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LETTER REPORT  
QUARTERLY GROUNDWATER MONITORING  
First Quarter 1994  
Exxon Station 7-7003  
349 Main Street  
Pleasanton, California

130015.20

3315 Almaden Expressway, Suite 34  
San Jose, CA 95118  
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March 14, 1994

Ms. Marla D. Guensler  
Exxon Company, U.S.A.  
P.O. Box 4032  
2300 Clayton Road  
Concord, California 94520

Subject: Quarterly Groundwater Monitoring, First Quarter 1994  
Exxon Station 7-7003  
349 Main Street, Pleasanton, California

Ms. Guensler:

At the request of Exxon Company U.S.A. (Exxon), RESNA Industries Inc. (RESNA) performed the first quarter 1994 groundwater monitoring at the subject site (Plate 1, Site Vicinity Map). The objectives of groundwater monitoring are to evaluate: groundwater elevations, gradient and flow direction; the presence and thickness of any liquid phase hydrocarbons; and the distribution of dissolved gasoline and chlorinated hydrocarbons in groundwater.

#### **GROUNDWATER MONITORING AND SAMPLING**

On February 16 and 17, 1994, RESNA measured the depth to water in wells MW-1 through MW-8 and VW-1 through VW-3, and collected groundwater samples from the wells for subjective and laboratory analyses. RESNA's groundwater sampling protocol and well purge data sheets are in Appendix A, Groundwater Sampling Protocol and Well Purge Data Sheets.

Neither liquid-phase hydrocarbons nor sheen were observed in samples from the wells. Based on February 16, 1994, depth to water measurements, groundwater elevations at the site have decreased an average of approximately 0.64 foot since last quarter, and the groundwater appears to flow toward the northwest beneath the subject site, with a hydraulic gradient of 0.082 (Plate 2, Groundwater Gradient and Chemical Concentrations). Historical and recent monitoring data are summarized in Table 1, Cumulative Groundwater Monitoring and Sampling Data.

## **LABORATORY ANALYSES AND RESULTS**

Groundwater samples were submitted to Pace Incorporated Laboratories (California State Certification Number 1282) in Novato, California, under chain of custody protocol. The samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, total xylenes, and volatile organic compounds (VOCs) using the methods listed in the notes in Table 1. The laboratory analysis reports and chain of custody records are in Appendix B, Laboratory Analysis Reports and Chain of Custody Records.

Results of laboratory analysis of groundwater samples are shown on Plate 2, and are summarized in Table 1. Selected analytical results are summarized below if the concentrations detected are greater than the method detection limit (MDL) for TPHg; the California Department of Health Services (DHS) maximum contaminant levels (MCLs) for benzene, ethylbenzene, or total xylenes; and the DHS drinking water action level (DWAL) for toluene, as listed in Table 1. Selected analytical results are summarized below for VOCs if the concentrations detected are greater than their respective MCLs or DWALs as listed in Table 1.

- Concentrations of TPHg were greater than the MDL in wells MW-1, MW-2, MW-4, MW-6, VE-1, and VE-2.
- Concentrations of benzene were greater than the MCL in wells MW-1, MW-3 through MW-6, VE-1, and VE-2.
- The concentration of 1,2-dichloroethane was equal to the MCL in well MW-4.

## **LIMITATIONS**

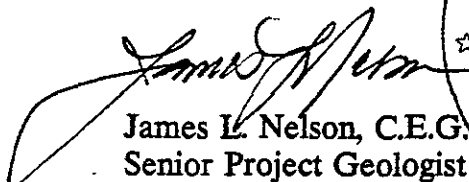
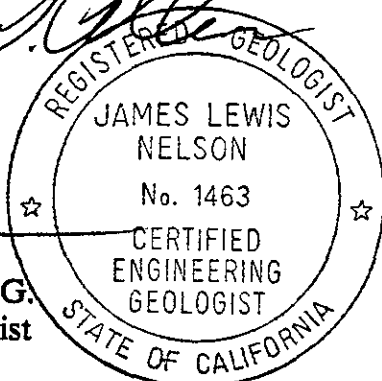
This report was prepared in accordance with generally accepted standards of environmental geological practice in California at the time this investigation was performed. This report has been prepared for Exxon Company U.S.A. and any reliance on this report by third parties shall be at such party's sole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

If you have any questions or comments regarding this report, please call (408) 264-7723.

Sincerely,  
RESNA Industries Inc.



Christian O. Allen  
Geologic Technician

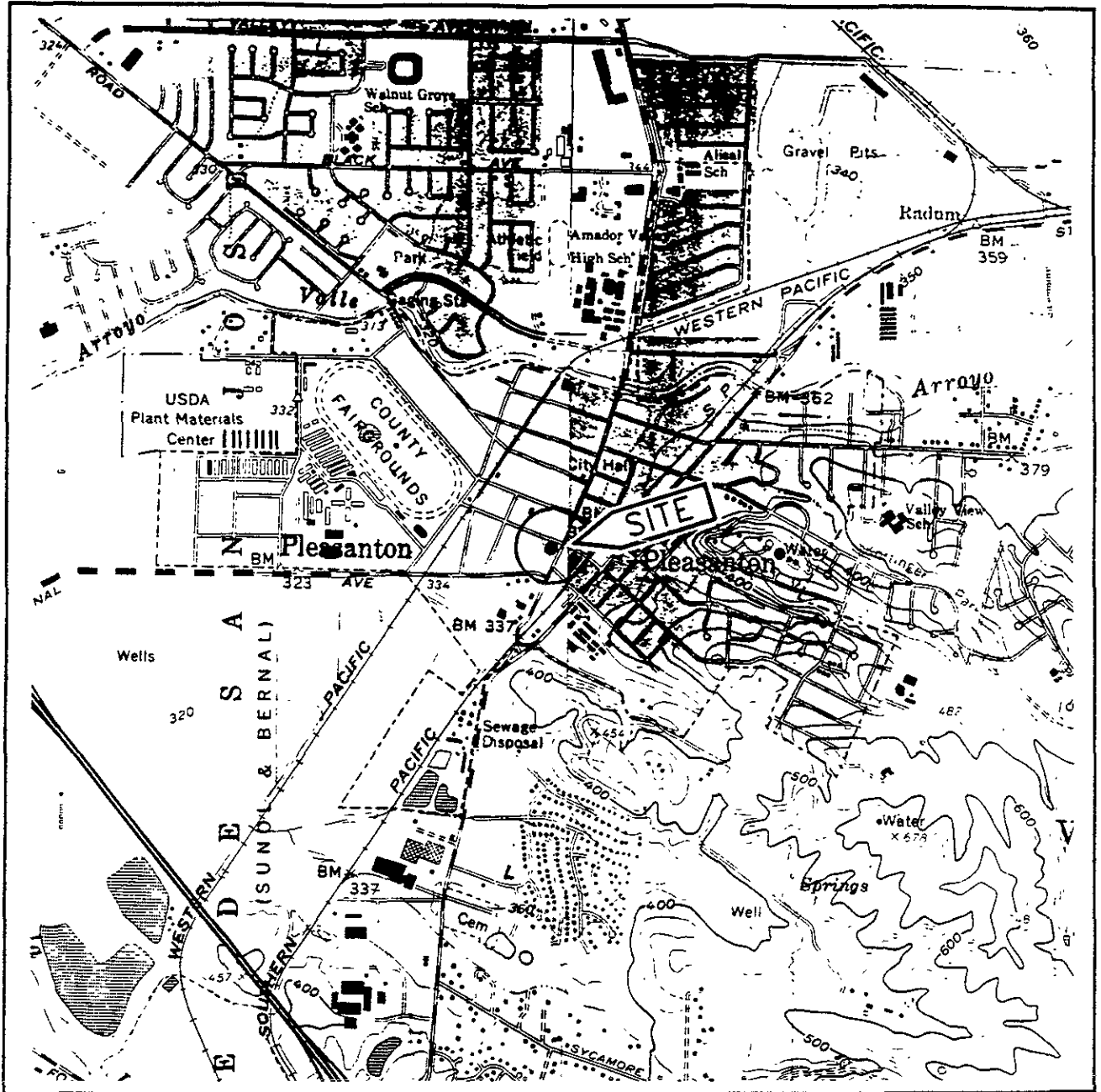


James L. Nelson, C.E.G.  
Senior Project Geologist

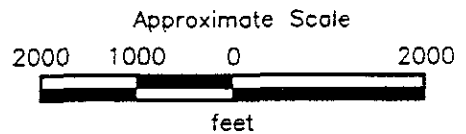
Enclosures: Plate 1: Site Vicinity Map  
Plate 2: Groundwater Gradient and Chemical Concentrations

Table 1: Cumulative Groundwater Monitoring and Sampling Data

Appendix A: Groundwater Sampling Protocol and Well Purge Data Sheets  
Appendix B: Laboratory Analysis Reports and Chain of Custody Records



Source U.S. Geological Survey  
 7 1/2-Minute Quadrangles  
 Dublin/Livermore, California  
 Photorevised 1980

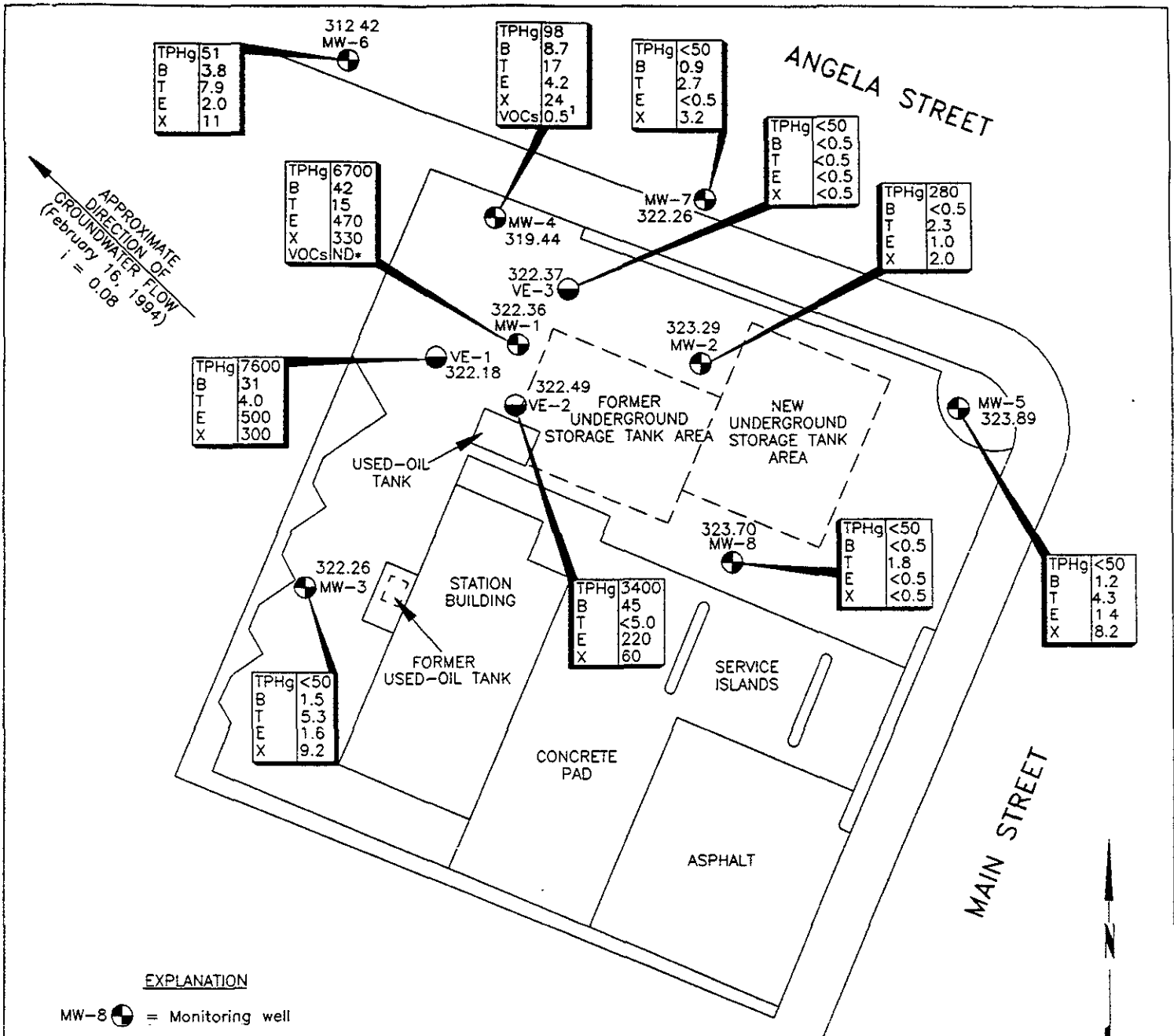


**RESNA**  
 Working to Restore Nature

SITE VICINITY MAP  
 Exxon Station 7-7003  
 349 Main Street  
 Pleasanton, California

PLATE  
 1

PROJECT 130015.20



**EXPLANATION**

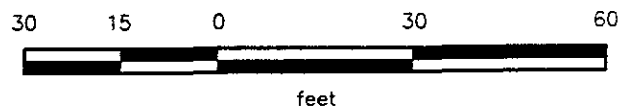
- MW-8 = Monitoring well
- VE-3 = Vapor extraction well

|      |      |
|------|------|
| TPHg | 6700 |
| B    | 42   |
| T    | 15   |
| E    | 470  |
| X    | 330  |
| VOCs | ND*  |

= Concentrations of Hydrocarbons and Volatile Organic Compounds in groundwater in parts per billion, February 16 and 17, 1994

- \* = Sample was diluted due to high levels of hydrocarbon present
- ND = Not detected
- VOCs = Volatile organic compounds
- 1 = 1,2-dichloroethane
- i = Magnitude of hydraulic gradient
- 323.89 = Elevation of groundwater relative to mean sea level, February 16 and 17, 1994

Approximate Scale



Source: Surveyed by Ron Archer Civil Engineer, Inc., June 1990, April 1991 and May 1993.



