



GETTLER-RYAN INC.

SEP 14 2001

TRANSMITTAL

August 28, 2001

G-R #180065

#521 / RO 219

TO: Mr. David B. De Witt
Tosco Marketing Company
2000 Crow Canyon Place, Suite 400
San Ramon, California

CC: Mr. Douglas Lee
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

RE: Tosco (Unocal) Service Station
#5043
449 Hegenberger Road
Oakland, California

• continued elevated TPHd, g & BTEX in MW-6 @ levels near fp. This well has had DVE w/o much improvement

WE HAVE ENCLOSED THE FOLLOWING:

| COPIES | DATED | DESCRIPTION |
|--------|-----------------|--|
| 1 | August 22, 2001 | Groundwater Monitoring and Sampling Report Third Quarter - Event of July 17, 2001 |

COMMENTS:

This report is being sent to you for your review/comment, prior to being distributed on your behalf. If no comments are received by **September 11, 2001**, this report will be distributed to the following:

cc: Mr. Barney M. Chan, Alameda County Health Care Services, 1131 Harbor Bay Parkway, Suite 250, Alameda, California 94502
Beretta Investment Group, 39560 Stevenson Place, Suite 118, Fremont, CA 94539

Enclosure

trans/5043.dbd



GETTLER-RYAN INC.

August 22, 2001
G-R Job #180065

Mr. David B. De Witt
Tosco Marketing Company
2000 Crow Canyon Place, Suite 400
San Ramon, California 94583

RE: Third Quarter Event of July 17, 2001
Groundwater Monitoring & Sampling Report
Tosco (Unocal) Service Station #5043
449 Hegenberger Road
Oakland, California


Dear Mr. De Witt:

This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

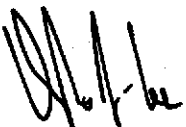
Static groundwater levels were measured and all wells were checked for the presence of separate-phase hydrocarbons. Static water level data and groundwater elevations are summarized in Table 1. Product Thickness/Removal Data is summarized in Table 3. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure - Groundwater Sampling (attached). The field data sheets are also attached. The samples were analyzed by Sequoia Analytical. Analytical results are summarized in Tables 1 and 2. A Concentration Map is included as Figure 2. The chain of custody document and laboratory analytical reports are also attached.

