
Project Manager: Ted Moise

MPE0259  
Reported:  
05/24/06 11:11

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------|---------------|--------|----------------|----------------|
| MW5       | MPE0259-01    | Water  | 05/03/06 08:05 | 05/03/06 19:15 |
| MW6       | MPE0259-02    | Water  | 05/03/06 09:00 | 05/03/06 19:15 |
| MW7       | MPE0259-03    | Water  | 05/03/06 08:30 | 05/03/06 19:15 |



ETIC Engineering Inc - Pleasant Hill (Exxon)  
2285 Morello Avenue  
Pleasant Hill CA, 94523

Project: Exxon 7-0210  
Project Number: 7-0210  
Project Manager: Ted Moise

MPE0259  
Reported:  
05/24/06 11:11

**Extractable Hydrocarbons by EPA 8015B  
Sequoia Analytical - Morgan Hill**

| Analyte  | Result | Reporting Limit | Units  | Dilution | Batch   | Prepared | Analyzed | Method            | Notes |
|--|--------|-----------------|--------|----------|---------|----------|----------|-------------------|-------|
| <b>MW5 (MPE0259-01) Water</b> Sampled: 05/03/06 08:05 Received: 05/03/06 19:15 |        |                 |        |          |         |          |          |                   |       |
| Diesel Range Organics (C10-C28)  | ND     | 47              | ug/l   | 1        | 6E10038 | 05/10/06 | 05/17/06 | EPA<br>8015B-SVOA |       |
| <i>Surrogate n-Octacosane</i>  |        | 81 %            | 30-115 |          | "       | "        | "        | "                 |       |
| <b>MW6 (MPE0259-02) Water</b> Sampled: 05/03/06 09:00 Received: 05/03/06 19:15 |        |                 |        |          |         |          |          |                   |       |
| Diesel Range Organics (C10-C28)  | ND     | 47              | ug/l   | 1        | 6E10038 | 05/10/06 | 05/17/06 | EPA<br>8015B-SVOA |       |
| <i>Surrogate n-Octacosane</i>  |        | 75 %            | 30-115 |          | "       | "        | "        | "                 |       |
| <b>MW7 (MPE0259-03) Water</b> Sampled: 05/03/06 08:30 Received: 05/03/06 19:15 |        |                 |        |          |         |          |          |                   |       |
| Diesel Range Organics (C10-C28)  | ND     | 47              | ug/l   | 1        | 6E10038 | 05/10/06 | 05/17/06 | EPA<br>8015B-SVOA |       |
| <i>Surrogate n-Octacosane</i>  |        | 76 %            | 30-115 |          | "       | "        | "        | "                 |       |

ETIC Engineering Inc - Pleasant Hill (Exxon)  
 2285 Morello Avenue  
 Pleasant Hill CA, 94523