**GROUNDWATER GRADIENT AND  
CHEMICAL CONCENTRATIONS**  
Exxon Station 7-7003  
349 Main Street  
Pleasanton, California

PLATE  
**2**

PROJECT 130015.20

**TABLE 1  
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA**

Exxon Service Station 7-7003

349 Main Street

Pleasanton, California

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| Well ID #<br>(TOC) | Sampling<br>Date | SUBJ<br>< . . . . . | DTW<br>feet . . . . . | Elev.<br>> | TPHg   |      |      |      |                   | Lead | TOG   | VOCs<br>>        |    |
|--------------------|------------------|---------------------|-----------------------|------------|--------|------|------|------|-------------------|------|-------|------------------|----|
|                    |                  |                     |                       |            | B      | T    | E    | X    | parts per billion |      |       |                  |    |
| MW-1<br>(343.83)   | 02/23/90         | NLPH                | 26.08                 | 317.75     | 3300   | 21   | 9.2  | 59   | 19                | 100  | NA    | NA               |    |
|                    | 06/15/90         | NLPH                | 28.49                 | 317.34     | 1300   | 7.9  | 5.9  | 32   | 58                | <50  | NA    | NA               |    |
|                    | 08/90            | NLPH                | 26.47                 | 317.36     | 2500   | 77   | 280  | 50   | 250               | <50  | NA    | NA               |    |
|                    | 12/18/90         | NLPH                | 28.00                 | 315.83     | 390    | 9.0  | 2.0  | 43   | 400               | <100 | NA    | NA               |    |
|                    | 03/19/91         | NLPH                | 23.63                 | 320.20     | 4500   | 45   | 12   | 240  | 300               | <100 | NA    | 120 <sup>1</sup> |    |
|                    | 06/27/91         | NLPH                | 22.11                 | 321.72     | 710    | 5.4  | 2.6  | 29   | 34                | <100 | NA    | ND               |    |
|                    | 09/26/91         | NLPH                | 27.75                 | 316.08     | 290    | 1.9  | <0.5 | 0.6  | 0.6               | <100 | NA    | ND               |    |
|                    | 01/10/92         | NLPH                | 25.61                 | 318.22     | 5400   | 52   | 15   | 690  | 496               | <100 | NA    | 8.1 <sup>1</sup> |    |
|                    | 03/12-13/92      | NLPH                | 22.52                 | 321.31     | 1400   | 87   | 22   | 1200 | 1000              | NA   | NA    | 2.1 <sup>5</sup> |    |
|                    |                  |                     |                       |            |        |      |      |      |                   |      |       | 14 <sup>1</sup>  |    |
|                    |                  |                     |                       |            |        |      |      |      |                   |      |       | 1.2 <sup>4</sup> |    |
|                    |                  |                     |                       |            |        |      |      |      |                   |      |       | 0.5 <sup>5</sup> |    |
|                    |                  |                     |                       |            |        |      |      |      |                   |      |       | 0.8 <sup>3</sup> |    |
|                    |                  | 06/09/92            | NLPH                  | 21.53      | 322.30 | 4500 | 27   | 5.9  | 400               | 300  | <100  | <5000            | ND |
|                    |                  | 09/28-29/92         | NLPH                  | 29.84      | 313.99 | 60   | <0.5 | 0.9  | <0.5              | <0.5 | NA    | <5000            | ND |
|                    | 12/12/92         | NLPH                | 23.86                 | 319.97     | 1400   | 53   | 18   | 1100 | 570               | NA   | <5000 | 49 <sup>1</sup>  |    |
|                    | 02/02-03/93      | NLPH                | 19.00                 | 324.83     | 10,000 | 61   | 27   | 900  | 840               | NA   | <5000 | 2.2 <sup>6</sup> |    |
|                    |                  |                     |                       |            |        |      |      |      |                   |      |       | 19 <sup>1</sup>  |    |
|                    |                  |                     |                       |            |        |      |      |      |                   |      |       | 1.1 <sup>8</sup> |    |
|                    |                  |                     |                       |            |        |      |      |      |                   |      |       | 2.4 <sup>9</sup> |    |

See notes on page 8 of 8.

**TABLE 1  
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA**

Exxon Service Station 7-7003

349 Main Street

Pleasanton, California

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| Well ID #<br>(TOC)       | Sampling<br>Date | SUBJ<br>< . . . . . | DTW<br>feet | Elev.<br>> . . . . . | TPHg<br>< . . . . . | B    | T    | E    | X    | Lead | TOG   | VOCs<br>>  |  |
|--------------------------|------------------|---------------------|-------------|----------------------|---------------------|------|------|------|------|------|-------|--|--|
|                          |                  |                     |             |                      | parts per billion   |      |      |      |      |      |       |  |  |
| MW-1 (cont.)<br>(343.83) | 06/08-09/93      | NLPH                | 16.62       | 327.21               | 7500                | 42   | 32   | 970  | 720  | NA   | <5000 | 1.8 <sup>1</sup><br>1.0 <sup>2</sup><br>0.8 <sup>3</sup> |  |
|                          | 09/22-23/93      | NLPH                | 19.63       | 324.20               | 6600                | 36   | 34   | 820  | 540  | NA   | <5000 | 0.6 <sup>3</sup>   |  |
|                          | 11/17-18/93      | NLPH                | 20.82       | 323.01               | 5900                | 24   | 10   | 470  | 300  | NA   | NA    | ND   |  |
|                          | 02/16-17/94      | NLPH                | 21.47       | 322.36               | 6700                | 42   | 15   | 470  | 330  | NA   | NA    | ND**   |  |
| MW-2<br>(344.22)         | 02/23/90         | NLPH                | 26.31       | 317.91               | 650                 | 3.0  | 2.0  | 0.98 | 6.5  | 8.0  | NA    | NA   |  |
|                          | 06/15/90         | NLPH                | 26.25       | 317.97               | 670                 | <0.5 | 2.6  | <0.5 | <0.5 | <50  | NA    | NA   |  |
|                          | 08/90            | NLPH                | 26.15       | 318.07               | 1300                | 24   | 130  | 37   | 170  | <50  | NA    | NA   |  |
|                          | 12/18/90         | NLPH                | 27.94       | 316.28               | 470                 | <0.3 | 0.5  | 1.0  | 3.0  | <100 | NA    | NA   |  |
|                          | 03/19/91         | NLPH                | 23.41       | 320.81               | 700                 | 10   | 3.4  | 6.1  | 3.8  | <100 | NA    | ND   |  |
|                          | 06/27/91         | NLPH                | 21.63       | 322.59               | 1400                | 8.7  | 2.1  | 8.8  | 33   | <100 | NA    | ND   |  |
|                          | 09/26/91         | NLPH                | 27.19       | 317.03               | 300                 | <0.5 | 0.6  | 0.6  | 3.9  | <100 | NA    | ND   |  |
|                          | 01/10/92         | NLPH                | 25.67       | 318.55               | 800                 | 9.3  | 1.0  | 2.4  | 3.2  | <100 | NA    | ND   |  |
|                          | 03/12-13/92      | NLPH                | 22.28       | 321.94               | 350                 | <0.5 | 0.6  | 0.63 | 1.0  | NA   | NA    | ND   |  |
|                          | 06/09/92         | NLPH                | 21.17       | 323.05               | 150                 | 1.9  | 2.5  | 2.51 | 5.1  | <100 | NA    | ND   |  |
|                          | 09/28-29/92      | NLPH                | 29.58       | 314.64               | 71                  | <0.5 | <0.5 | <0.5 | <0.5 | NA   | NA    | ND   |  |
|                          | 12/12/92         | NM                  | NM          | ---                  |                     |      |      |      |      |      |       |  |  |
|                          | 02/02-03/93      | NLPH                | 18.69       | 325.53               | 720                 | 3.9  | 8.2  | 21   | 20   | NA   | NA    | NA   |  |
|                          | 06/08-09/93      | NLPH                | 16.32       | 327.90               | 160                 | 0.5  | 3.3  | 5.7  | 2.0  | NA   | NA    | NA   |  |

See notes on page 8 of 8.



**TABLE 1  
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA**

Exxon Service Station 7-7003

349 Main Street

Pleasanton, California

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| Well ID #<br>(TOC) | Sampling<br>Date | SUBJ<br>< . . . . . > | DTW<br>feet | Elev.<br>> . . . . . < | TPHg<br>< . . . . . > | B    | T    | E                 | X    | Lead | TOG   | VOCs<br>> . . . . . < |
|--------------------|------------------|-----------------------|-------------|------------------------|-----------------------|------|------|-------------------|------|------|-------|-----------------------|
|                    |                  |                       |             |                        |                       |      |      | parts per billion |      |      |       |                       |
| MW-2 (cont.)       |                  |                       |             |                        |                       |      |      |                   |      |      |       |                       |
| 344.22             | 09/22-23/93      | NLPH                  | 19.43       | 324.79                 | 240                   | 0.7  | 5.6  | 4.0               | 2.6  | NA   | NA    | NA                    |
|                    | 11/17-18/93      | NLPH                  | 20.56       | 323.66                 | 490                   | 1.2  | 2.3  | 3.2               | 1.3  | NA   | NA    | NA                    |
|                    | 02/16-17/94      | NLPH                  | 20.93       | 323.29                 | 280                   | <0.5 | 2.3  | 1.0               | 2.0  | NA   | NA    | NA                    |
| MW-3<br>(342.90)   | 02/23/90         | NLPH                  | 24.78       | 318.12                 | <20                   | <0.5 | <0.5 | <0.5              | <0.5 | 100  | NA    | NA                    |
|                    | 06/15/90         | NLPH                  | 25.29       | 317.61                 | 200                   | <0.5 | <0.5 | <0.5              | <0.5 | <50  | NA    | NA                    |
|                    | 08/90            | NLPH                  | 25.40       | 317.50                 | 3200                  | 54   | 380  | 23                | 400  | <50  | NA    | NA                    |
|                    | 12/18/90         | NLPH                  | 26.84       | 316.06                 | 200                   | 8.0  | 12   | 6.0               | 24   | <100 | <5000 | 4.1 <sup>a</sup>      |
|                    | 03/19/91         | NLPH                  | 22.13       | 320.77                 | <50                   | <0.5 | <0.5 | <0.5              | <0.5 | <100 | <5000 | ND                    |
|                    | 06/27/91         | NLPH                  | 21.04       | 321.86                 | <50                   | <0.5 | <0.5 | <0.5              | <0.5 | <100 | <5000 | ND                    |
|                    | 09/26/91         | NLPH                  | 26.63       | 316.27                 | <50                   | <0.5 | <0.5 | <0.5              | <0.5 | <100 | <5000 | ND                    |
|                    | 01/10/92         | NLPH                  | 24.26       | 318.64                 | <50                   | <0.5 | <0.5 | <0.5              | <0.5 | <100 | 5100  | ND                    |
|                    | 03/12-13/92      | NLPH                  | 21.80       | 321.30                 | <50                   | <0.5 | <0.5 | <0.5              | <0.5 | NA   | 5000  | ND                    |
|                    | 06/09/92         | NLPH                  | 20.88       | 322.02                 | <50                   | <0.5 | <0.5 | <0.5              | <0.5 | <100 | <5000 | ND                    |
|                    | 09/28-29/92      | NLPH                  | 28.67       | 314.23                 | <50                   | <0.5 | <0.5 | <0.5              | <0.5 | NA   | <5000 | ND                    |
|                    | 12/12/92         | NLPH                  | 20.73       | 322.17                 | <50                   | <0.5 | <0.5 | <0.5              | 1.3  | NA   | <5000 | NA                    |
|                    | 02/02-03/93      | NLPH                  | 19.30       | 323.60                 | <50                   | <0.5 | <0.5 | <0.5              | <0.5 | NA   | <5000 | NA                    |
|                    | 06/08/93         | NLPH                  | 15.89       | 327.01                 | <50                   | 0.6  | 0.9  | 3.4               | 2.8  | NA   | <5000 | NA                    |
|                    | 09/22/93         | NLPH                  | 18.63       | 324.27                 | <50                   | <0.5 | 1.0  | 1.6               | 4.4  | NA   | "     | NA                    |
|                    | 11/17-18/93      | NLPH                  | 19.97       | 322.93                 | <50                   | <0.5 | <0.5 | <0.5              | 1.5  | NA   | NA    | NA                    |
|                    | 02/16-17/94      | NLPH                  | 20.64       | 322.26                 | <50                   | 1.5  | 5.3  | 1.6               | 9.2  | NA   | NA    | NA                    |

See notes on page 8 of 8.

**TABLE 1  
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA**

Exxon Service Station 7-7003

349 Main Street

Pleasanton, California

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| Well ID #<br>(TOC) | Sampling<br>Date | SUBJ<br>< . . . . . > | DTW<br>feet | Elev.<br>< . . . . . > | TPHg |      |      |      |                   | Lead | TOG              | VOCs<br>< . . . . . > |
|--------------------|------------------|-----------------------|-------------|------------------------|------|------|------|------|-------------------|------|------------------|-----------------------|
|                    |                  |                       |             |                        | B    | T    | E    | X    | parts per billion |      |                  |                       |
| MW-4<br>(343.38)   | 06/15/90         | NLPH                  | 30.94       | 312.44                 | <20  | <0.5 | <0.5 | <0.5 | <0.5              | <50  | NA               | NA                    |
|                    | 08/90            | NLPH                  | 31.21       | 312.17                 | 120  | 5.2  | 5.4  | 5.4  | 9.9               | <50  | NA               | NA                    |
|                    | 12/18/90         | NLPH                  | 32.86       | 310.52                 | 50   | 7.0  | 1.0  | <0.3 | 2.0               | <100 | NA               | NA                    |
|                    | 03/19/91         | NLPH                  | 26.76       | 316.62                 | 160  | 1.8  | 0.8  | 2.2  | 11                | <100 | NA               | ND                    |
|                    | 06/27/91         | NLPH                  | 25.91       | 317.47                 | <50  | <0.5 | <0.5 | <0.5 | <0.5              | <100 | NA               | ND                    |
|                    | 09/26/91         | NLPH                  | 32.29       | 311.09                 | <50  | <0.5 | <0.5 | <0.5 | <0.5              | <100 | NA               | 1.0 <sup>4</sup>      |
|                    | 01/10/92         | NLPH                  | 29.08       | 314.32                 | 98   | 0.9  | <0.5 | 7.6  | 4.4               | <100 | NA               | 1.0 <sup>4</sup>      |
|                    | 03/12-13/92      | NLPH                  | 24.25       | 319.13                 | 82   | 1.2  | <0.5 | 5.3  | 4.3               | NA   | NA               | ND                    |
|                    | 06/09/92         | NLPH                  | 25.00       | 318.38                 | <50  | 0.6  | 1.0  | <0.5 | 2.5               | <100 | NA               | 0.7 <sup>4</sup>      |
|                    | 09/28-29/92      | NLPH                  | 34.41       | 308.97                 | <50  | <0.5 | <0.5 | <0.5 | <0.5              | NA   | NA               | ND                    |
|                    | 12/12/92         | NLPH                  | 30.77       | 312.61                 | 99   | 1.0  | 0.9  | 7.0  | 11                | NA   | NA               | ND                    |
|                    | 02/02-03/93      | NLPH                  | 21.03       | 322.35                 | 170  | 2.3  | 2.2  | 6.2  | 8.4               | NA   | NA               | ND                    |
|                    | 06/08-09/93      | NLPH                  | 18.35       | 325.03                 | <50  | 0.7  | 0.9  | 0.7  | <0.5              | NA   | NA               | 0.6 <sup>4</sup>      |
|                    | 09/22-23/93      | NLPH                  | 21.86       | 321.52                 | 59   | 0.8  | 2.0  | 3.1  | 5.3               | NA   | NA               | ND                    |
|                    | 11/17-18/93      | NLPH                  | 22.98       | 320.40                 | <50  | <0.5 | <0.5 | <0.5 | <0.5              | NA   | NA               | ND                    |
| 02/16-17/94        | NLPH             | 23.94                 | 319.44      | 98                     | 8.7  | 17   | 4.2  | 24   | NA                | NA   | 0.5 <sup>4</sup> |                       |
| MW-5<br>(345.20)   | 06/15/90         | NLPH                  | 26.94       | 318.26                 | <20  | <0.5 | <0.5 | <0.5 | <0.5              | 60   | NA               | NA                    |
|                    | 08/90            | NLPH                  | 26.90       | 318.30                 | 120  | 9.7  | 12   | 7.6  | 17                | <50  | NA               | NA                    |
|                    | 12/18/90         | NLPH                  | 28.31       | 316.89                 | 50   | 2.0  | 3.5  | 2.0  | 8.0               | <100 | NA               | NA                    |
|                    | 03/19/91         | NLPH                  | 23.98       | 321.22                 | 160  | <0.5 | <0.5 | <0.5 | <0.5              | <100 | NA               | 0.5 <sup>4</sup>      |

1, 2-DCA

See notes on page 8 of 8.