Sincerely,


- FOR -

Deanna L. Harding
Project Coordinator


Douglas J. Lee

Senior Geologist, R.G. No. 6882

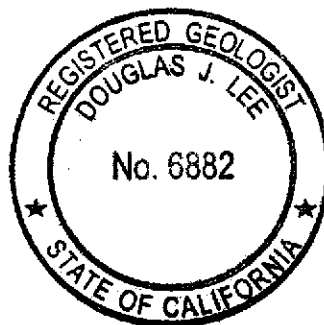
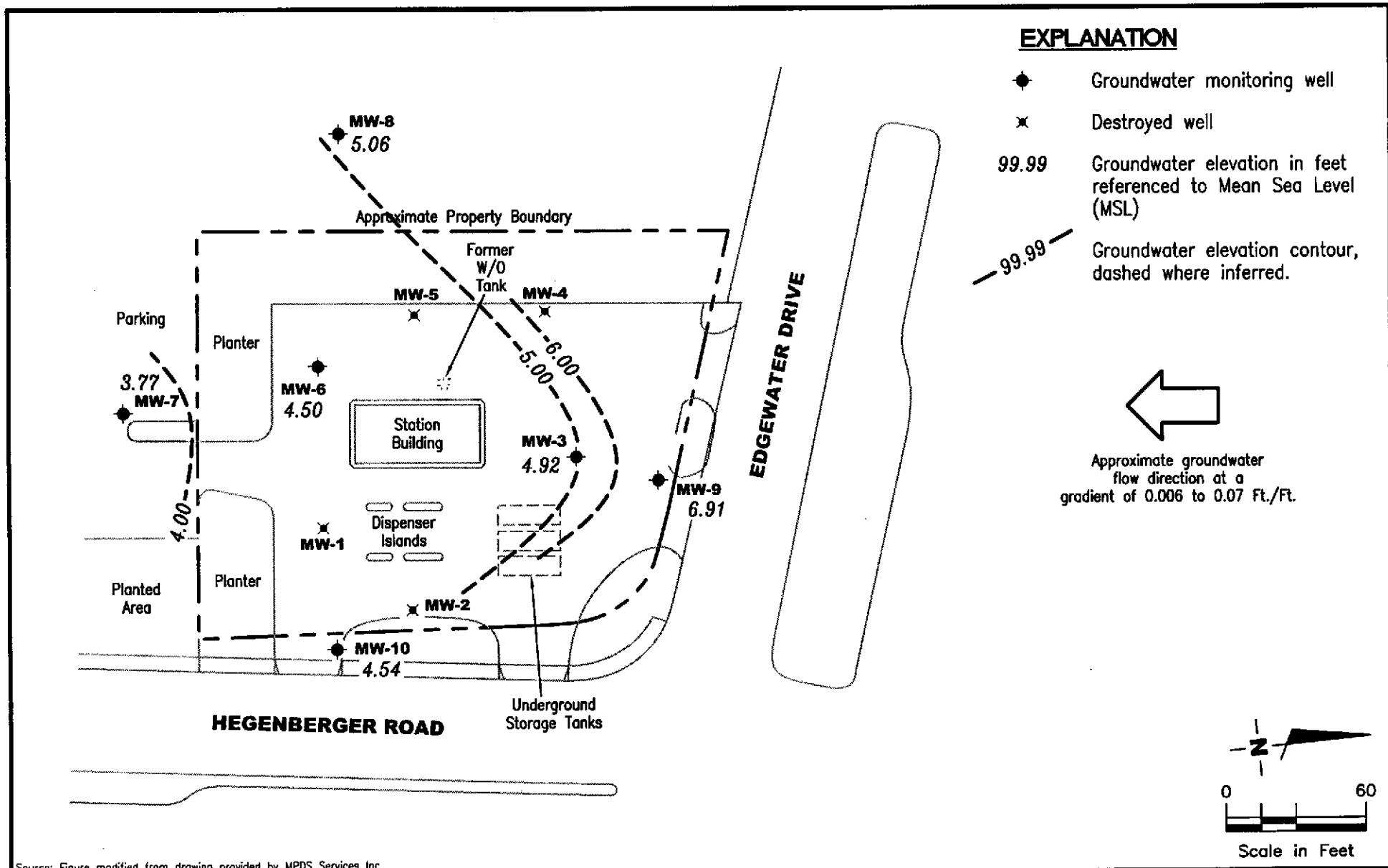


Figure 1: Potentiometric Map
Figure 2: Concentration Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Groundwater Analytical Results - Oxygenate Compounds
Table 3: Product Thickness/Removal Data
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports

5043.qml



Source: Figure modified from drawing provided by MPDS Services Inc..

GETTLER - RYAN INC.
 6747 Sierra Ct., Suite J
 Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
 Tosco (Unocal) Service Station #5043
 449 Hegenberger Road
 Oakland, California