 Project: Exxon 7-0210  
 Project Number: 7-0210  
 Project Manager: Ted Moise

 MPE0259  
 Reported:  
 05/24/06 11:11

**Volatile Organic Compounds by EPA Method 8021B**  
**TestAmerica Analytical - Nashville**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|--|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| <b>MW5 (MPE0259-01) Water</b> <b>Sampled: 05/03/06 08:05</b> <b>Received: 05/03/06 19:15</b> |        |                 |       |          |         |          |          |             |       |
| Benzene  | ND     | 0.50            | ug/L. | 1        | 6053746 | 05/18/06 | 05/19/06 | SW846 8021B | H1    |
| Ethylbenzene   | ND     | 0.50            | "     | "        | "       | "        | "        | "           | H1    |
| Toluene  | ND     | 0.50            | "     | "        | "       | "        | "        | "           | H1    |
| Xylenes, total   | ND     | 0.50            | "     | "        | "       | "        | "        | "           | H1    |
| <i>Surrogate a,a,a-Trifluorotoluene</i>  |        | 95 %            |       | 63-134   | "       | "        | "        | "           |       |
| <b>MW6 (MPE0259-02) Water</b> <b>Sampled: 05/03/06 09:00</b> <b>Received: 05/03/06 19:15</b> |        |                 |       |          |         |          |          |             |       |
| Benzene  | ND     | 0.50            | ug/L. | 1        | 6053746 | 05/18/06 | 05/19/06 | SW846 8021B | H1    |
| Ethylbenzene   | ND     | 0.50            | "     | "        | "       | "        | "        | "           | H1    |
| Toluene  | ND     | 0.50            | "     | "        | "       | "        | "        | "           | H1    |
| Xylenes, total   | ND     | 0.50            | "     | "        | "       | "        | "        | "           | H1    |
| <i>Surrogate a,a,a-Trifluorotoluene</i>  |        | 94 %            |       | 63-134   | "       | "        | "        | "           |       |
| <b>MW7 (MPE0259-03) Water</b> <b>Sampled: 05/03/06 08:30</b> <b>Received: 05/03/06 19:15</b> |        |                 |       |          |         |          |          |             |       |
| Benzene  | ND     | 0.50            | ug/L. | 1        | 6053746 | 05/18/06 | 05/19/06 | SW846 8021B | H1    |
| Ethylbenzene   | ND     | 0.50            | "     | "        | "       | "        | "        | "           | H1    |
| Toluene  | ND     | 0.50            | "     | "        | "       | "        | "        | "           | H1    |
| Xylenes, total   | ND     | 0.50            | "     | "        | "       | "        | "        | "           | H1    |
| <i>Surrogate a,a,a-Trifluorotoluene</i>  |        | 93 %            |       | 63-134   | "       | "        | "        | "           |       |



ETIC Engineering Inc - Pleasant Hill (Exxon)  
2285 Morello Avenue  
Pleasant Hill CA, 94523

Project: Exxon 7-0210  
Project Number: 7-0210  
Project Manager: Ted Moise

MPE0259  
Reported:  
05/24/06 11:11

**Purgeable Petroleum Hydrocarbons  
TestAmerica Analytical - Nashville**

| Analyte  | Result | Reporting Limit | Units  | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|--|--------|-----------------|--------|----------|---------|----------|----------|-------------|-------|
| <b>MW5 (MPE0259-01) Water</b> Sampled: 05/03/06 08:05 Received: 05/03/06 19:15 |        |                 |        |          |         |          |          |             |       |
| GRO as Gasoline  | ND     | 50.0            | ug/L   | 1        | 6053746 | 05/18/06 | 05/19/06 | SW846 8015B | H1    |
| Surrogate a,a,a-Trifluorotoluene   |        | 95 %            | 63-134 |          | "       | "        | "        | "           |       |
| <b>MW6 (MPE0259-02) Water</b> Sampled: 05/03/06 09:00 Received: 05/03/06 19:15 |        |                 |        |          |         |          |          |             |       |
| GRO as Gasoline  | ND     | 50.0            | ug/L   | 1        | 6053746 | 05/18/06 | 05/19/06 | SW846 8015B | H1    |
| Surrogate a,a,a-Trifluorotoluene   |        | 94 %            | 63-134 |          | "       | "        | "        | "           |       |
| <b>MW7 (MPE0259-03) Water</b> Sampled: 05/03/06 08:30 Received: 05/03/06 19:15 |        |                 |        |          |         |          |          |             |       |
| GRO as Gasoline  | ND     | 50.0            | ug/L   | 1        | 6053746 | 05/18/06 | 05/19/06 | SW846 8015B | H1    |
| Surrogate a,a,a-Trifluorotoluene   |        | 93 %            | 63-134 |          | "       | "        | "        | "           |       |

ETIC Engineering Inc - Pleasant Hill (Exxon)  
 2285 Morello Avenue  
 Pleasant Hill CA, 94523