**TABLE 1  
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA**

Exxon Service Station 7-7003

349 Main Street

Pleasanton, California

(Page 5 of 8)

| Well ID #<br>(TOC)  | Sampling<br>Date | SUBJ<br>< . . . . . | DTW<br>feet | Elev.<br>> . . . . . | TPHg<br>< . . . . . | B    | T    | E    | X     | Lead | TOG | VOCs<br>> . . . . . |
|---------------------|------------------|---------------------|-------------|----------------------|---------------------|------|------|------|-------|------|-----|---------------------|
|                     |                  |                     |             |                      |                     |      |      |      |       |      |     | parts per billion   |
| <b>MW-5 (cont.)</b> |                  |                     |             |                      |                     |      |      |      |       |      |     |                     |
| (345.20)            | 06/27/91         | NLPH                | 22.41       | 322.79               | <50                 | <0.5 | <0.5 | <0.5 | <0.5  | <100 | NA  | ND                  |
|                     | 09/26/91         | NLPH                | 27.77       | 317.43               | <50                 | <0.5 | <0.5 | <0.5 | <0.5  | <100 | NA  | ND                  |
|                     | 01/10/92         | NLPH                | 26.38       | 318.82               | 98                  | <0.5 | <0.5 | <0.5 | 0.8   | <100 | NA  | ND                  |
|                     | 03/12-13/92      | NLPH                | 22.08       | 323.12               | 82                  | <0.5 | <0.5 | <0.5 | <0.5  | NA   | NA  | ND                  |
|                     | 06/09/92         | NLPH                | 31.98       | 313.22#              |                     |      |      |      |       |      |     |                     |
|                     | 09/28-29/92      | NLPH                | 30.26       | 314.94               | <50                 | NR   | <0.5 | <0.5 | <0.5  | NA   | NA  | ND                  |
|                     | 12/12/92         | NLPH                | 27.20       | 318.00               | 210                 | 0.9  | 11   | 0.5  | 3.1   | NA   | NA  | NA                  |
|                     | 02/02-03/93      | NLPH                | 20.01       | 325.19               | 70                  | <0.5 | 2.7  | <0.5 | 0.9   | NA   | NA  | NA                  |
|                     | 06/08-09/93      | NLPH                | 16.80       | 328.40               | <50                 | <0.5 | <0.5 | <0.5 | <0.5  | NA   | NA  | NA                  |
|                     | 09/22/93         | NLPH                | 20.28       | 324.92               | <50                 | 1.0  | <0.5 | 1.1  | 2.1   | NA   | NA  | NA                  |
|                     | 11/17-18/93      | NLPH                | 21.19       | 324.01               | <50                 | <0.5 | <0.5 | <0.5 | 0.9   | NA   | NA  | NA                  |
|                     | 02/16-17/94      | NLPH                | 21.61       | 323.89               | <50                 | 1.2  | 4.3  | 1.4  | 8.2   | NA   | NA  | NA                  |
| <b>MW-6</b>         |                  |                     |             |                      |                     |      |      |      |       |      |     |                     |
| (342.25)            | 03/19/91         | NLPH                | 34.42       | 307.83               | <50                 | <0.5 | <0.5 | <0.5 | <0.5  | <100 | NA  | ND                  |
|                     | 06/27/91         | NLPH                | 35.01       | 307.24               | <50                 | 2.6  | 1.8  | 0.8  | <0.30 | <100 | NA  | ND                  |
|                     | 09/26/91         | NLPH                | 40.34       | 301.91               | <50                 | <0.5 | <0.5 | <0.5 | <0.5  | <100 | NA  | ND                  |
|                     | 01/10/92         | NLPH                | 36.20       | 306.05               | <50                 | <0.5 | <0.5 | <0.5 | <0.5  | <100 | NA  | ND                  |
|                     | 03/12-13/92      | NLPH                | 31.95       | 310.30               | <50                 | <0.5 | <0.5 | NR   | NR    | NA   | NA  | ND                  |
|                     | 06/09/92         | NLPH                | 33.22       | 309.03               | <50                 | <0.5 | <0.5 | <0.5 | <0.5  | <100 | NA  | ND                  |
|                     | 09/28-29/92      | NLPH                | 40.96       | 301.29               | <50                 | <0.5 | <0.5 | 0.9  | 0.9   | NA   | NA  | ND                  |
|                     | 12/12/92         | NM                  | NM          | ---                  | <50                 | <0.5 | <0.5 | <0.5 | <0.5  | NA   | NA  | NA                  |
|                     | 02/02/93         | NLPH                | 26.51       | 315.74               | <50                 | <0.5 | <0.5 | <0.5 | <0.5  | NA   | NA  | NA                  |

See notes on page 8 of 8.

**TABLE 1  
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA**

Exxon Service Station 7-7003

349 Main Street

Pleasanton, California

(Page 6 of 8)

| Well ID #<br>(TOC)       | Sampling<br>Date | SUBJ<br>< . . . . . | DTW<br>feet | Elev.<br>> . . . . . | TPHg<br>< . . . . . | B    | T    | E                 | X    | Lead | TOG | VOCs<br>> . . . . .                  |
|--------------------------|------------------|---------------------|-------------|----------------------|---------------------|------|------|-------------------|------|------|-----|--------------------------------------|
|                          |                  |                     |             |                      |                     |      |      | parts per billion |      |      |     |                                      |
| MW-6 (cont.)<br>(342.25) | 06/08/93         | NLPH                | 22.62       | 319.63               | <50                 | 0.6  | 0.7  | 1.7               | 1.8  | NA   | NA  | NA                                   |
|                          | 09/22/93         | NLPH                | 26.74       | 315.51               | <50                 | <0.5 | <0.5 | 0.7               | 1.1  | NA   | NA  | NA                                   |
|                          | 11/17-18/93      | NLPH                | 28.49       | 313.76               | <50                 | 0.6  | 0.8  | 1.2               | 3.9  | NA   | NA  | NA                                   |
|                          | 02/16-17/94      | NLPH                | 29.83       | 312.42               | 51                  | 3.8  | 7.9  | 2.0               | 11   | NA   | NA  | NA                                   |
| MW-7<br>(343.62)         | 03/19/91         | NLPH                | 24.68       | 318.94               | 140                 | <0.5 | <0.5 | <0.5              | <0.5 | <100 | NA  | 0.7 <sup>1</sup><br>0.8 <sup>2</sup> |
|                          | 06/27/91         | NLPH                | 23.10       | 320.52               | 100                 | 5.2  | 5.6  | 3.9               | 16   | <100 | NA  | ND                                   |
|                          | 09/26/91         | NM                  | NM          | ---                  |                     |      |      |                   |      |      |     |                                      |
|                          | 01/10/92         | NLPH                | 26.98       | 316.64               | <50                 | <0.5 | <0.5 | <0.5              | <0.5 | <100 | NA  | ND                                   |
|                          | 03/12-13/92      | NLPH                | 21.86       | 321.76               | 120                 | <0.5 | <0.5 | <0.5              | <0.5 |      | NA  | ND                                   |
|                          | 06/09/92         | NLPH                | 22.32       | 321.30               | 81                  | <0.5 | <0.5 | <0.5              | <0.5 | <100 | NA  | ND                                   |
|                          | 09/28-29/92      | NLPH                | 31.92       | 311.70               | <50                 | <0.5 | <0.5 | <0.5              | <0.5 | NA   | NA  | ND                                   |
|                          | 12/12/92         | NLPH                | 28.80       | 314.82               | 200                 | 5.1  | 6.9  | 3.3               | 19   | NA   | NA  | NA                                   |
|                          | 02/02-03/93      | NLPH                | 19.50       | 324.12               | 170                 | <0.5 | 6.6  | 0.6               | 1.7  | NA   | NA  | NA                                   |
|                          | 06/08-09/93      | NLPH                | 16.72       | 326.90               | <50                 | <0.5 | 0.8  | <0.5              | <0.5 | NA   | NA  | NA                                   |
|                          | 09/22/93         | NLPH                | 19.90       | 323.72               | <50                 | 0.6  | 0.9  | 0.7               | 1.1  | NA   | NA  | NA                                   |
|                          | 11/17-18/93      | NLPH                | 20.75       | 322.87               | <50                 | <0.5 | <0.5 | <0.5              | <0.5 | NA   | NA  | NA                                   |
|                          | 02/16-17/94      | NLPH                | 21.36       | 322.26               | <50                 | 0.9  | 2.7  | <0.5              | 3.2  | NA   | NA  | NA                                   |

See notes on page 8 of 8.

**TABLE 1  
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA**

Exxon Service Station 7-7003

349 Main Street

Pleasanton, California

(Page 7 of 8)

| Well ID #<br>(TOC) | Sampling<br>Date | SUBJ<br>< . . . . . | DTW<br>feet | Elev.<br>> . . . . . | TPHg<br>< . . . . . | B<br>parts per billion | T    | E    | X    | Lead | TOG | VOCs<br>> |
|--------------------|------------------|---------------------|-------------|----------------------|---------------------|------------------------|------|------|------|------|-----|-----------|
| MW-8<br>(344.00)   | 06/08-09/93      | NLPH                | 15.78       | 328.22               | 65                  | <0.5                   | 1.1  | 0.8  | 1.7  | NA   | NA  | NA        |
|                    | 09/22-23/93      | NLPH                | 18.86       | 325.14               | 110                 | 4.1                    | 8.9  | 6.7  | 14   | NA   | NA  | NA        |
|                    | 11/17-18/93      | NLPH                | 20.01       | 323.99               | 78                  | <0.5                   | 0.9  | <0.5 | <0.5 | NA   | NA  | NA        |
|                    | 02/16-17/94      | NLPH                | 20.30       | 323.70               | <50                 | <0.5                   | 1.8  | <0.5 | <0.5 | NA   | NA  | NA        |
| VE-1<br>(343.38)   | 09/28/92         | NLPH                | 31.92       | 311.46#              |                     |                        |      |      |      |      |     |           |
|                    | 06/08/93         | NLPH                | 16.44       | 326.94               | 5800                | <5.0                   | 15   | 830  | 500  | NA   | NA  | NA        |
|                    | 09/22-23/93      | NLPH                | 19.47       | 323.91               | 3700                | 5.4                    | 21   | 380  | 240  | NA   | NA  | NA        |
|                    | 11/17-18/93      | NLPH                | 20.64       | 322.74               | 3600                | 5.8                    | 2.0  | 220  | 180  | NA   | NA  | NA        |
|                    | 02/16-17/94      | NLPH                | 21.20       | 322.18               | 7600                | 31                     | 4.0  | 500  | 300  | NA   | NA  | NA        |
| VE-2<br>(343.39)   | 06/08/93         | NLPH                | 16.20       | 327.19               | 7000                | 10                     | 18   | 900  | 340  | NA   | NA  | NA        |
|                    | 09/22-23/93      | NLPH                | 19.23       | 324.16               | 2600                | 15                     | 33   | 240  | 82   | NA   | NA  | NA        |
|                    | 11/17-18/93      | NLPH                | 20.44       | 322.95               | 3500                | 22                     | <0.5 | 220  | 56   | NA   | NA  | NA        |
|                    | 02/16-17/94      | NLPH                | 20.90       | 322.49               | 3400                | 45                     | <5.0 | 220  | 60   | NA   | NA  | NA        |
| VE-3<br>(343.39)   | 06/08/93         | NLPH                | 16.48       | 326.91               | 130                 | 3.1                    | 3.1  | 18   | 15   | NA   | NA  | NA        |
|                    | 09/22-23/93      | NLPH                | 18.96       | 324.43               | 130                 | 11                     | 7.3  | 13   | 32   | NA   | NA  | NA        |
|                    | 11/17-18/93      | NLPH                | 20.00       | 323.39#              |                     |                        |      |      |      |      |     |           |
|                    | 02/16-17/94      | NLPH                | 21.02       | 322.37               | <50                 | <0.5                   | <0.5 | <0.5 | <0.5 | NA   | NA  | NA        |

See notes on page 8 of 8.

**TABLE 1**  
**CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA**  
 Exxon Service Station 7-7003  
 349 Main Street  
 Pleasanton, California  
 (Page 8 of 8)

| Well ID #<br>(TOC)                          | Sampling<br>Date | SUBJ<br>< . . . . . > | DTW<br>feet | Elev.<br>> . . . . . < | TPHg<br>< . . . . . > | B   | T   | E   | X    | Lead | TOG | VOCs<br>> . . . . . < |
|---|------------------|-----------------------|-------------|------------------------|-----------------------|-----|-----|-----|------|------|-----|-----------------------|
| <b>Maximum Contaminant Levels (MCLs)</b>    |                  |                       |             |                        | ---                   | 1.0 | --- | 680 | 1750 | ---  | --- | see                   |
| <b>Drinking Water Action Levels (DWALs)</b> |                  |                       |             |                        | ---                   | --- | 100 | --- | ---  | ---  | --- | below                 |

**Notes:**

|       |   |       |  |
|-------|---|-------|--|
| SUBJ  | = Results of subjective evaluation, free-phase product thickness (PT) in feet                     | *     | = Analyzed for total petroleum hydrocarbons as diesel using EPA method 3510/8015.      |
| NLPH  | = No liquid-phase hydrocarbons present in well  | ..    | = <small>Sample was diluted due to the presence of high levels of hydrocarbons</small> |
| TOC   | = Elevation of top of well casing relative to mean sea level                                      | 1     | = Chloroform (No MCL or DWAL)  |
| DTW   | = Depth to water  | 2     | = Bromodichloromethane (No MCL or DWAL)  |
| Elev. | = Elevation of groundwater  | 3     | = Tetrachloroethane  |
| TPHg  | = Total petroleum hydrocarbons as gasoline analyzed using modified EPA method 5030/8015.          | 4     | = 1,2-Dichloroethane (MCL = 0.5 ppb)   |
| BTEX  | = Benzene, Toluene, Ethylbenzene, and total Xylenes analyzed using modified EPA method 5030/8020. | 5     | = Methylene Chloride (DWAL = 40.0 ppb)   |
| VOCs  | = Volatile organic compounds analyzed using EPA method 624.                                       | 6     | = Trichloroethane  |
| TOG   | = Total oil and grease analyzed using Standard Method 5520.                                       | MCLs  | = Maximum Contaminant Levels (California Department of Health Services, October 1990)  |
| <     | = Less than the indicated detection limit shown by the laboratory                                 | DWAL  | = Drinking Water Action Level (California Department of Health Services, October 1990) |
| NA    | = Not Analyzed  | ---   | = Not applicable   |
| ND    | = Not Detected  | RESNA | = RESNA Industries Inc. began monitoring and sampling                                  |
| NR    | = Not Recorded  |       |  |
| #     | = Not Sampled   |       |  |

**APPENDIX A**

**GROUNDWATER SAMPLING PROTOCOL AND  
WELL PURGE DATA SHEETS**

## GROUNDWATER SAMPLING PROTOCOL

The static water level and liquid phase hydrocarbon level, if present, in each well that contained water and/or liquid phase hydrocarbons are measured with an ORS Interphase Probe Model No. 106801, which is accurate to the nearest 0.01 foot. To calculate groundwater elevations and evaluate groundwater gradient, depth to water (DTW) levels are subtracted from wellhead elevations and corrected for liquid phase hydrocarbon thickness (HT), when necessary, by multiplying (HT) by a correction factor 0.8 and subtracting from the DTW level (Adjusted DTW = DTW - [HT x 0.8]).