FIGURE

1

PROJECT NUMBER
 180065

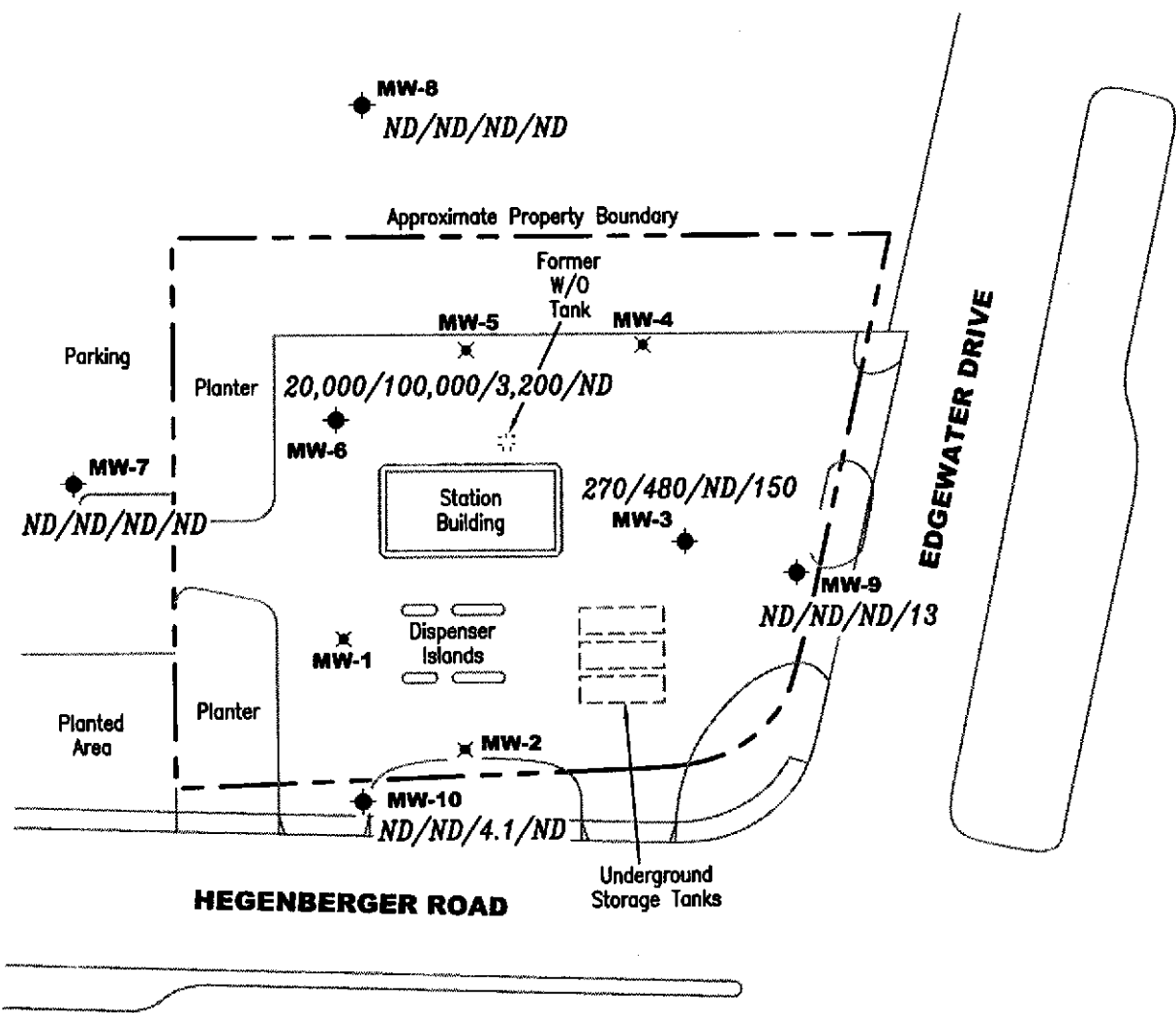
REVIEWED BY

DATE
 July 17, 2001

REVISED DATE

EXPLANATION

- ◆ Groundwater monitoring well
- ✕ Destroyed well
- A/B/C/D TPH(D) (Total Petroleum Hydrocarbons as Diesel)/TPH(G) (Total Petroleum Hydrocarbons as Gasoline)/Benzene/MTBE concentrations in ppb
- ND Not Detected
- + MTBE by EPA Method 8260



Source: Figure modified from drawing provided by MPDS Services Inc...

FIGURE

GETTLER - RYAN INC.
 6747 Sierra Ct., Suite J
 Dublin, CA 94568 (925) 551-7555

CONCENTRATION MAP
 Tosco (Unocal) Service Station #5043
 449 Hegenberger Road
 Oakland, California

2

| | | | |
|----------------|-------------|---------------|--------------|
| PROJECT NUMBER | REVIEWED BY | DATE | REVISED DATE |
| 180065 | | July 17, 2001 | |

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5043
 449 Hegenberger Road
 Oakland, California