 Project: Exxon 7-0210  
 Project Number: 7-0210  
 Project Manager: Ted Moise

 MPE0259  
 Reported:  
 05/24/06 11:11

**Volatile Organic Compounds by EPA Method 8260B**  
**TestAmerica Analytical - Nashville**

| Analyte  | Result      | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Note |
|--|-------------|-----------------|-------|----------|---------|----------|----------|-------------|------|
| <b>MW5 (MPE0259-01) Water</b> <b>Sampled: 05/03/06 08:05</b> <b>Received: 05/03/06 19:15</b> |             |                 |       |          |         |          |          |             |      |
| Tert-Amyl Methyl Ether   | ND          | 1.00            | ug/L  | 1        | 6052262 | 05/17/06 | 05/17/06 | SW846 8260B |      |
| 1,2-Dibromoethane (EDB)  | ND          | 1.00            | "     | "        | "       | "        | "        | "           |      |
| 1,2-Dichloroethane   | ND          | 1.00            | "     | "        | "       | "        | "        | "           |      |
| Ethyl tert-Butyl Ether   | ND          | 1.00            | "     | "        | "       | "        | "        | "           |      |
| Diisopropyl Ether  | ND          | 1.00            | "     | "        | "       | "        | "        | "           |      |
| <b>Methyl tert-Butyl Ether</b>   | <b>10.3</b> | 1.00            | "     | "        | "       | "        | "        | "           |      |
| Tertiary Butyl Alcohol   | ND          | 10.0            | "     | "        | "       | "        | "        | "           |      |
| <i>Surrogate 1,2-Dichloroethane-d4</i>   |             | 113 %           |       | 70-130   | "       | "        | "        | "           |      |
| <i>Surrogate Dibromofluoromethane</i>  |             | 110 %           |       | 79-122   | "       | "        | "        | "           |      |
| <i>Surrogate Toluene-d8</i>  |             | 95 %            |       | 78-121   | "       | "        | "        | "           |      |
| <i>Surrogate 4-Bromofluorobenzene</i>  |             | 100 %           |       | 78-126   | "       | "        | "        | "           |      |
| <b>MW6 (MPE0259-02) Water</b> <b>Sampled: 05/03/06 09:00</b> <b>Received: 05/03/06 19:15</b> |             |                 |       |          |         |          |          |             |      |
| Tert-Amyl Methyl Ether   | ND          | 1.00            | ug/L  | 1        | 6052262 | 05/17/06 | 05/17/06 | SW846 8260B |      |
| 1,2-Dibromoethane (EDB)  | ND          | 1.00            | "     | "        | "       | "        | "        | "           |      |
| 1,2-Dichloroethane   | ND          | 1.00            | "     | "        | "       | "        | "        | "           |      |
| Ethyl tert-Butyl Ether   | ND          | 1.00            | "     | "        | "       | "        | "        | "           |      |
| Diisopropyl Ether  | ND          | 1.00            | "     | "        | "       | "        | "        | "           |      |
| <b>Methyl tert-Butyl Ether</b>   | <b>5.52</b> | 1.00            | "     | "        | "       | "        | "        | "           |      |
| Tertiary Butyl Alcohol   | ND          | 10.0            | "     | "        | "       | "        | "        | "           |      |
| <i>Surrogate 1,2-Dichloroethane-d4</i>   |             | 99 %            |       | 70-130   | "       | "        | "        | "           |      |
| <i>Surrogate Dibromofluoromethane</i>  |             | 105 %           |       | 79-122   | "       | "        | "        | "           |      |
| <i>Surrogate Toluene-d8</i>  |             | 88 %            |       | 78-121   | "       | "        | "        | "           |      |
| <i>Surrogate 4-Bromofluorobenzene</i>  |             | 98 %            |       | 78-126   | "       | "        | "        | "           |      |

ETIC Engineering Inc - Pleasant Hill (Exxon)  
2285 Morello Avenue  
Pleasant Hill CA, 94523