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

Before water samples are collected from the groundwater monitoring wells, the wells are purged until stabilization of the temperature, pH, and conductivity is obtained, or until a maximum of four well casing volumes are purged. Turbidity measurements are also collected from the purged well water. Water samples from the wells that do not obtain stability of the temperature, pH, and conductivity are considered to be "grab samples". Wells having demonstrated stabilization within purging of four well volumes for at least three consecutive quarters are not monitored for the above parameters. Instead, four well volumes are purged. The quantity of water purged from each well is calculated as follows:

1 well casing volume =  $\pi r^2 h (7.48)$  where:

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

Gallons of water purged/gallons in 1 well casing volume = well casing volumes removed.

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





**WELL PURGE DATA SHEET**

Project Name: Q 4 Exxon 7-2003

Job No. 1300528

Date: 7/17/94

Page 1 of 1

Well No. well 2

Time Started 11:49

| Time (hr) | Gallons (GAL.) | Temp. (F) | pH   | Conduct. (micromoh) | Turbidity (NTU) |
|-----------|----------------|-----------|------|---------------------|-----------------|
| 11:49     |                |           |      |                     | <del>7200</del> |
| 11:49     | 6              | 60.6      | 7.25 | 5.12                | 7200            |
| 11:53     | 12             | 64.0      | 7.11 | 5.06                | 38.1            |
| 12:03     | 24             | 65.4      | 6.70 | 5.80                | 16.0            |
| 12:13     | 33             | 66.0      | 6.77 | 5.98                | 7.5             |
| 12:15     | 36             | 66.2      | 6.75 | 6.14                | 4.0             |
| 12:20     | 46             | 65.9      | 6.69 | 6.19                | 3.4             |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |

12:20

Notes: Ground Fos  
 Conductivity at  
 (100)

Well diameter (inches) : 4  
 Depth to Bottom (feet) : 39.25  
 Depth to Water - initial (feet) : 20.93 2/16/94  
 Depth to Water - final (feet) : 20.97  
 % recovery : 100  
 Time Sampled : 15:00  
 Gallons per Well Casing Volume : 12.0  
 Gallons Purged : 46.0  
 Well Casing Volumes Purged : 3.8  
 Approximate Pumping Rate (gpm) : 1.5

**WELL PURGE DATA SHEET**

Project Name: Q4 Exam 7-7003

Job No. 130015.26

Date: 2/16/94

Page 1 of 1

Well No. 111.3

Time Started 13:55

| Time (hr) | Gallons (cum.) | Temp. (F) | pH   | Conduct. (micromoh) | Turbidity (NTU) |
|-----------|----------------|-----------|------|---------------------|-----------------|
| 13:55     |                |           |      |                     |                 |
| 13:55     | 0              | 70.3      | 6.34 | 9.24                | 9.6             |
| 14:08     | 12             | 71.8      | 6.41 | 8.02                | 11.4            |
| 14:21     | 24             | 76.1      | 6.52 | 8.17                | 10.5            |
| 14:34     | 36             | 70.7      | 6.38 | 8.63                | 5.5             |
| 14:39     | 39             | 69.9      | 6.43 | 8.52                | 5.0             |
| 14:43     | 42             | 69.5      | 6.41 | 8.53                | 4.3             |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |

13:55

Notes: Grounds  
 Conductivity at  
 (x100)

Well diameter (inches) : 4  
 Depth to Bottom (feet) : 39.00  
 Depth to Water - initial (feet) : 20.64  
 Depth to Water - final (feet) : 20.91  
 & recovery : 99  
 Time Sampled : 16:30  
 Gallons per Well Casing Volume : 12.0  
 Gallons Purged : 42  
 Well Casing Volumes Purged : 3.5  
 Approximate Pumping Rate (gpm) : 0.9

WELL PURGE DATA SHEET

Project Name: Q M Exxon 7-7003

Job No. 130015.20

Date: 2/11/94

Page 1 of 1

Well No. 46-4

Time Started 12:37

| Time (hr) | Gallons (cum.) | Temp. (F) | pH   | Conduct. (micromoh) | Turbidity (NTU) |
|-----------|----------------|-----------|------|---------------------|-----------------|
| 12:37     |                |           |      |                     |                 |
| 12:37     | 0              | 64.6      | 6.44 | 7.95                | 4.1             |
| 12:47     | 15             | 65.4      | 6.37 | 7.87                | 2.0             |
| 12:59     | 30             | 65.9      | 6.38 | 8.17                | 5.7             |
| 13:01     | Dry at 31      |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |

13:01

Notes: Groutas  
Conductivity at  
(X100)

Well diameter (inches) : 4  
Depth to Bottom (feet) : 47.57  
Depth to Water - initial (feet) : 23.44  
Depth to Water - final (feet) : 25.21  
& recovery : 90  
Time Sampled : 16:00  
Gallons per Well casing Volume : 15.4  
Gallons Purged : 31  
Well casing Volumes Purged : 2.0  
Approximate Pumping Rate (gpm) : 1.3

**WELL FURGE DATA SHEET**

Project Name: Cell Exxon 7-7003

Job No. 130015.20

Date: 2/12/91

Page 1 of 1

Well No. 116.5

Time Started 13:18

| Time (hr) | Gallons (cum.) | Temp. (F) | pH   | Conduct. (micromoh) | Turbidity (NTU) |
|-----------|----------------|-----------|------|---------------------|-----------------|
| 13:18     |                |           |      |                     |                 |
| 13:18     | 0              | 64.5      | 6.52 | 4.80                | 17.0            |
| 13:25     | 8              | 64.6      | 6.67 | 4.07                | 13.8            |
| 13:30     | 16             | 64.6      | 6.75 | 3.81                | 6.1             |
| 13:37     | 24             | 64.4      | 6.81 | 3.76                | 2.4             |
| 13:43     | 32             | 64.1      | 6.83 | 3.74                | 2.3             |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |

13:43

Notes: Groundfos

Conductivity at (x100)

Well diameter (inches) : 4

Depth to Bottom (feet) : 33.37

Depth to Water - initial (feet) : 21.61

Depth to Water - final (feet) : 21.61

% recovery : 100

Time sampled : 16:15

Gallons per Well Casing Volume : 7.7

Gallons Purged : 32

Well Casing Volumes Purged : 4.2

Approximate Pumping Rate (gpm) : 1.2

**WELL PURGE DATA SHEET**

Project Name: Q 21 E. 7-7023

Job No. 130015.20

Date: 2/16/74

Page 1 of 1

Well No. 200-6

Time Started 10:37

| Time (hr) | Gallons (cum.) | Temp. (F) | pH   | Conduct. (micromoh) | Turbidity (NTU) |
|-----------|----------------|-----------|------|---------------------|-----------------|
| 10:37     |                |           |      |                     |                 |
| 10:37     | 0              | 56.5      | 6.69 | 6.00                | 10.2            |
| 10:48     | 18             | 62.0      | 6.69 | 6.54                | 19.7            |
| 11:00     | 36             | 64.5      | 6.74 | 7.06                | 5.4             |
| 11:10     | 52             | 62.8      | 6.71 | 6.92                | 5.4             |
| 11:14     | 54             | 63.7      | 6.71 | 7.09                | 2.6             |
| 11:18     | 62             | 63.8      | 6.75 | 7.02                | 2.2             |
| 11:20     | 63             |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
| 11:20     |                |           |      |                     |                 |

Notes:

Gravellic  
Conductivity  
at (100')

Well diameter (inches) : 4  
 Depth to Bottom (feet) : 53.01  
 Depth to Water - initial (feet) : 24.83  
 Depth to Water - final (feet) : 29.92  
 % recovery : 100  
 Time Sampled : 14:20  
 Gallons per Well casing Volume : 13.4  
 Gallons Purged : 63  
 Well Casing Volumes Purged : 3.4  
 Approximate Pumping Rate (gpm) : 1.5

**WELL PURGE DATA SHEET**

Project Name: Case Exxon 7-7003

Job No. 130015.20

Date: 2/16/94

Page 1 of 1

Well No. 011E-7

Time Started 11:43

| Time (hr) | Gallons (cum.) | Temp. (F)       | pH   | Conduct. (micromoh) | Turbidity (NTU) |  |
|-----------|----------------|-----------------|------|---------------------|-----------------|--|
| 11:43     |                |                 |      |                     |                 |  |
| 11:43     | 0              | 64.2            | 6.12 | 4.35                | 76.5            |  |
| 11:51     | 15             | 63.6            | 6.20 | 4.29                | 19.6            |  |
| 12:03     | 30             | 62.55           | 6.61 | 4.41                | 11.9            |  |
| 12:10     | 41             | 63.7            | 6.53 | 4.44                | 12.4            |  |
| 12:13     | 45             | 64.2            | 6.51 | 4.55                | 13.3            |  |
| 12:15     | 48.5           | stopped purging |      |                     |                 |  |
|           |                |                 |      |                     |                 |  |
|           |                |                 |      |                     |                 |  |
|           |                |                 |      |                     |                 |  |
|           |                |                 |      |                     |                 |  |
|           |                |                 |      |                     |                 |  |
|           |                |                 |      |                     |                 |  |
|           |                |                 |      |                     |                 |  |
|           |                |                 |      |                     |                 |  |
|           |                |                 |      |                     |                 |  |

12:15

Notes: Gravel & fos  
 (conductivity at  
 100cc)

Well diameter (inches) : 4  
 Depth to Bottom (feet) : 44.91  
 Depth to Water - initial (feet) : 21.36  
 Depth to Water - final (feet) : 21.44  
 % recovery : 100  
 Time Sampled : 15:30  
 Gallons per Well Casing Volume : 15.4  
 Gallons Purged : 48.5  
 Well Casing Volumes Purged : 3.2  
 Approximate Pumping Rate (gpm) : 1.5

WELL PURGE DATA SHEET

Project Name: Exxon 7-7003

Job No. 130015.2a

Date: 2/16/74

Page 1 of 1

Well No. 40-8

Time Started 13:05

| Time (hr) | Gallons (cum.) | Temp. (F)       | pH   | Conduct. (micromoh) | Turbidity (NTU) |
|-----------|----------------|-----------------|------|---------------------|-----------------|
| 13:05     |                |                 |      |                     |                 |
| 13:05     | 0              | 63.4            | 6.12 | 13.29               | 51.9            |
| 14:00     | 1.5            | 70.1            | 6.15 | 14.63               | 2200            |
| 14:05     | 2.0            | DN of 2 gallons |      |                     |                 |
|           |                |                 |      |                     |                 |
|           |                |                 |      |                     |                 |
|           |                |                 |      |                     |                 |
|           |                |                 |      |                     |                 |
|           |                |                 |      |                     |                 |
|           |                |                 |      |                     |                 |
|           |                |                 |      |                     |                 |
|           |                |                 |      |                     |                 |
|           |                |                 |      |                     |                 |
|           |                |                 |      |                     |                 |
|           |                |                 |      |                     |                 |

14:05

Notes: Hand bailed

Well diameter (inches) : 4  
 Depth to Bottom (feet) : 22.81  
 Depth to Water - initial (feet) : 20.30 2/16/74  
 Depth to Water - final (feet) : 19.80  
 & recovery : 120  
 Time sampled : 14:35 2/17  
 Gallons per Well Casing Volume : 1.6  
 Gallons Purged : 2.0  
 Well Casing Volume Purged : 1.25  
 Approximate Pumping Rate (gpm) : 0.03

Conductivity  
 x100



**WELL PURGE DATA SHEET**

Project Name: Q4 Exxon 77003

Job No. 130015.20

Date: 2/17/94

Page 1 of 1

Well No. VE-1

Time Started 12:44

| Time (hr) | Gallons (cum.) | Temp. (F) | pH   | Conduct. (micromoh) | Turbidity (NTU) |
|-----------|----------------|-----------|------|---------------------|-----------------|
| 12:44     |                |           |      |                     |                 |
| 12:44     | 0              | 64.8      | 6.69 | 8.65                | 6.7             |
| 12:50     | 1              | 65.6      | 6.63 | 8.75                | >200            |
| 13:03     | 2              | 65.2      | 6.72 | 8.81                | >200            |
| 13:12     | 3              | 65.5      | 6.71 | 8.61                | >200            |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
| 13:12     |                |           |      |                     |                 |

Notes: Hand bailed.  
Conduct with / at  
(X10)

Well diameter (inches) : 2  
 Depth to Bottom (feet) : 26.75  
 Depth to Water - initial (feet) : 21.20  
 Depth to Water - final (feet) : 20.78  
 % recovery : 108  
 Time Sampled : 15:15  
 Gallons per Well Casing Volume : 0.9  
 Gallons Purged : 3  
 Well Casing Volumes Purged : 3.3  
 Approximate Pumping Rate (gpm) : 0.1

2/16/94

**WELL PURGE DATA SHEET**

Project Name: Q M Exxon 7-7003

Job No. 130015.20

Date: 2/17/94

Page 1 of 1

Well No. VE-2

Time Started 10:45

| Time (hr) | Gallons (cum.) | Temp. (F) | pH   | Conduct. (micromoh) | Turbidity (NTU) |
|-----------|----------------|-----------|------|---------------------|-----------------|
| 10:45     |                |           |      |                     |                 |
| 10:45     | 0              | 59.3      | 6.52 | 7.71                | 33.9            |
| 10:48     | 2              | 60.9      | 6.57 | 8.09                | >200            |
| 10:59     | 4              | 62.2      | 6.71 | 8.29                | >200            |
| 11:25     | 6              | 62.5      | 6.75 | 8.29                | 170.7           |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |
|           |                |           |      |                     |                 |

11:25

Notes: Hand bailed  
 Conductivity at  
 (x 100)  
 also

Well diameter (inches) : 4  
 Depth to Bottom (feet) : 23.63  
 Depth to Water - initial (feet) : 20.90  
 Depth to Water - final (feet) : 20.66  
 & recovery : 109  
 Time Sampled : 15:05  
 Gallons per Well casing Volume : 1.8  
 Gallons Purged : 6  
 Well Casing Volume Purged : 3.3  
 Approximate Pumping Rate (gpm) : 0.15

**WELL PURGE DATA SHEET**

Project Name: Q21 Fixon 7-7003

Job No. BCGF-208

Date: 7/16/94

Page 1 of 1

Well No. #VE-3

Time Started 14:14

| Time (hr) | Gallons (cum.) | Temp. (F)         | pH   | Conduct. (micromoh) | Turbidity (NTU) |  |
|-----------|----------------|-------------------|------|---------------------|-----------------|--|
| 14:14     |                |                   |      |                     |                 |  |
| 14:14     | 0              | 71.8              | 6.70 | 14.01               | 40.00           |  |
| 14:17     | 1.3            | 71.1              | 6.70 | 14.12               | > 200           |  |
| 15:00     | 2.0            | Dug out = gallons |      |                     |                 |  |
|           |                |                   |      |                     |                 |  |
|           |                |                   |      |                     |                 |  |
|           |                |                   |      |                     |                 |  |
|           |                |                   |      |                     |                 |  |
|           |                |                   |      |                     |                 |  |
|           |                |                   |      |                     |                 |  |
|           |                |                   |      |                     |                 |  |
|           |                |                   |      |                     |                 |  |
|           |                |                   |      |                     |                 |  |
|           |                |                   |      |                     |                 |  |
|           |                |                   |      |                     |                 |  |
|           |                |                   |      |                     |                 |  |
|           |                |                   |      |                     |                 |  |
|           |                |                   |      |                     |                 |  |
|           |                |                   |      |                     |                 |  |
|           |                |                   |      |                     |                 |  |
|           |                |                   |      |                     |                 |  |

15:00

Notes: Hand bailed  
 Conductivity at LX100

Well diameter (inches) : 4  
 Depth to Bottom (feet) : 23.00  
 Depth to Water - initial (feet) : 21.02  
 Depth to Water - final (feet) : 22.35  
     & recovery : 42  
 Time Sampled : 14:45 2/17  
 Gallons per Well Casing Volume : 13  
     Gallons Purged : 2  
 Well Casing Volumes Purged : 1.5  
 Approximate Pumping Rate (gpm) : 0.04

**APPENDIX B**

**LABORATORY ANALYSIS REPORTS  
AND CHAIN OF CUSTODY RECORDS**

**REPORT OF LABORATORY ANALYSIS**

February 28, 1994

RECEIVED

FEB 28 1994

3 34  
SAN JOSE

Mr. Marc Briggs  
RESNA  
3315 Almaden Expressway Suite 34  
San Jose, CA 95118

RE: PACE Project No. 440218.511  
Client Reference: Exxon 7-7003 (EE)

Dear Mr. Briggs:

Enclosed is the report of laboratory analyses for samples received February 18, 1994.