| WELL ID/ TOC* | DATE | DTW (ft.) | S.L. (ft. bgs) | GWE (msl) | Product | | | | | | | | |
|------------------|-----------|--------------|-------------------|--------------|--------------------|---|--------------------|------------|------------|------------|------------|---------------|----|
| | | | | | Thickness (ft.) | TPH-D (ppb) | TPH-G (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | MTBE (ppb) | |
| MW-1 | 02/18/92 | -- | -- | -- | -- | -- | 13,000 | 150,000 | 17,000 | 26,000 | 5,200 | 26,000 | -- |
| | 05/20/92 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/31/92 | -- | -- | -- | -- | -- | 8,900 ¹ | 64,000 | 13,000 | 12,000 | 2,500 | 22,000 | -- |
| | 11/30/92 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/04/93 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8.96* | 05/04/93 | 2.13 | -- | 5.73** | 0.10 | NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT | | | | | | -- | -- |
| | 08/04/93 | 2.92 | -- | 4.88** | 0.03 | NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT | | | | | | -- | -- |
| 7.38 | 11/03/93 | 3.04 | -- | 4.74 | <0.01 | NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT | | | | | | -- | -- |
| | 02/07/94 | 2.55 | -- | 4.85** | 0.03 | NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT | | | | | | -- | -- |
| | 05/19/94 | 2.23 | -- | 5.16** | 0.01 | NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT | | | | | | -- | -- |
| | 06/25/94 | 2.49 | -- | 4.90** | 0.01 | NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT | | | | | | -- | -- |
| | 07/27/94 | 3.10 | -- | 4.28 | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/15/94 | 2.85 | -- | 4.61** | 0.11 | NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT | | | | | | -- | -- |
| | 11/14/94 | 2.97 | -- | 4.50** | 0.12 | NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT | | | | | | -- | -- |
| | 02/21/95 | 1.53 | -- | 5.87** | 0.02 | NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT | | | | | | -- | -- |
| | DESTROYED | | | | | | | | | | | | |
| MW-2 | 02/18/92 | -- | -- | -- | -- | -- | 4,300 | 29,000 | 1,000 | 5,300 | 260 | 7,900 | -- |
| | 05/20/92 | -- | -- | -- | -- | -- | 4,300 ¹ | 24,000 | 2,200 | 7,600 | 630 | 11,000 | -- |
| | 08/31/92 | -- | -- | -- | -- | -- | 1,600 ¹ | 9,000 | 1,800 | 640 | 140 | 2,000 | -- |
| | 11/30/92 | -- | -- | -- | -- | -- | 5,700 ¹ | 29,000 | 2,000 | 3,400 | 1,200 | 6,900 | -- |
| | 02/04/93 | -- | -- | -- | -- | -- | 6,100 ¹ | 18,000 | 1,600 | 3,000 | ND | 6,900 | -- |
| 8.96* | 05/04/93 | 2.48 | -- | 6.48 | 0.00 | 7,100 ¹ | 63,000 | 3,200 | 17,000 | 470 | 17,000 | -- | |
| | 08/04/93 | 3.20 | -- | 5.76 | 0.00 | 1,800 ² | 45,000 | 2,100 | 6,600 | 1,400 | 12,000 | -- | |
| 8.58 | 11/03/93 | 3.37 | -- | 5.21 | 0.00 | 2,600 ² | 72,000 | 3,700 | 16,000 | 3,700 | 20,000 | -- | |
| | 02/07/94 | 2.40 | -- | 6.18 | <0.01 | NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT | | | | | | -- | -- |
| | 05/19/94 | 2.13 | -- | 6.45 | 0.00 | 3,000 ² | 42,000 | 2,500 | 1,300 | 2,300 | 13,000 | -- | |
| | 06/25/94 | 2.65 | -- | 5.93 | 0.00 | -- | -- | -- | -- | -- | -- | -- | |
| | 07/27/94 | 3.44 | -- | 5.14 | 0.00 | -- | -- | -- | -- | -- | -- | -- | |

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5043
 449 Hegenberger Road
 Oakland, California