Project: Exxon 7-0210  
Project Number: 7-0210  
Project Manager: Ted Moise

MPE0259  
Reported:  
05/24/06 11:11

**Volatile Organic Compounds by EPA Method 8260B  
TestAmerica Analytical - Nashville**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|--|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| <b>MW7 (MPE0259-03) Water    Sampled: 05/03/06 08:30    Received: 05/03/06 19:15</b> |        |                 |       |          |         |          |          |             |       |
| Tert-Amyl Methyl Ether   | ND     | 1.00            | ug/L. | 1        | 6052262 | 05/17/06 | 05/17/06 | SW846 8260B |       |
| 1,2-Dibromoethane (EDB)  | ND     | 1.00            | "     | "        | "       | "        | "        | "           |       |
| 1,2-Dichloroethane   | ND     | 1.00            | "     | "        | "       | "        | "        | "           |       |
| Ethyl tert-Butyl Ether   | ND     | 1.00            | "     | "        | "       | "        | "        | "           |       |
| Diisopropyl Ether  | ND     | 1.00            | "     | "        | "       | "        | "        | "           |       |
| Methyl tert-Butyl Ether  | ND     | 1.00            | "     | "        | "       | "        | "        | "           |       |
| Tertiary Butyl Alcohol   | ND     | 10.0            | "     | "        | "       | "        | "        | "           |       |
| <i>Surrogate 1,2-Dichloroethane-d4</i>   |        | 97 %            |       | 70-130   | "       | "        | "        | "           |       |
| <i>Surrogate Dibromofluoromethane</i>  |        | 104 %           |       | 79-122   | "       | "        | "        | "           |       |
| <i>Surrogate Toluene-d8</i>  |        | 95 %            |       | 78-121   | "       | "        | "        | "           |       |
| <i>Surrogate 4-Bromofluorobenzene</i>  |        | 97 %            |       | 78-126   | "       | "        | "        | "           |       |



ETIC Engineering Inc - Pleasant Hill (Exxon)  
2285 Morello Avenue  
Pleasant Hill CA, 94523

Project: Exxon 7-0210  
Project Number: 7-0210  
Project Manager: Ted Moise

MPE0259  
Reported:  
05/24/06 11:11

**Extractable Hydrocarbons by EPA 8015B - Quality Control  
Sequoia Analytical - Morgan Hill**

| Analyte | Result | Evaluation<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|---------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|---------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch 6E10038 - EPA 3510C**

**Blank (6E10038-BLK1)**

Prepared: 05/10/06 Analyzed: 05/17/06

|                                 |      |    |      |      |  |    |        |  |  |  |
|---------------------------------|------|----|------|------|--|----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | ND   | 25 | ug/l |      |  |    |        |  |  |  |
| Surrogate <i>n</i> -Octacosane  | 39.2 |    | "    | 50.0 |  | 78 | 30-115 |  |  |  |

**LCS (6E10038-BS1)**

Prepared: 05/10/06 Analyzed: 05/17/06

|                                 |      |    |      |      |  |    |        |  |  |  |
|---------------------------------|------|----|------|------|--|----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 288  | 50 | ug/l | 500  |  | 58 | 40-140 |  |  |  |
| Surrogate <i>n</i> -Octacosane  | 38.9 |    | "    | 50.0 |  | 78 | 30-115 |  |  |  |

**LCS Dup (6E10038-BSD1)**

Prepared: 05/10/06 Analyzed: 05/17/06

|                                 |      |    |      |      |  |    |        |   |    |  |
|---------------------------------|------|----|------|------|--|----|--------|---|----|--|
| Diesel Range Organics (C10-C28) | 262  | 50 | ug/l | 500  |  | 52 | 40-140 | 9 | 35 |  |
| Surrogate <i>n</i> -Octacosane  | 38.4 |    | "    | 50.0 |  | 77 | 30-115 |   |    |  |

ETIC Engineering Inc - Pleasant Hill (Exxon)  
 2285 Morello Avenue  
 Pleasant Hill CA, 94523

 Project: Exxon 7-0210  
 Project Number: 7-0210  
 Project Manager: Ted Moise

 MPE0259  
 Reported:  
 05/24/06 11:11

**Volatile Organic Compounds by EPA Method 8021B - Quality Control**  
**TestAmerica Analytical - Nashville**

| Analyte | Result | Evaluation Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|------------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|------------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch 6053746 - EPA 5030B (GC)**
**Blank (6053746-BLK1)**