Footnotes are given at the end of the report.

If you have any questions concerning this report, please feel free to contact us.

Sincerely,

*Stephanie Matzo*

Stephanie Matzo  
Project Manager

Enclosures



# REPORT OF LABORATORY ANALYSIS

RESNA  
3315 Almaden Expressway Suite 34  
San Jose, CA 95118

February 28, 1994  
PACE Project Number: 440218511

Attn: Mr. Marc Briggs

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:  
Date Collected:  
Date Received:

70 0249694  
02/16/94  
02/18/94  
R7

| <u>Parameter</u>                         | <u>Units</u> | <u>MDL</u> |    | <u>DATE ANALYZED</u> |
|--|--------------|------------|----|----------------------|
| <u>ORGANIC ANALYSIS</u>                  |              |            |    |                      |
| PURGEABLE FUELS AND AROMATICS            |              |            |    |                      |
| TOTAL FUEL HYDROCARBONS, (LIGHT):        |              |            | -  | 02/23/94             |
| Purgeable Fuels, as Gasoline (EPA 8015M) | ug/L         | 50         | ND | 02/23/94             |
| PURGEABLE AROMATICS (BTXE BY EPA 8020M): |              |            |    |                      |
| Benzene                                  | ug/L         | 0.5        | ND | 02/23/94             |
| Toluene                                  | ug/L         | 0.5        | ND | 02/23/94             |
| Ethylbenzene                             | ug/L         | 0.5        | ND | 02/23/94             |
| Xylenes, Total                           | ug/L         | 0.5        | ND | 02/23/94             |

**REPORT OF LABORATORY ANALYSIS**

Mr. Marc Briggs  
 Page 2

February 28, 1994  
 PACE Project Number: 440218511

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number: 70 0249708  
 Date Collected: 02/16/94  
 Date Received: 02/18/94  
 Client Sample ID: W-21-MW7

| <u>Parameter</u> | <u>Units</u> | <u>MDL</u> | <u>DATE ANALYZED</u> |
|------------------|--------------|------------|----------------------|
|------------------|--------------|------------|----------------------|

ORGANIC ANALYSIS

|   |      |     |          |
|---|------|-----|----------|
| <u>PURGEABLE FUELS AND AROMATICS</u>            |      |     |          |
| <u>TOTAL FUEL HYDROCARBONS, (LIGHT):</u>        |      |     |          |
| Purgeable Fuels, as Gasoline (EPA 8015M)        | ug/L | 50  | 02/24/94 |
| <u>PURGEABLE AROMATICS (BTXE BY EPA 8020M):</u> |      |     |          |
| Benzene   | ug/L | 0.5 | 02/24/94 |
| Toluene   | ug/L | 0.5 | 02/24/94 |
| Ethylbenzene                                    | ug/L | 0.5 | 02/24/94 |
| Xylenes, Total                                  | ug/L | 0.5 | 02/24/94 |

**REPORT OF LABORATORY ANALYSIS**

Mr. Marc Briggs  
 Page 3

February 28, 1994  
 PACE Project Number: 440218511

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:  
 Date Collected:  
 Date Received:  
 Client Sample ID:

70 0249724  
 02/16/94  
 02/18/94  
 W-25-MW4

| <u>Parameter</u> | <u>Units</u> | <u>MDL</u> | <u>DATE ANALYZED</u> |
|------------------|--------------|------------|----------------------|
|------------------|--------------|------------|----------------------|

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

|  |      |     |     |          |
|--|------|-----|-----|----------|
| TOTAL FUEL HYDROCARBONS, (LIGHT):        |      |     | -   | 02/24/94 |
| Purgeable Fuels, as Gasoline (EPA 8015M) | ug/L | 50  | 98  | 02/24/94 |
| PURGEABLE AROMATICS (BTXE BY EPA 8020M): |      |     | -   | 02/24/94 |
| Benzene                                  | ug/L | 0.5 | 8.7 | 02/24/94 |
| Toluene                                  | ug/L | 0.5 | 17  | 02/24/94 |
| Ethylbenzene                             | ug/L | 0.5 | 4.2 | 02/24/94 |
| Xylenes, Total                           | ug/L | 0.5 | 24  | 02/24/94 |

HALOGENATED VOLATILE COMPOUNDS EPA 8010

|                                   |      |     |         |          |
|-----------------------------------|------|-----|---------|----------|
| Dichlorodifluoromethane           | ug/L | 2.0 | ND      | 02/23/94 |
| Chloromethane                     | ug/L | 2.0 | ND      | 02/23/94 |
| Vinyl Chloride                    | ug/L | 2.0 | ND      | 02/23/94 |
| Bromomethane                      | ug/L | 2.0 | ND      | 02/23/94 |
| Chloroethane                      | ug/L | 2.0 | ND      | 02/23/94 |
| Trichlorofluoromethane (Freon 11) | ug/L | 2.0 | ND      | 02/23/94 |
| 1,1-Dichloroethene                | ug/L | 0.5 | ND      | 02/23/94 |
| Methylene Chloride                | ug/L | 2.0 | ND      | 02/23/94 |
| trans-1,2-Dichloroethene          | ug/L | 0.5 | ND      | 02/23/94 |
| cis-1,2-Dichloroethene            | ug/L | 0.5 | ND      | 02/23/94 |
| 1,1-Dichloroethane                | ug/L | 0.5 | ND      | 02/23/94 |
| Chloroform                        | ug/L | 0.5 | ND      | 02/23/94 |
| 1,1,1-Trichloroethane (TCA)       | ug/L | 0.5 | ND      | 02/23/94 |
| Carbon Tetrachloride              | ug/L | 0.5 | ND      | 02/23/94 |
| 1,2-Dichloroethane (EDC)          | ug/L | 0.5 | 0.5 (1) | 02/23/94 |
| Trichloroethene (TCE)             | ug/L | 0.5 | ND      | 02/23/94 |
| 1,2-Dichloropropane               | ug/L | 0.5 | ND      | 02/23/94 |
| Bromodichloromethane              | ug/L | 0.5 | ND      | 02/23/94 |
| 2-Chloroethylvinyl ether          | ug/L | 0.5 | ND      | 02/23/94 |
| cis-1,3-Dichloropropene           | ug/L | 0.5 | ND      | 02/23/94 |
| trans-1,3-Dichloropropene         | ug/L | 0.5 | ND      | 02/23/94 |
| 1,1,2-Trichloroethane             | ug/L | 0.5 | ND      | 02/23/94 |
| Tetrachloroethene                 | ug/L | 0.5 | ND      | 02/23/94 |



**REPORT OF LABORATORY ANALYSIS**

Mr. Marc Briggs  
 Page 4

February 28, 1994  
 PACE Project Number: 440218511

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number: 70 0249724  
 Date Collected: 02/16/94  
 Date Received: 02/18/94  
 Client Sample ID: W-25-MW4

| <u>Parameter</u> | <u>Units</u> | <u>MDL</u> | <u>DATE ANALYZED</u> |
|------------------|--------------|------------|----------------------|
|------------------|--------------|------------|----------------------|

ORGANIC ANALYSIS

HALOGENATED VOLATILE COMPOUNDS EPA 8010

|   |      |     |     |          |
|---|------|-----|-----|----------|
| Dibromochloromethane                    | ug/L | 0.5 | ND  | 02/23/94 |
| Chlorobenzene                           | ug/L | 0.5 | ND  | 02/23/94 |
| Bromoform                               | ug/L | 0.5 | ND  | 02/23/94 |
| 1,1,2,2-Tetrachloroethane               | ug/L | 0.5 | ND  | 02/23/94 |
| 1,3-Dichlorobenzene                     | ug/L | 0.5 | ND  | 02/23/94 |
| 1,4-Dichlorobenzene                     | ug/L | 0.5 | ND  | 02/23/94 |
| 1,2-Dichlorobenzene                     | ug/L | 0.5 | ND  | 02/23/94 |
| Bromochloromethane (Surrogate Recovery) | %    |     | 95  | 02/23/94 |
| 1,4-Dichlorobutane (Surrogate Recovery) | %    |     | 101 | 02/23/94 |

**REPORT OF LABORATORY ANALYSIS**

Mr. Marc Briggs  
 Page 5

February 28, 1994  
 PACE Project Number: 440218511

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:  
 Date Collected:  
 Date Received:  
 Client Sample ID:

70 0249740  
 02/16/94  
 02/18/94  
 W-21-MW5

| <u>Parameter</u> | <u>Units</u> | <u>MDL</u> | <u>DATE ANALYZED</u> |
|------------------|--------------|------------|----------------------|
|------------------|--------------|------------|----------------------|

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

|   |      |     |     |          |
|---|------|-----|-----|----------|
| TOTAL FUEL HYDROCARBONS, (LIGHT):               |      |     | -   | 02/24/94 |
| Purgeable Fuels, as Gasoline (EPA 8015M)        | ug/L | 50  | ND  | 02/24/94 |
| <u>PURGEABLE AROMATICS (BTXE BY EPA 8020M):</u> |      |     | -   | 02/24/94 |
| Benzene   | ug/L | 0.5 | 1.2 | 02/24/94 |
| Toluene   | ug/L | 0.5 | 4.3 | 02/24/94 |
| Ethylbenzene                                    | ug/L | 0.5 | 1.4 | 02/24/94 |
| Xylenes, Total                                  | ug/L | 0.5 | 8.2 | 02/24/94 |

**REPORT OF LABORATORY ANALYSIS**

Mr. Marc Briggs  
 Page 6

February 28, 1994  
 PACE Project Number: 440218511

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:  
 Date Collected:  
 Date Received:  
 Client Sample ID:  
 Parameter

70 0249791  
 02/16/94  
 02/18/94  
 W-20-MW3

Units                      MDL                      DATE ANALYZED

ORGANIC ANALYSIS

|  |      |     |     |          |
|--|------|-----|-----|----------|
| PURGEABLE FUELS AND AROMATICS            |      |     |     |          |
| TOTAL FUEL HYDROCARBONS, (LIGHT):        |      |     |     |          |
| Purgeable Fuels, as Gasoline (EPA 8015M) | ug/L | 50  | -   | 02/24/94 |
| PURGEABLE AROMATICS (BTXE BY EPA 8020M): |      |     |     |          |
| Benzene                                  | ug/L | 0.5 | 1.5 | 02/24/94 |
| Toluene                                  | ug/L | 0.5 | 5.3 | 02/24/94 |
| Ethylbenzene                             | ug/L | 0.5 | 1.6 | 02/24/94 |
| Xylenes, Total                           | ug/L | 0.5 | 9.2 | 02/24/94 |

**REPORT OF LABORATORY ANALYSIS**

Mr. Marc Briggs  
 Page 7

February 28, 1994  
 PACE Project Number: 440218511

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:  
 Date Collected:  
 Date Received:  
 Client Sample ID:  
 Parameter

70 0249830  
 02/17/94  
 02/18/94  
 W-29-MW6

Units                      MDL                      DATE ANALYZED

ORGANIC ANALYSIS

|  |      |     |     |          |
|--|------|-----|-----|----------|
| PURGEABLE FUELS AND AROMATICS            |      |     |     |          |
| TOTAL FUEL HYDROCARBONS, (LIGHT):        |      |     |     |          |
| Purgeable Fuels, as Gasoline (EPA 8015M) | ug/L | 50  | -   | 02/24/94 |
| PURGEABLE AROMATICS (BTXE BY EPA 8020M): |      |     |     |          |
| Benzene                                  | ug/L | 0.5 | 3.8 | 02/24/94 |
| Toluene                                  | ug/L | 0.5 | 7.9 | 02/24/94 |
| Ethylbenzene                             | ug/L | 0.5 | 2.0 | 02/24/94 |
| Xylenes, Total                           | ug/L | 0.5 | 11  | 02/24/94 |

**REPORT OF LABORATORY ANALYSIS**

Mr. Marc Briggs  
 Page 8

February 28, 1994  
 PACE Project Number: 440218511

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number: 70 0249872  
 Date Collected: 02/17/94  
 Date Received: 02/18/94  
 Client Sample ID: W-19-MW8

| <u>Parameter</u> | <u>Units</u> | <u>MDL</u> | <u>DATE ANALYZED</u> |
|------------------|--------------|------------|----------------------|
|------------------|--------------|------------|----------------------|

ORGANIC ANALYSIS

|   |      |     |          |
|---|------|-----|----------|
| <u>PURGEABLE FUELS AND AROMATICS</u>            |      |     |          |
| <u>TOTAL FUEL HYDROCARBONS, (LIGHT):</u>        |      |     |          |
| Purgeable Fuels, as Gasoline (EPA 8015M)        | ug/L | 50  | 02/24/94 |
| <u>PURGEABLE AROMATICS (BTXE BY EPA 8020M):</u> |      |     |          |
| Benzene   | ug/L | 0.5 | 02/24/94 |
| Toluene   | ug/L | 0.5 | 02/24/94 |
| Ethylbenzene                                    | ug/L | 0.5 | 02/24/94 |
| Xylenes, Total                                  | ug/L | 0.5 | 02/24/94 |