| WELL ID/ TOC* | DATE | DTW (ft.) | S.I. (ft. hgs) | GWE (msl) | Product Thickness (ft.) | TPH-D (ppb) | TPH-G (ppb) | B (pph) | T (pph) | E (pph) | X (pph) | MTBE (pph) |
|------------------|-----------------------|--------------|-------------------|--------------|-------------------------------|---------------------|--------------------|------------|------------|------------|------------|---------------|
| MW-2 | 08/15/94 | 3.25 | -- | 5.33 | 0.00 | 2,800 ² | 35,000 | 2,400 | 850 | 1,700 | 15,000 | -- |
| (cont) | 11/14/94 | 2.13 | | 6.45 | 0.00 | 10,000 ¹ | 43,000 | 2,200 | 6,500 | 1,800 | 14,000 | -- |
| | 02/21/95 | 1.65 | | 6.93 | 0.00 | 2,000 ² | 44,000 | 2,200 | 3,200 | 1,300 | 1,500 | -- |
| | DESTROYED | | | | | | | | | | | |
| MW-3 | 02/18/92 | -- | 2.5-14.0 | -- | -- | ND | 230 | 4.8 | 22 | 1.8 | 33 | -- |
| | 05/20/92 | INACCESSIBLE | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/31/92 | -- | | -- | -- | 92 ² | 210 ⁴ | 1 | ND | ND | ND | -- |
| | 11/30/92 | -- | | -- | -- | 94 | 790 ⁴ | ND | ND | ND | ND | -- |
| | 02/04/93 | -- | | -- | -- | 550 ² | 3,300 | 320 | ND | 96 | 6.1 | -- |
| 7.84* | 05/04/93 | 4.32 | | 3.52 | 0.00 | 250 ² | 1,800 ³ | 95 | ND | ND | ND | -- |
| | 08/04/93 | 4.94 | | 2.90 | 0.00 | 100 | 210 ⁴ | ND | ND | ND | ND | -- |
| 7.42 | 11/03/93 | 4.53 | | 2.89 | 0.00 | 160 | 640 ⁴ | ND | ND | ND | ND | -- |
| | 02/07/94 | 2.40 | | 5.02 | 0.00 | 620 ² | 2,700 | 110 | ND | 17 | ND | -- |
| | 05/19/94 | 3.60 | | 3.82 | 0.00 | 480 ² | 1,800 | 83 | ND | 6.2 | 9.1 | -- |
| | 06/25/94 | 4.58 | | 2.84 | 0.00 | -- | -- | -- | -- | -- | -- | -- |
| | 07/27/94 | 4.58 | | 2.84 | 0.00 | -- | -- | -- | -- | -- | -- | -- |
| | 08/15/94 | 4.65 | | 2.77 | 0.00 | 110 ² | 130 | 1.1 | 0.54 | ND | 0.97 | -- |
| | 11/14/94 | 3.18 | | 4.24 | 0.00 | 150 ² | 1,600 ⁴ | ND | ND | ND | ND | -- |
| | 02/21/95 | 1.81 | | 5.61 | 0.00 | 850 ² | 3,800 | 350 | ND | 130 | 22 | -- |
| | 05/18/95 | 4.56 | | 2.86 | 0.00 | 150 ¹ | 1,300 ³ | 42 | ND | ND | ND | -- |
| | 08/17/95 | INACCESSIBLE | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/26/96 | INACCESSIBLE | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/28/96 ⁶ | INACCESSIBLE | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 01/29/97 | INACCESSIBLE | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/15/97 | INACCESSIBLE | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/27/97 | 3.45 | | 4.59 | 0.00 | -- | 670 | 6.5 | ND | ND | ND | 250 |
| | 06/01/97 | 3.50 | | 4.54 | 0.00 | 610 ² | -- | -- | -- | -- | -- | -- |
| 8.04 | 07/15/97 | 3.71 | | 4.33 | 0.00 | 240 ² | 240 | ND | ND | ND | ND | 490 |
| | 10/09/97 | 3.70 | | 4.34 | 0.00 | 500 ² | 270 | 1.1 | ND | 2.4 | 1.4 | 910 |