Prepared: 05/18/06 Analyzed: 05/19/06

|                |       |      |      |  |  |  |  |  |  |  |
|----------------|-------|------|------|--|--|--|--|--|--|--|
| Benzene        | ND    | 0.42 | ug/L |  |  |  |  |  |  |  |
| Ethylbenzene   | ND    | 0.36 | "    |  |  |  |  |  |  |  |
| Toluene        | 0.365 | 0.36 | "    |  |  |  |  |  |  |  |
| Xylenes, total | 0.758 | 0.72 | "    |  |  |  |  |  |  |  |

*Surrogate: a.a.a-Trifluorotoluene*

28.0

"

30.0

93 63-134

**LCS (6053746-BS1)**

Prepared: 05/18/06 Analyzed: 05/19/06

|                |     |  |      |     |  |     |        |  |  |  |
|----------------|-----|--|------|-----|--|-----|--------|--|--|--|
| Benzene        | 108 |  | ug/L | 100 |  | 108 | 77-122 |  |  |  |
| Ethylbenzene   | 107 |  | "    | 100 |  | 107 | 77-121 |  |  |  |
| Toluene        | 102 |  | "    | 100 |  | 102 | 74-121 |  |  |  |
| Xylenes, total | 289 |  | "    | 300 |  | 96  | 72-121 |  |  |  |

*Surrogate: a.a.a-Trifluorotoluene*

29.1

"

30.0

97 63-134

**Matrix Spike (6053746-MS1)**

Source: NPE2120-07

Prepared: 05/18/06 Analyzed: 05/19/06

|                |      |  |      |      |      |    |        |  |  |     |
|----------------|------|--|------|------|------|----|--------|--|--|-----|
| Benzene        | 747  |  | ug/L | 50.0 | 751  | -8 | 50-159 |  |  | MHA |
| Ethylbenzene   | 88.8 |  | "    | 50.0 | 39.5 | 99 | 50-155 |  |  |     |
| Toluene        | 89.6 |  | "    | 50.0 | 45.0 | 89 | 57-150 |  |  |     |
| Xylenes, total | 173  |  | "    | 150  | 60.5 | 75 | 48-151 |  |  |     |

*Surrogate: a.a.a-Trifluorotoluene*

39.7

"

30.0

132 63-134

**Matrix Spike Dup (6053746-MSD1)**

Source: NPE2120-07

Prepared: 05/18/06 Analyzed: 05/19/06

|                |      |  |      |      |      |     |        |   |    |     |
|----------------|------|--|------|------|------|-----|--------|---|----|-----|
| Benzene        | 775  |  | ug/L | 50.0 | 751  | 48  | 50-159 | 4 | 33 | MHA |
| Ethylbenzene   | 97.1 |  | "    | 50.0 | 39.5 | 115 | 50-155 | 9 | 35 |     |
| Toluene        | 98.3 |  | "    | 50.0 | 45.0 | 107 | 57-150 | 9 | 33 |     |
| Xylenes, total | 190  |  | "    | 150  | 60.5 | 86  | 48-151 | 9 | 35 |     |

*Surrogate: a.a.a-Trifluorotoluene*

43.1

"

30.0

144 63-134

ZX

ETIC Engineering Inc - Pleasant Hill (Exxon)  
2285 Morello Avenue  
Pleasant Hill CA, 94523

Project: Exxon 7-0210  
Project Number: 7-0210  
Project Manager: Ted Moise

MPE0259  
Reported:  
05/24/06 11:11

**Purgeable Petroleum Hydrocarbons - Quality Control  
TestAmerica Analytical - Nashville**

| Analyte | Result | Evaluation<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|---------------------|-------|----------------|------------------|----------------|-----|--------------|-------|
|---------|--------|---------------------|-------|----------------|------------------|----------------|-----|--------------|-------|

**Batch 6053746 - EPA 5030B (GC)**

**Blank (6053746-BLK1)**

Prepared: 05/18/06 Analyzed: 05/19/06

|                                  |      |      |      |      |  |    |        |  |  |
|----------------------------------|------|------|------|------|--|----|--------|--|--|
| GRO as Gasoline                  | ND   | 39.0 | ug/L |      |  |    |        |  |  |
| Surrogate a.a.a-Trifluorotoluene | 28.0 |      | "    | 30.0 |  | 93 | 63-134 |  |  |