**REPORT OF LABORATORY ANALYSIS**

Mr. Marc Briggs  
 Page 9

February 28, 1994  
 PACE Project Number: 440218511

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number: 70 0249880  
 Date Collected: 02/17/94  
 Date Received: 02/18/94  
 Client Sample ID: W-22-VE3

| <u>Parameter</u> | <u>Units</u> | <u>MDL</u> | <u>DATE ANALYZED</u> |
|------------------|--------------|------------|----------------------|
|------------------|--------------|------------|----------------------|

ORGANIC ANALYSIS

|   |      |     |    |
|---|------|-----|----|
| <u>PURGEABLE FUELS AND AROMATICS</u>            |      |     |    |
| <u>TOTAL FUEL HYDROCARBONS, (LIGHT):</u>        |      |     |    |
| Purgeable Fuels, as Gasoline (EPA 8015M)        | ug/L | 50  | ND |
| <u>PURGEABLE AROMATICS (BTXE BY EPA 8020M):</u> |      |     |    |
| Benzene   | ug/L | 0.5 | ND |
| Toluene   | ug/L | 0.5 | ND |
| Ethylbenzene                                    | ug/L | 0.5 | ND |
| Xylenes, Total                                  | ug/L | 0.5 | ND |

**REPORT OF LABORATORY ANALYSIS**

Mr. Marc Briggs  
 Page 10

February 28, 1994  
 PACE Project Number: 440218511

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number: 70 0249899  
 Date Collected: 02/17/94  
 Date Received: 02/18/94  
 Client Sample ID: W-20-MW2

| <u>Parameter</u> | <u>Units</u> | <u>MDL</u> | <u>DATE ANALYZED</u> |
|------------------|--------------|------------|----------------------|
|------------------|--------------|------------|----------------------|

ORGANIC ANALYSIS

|  |      |     |          |
|--|------|-----|----------|
| PURGEABLE FUELS AND AROMATICS            |      |     |          |
| TOTAL FUEL HYDROCARBONS, (LIGHT):        |      |     | 02/24/94 |
| Purgeable Fuels, as Gasoline (EPA 8015M) | ug/L | 50  | 280      |
| PURGEABLE AROMATICS (BTXE BY EPA 8020M): |      |     | 02/24/94 |
| Benzene                                  | ug/L | 0.5 | ND       |
| Toluene                                  | ug/L | 0.5 | 2.3      |
| Ethylbenzene                             | ug/L | 0.5 | 1.0      |
| Xylenes, Total                           | ug/L | 0.5 | 2.0      |

**REPORT OF LABORATORY ANALYSIS**

Mr. Marc Briggs  
 Page 11

February 28, 1994  
 PACE Project Number: 440218511

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:  
 Date Collected:  
 Date Received:  
 Client Sample ID:  
 Parameter

70 0249910  
 02/17/94  
 02/18/94  
 W-20-VE2

Units                      MDL                      DATE ANALYZED

ORGANIC ANALYSIS

|  |      |     |      |          |
|--|------|-----|------|----------|
| PURGEABLE FUELS AND AROMATICS            |      |     |      |          |
| TOTAL FUEL HYDROCARBONS, (LIGHT):        |      |     |      |          |
| Purgeable Fuels, as Gasoline (EPA 8015M) | ug/L | 500 | -    | 02/24/94 |
| PURGEABLE AROMATICS (BTXE BY EPA 8020M): |      |     | 3400 | 02/24/94 |
| Benzene                                  | ug/L | 5.0 | -    | 02/24/94 |
| Toluene                                  | ug/L | 5.0 | 45   | 02/24/94 |
| Ethylbenzene                             | ug/L | 5.0 | ND   | 02/24/94 |
|  |      |     | 220  | 02/24/94 |
| Xylenes, Total                           | ug/L | 5.0 | 60   | 02/24/94 |



**REPORT OF LABORATORY ANALYSIS**

Mr. Marc Briggs  
 Page 12

February 28, 1994  
 PACE Project Number: 440218511

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number: 70 0249929  
 Date Collected: 02/17/94  
 Date Received: 02/18/94  
 Client Sample ID: W-20-VE1

| <u>Parameter</u> | <u>Units</u> | <u>MDL</u> | <u>DATE ANALYZED</u> |
|------------------|--------------|------------|----------------------|
|------------------|--------------|------------|----------------------|

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

|  |      |     |      |          |
|--|------|-----|------|----------|
| TOTAL FUEL HYDROCARBONS, (LIGHT):        |      |     | -    | 02/24/94 |
| Purgeable Fuels, as Gasoline (EPA 8015M) | ug/L | 250 | 7600 | 02/24/94 |
| PURGEABLE AROMATICS (BTXE BY EPA 8020M): |      |     | -    | 02/24/94 |
| Benzene                                  | ug/L | 2.5 | 31   | 02/24/94 |
| Toluene                                  | ug/L | 2.5 | 4.0  | 02/24/94 |
| Ethylbenzene                             | ug/L | 2.5 | 500  | 02/24/94 |
| Xylenes, Total                           | ug/L | 2.5 | 300  | 02/24/94 |

Mr. Marc Briggs  
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February 28, 1994  
 PACE Project Number: 440218511

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number: 70 0249937  
 Date Collected: 02/17/94  
 Date Received: 02/18/94  
 Client Sample ID: W-21-MW1

| <u>Parameter</u> | <u>Units</u> | <u>MDL</u> | <u>DATE ANALYZED</u> |
|------------------|--------------|------------|----------------------|
|------------------|--------------|------------|----------------------|

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

|  |      |     |      |          |
|--|------|-----|------|----------|
| TOTAL FUEL HYDROCARBONS, (LIGHT):        |      |     | -    | 02/24/94 |
| Purgeable Fuels, as Gasoline (EPA 8015M) | ug/L | 500 | 6700 | 02/24/94 |
| PURGEABLE AROMATICS (BTXE BY EPA 8020M): |      |     | -    | 02/24/94 |
| Benzene                                  | ug/L | 5.0 | 42   | 02/24/94 |
| Toluene                                  | ug/L | 5.0 | 15   | 02/24/94 |
| Ethylbenzene                             | ug/L | 5.0 | 470  | 02/24/94 |
| Xylenes, Total                           | ug/L | 5.0 | 330  | 02/24/94 |

HALOGENATED VOLATILE COMPOUNDS EPA 8010

|                                   |      |     |          |          |
|-----------------------------------|------|-----|----------|----------|
| Dichlorodifluoromethane           | ug/L | 100 | H1<br>ND | 02/23/94 |
| Chloromethane                     | ug/L | 100 | ND       | 02/23/94 |
| Vinyl Chloride                    | ug/L | 100 | ND       | 02/23/94 |
| Bromomethane                      | ug/L | 100 | ND       | 02/23/94 |
| Chloroethane                      | ug/L | 100 | ND       | 02/23/94 |
| Trichlorofluoromethane (Freon 11) | ug/L | 100 | ND       | 02/23/94 |
| 1,1-Dichloroethene                | ug/L | 25  | ND       | 02/23/94 |
| Methylene Chloride                | ug/L | 100 | ND       | 02/23/94 |
| trans-1,2-Dichloroethene          | ug/L | 25  | ND       | 02/23/94 |
| cis-1,2-Dichloroethene            | ug/L | 25  | ND       | 02/23/94 |
| 1,1-Dichloroethane                | ug/L | 25  | ND       | 02/23/94 |
| Chloroform                        | ug/L | 25  | ND       | 02/23/94 |
| 1,1,1-Trichloroethane (TCA)       | ug/L | 25  | ND       | 02/23/94 |
| Carbon Tetrachloride              | ug/L | 25  | ND       | 02/23/94 |
| 1,2-Dichloroethane (EDC)          | ug/L | 25  | ND       | 02/23/94 |
| Trichloroethene (TCE)             | ug/L | 25  | ND       | 02/23/94 |
| 1,2-Dichloropropane               | ug/L | 25  | ND       | 02/23/94 |
| Bromodichloromethane              | ug/L | 25  | ND       | 02/23/94 |
| 2-Chloroethylvinyl ether          | ug/L | 25  | ND       | 02/23/94 |
| cis-1,3-Dichloropropene           | ug/L | 25  | ND       | 02/23/94 |
| trans-1,3-Dichloropropene         | ug/L | 25  | ND       | 02/23/94 |
| 1,1,2-Trichloroethane             | ug/L | 25  | ND       | 02/23/94 |
| Tetrachloroethene                 | ug/L | 25  | ND       | 02/23/94 |

**REPORT OF LABORATORY ANALYSIS**

Mr. Marc Briggs  
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February 28, 1994  
 PACE Project Number: 440218511

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number: 70 0249937  
 Date Collected: 02/17/94  
 Date Received: 02/18/94  
 Client Sample ID: W-21-MW1

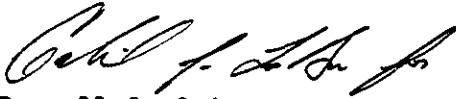
| <u>Parameter</u> | <u>Units</u> | <u>MDL</u> | <u>DATE ANALYZED</u> |
|------------------|--------------|------------|----------------------|
|------------------|--------------|------------|----------------------|

ORGANIC ANALYSIS

HALOGENATED VOLATILE COMPOUNDS EPA 8010

|   |      |    |          |          |
|---|------|----|----------|----------|
| Dibromochloromethane                    | ug/L | 25 | H1<br>ND | 02/23/94 |
| Chlorobenzene                           | ug/L | 25 | ND       | 02/23/94 |
| Bromoform                               | ug/L | 25 | ND       | 02/23/94 |
| 1,1,2,2-Tetrachloroethane               | ug/L | 25 | ND       | 02/23/94 |
| 1,3-Dichlorobenzene                     | ug/L | 25 | ND       | 02/23/94 |
| 1,4-Dichlorobenzene                     | ug/L | 25 | ND       | 02/23/94 |
| 1,2-Dichlorobenzene                     | ug/L | 25 | ND       | 02/23/94 |
| Bromochloromethane (Surrogate Recovery) | %    |    | 112      | 02/23/94 |
| 1,4-Dichlorobutane (Surrogate Recovery) | %    |    | 103      | 02/23/94 |

These data have been reviewed and are approved for release.



Darrell C. Cain  
 Regional Director

Mr. Marc Briggs  
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FOOTNOTES  
for pages 1 through 14

February 28, 1994  
PACE Project Number: 440218511

Client Reference: Exxon 7-7003 (EE)

MDL Method Detection Limit  
ND Not detected at or above the MDL.  
(1) Quantitation was based upon a one point calibration.  
HI Sample was diluted due to high levels of hydrocarbons present.

Mr. Marc Briggs  
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QUALITY CONTROL DATA

February 28, 1994  
 PACE Project Number: 440218511

Client Reference: Exxon 7-7003 (EE)

HALOGENATED VOLATILE COMPOUNDS EPA 8010

Batch: 70 28482  
 Samples: 70 0249937

METHOD BLANK:

| Parameter                                 | Units | MDL | Method Blank |
|---|-------|-----|--------------|
| Dichlorodifluoromethane                   | ug/L  | 2.0 | ND           |
| Chloromethane                             | ug/L  | 2.0 | ND           |
| Vinyl Chloride                            | ug/L  | 2.0 | ND           |
| Bromomethane                              | ug/L  | 2.0 | ND           |
| Chloroethane                              | ug/L  | 2.0 | ND           |
| Trichlorofluoromethane (Freon 11)         | ug/L  | 2.0 | ND           |
| 1,1-Dichloroethene                        | ug/L  | 0.5 | ND           |
| Methylene Chloride                        | ug/L  | 2.0 | ND           |
| trans-1,2-Dichloroethene                  | ug/L  | 0.5 | ND           |
| cis-1,2-Dichloroethene                    | ug/L  | 0.5 | ND           |
| 1,1-Dichloroethane                        | ug/L  | 0.5 | ND           |
| Chloroform                                | ug/L  | 0.5 | ND           |
| 1,1,1-Trichloroethane (TCA)               | ug/L  | 0.5 | ND           |
| Carbon Tetrachloride                      | ug/L  | 0.5 | ND           |
| 1,2-Dichloroethane (EDC)                  | ug/L  | 0.5 | ND           |
| Trichloroethene (TCE)                     | ug/L  | 0.5 | ND           |
| 1,2-Dichloropropane                       | ug/L  | 0.5 | ND           |
| Bromodichloromethane                      | ug/L  | 0.5 | ND           |
| 2-Chloroethylvinyl ether                  | ug/L  | 0.5 | ND           |
| cis-1,3-Dichloropropene                   | ug/L  | 0.5 | ND           |
| trans-1,3-Dichloropropene                 | ug/L  | 0.5 | ND           |
| 1,1,2-Trichloroethane                     | ug/L  | 0.5 | ND           |
| Tetrachloroethene                         | ug/L  | 0.5 | ND           |
| Dibromochloromethane                      | ug/L  | 0.5 | ND           |
| Chlorobenzene                             | ug/L  | 0.5 | ND           |
| Bromoform                                 | ug/L  | 0.5 | ND           |
| 1,1,2,2-Tetrachloroethane                 | ug/L  | 0.5 | ND           |
| 1,3-Dichlorobenzene                       | ug/L  | 0.5 | ND           |
| 1,4-Dichlorobenzene                       | ug/L  | 0.5 | ND           |
| 1,2-Dichlorobenzene                       | ug/L  | 0.5 | ND           |
| Bromochloromethane (Surrogate Recovery) % |       |     | 107          |
| 1,4-Dichlorobutane (Surrogate Recovery) % |       |     | 107          |

**REPORT OF LABORATORY ANALYSIS**

Mr. Marc Briggs  
 Page 17

QUALITY CONTROL DATA

February 28, 1994  
 PACE Project Number: 440218511

Client Reference: Exxon 7-7003 (EE)

HALOGENATED VOLATILE COMPOUNDS EPA 8010  
 Batch: 70 28482  
 Samples: 70 0249937

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

| Parameter             | Units | MDL | Reference Value | Recv | Dup1 Recv | RPD |
|-----------------------|-------|-----|-----------------|------|-----------|-----|
| 1,1-Dichloroethane    | ug/L  | 0.5 | 20              | 99%  | 96%       | 3%  |
| Trichloroethene (TCE) | ug/L  | 0.5 | 20              | 99%  | 106%      | 6%  |
| 1,1,2-Trichloroethane | ug/L  | 0.5 | 20              | 100% | 94%       | 6%  |
| Tetrachloroethene     | ug/L  | 0.5 | 20              | 98%  | 91%       | 7%  |

Mr. Marc Briggs  
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QUALITY CONTROL DATA

February 28, 1994  
 PACE Project Number: 440218511

Client Reference: Exxon 7-7003 (EE)

HALOGENATED VOLATILE COMPOUNDS EPA 8010  
 Batch: 70 28532  
 Samples: 70 0249724