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Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5043
 449 Hegenberger Road
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| WELL ID/ TOC* | DATE | DTW (ft.) | S.I. (ft. bgs) | GWE (msl) | Product | | | B (ppb) | T (ppb) | E (ppb) | X (ppb) | MTBE (ppb) |
|------------------|----------|--------------|-------------------|--------------|--------------------|--------------------|-------------------|-----------------|-----------------|-----------------|-----------------|----------------------|
| | | | | | Thickness (ft.) | TPH-D (ppb) | TPH-G (ppb) | | | | | |
| MW-3 | 01/14/98 | 2.16 | 2.5-14.0 | 5.88 | 0.00 | 340 ⁷ | 310 | ND | ND | 0.62 | 0.65 | 140 |
| (cont) | 04/01/98 | 2.20 | | 5.84 | 0.00 | 320 ⁷ | 370 | 5.7 | ND ⁹ | ND ⁹ | ND ⁹ | 93 |
| | 07/15/98 | 3.38 | | 4.66 | 0.00 | 510 ¹⁰ | 460 ¹¹ | ND ⁹ | ND ⁹ | ND ⁹ | ND ⁹ | 230 |
| | 10/16/98 | 2.30 | | 5.74 | 0.00 | 67 ¹³ | 330 ¹⁴ | 4.7 | ND ⁹ | ND ⁹ | ND ⁹ | 60 |
| | 01/25/99 | 2.42 | | 5.62 | 0.00 | 120 ⁷ | 420 ¹⁴ | 1.5 | ND ⁹ | ND ⁹ | ND ⁹ | 180 |
| | 04/15/99 | 2.16 | | 5.88 | 0.00 | 170 ¹⁷ | 290 | 0.54 | ND | ND | ND | 160 |
| | 07/14/99 | 2.35 | | 5.69 | 0.00 | 420 ¹⁹ | 290 | 3.2 | ND | ND | ND | 160 |
| | 10/21/99 | 2.49 | | 5.55 | 0.00 | 350 ⁷ | 360 ²³ | 0.77 | ND | ND | ND | 82 |
| | 01/20/00 | 2.38 | | 5.66 | 0.00 | 2,060 ¹ | ND | 0.81 | ND | ND | ND | 54 |
| | 04/13/00 | 2.76 | | 5.28 | 0.00 | 200 ²¹ | 250 ²³ | 0.69 | ND | ND | ND | 91/150 ²⁶ |
| | 07/14/00 | 3.26 | | 4.78 | 0.00 | 423 ⁷ | 345 ²⁷ | ND | ND | ND | ND | 94.7 |
| | 10/26/00 | 3.12 | | 4.92 | 0.00 | 330 ²⁹ | 480 ²³ | 6.0 | ND ⁹ | ND ⁹ | ND ⁹ | 120 |
| | 01/03/01 | 3.65 | | 4.39 | 0.00 | 287 ⁷ | 364 ²⁷ | 1.59 | ND | ND | ND | 118 |
| | 04/04/01 | 3.98 | | 4.06 | 0.00 | 360 ⁷ | 417 ²⁷ | 1.24 | ND | ND | 0.802 | 237 |
| | 07/17/01 | 3.12 | | 4.92 | 0.00 | 270 ²⁸ | 480 ²⁷ | ND | ND | ND | ND | 150 |
| | | | | | | | | | | | | |
| MW-4 | 08/31/92 | -- | -- | -- | -- | 90 ² | 240 ⁴ | ND | ND | ND | 0.54 | -- |
| | 11/30/92 | -- | | -- | -- | 61 | 420 ⁴ | ND | ND | ND | ND | -- |
| | 02/04/93 | -- | | -- | -- | ND | ND | ND | ND | ND | ND | -- |
| 9.00* | 05/04/93 | 4.09 | | 4.91 | 0.00 | ND | 110 ³ | 0.95 | ND | ND | ND | -- |
| | 08/04/93 | 5.01 | | 3.99 | 0.00 | 81 | 250 ⁴ | ND | 3.5 | ND | 4.1 | -- |
| 8.41 | 11/03/93 | 4.23 | | 4.18 | 0.00 | 68 | 130 ⁴ | ND | ND | ND | ND | -- |
| | 02/07/94 | 3.35 | | 5.06 | 0.00 | ND | 56 ⁴ | ND | ND | ND | ND | -- |
| | 05/19/94 | 3.92 | | 4.49 | 0.00 | 90 ² | 140 ⁴ | ND | ND | ND | ND | -- |
| | 06/25/94 | 4.35 | | 4.06 | 0.00 | -- | -- | -- | -- | -- | -- | -- |
| | 07/27/94 | 4.28 | | 4.13 | 0.00 | -- | -- | -- | -- | -- | -- | -- |
| | 08/15/94 | 4.27 | | 4.14 | 0.00 | 72 ² | 59 ⁴ | ND | 0.6 | ND | ND | -- |
| | 11/14/94 | 4.05 | | 4.36 | 0.00 | ND | 130 ⁴ | ND | ND | ND | ND | -- |