**LCS (6053746-BS2)**

Prepared: 05/18/06 Analyzed: 05/19/06

|                                  |      |  |      |      |  |     |        |  |      |
|----------------------------------|------|--|------|------|--|-----|--------|--|------|
| GRO as Gasoline                  | 91.0 |  | ug/L | 1000 |  | 91  | 68-128 |  | MNR1 |
| Surrogate a.a.a-Trifluorotoluene | 32.8 |  | "    | 30.0 |  | 109 | 63-134 |  |      |

ETIC Engineering Inc - Pleasant Hill (Exxon)  
 2285 Morello Avenue  
 Pleasant Hill CA, 94523

 Project: Exxon 7-0210  
 Project Number: 7-0210  
 Project Manager: Ted Moise

 MPE0259  
 Reported:  
 05/24/06 11:11

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**TestAmerica Analytical - Nashville**

| Analyte | Result | Evaluation<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|---------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|---------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch 6052262 - EPA 5030B**
**Blank (6052262-BLK1)**

Prepared &amp; Analyzed: 05/17/06

|                         |    |      |      |  |  |  |  |  |  |  |
|-------------------------|----|------|------|--|--|--|--|--|--|--|
| Tert-Amyl Methyl Ether  | ND | 0.5  | ug/L |  |  |  |  |  |  |  |
| 1,2-Dibromoethane (EDB) | ND | 0.5  | "    |  |  |  |  |  |  |  |
| 1,2-Dichloroethane      | ND | 0.5  | "    |  |  |  |  |  |  |  |
| Ethyl tert-Butyl Ether  | ND | 0.5  | "    |  |  |  |  |  |  |  |
| Diisopropyl Ether       | ND | 0.5  | "    |  |  |  |  |  |  |  |
| Methyl tert-Butyl Ether | ND | 0.5  | "    |  |  |  |  |  |  |  |
| Tertiary Butyl Alcohol  | ND | 8.26 | "    |  |  |  |  |  |  |  |

|  |      |  |   |      |  |     |        |  |  |  |
|--|------|--|---|------|--|-----|--------|--|--|--|
| <i>Surrogate 1,2-Dichloroethane-d4</i> | 25.1 |  | " | 25.0 |  | 100 | 70-130 |  |  |  |
| <i>Surrogate Dibromofluoromethane</i>  | 24.9 |  | " | 25.0 |  | 100 | 79-122 |  |  |  |
| <i>Surrogate Toluene-d8</i>            | 24.1 |  | " | 25.0 |  | 96  | 78-121 |  |  |  |
| <i>Surrogate 4-Bromofluorobenzene</i>  | 24.6 |  | " | 25.0 |  | 98  | 78-126 |  |  |  |

**LCS (6052262-BS1)**

Prepared &amp; Analyzed: 05/17/06

|                         |      |  |      |      |  |     |        |  |  |  |
|-------------------------|------|--|------|------|--|-----|--------|--|--|--|
| Tert-Amyl Methyl Ether  | 56.3 |  | ug/L | 50.0 |  | 113 | 49-158 |  |  |  |
| 1,2-Dibromoethane (EDB) | 53.7 |  | "    | 50.0 |  | 107 | 76-128 |  |  |  |
| 1,2-Dichloroethane      | 56.2 |  | "    | 50.0 |  | 112 | 65-137 |  |  |  |
| Ethyl tert-Butyl Ether  | 52.0 |  | "    | 50.0 |  | 104 | 60-153 |  |  |  |
| Diisopropyl Ether       | 48.9 |  | "    | 50.0 |  | 98  | 71-134 |  |  |  |
| Methyl tert-Butyl Ether | 52.2 |  | "    | 50.0 |  | 104 | 65-144 |  |  |  |
| Tertiary Butyl Alcohol  | 74.6 |  | "    | 50.0 |  | 149 | 25-168 |  |  |  |