METHOD BLANK:

| Parameter                                 | Units | MDL | Method Blank |
|---|-------|-----|--------------|
| Dichlorodifluoromethane                   | ug/L  | 2.0 | ND           |
| Chloromethane                             | ug/L  | 2.0 | ND           |
| Vinyl Chloride                            | ug/L  | 2.0 | ND           |
| Bromomethane                              | ug/L  | 2.0 | ND           |
| Chloroethane                              | ug/L  | 2.0 | ND           |
| Trichlorofluoromethane (Freon 11)         | ug/L  | 2.0 | ND           |
| 1,1-Dichloroethene                        | ug/L  | 0.5 | ND           |
| Methylene Chloride                        | ug/L  | 2.0 | ND           |
| trans-1,2-Dichloroethene                  | ug/L  | 0.5 | ND           |
| cis-1,2-Dichloroethene                    | ug/L  | 0.5 | ND           |
| 1,1-Dichloroethane                        | ug/L  | 0.5 | ND           |
| Chloroform                                | ug/L  | 0.5 | ND           |
| 1,1,1-Trichloroethane (TCA)               | ug/L  | 0.5 | ND           |
| Carbon Tetrachloride                      | ug/L  | 0.5 | ND           |
| 1,2-Dichloroethane (EDC)                  | ug/L  | 0.5 | ND           |
| Trichloroethene (TCE)                     | ug/L  | 0.5 | ND           |
| 1,2-Dichloropropane                       | ug/L  | 0.5 | ND           |
| Bromodichloromethane                      | ug/L  | 0.5 | ND           |
| 2-Chloroethylvinyl ether                  | ug/L  | 0.5 | ND           |
| cis-1,3-Dichloropropene                   | ug/L  | 0.5 | ND           |
| trans-1,3-Dichloropropene                 | ug/L  | 0.5 | ND           |
| 1,1,2-Trichloroethane                     | ug/L  | 0.5 | ND           |
| Tetrachloroethene                         | ug/L  | 0.5 | ND           |
| Dibromochloromethane                      | ug/L  | 0.5 | ND           |
| Chlorobenzene                             | ug/L  | 0.5 | ND           |
| Bromoform                                 | ug/L  | 0.5 | ND           |
| 1,1,2,2-Tetrachloroethane                 | ug/L  | 0.5 | ND           |
| 1,3-Dichlorobenzene                       | ug/L  | 0.5 | ND           |
| 1,4-Dichlorobenzene                       | ug/L  | 0.5 | ND           |
| 1,2-Dichlorobenzene                       | ug/L  | 0.5 | ND           |
| Bromochloromethane (Surrogate Recovery) % |       |     | 97           |
| 1,4-Dichlorobutane (Surrogate Recovery) % |       |     | 101          |

**REPORT OF LABORATORY ANALYSIS**

Mr. Marc Briggs  
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QUALITY CONTROL DATA

February 28, 1994  
 PACE Project Number: 440218511

Client Reference: Exxon 7-7003 (EE)

HALOGENATED VOLATILE COMPOUNDS EPA 8010  
 Batch: 70 28532  
 Samples: 70 0249724

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

| Parameter             | Units | MDL | Reference Value | Recv | Dupl Recv | RPD |
|-----------------------|-------|-----|-----------------|------|-----------|-----|
| I,1-Dichloroethane    | ug/L  | 0.5 | 20              | 87%  | 95%       | 8%  |
| Trichloroethene (TCE) | ug/L  | 0.5 | 20              | 86%  | 94%       | 8%  |
| 1,1,2-Trichloroethane | ug/L  | 0.5 | 20              | 94%  | 104%      | 10% |
| Tetrachloroethene     | ug/L  | 0.5 | 20              | 89%  | 97%       | 8%  |



Mr. Marc Briggs  
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QUALITY CONTROL DATA

February 28, 1994  
 PACE Project Number: 440218511

Client Reference: Exxon 7-7003 (EE)

PURGEABLE FUELS AND AROMATICS

Batch: 70 28509

Samples: 70 0249694, 70 0249880, 70 0249899, 70 0249910, 70 0249929  
 70 0249937

METHOD BLANK:

| Parameter                                | Units | MDL | Method Blank |
|--|-------|-----|--------------|
| TOTAL FUEL HYDROCARBONS, (LIGHT):        |       |     | -            |
| Purgeable Fuels, as Gasoline (EPA 8015M) | ug/L  | 50  | ND           |
| PURGEABLE AROMATICS (BTXE BY EPA 8020M)  |       |     | -            |
| Benzene                                  | ug/L  | 0.5 | ND           |
| Toluene                                  | ug/L  | 0.5 | ND           |
| Ethylbenzene                             | ug/L  | 0.5 | ND           |
| Xylenes, Total                           | ug/L  | 0.5 | ND           |

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

| Parameter      | Units | MDL | Reference Value | Recv | Dupl Recv | RPD |
|----------------|-------|-----|-----------------|------|-----------|-----|
| Benzene        | ug/L  | 0.5 | 40              | 100% | 100%      | 0%  |
| Toluene        | ug/L  | 0.5 | 40              | 99%  | 100%      | 1%  |
| Ethylbenzene   | ug/L  | 0.5 | 40              | 98%  | 105%      | 6%  |
| Xylenes, Total | ug/L  | 0.5 | 120             | 100% | 106%      | 5%  |

**REPORT OF LABORATORY ANALYSIS**

Mr. Marc Briggs  
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QUALITY CONTROL DATA

February 28, 1994  
 PACE Project Number: 440218511

Client Reference: Exxon 7-7003 (EE)

**PURGEABLE FUELS AND AROMATICS**

Batch: 70 28511  
 Samples: 70 0249708, 70 0249724, 70 0249740, 70 0249791, 70 0249830  
 70 0249872

**METHOD BLANK:**

| Parameter                                | Units | MDL | Method Blank |
|--|-------|-----|--------------|
| TOTAL FUEL HYDROCARBONS, (LIGHT):        |       |     | -            |
| Purgeable Fuels, as Gasoline (EPA 8015M) | ug/L  | 50  | ND           |
| PURGEABLE AROMATICS (BTXE BY EPA 8020M)  |       |     | -            |
| Benzene                                  | ug/L  | 0.5 | ND           |
| Toluene                                  | ug/L  | 0.5 | ND           |
| Ethylbenzene                             | ug/L  | 0.5 | ND           |
| Xylenes, Total                           | ug/L  | 0.5 | ND           |

**SPIKE AND SPIKE DUPLICATE:**

| Parameter      | Units | MDL | 700249830<br>W-29-MW6 | Spike | Spike<br>Recv | Spike<br>Dupl<br>Recv | RPD |
|----------------|-------|-----|-----------------------|-------|---------------|-----------------------|-----|
| Benzene        | ug/L  | 0.5 | 3.8                   | 40    | 100%          | 98%                   | 2%  |
| Toluene        | ug/L  | 0.5 | 7.9                   | 40    | 97%           | 95%                   | 2%  |
| Ethylbenzene   | ug/L  | 0.5 | 2.0                   | 40    | 99%           | 98%                   | 1%  |
| Xylenes, Total | ug/L  | 0.5 | 11                    | 120   | 95%           | 94%                   | 1%  |

**LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:**

| Parameter      | Units | MDL | Reference<br>Value | Recv | Dupl<br>Recv | RPD |
|----------------|-------|-----|--------------------|------|--------------|-----|
| Benzene        | ug/L  | 0.5 | 40                 | 97%  | 98%          | 1%  |
| Toluene        | ug/L  | 0.5 | 40                 | 99%  | 97%          | 2%  |
| Ethylbenzene   | ug/L  | 0.5 | 40                 | 99%  | 100%         | 1%  |
| Xylenes, Total | ug/L  | 0.5 | 120                | 98%  | 98%          | 0%  |

Mr. Marc Briggs  
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FOOTNOTES  
for pages 16 through 21

February 28, 1994  
PACE Project Number: 440218511

Client Reference: Exxon 7-7003 (EE)

MDL Method Detection Limit  
ND Not detected at or above the MDL.  
RPD Relative Percent Difference



# EXXON COMPANY, U.S.A.

P.O. Box 4415, Houston, TX 77210-4415

## CHAIN OF CUSTODY

Novato, CA, 11 Digital Drive, 94949  
(415) 883-6100

440218.511  
 Huntington Beach, CA, 5702 Bolsa Avenue, 92649  
(714) 892-2565

Consultant's Name: RESNA Page 1 of 2

Address: 3315 Alameda Expwy #34 San Jose CA 95118 Site Location: 347 Main St

Project #: E Consultant Project #: 130015.20 Consultant Work Release #: 09300255

Project Contact: Jocane Buxthal/Mark Briggs Phone #: (408) 264-7723 Fax #: 264-2435 Laboratory Work Release #:

EXXON Contact: Jocane Buxthal  EE  C&M Phone #: (510) 246-8776 Fax #: EXXON RAS #: 7-7003

Sampled by (print): Chris Allen Sampler's Signature: Chris Allen

Shipment Method: Courier Air Bill #: Shipment Date:

TAT:  24 hr  48 hr  72 hr  Standard (5 day)

| Sample Description | Collection Date/Time | Matrix Soil/Water | Prsv | # of Cont | PACE Sample # | TPH/GAS/BTEX<br>EPA 8015/8020 | TPH/Diesel<br>EPA 8015 | TRPH<br>EPA 418.1 | ANALYSIS REQUIRED |       |       | Sample Condition as Received |                 | COMMENTS |                    |
|--------------------|----------------------|-------------------|------|-----------|---------------|-------------------------------|------------------------|-------------------|-------------------|-------|-------|------------------------------|-----------------|----------|--------------------|
|                    |                      |                   |      |           |               |                               |                        |                   | Other             | Other | Other | Temperature ° C: _____       | Cooler #: _____ |          |                    |
| Rinsate            | 2/16                 | H <sub>2</sub> O  | HEC  | 2         | 24918.6       |                               |                        |                   | X                 |       |       |                              |                 |          |                    |
| R7                 |                      |                   |      | 2         | 24918.4       | X                             |                        |                   |                   |       |       |                              |                 |          |                    |
| W-21-1107          |                      |                   |      | 3         | 24918.8       | X                             |                        |                   |                   |       |       |                              |                 |          |                    |
| R4                 |                      |                   | Ⓞ    | 2         | 24911.6       |                               |                        |                   | X                 |       |       |                              |                 |          |                    |
| W-25-1104          |                      |                   |      | 3         | 24912.4       | X                             |                        |                   |                   | X     |       |                              |                 |          | Rec'd Couca 1/2/21 |
| R5                 |                      |                   |      | 2         | 24913.2       |                               |                        |                   | X                 |       |       |                              |                 |          |                    |
| W-21-1105          |                      |                   |      | 3         | 24914.0       | X                             |                        |                   |                   |       |       |                              |                 |          |                    |
| R3                 |                      |                   |      | 2         | 24918.3       |                               |                        |                   | X                 |       |       |                              |                 |          |                    |
| W-20-1103          |                      |                   |      | 3         | 24919.1       | X                             |                        |                   |                   |       |       |                              |                 |          |                    |
| R6                 | 2/17                 |                   |      | 2         | 24918.3       |                               |                        |                   | X                 |       |       |                              |                 |          |                    |

| Relinquished by/Affiliation  | Date           | Time        | Accepted by/Affiliation     | Date           | Time        | Additional Comments: |
|------------------------------|----------------|-------------|-----------------------------|----------------|-------------|----------------------|
| <u>Chris Allen</u>           | <u>2/17/94</u> | <u>6:20</u> | <u>Sandra Briones</u>       | <u>2/18/94</u> | <u>1:00</u> | <u>10/2</u>          |
| <u>Sandra Briones / Pace</u> | <u>2/18/94</u> | <u>5:50</u> | <u>Stacy P. Hoch / PACE</u> | <u>2/18/94</u> | <u>5:50</u> |                      |



EXXON COMPANY, U.S.A.

P.O. Box 4415, Houston, TX 77210-4415

CHAIN OF CUSTODY

440218,511

Novato, CA, 11 Digital Drive, 94949  
(415) 883-6100

Huntington Beach, CA, 5702 Bolsa Avenue, 92649  
(714) 892-2565

Consultant's Name: RESNA

Page 2 of 2

Address: 3315 Almaden Expy #34 San Jose CA 95118

Site Location: 349 Main St

Project #: \_\_\_\_\_

Consultant Project #: 130015-20

Consultant Work Release #: 89300255

Project Contact: Jane Burkhead/Mark Briggs

Phone #: (408) 264-7723 Fax #: 264-2435

Laboratory Work Release #: \_\_\_\_\_

EXXON Contact: Marla Guzman  EE  C&M

Phone: (510) 246-8776 Fax #: \_\_\_\_\_

EXXON RAS #: 7-7003

Sampled by (print): Chris Allen

Sampler's Signature: Chris Allen

Shipment Method: Courier

Air Bill #: \_\_\_\_\_

Shipment Date: \_\_\_\_\_

TAT:  24 hr  48 hr  72 hr  Standard (5 day)

ANALYSIS REQUIRED

Sample Condition as Received  
Temperature ° C: \_\_\_\_\_  
Cooler #: \_\_\_\_\_  
Inbound Seal Yes No  
Outbound Seal Yes No

| Sample Description | Collection Date/Time | Matrix Soil/Water     | Prsv      | # of Cont | PACE Sample # | TPH/GAS/BTEX EPA 8015/8020          | TPH/Diesel EPA 8015 | TRPH EPA 418.1 | Hold | Vials |  |  |  |  |  |  |  |  |
|--------------------|----------------------|-----------------------|-----------|-----------|---------------|-------------------------------------|---------------------|----------------|------|-------|--|--|--|--|--|--|--|--|
| <u>W-29-MW6</u>    | <u>2/17</u>          | <u>H<sub>2</sub>O</u> | <u>RC</u> | <u>3</u>  | <u>2983.0</u> | <input checked="" type="checkbox"/> |                     |                |      |       |  |  |  |  |  |  |  |  |
| <u>138</u>         |                      |                       |           | <u>2</u>  | <u>2985.6</u> | <input checked="" type="checkbox"/> |                     |                |      |       |  |  |  |  |  |  |  |  |
| <u>W-19-MW8</u>    |                      |                       |           | <u>3</u>  | <u>2988.2</u> | <input checked="" type="checkbox"/> |                     |                |      |       |  |  |  |  |  |  |  |  |
| <u>W-22-VI-3</u>   |                      |                       |           | <u>3</u>  | <u>2988.0</u> | <input checked="" type="checkbox"/> |                     |                |      |       |  |  |  |  |  |  |  |  |
| <u>W-20-MW2</u>    |                      |                       |           | <u>3</u>  | <u>2989.9</u> | <input checked="" type="checkbox"/> |                     |                |      |       |  |  |  |  |  |  |  |  |
| <u>W-20-VI-2</u>   |                      |                       |           | <u>3</u>  | <u>2991.0</u> | <input checked="" type="checkbox"/> |                     |                |      |       |  |  |  |  |  |  |  |  |
| <u>W-20-VI-1</u>   |                      |                       |           | <u>3</u>  | <u>2992.9</u> | <input checked="" type="checkbox"/> |                     |                |      |       |  |  |  |  |  |  |  |  |
| <u>W-21-MW1</u>    |                      |                       |           | <u>6</u>  | <u>2993.7</u> | <input checked="" type="checkbox"/> |                     |                |      |       |  |  |  |  |  |  |  |  |

COMMENTS

| Relinquished by/Affiliation | Date           | Time        | Accepted by/Affiliation    | Date           | Time        | Additional Comments: |
|-----------------------------|----------------|-------------|----------------------------|----------------|-------------|----------------------|
| <u>Chris Allen</u>          | <u>2/17/94</u> | <u>6:00</u> | <u>Marla Guzman / Pace</u> | <u>2/18/94</u> | <u>1:00</u> | <u>10/2</u>          |
| <u>Marla Guzman / Pace</u>  | <u>2/18/94</u> | <u>5:55</u> | <u>Stacy Hoch / Pace</u>   | <u>2/18/94</u> | <u>5:55</u> |                      |

January 13, 1994

Mr. David Goodrum  
Exxon Company, U.S.A.  
P.O. Box 4032  
2300 Clayton Road  
Concord, California 94520

Subject: Conclusions of the Letter Report on Soil Sampling Beneath the Former Gasoline and Used Oil Underground Storage Tanks, Associated Product Lines, and Hydraulic Hoists  
Former Exxon Station 7-7003  
349 Main Street, Pleasanton, California.