DESTROYED

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5043
 449 Hegenberger Road
 Oakland, California

| WELL ID/ TOC* | DATE | DTW (ft.) | S.I. (ft. bgs) | GWE (msl) | Product Thickness (ft.) | TPH-D (ppb) | TPH-G (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | MTBE (ppb) | |
|------------------|-----------------------|--------------|-------------------|--------------|-------------------------------|---|------------------|------------|------------|------------|------------|---------------|----|
| MW-5 | 08/31/92 | -- | -- | -- | -- | 690 ¹ | 78 | 0.89 | ND | ND | 13 | -- | |
| | 11/30/92 ⁵ | -- | -- | -- | -- | 470 ² | 930 | 70 | 290 | 0.79 | 14 | -- | |
| | 02/04/93 ⁵ | -- | -- | -- | -- | 5,500 ² | 5,700 | 38 | ND | 620 | 170 | -- | |
| | 05/04/93 ⁵ | 4.37 | -- | 4.90 | 0.00 | 4,600 ¹ | 7,400 | 41 | ND | 1,000 | 35 | -- | |
| | 08/04/93 ⁵ | 5.81 | -- | 3.46 | 0.00 | 970 ² | 1,500 | 130 | I | 460 | 11 | -- | |
| 8.95 | 11/03/93 | 5.68 | -- | 3.27 | 0.00 | 2,100 ² | 13,000 | 350 | ND | 3,500 | 530 | -- | |
| | 02/07/94 | 5.11 | -- | 3.84 | 0.00 | 830 ² | 2,000 | 87 | ND | 370 | 110 | -- | |
| | 05/19/94 | 5.09 | -- | 3.86 | 0.00 | 600 ² | 260 | 44 | ND | 32 | 4.1 | -- | |
| | 06/25/94 | 4.55 | -- | 4.40 | 0.00 | -- | -- | -- | -- | -- | -- | -- | |
| | 07/27/94 | 5.72 | -- | 3.23 | 0.00 | -- | -- | -- | -- | -- | -- | -- | |
| | 08/15/94 | 5.68 | -- | 3.27 | 0.00 | 860 ² | 1,600 | 110 | ND | 340 | 72 | -- | |
| | 11/14/94 | 5.63 | -- | 3.32 | 0.00 | 290 ¹ | 250 | 40 | ND | ND | 5 | -- | |
| | DESTROYED | | | | | | | | | | | | |
| | MW-6 | 08/31/92 | -- | 2.5-13.5 | -- | -- | 750 ² | ND | ND | ND | ND | ND | -- |
| 11/30/92 | | -- | -- | -- | -- | 1,400 ¹ | 9,200 | 550 | ND | 740 | 1,600 | -- | |
| 02/04/93 | | -- | -- | -- | -- | 890 ² | 3,600 | 340 | ND | 290 | 550 | -- | |
| 9.12* | 05/04/93 | 3.72 | -- | 5.40 | 0.00 | 1,800 ¹ | 4,900 | 360 | 18 | 450 | 430 | -- | |
| | 08/04/93 | 5.15 | -- | 3.97 | 0.00 | 1,100 ² | 3,400 | 390 | ND | 440 | 190 | -- | |
| 8.87 | 11/03/93 | 5.25 | -- | 3.62 | 0.00 | 390 ² | 1,400 | 320 | ND | 200 | 7.7 | -- | |
| | 02/07/94 | 4.55 | -- | 4.32 | 0.00 | 970 ² | 4,900 | 650 | ND | 250 | 35 | -- | |
| | 05/19/94 | 4.62 | -- | 4.25 | 0.00 | 1,400 ² | 3,600 | 300 | 1.7 | 210 | 41 | -- | |
| | 08/15/94 | 5.08 | -- | 3.79 | 0.00 | 790 ² | 1,300 | 130 | 6.7 | 54 | 57 | -- | |
| | 11/14/94 | 5.30 | -- | 3.57 | 0.00 | 800 ² | 730 | 50 | ND | ND | 39 | -- | |
| | 02/21/95 | 5.37 | -- | 3.50 | 0.00 | 730 ² | 2,000 | 250 | 4.6 | 25 | 30 | -- | |
| | 05/18/95 | INACCESSIBLE | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/17/95 | INACCESSIBLE | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/26/96 | 6.40 | -- | 5.03** | 3.33 | NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT | | | | | | -- | -- |
| | 10/28/96 | 4.10 | -- | 4.93** | 0.21 | NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT | | | | | | -- | -- |
| 11/13/96 | 4.02 | -- | 5.04** | 0.25 | -- | -- | -- | -- | -- | -- | -- | -- | |