|  |      |  |   |      |  |     |        |  |  |  |
|--|------|--|---|------|--|-----|--------|--|--|--|
| <i>Surrogate 1,2-Dichloroethane-d4</i> | 23.0 |  | " | 25.0 |  | 92  | 70-130 |  |  |  |
| <i>Surrogate Dibromofluoromethane</i>  | 26.4 |  | " | 25.0 |  | 106 | 79-122 |  |  |  |
| <i>Surrogate Toluene-d8</i>            | 23.0 |  | " | 25.0 |  | 92  | 78-121 |  |  |  |
| <i>Surrogate 4-Bromofluorobenzene</i>  | 25.7 |  | " | 25.0 |  | 103 | 78-126 |  |  |  |

ETIC Engineering Inc - Pleasant Hill (Exxon)  
2285 Morello Avenue  
Pleasant Hill CA, 94523Project: Exxon 7-0210  
Project Number: 7-0210  
Project Manager: Ted MoiseMPE0259  
Reported:  
05/24/06 11:11

### Notes and Definitions

ZX Due to sample matrix effects, the surrogate recovery was outside the acceptance limits

MNR1 There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike.

MHA Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).

H1 Sample analysis performed past the method-specified holding time per client's approval.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



Morgan Hill Division  
885 Jarvis Drive  
Morgan Hill, CA 95037

Phone: 408-776-9600  
Fax: 408-782-6308



Consultant Name: ETIC ENGINEERING

TA Account #: 10236

Address: 2285 MORELLO AVE.

Invoice To: JENNIFER SEDLACHEK (XOMTM)

City/State/Zip: PLEASANT HILL, CA. 94523

Report To: TED MOISE

ExxonMobil Territory Mgr: JENNIFER SEDLACHEK

PO #: 4506870680

Consultant Project Mgr: TED MOISE

Project #: UP0210.1

Facility ID #: 7-0210

Consultant Telephone Number: 925-602-4710 EXT. 23

Fax No.: 925-602-4720

Site Address 7840 AMADOR VALLEY BLVD.

Sampler Name: (Print) ALEX MAJALILI

City, State, Zip DUBLIN, CA.

Sampler Signature: [Signature]

Regulatory District (CA)

| Sample ID / Description           | Date Sampled | Time Sampled | No. of Containers Shipped | Grab | Composite | Field Filtered | Preservative |                              |                  |                     |   |   |                    |                 | Matrix      |            |                |        |      | Analyze For:     |                         |                 |               | RUSH TAT (Pre-Schedule) | TAT request (in Bus. Days) | STD TAT | Fax Results |
|-----------------------------------|--------------|--------------|---------------------------|------|-----------|----------------|--------------|------------------------------|------------------|---------------------|---|---|--------------------|-----------------|-------------|------------|----------------|--------|------|------------------|-------------------------|-----------------|---------------|-------------------------|----------------------------|---------|-------------|
|                                   |              |              |                           |      |           |                | Ice          | HNO <sub>3</sub> (Red Label) | HCl (Blue Label) | NaOH (Orange Label) | H <sub>2</sub> SO <sub>4</sub> Plastic (Yellow Label) | H <sub>2</sub> SO <sub>4</sub> Glass (Yellow Label) | None (Black Label) | Other (Specify) | Groundwater | Wastewater | Drinking Water | Sludge | Soil | Other (specify): | TPH-GIBTEX BY 8015/8020 | 7 OXYS BY 8260B | TPH-D BY 8015 |                         |                            |         |             |
| MPE0259<br>MW5 01 05-03-06 0805 R |              |              |                           |      |           |                | X            | X                            |                  |                     |   |   |                    | X               |             |            |                |        | X    | X                | X                       | X               |               |                         |                            | X       | X           |
| MW6 02 0900 R                     |              |              |                           |      |           |                | X            | X                            |                  |                     |   |   |                    | X               |             |            |                |        | X    | X                | X                       | X               |               |                         |                            | X       | X           |
| MW7 03 0830 R                     |              |              |                           |      |           |                | X            | X                            |                  |                     |   |   |                    | X               |             |            |                |        | X    | X                | X                       | X               |               |                         |                            | X       | X           |