Mr. Goodrum:

As requested by Exxon Company U.S.A. (Exxon), RESNA Industries Inc. (RESNA) is presenting the results of soil sampling associated with the removal of three gasoline underground storage tanks (USTs), one used-oil UST, associated product lines, and three hydraulic hoists at the subject site. The purpose of this soil sampling was to evaluate the potential presence of gasoline, and used-oil hydrocarbons in the subsurface soil beneath the USTs, associated product lines, and hydraulic hoists. This work was performed according to guidelines stated in Exxon's "Tank Excavation Assessment Scope of Work -Amendments Specific to California" (Exxon, June 1991) and the California Regional Water Quality Control Board (CRWQCB) Tri-Regional Guidelines (CRWQCB, August 10, 1990).

## CONCLUSIONS

Based on the results of this investigation, RESNA concludes the following:

- Native soil appears to have been impacted by minor concentrations of TPHg (1.3 ppm) and BTEX (0.250 ppm) beneath former USTs T2 and T3. A minor concentration of total xylenes appears to have impacted native soil beneath the former product lines (0.0058 ppm) near the former UST excavation.

- Native soil beneath the former used-oil UST appears to have been impacted by minor concentrations of EOCs (1.3 ppm Di-n-butylphthalate), and some metals (25 ppm chromium, 24 ppm nickel, and 22 ppm zinc).
- Native soil beneath former hydraulic hoist H2 appears to be impacted by TOG, and native soil beneath hoists H1 and H3 is impacted by minor EOCs (0.51 ppm Di-n-butylphthalate).

Recommendations for future work at the site will be included in a forth coming Interim Remedial Action Plan.

Copies of this Report should be sent to the following agencies:

Mr. Sum Arigalia  
California Regional Water Quality Control Board  
San Francisco Bay Region  
2101 Webster Street, Suite 500  
Oakland, California 94612

Mr. Jerry Killingstad  
Alameda County Flood Control  
and Water Conservation District (Zone 7)  
5997 Parkside Drive  
Pleasanton, California 94566

Please call (408) 264-7723 if you have any questions, comments, or require any additional information.

Sincerely,  
RESNA Industries Inc.

Marc A. Briggs  
Project Manager

Enclosure: Letter Report

cc: Ms. Marla D. Guensler, Exxon Company, U.S.A.

SOIL SAMPLING  
BENEATH THE FORMER GASOLINE AND  
USED-OIL UNDERGROUND STORAGE TANKS,  
ASSOCIATED PRODUCT LINES,  
AND HYDRAULIC HOISTS

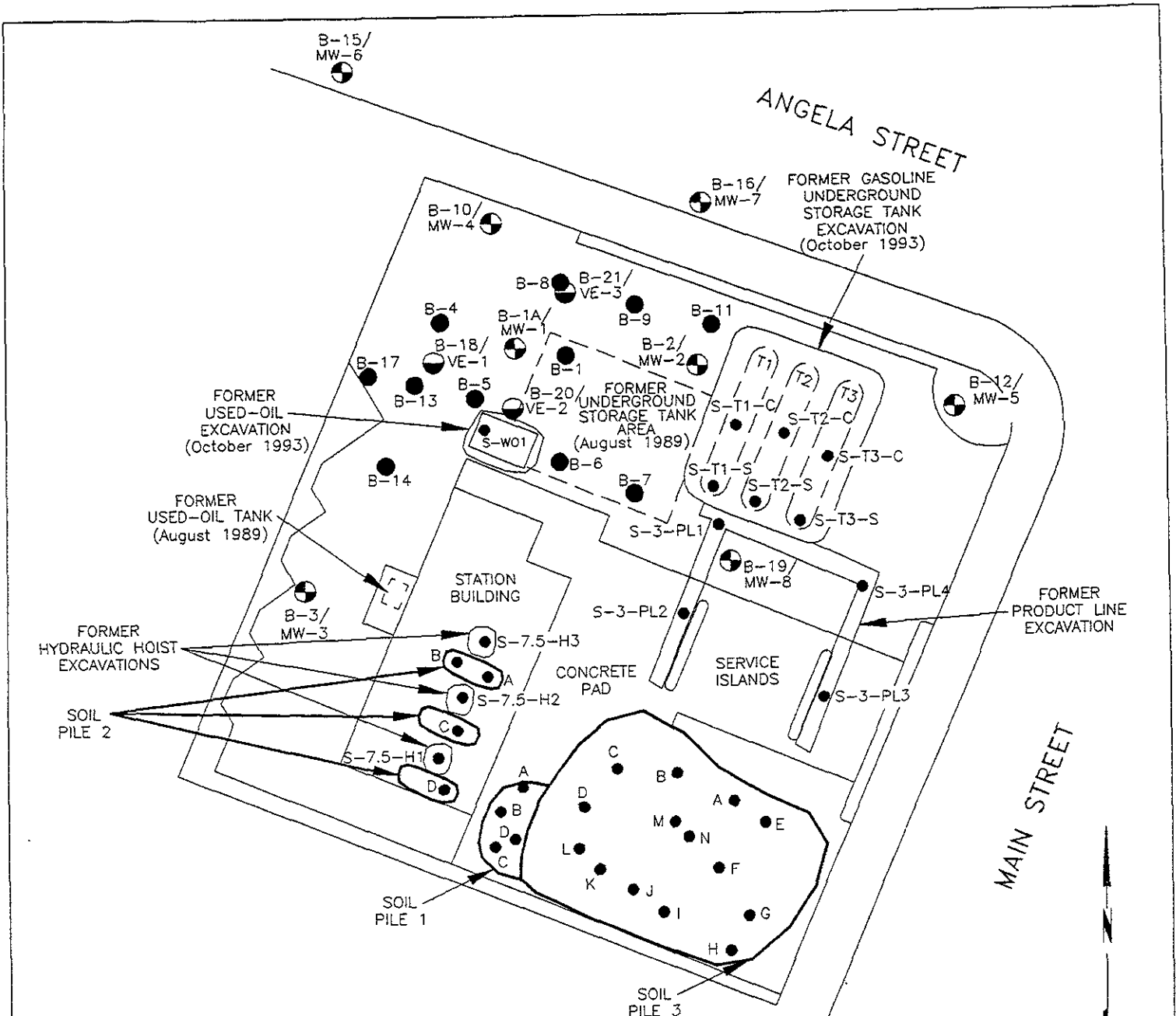
Former Exxon Station 7-7003  
349 Main Street  
Pleasanton, California

prepared for

Exxon Company, U.S.A.  
P.O. 4032  
2300 Clayton Road  
Concord, California 94520-2032

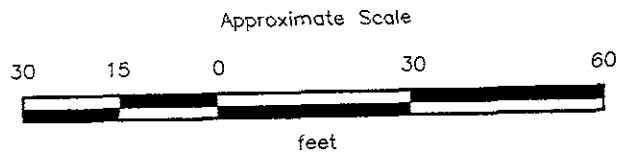
January 13, 1994  
RESNA Report 130015.06





**EXPLANATION**

- B-17 ● = Soil boring
- B-19/  
MW-8 ● = Monitoring well
- B-21/  
VE-3 ● = Vapor extraction well
- = Excavated areas
- = Soilpiles
- = Sample locations



Source: Surveyed by Ron Archer Civil Engineer, Inc., June 1990, April 1991 and May 1993.

|  |  |                              |
|--|--|------------------------------|
|  | <b>GENERALIZED SITE PLAN AND SOIL<br/>SAMPLE LOCATION MAP</b><br>Exxon Station 7-7003<br>349 Main Street<br>Pleasanton, California | <b>PLATE</b><br><br><b>2</b> |
|  | PROJECT 130015.06  |                              |

TABLE 1  
 RESULTS OF LABORATORY ANALYSES OF SOIL SAMPLES  
 Exxon Station 7-7003  
 Pleasanton, California  
 (Page 1 of 2)

| Sample  | Depth | B       | T       | E       | X       | TPHg   | TPHd | TOG | VOCs | EOCs               | Cd     | Cr    | Pb   | Ni   | Zn  |
|---|-------|---------|---------|---------|---------|--------|------|-----|------|--------------------|--------|-------|------|------|-----|
| <u>RESNA - October 1993</u>   |       |         |         |         |         |        |      |     |      |                    |        |       |      |      |     |
| <u>Gasoline USTs</u>  |       |         |         |         |         |        |      |     |      |                    |        |       |      |      |     |
| S-T1-S  | 12'   | <0.0050 | <0.0050 | <0.0050 | 0.250   | <1.000 | NA   | NA  | NA   | NA                 | NA     | NA    | NA   | NA   | NA  |
| S-T1-C  | 12'   | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <1.000 | NA   | NA  | NA   | NA                 | NA     | NA    | NA   | NA   | NA  |
| S-T2-S  | 12'   | 0.042   | 0.078   | 0.013   | 0.120   | <1.000 | NA   | NA  | NA   | NA                 | NA     | NA    | NA   | NA   | NA  |
| S-T2-C  | 12'   | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <1.000 | NA   | NA  | NA   | NA                 | NA     | NA    | NA   | NA   | NA  |
| S-T3-S  | 12'   | <0.0050 | 0.040   | 0.016   | 0.110   | 1.300  | NA   | NA  | NA   | NA                 | NA     | NA    | <10  | NA   | NA  |
| S-T3-C  | 12'   | <0.0050 | <0.0050 | <0.0050 | 0.0062  | <1.000 | NA   | NA  | NA   | NA                 | NA     | NA    | NA   | NA   | NA  |
| <u>Product Lines</u>  |       |         |         |         |         |        |      |     |      |                    |        |       |      |      |     |
| S-3-PL1   | 3'    | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <1.000 | NA   | NA  | NA   | NA                 | NA     | NA    | NA   | NA   | NA  |
| S-3-PL2   | 3'    | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <1.000 | NA   | NA  | NA   | NA                 | NA     | NA    | NA   | NA   | NA  |
| S-3-PL3   | 3'    | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <1.000 | NA   | NA  | NA   | NA                 | NA     | NA    | NA   | NA   | NA  |
| S-3-PL4   | 3'    | <0.0050 | <0.0050 | <0.0050 | 0.0058  | <1.000 | NA   | NA  | NA   | NA                 | NA     | NA    | NA   | NA   | NA  |
| <u>Used-oil UST</u>   |       |         |         |         |         |        |      |     |      |                    |        |       |      |      |     |
| S-WO-1  | 9'    | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <1.000 | <5.0 | <50 | ND   | 1.300 <sup>1</sup> | <1.0   | 25    | <10  | 24   | 22  |
| <u>Hydraulic Hoists</u>   |       |         |         |         |         |        |      |     |      |                    |        |       |      |      |     |
| S-7.5-H1  | 7½'   | NA      | NA      | NA      | NA      | NA     | NA   | <50 | ND   | 0.510 <sup>1</sup> | NA     | NA    | NA   | NA   | NA  |
| S-7.5-H2  | 7½'   | NA      | NA      | NA      | NA      | NA     | NA   | 507 | ND   | ND                 | NA     | NA    | NA   | NA   | NA  |
| S-7.5-H3  | 7½'   | NA      | NA      | NA      | NA      | NA     | NA   | <50 | ND   | 0.440 <sup>1</sup> | NA     | NA    | NA   | NA   | NA  |
| <u>Stockpiled Soil</u>  |       |         |         |         |         |        |      |     |      |                    |        |       |      |      |     |
| 1020-SP1-A+B+C+D  |       | NA      | NA      | NA      | NA      | NA     | NA   | 76* | ND   | 1.400 <sup>1</sup> | <0.050 | <0.10 | 0.49 | 0.43 | 1.6 |
| 1020-SP2-A+B+C+D  |       | NA      | NA      | NA      | NA      | NA     | NA   | 93  | ND   | 1.100 <sup>1</sup> | NA     | NA    | NA   | NA   | NA  |
| 1020-SP3-A+B+C+D  |       | <0.0050 | <0.0050 | <0.0050 | 0.013   | <1.000 | NA   | NA  | NA   | NA                 | NA     | NA    | 0.31 | NA   | NA  |
| 1020-SP3-E+F+G+H  |       | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <1.000 | NA   | NA  | NA   | NA                 | NA     | NA    | 0.52 | NA   | NA  |
| 1020-SP3-I+J+K+L  |       | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <1.000 | NA   | NA  | NA   | NA                 | NA     | NA    | 0.17 | NA   | NA  |
| 1020-SP1E+2E+3M+3N<br>Analyzed for corrosivity (pH of 8.9), reactive cyanide (<0.5 ppm), reactive sulfide (<0.5 ppm), flash point (>60°C) |       |         |         |         |         |        |      |     |      |                    |        |       |      |      |     |

See notes on page 2 of 2.

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TABLE 1  
 RESULTS OF LABORATORY ANALYSES OF SOIL SAMPLES  
 Exxon Station 7-7003  
 Pleasanton, California  
 (Page 2 of 2)


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Results in parts per million (ppm).

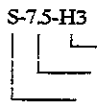
- < : Less than the laboratory detection limit.
- NA : Not Analyzed
- \* : Total Petroleum Hydrocarbons as Motor Oil using EPA Method 8015
- B: Benzene, T: Toluene, E: Ethylbenzene, X: Total Xylene isomers
- BTEX : Analyzed using EPA method 5030/8020M.
- TPHg : Total petroleum hydrocarbons as gasoline using EPA method 5030/8015M.
- TPHd : Total petroleum hydrocarbons as diesel using EPA method 3550/8015.
- TOG : Total Oil and Grease using standard method 5520
- VOCs : Volatile Organic Compounds using EPA Method 8240
- EOCs : Extractable Organic Compounds using EPA Method 8270
- ' : Di-n-butylphthalate
- Cd: Cadmium, Cr: Chromium, Pb: Lead, Ni: Nickel, Zi: Zinc
- Metals : Soluble Threshold Limit Concentrations (STLC) using EPA Method 6010/200.7. ICP California Assessment Metals (CAM) Extract.
- Pb : Lead also done using EPA Method 7421

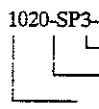
Sample designation:

S-T3-S  
 Location (south or center)  
 Tank Designation  
 Soil Sample

S-3-PL3  
 Product Line Sample Number  
 Sample Depth  
 Soil sample

S-WO-1  
 Used-oil Sample Number  
 Tank Designation  
 Soil sample

S-7.5-H3  
 Hydraulic Hoist Designation  
 Sample Depth  
 Soil sample

1020-SP3-I-L  
 Composite Sample Number  
 Soil Pile Designation  
 Date

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