Special Instructions: GLOBAL ID# T0600100553 EDF FILE REQUIRED

Laboratory Comments:  
Temperature Upon Receipt:  
Sample Containers Intact? Y N  
VOCs Free of Headspace? Y N

CONFIRM ALL MTBE HITS BY 8260B

|  |                         |                      |  |                       |                     |
|--|-------------------------|----------------------|--|-----------------------|---------------------|
| Relinquished by:<br><u>[Signature]</u> | Date<br><u>05-03-06</u> | Time<br><u>13:30</u> | Received by:<br><u>[Signature]</u>             | Date<br><u>5/4/06</u> | Time<br><u>1430</u> |
| Relinquished by:                       | Date                    | Time                 | Received by TestAmerica:<br><u>[Signature]</u> | Date<br><u>5/3/04</u> | Time<br><u>1915</u> |

QC Deliverables (please circle one)  
Level 2  
Level 3  
Level 4  
Site Specific - if yes, please a pre-schedule w/ TestAmerica Project Manager or attach specific instructions

Bryan Campbell?

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: WYON - 7-0210  
 REC. BY (PRINT): LB  
 WORKORDER: MPE0259

DATE REC'D AT LAB: 5-3-04  
 TIME REC'D AT LAB: 1915  
 DATE LOGGED IN: 5/6/06

For Regulatory Purposes?  
 DRINKING WATER YES /  NO  
 WASTE WATER YES / NO

| CIRCLE THE APPROPRIATE RESPONSE   |  | LAB SAMPLE # | DASH # | CLIENT ID | CONTAINER DESCRIPTION | PRESERVATIVE | pH | SAMPLE MATRIX | DATE SAMPLED | REMARKS: CONDITION (ETC.) |
|---|--|--------------|--------|-----------|-----------------------|--------------|----|---------------|--------------|---------------------------|
| 1. Custody Seal(s)  | Present / Absent<br>Intact / Broken*       | 01           | G-4    | MW-5      | 2 amber               | -            | -  | L             | 5-3-04       | 68.65                     |
|   |  | ↓            | A-F    | L         | 6 WYON                | HC           | L  | L             | ↓            | 0900                      |
| 2. Chain-of-Custody   | Present / Absent*                          | 02           | A-4    | MW-4      | same                  | L            | L  | L             | ↓            | 0830                      |
| 3. Traffic Reports or Packing List:   | Present / Absent                           | 03           | ↓      | MW-4      | ↓                     | L            | L  | L             | ↓            |                           |
| 4. Airbill:   | Airbill / Sticker<br>Present / Absent      |              |        |           |                       |              |    |               |              |                           |
| 5. Airbill #:   |  |              |        |           |                       |              |    |               |              |                           |
| 6. Sample Labels:   | Present / Absent                           |              |        |           |                       |              |    |               |              |                           |
| 7. Sample IDs:  | Listed / Not Listed<br>on Chain-of-Custody |              |        |           |                       |              |    |               |              |                           |
| 8. Sample Condition:  | Intact / Broken* /<br>Leaking*             |              |        |           |                       |              |    |               |              |                           |
| 9. Does information on chain-of-custody, traffic reports and sample labels agree? | Yes / No*                                  |              |        |           |                       |              |    |               |              |                           |
| 10. Sample received within hold time?   | Yes / No*                                  |              |        |           |                       |              |    |               |              |                           |
| 11. Adequate sample volume received?  | Yes / No*                                  |              |        |           |                       |              |    |               |              |                           |
| 12. Proper preservatives used?  | Yes / No*                                  |              |        |           |                       |              |    |               |              |                           |
| 13. Trip Blank / Temp Blank Received?<br>(circle which, if yes)                   | Yes / No*                                  |              |        |           |                       |              |    |               |              |                           |
| 14. Read Temp:<br>Corrected Temp:<br>Is corrected temp 4 +/-2°C?                  | 4C<br>9C<br>Yes / No**                     |              |        |           |                       |              |    |               |              |                           |

\*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.