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5043
 449 Hegenberger Road
 Oakland, California

| WELL ID/ TOC* | DATE | DTW (ft.) | S.I. (ft. bgs) | GWE (msl) | Product | | | | | | | | |
|------------------|----------|--------------|-------------------|--------------|--------------------|---|----------------|------------|------------|------------|------------|---------------|----|
| | | | | | Thickness (ft.) | TPH-D (ppb) | TPH-G (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | MTBE (ppb) | |
| MW-6 | 11/25/96 | 4.01 | 2.5-13.5 | 5.44** | 0.75 | -- | -- | -- | -- | -- | -- | -- | -- |
| (cont) | 12/04/96 | 3.65 | | 5.61** | 0.50 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/19/96 | 4.80 | | 5.76** | 2.20 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 01/08/97 | 4.84 | | 5.38** | 1.75 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 01/14/97 | 4.51 | | 5.25** | 1.15 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 01/27/97 | 4.00 | | 6.22** | 1.75 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 01/29/97 | 3.24 | | 5.87** | 0.31 | NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT | | | | | | -- | -- |
| | 02/11/97 | 4.65 | | 5.14** | 1.20 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 02/24/97 | 4.81 | | 4.91** | 1.10 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/10/97 | 4.60 | | 5.00** | 0.95 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/17/97 | 4.50 | | 5.06** | 0.89 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/31/97 | 4.65 | | 4.99** | 1.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/15/97 | 4.90 | | 4.76** | 1.03 | NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT | | | | | | -- | -- |
| | 04/28/97 | 4.78 | | 4.11** | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/15/97 | 4.60 | | 4.46** | 0.25 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 05/27/97 | 4.50 | | 4.56** | 0.25 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/09/97 | 4.60 | | 4.42** | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/24/97 | 4.50 | | 4.56** | 0.25 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/09/97 | 4.80 | | 4.53** | 0.60 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/15/97 | 4.63 | | 4.56** | 0.42 | NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT | | | | | | -- | -- |
| | 07/21/97 | 4.75 | | 4.31** | 0.25 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/06/97 | 4.50 | | 4.45** | 0.10 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/20/97 | 4.55 | | 4.40** | 0.10 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/02/97 | 4.75 | | 4.16** | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/09/97 | 4.84 | | 4.06** | 0.04 | NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT | | | | | | -- | -- |
| | 01/14/98 | 3.90 | | 5.69** | 0.94 | NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT | | | | | | -- | -- |
| | 02/12/98 | 3.35 | | 6.01** | 0.64 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/03/98 | 4.51 | | 4.38** | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/01/98 | 3.67 | | 6.43** | 1.60 | NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT | | | | | | -- | -- |
| | 05/26/98 | 4.11 | | 5.15** | 0.50 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/15/98 | 5.03 | | 4.07** | 0.30 | -- | -- | -- | -- | -- | -- | -- | -- |

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5043
 449 Hegenberger Road
 Oakland, California

| WELL ID/ TOC* | DATE | DTW (ft.) | S.I. (ft. bgs) | GWE (msl) | Product | | | | | | | MTBE (ppb) | |
|------------------|----------|--------------|-------------------|--------------|--------------------|---|-----------------------|------------|------------|------------|------------|------------------------------------|----|
| | | | | | Thickness (ft.) | TPH-D (ppb) | TPH-G (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | | |
| MW-6 | 07/15/98 | 4.56 | 2.5-13.5 | 4.35** | 0.05 | NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT | | | | | | | -- |
| (cont) | 08/21/98 | 4.77 | | 4.12** | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/30/98 | 5.08 | | 3.81** | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/16/98 | 4.31 | | 6.41** | 2.40 | NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT | | | | | | | -- |
| | 11/06/98 | 3.98 | | 5.02** | 0.17 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/25/98 | 3.92 | | 5.03** | 0.10 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/28/98 | 3.90 | | 5.12** | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 01/25/99 | 4.18 | | 5.15** | 0.60 | NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT | | | | | | | -- |
| | 02/22/99 | 4.07 | | 4.97** | 0.22 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/22/99 | 4.32 | | 4.67** | 0.15 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/15/99 | 4.23 | | 5.37** | 0.95 | NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT | | | | | | | -- |
| | 05/28/99 | 4.38 | | 4.79** | 0.39 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/29/99 | 4.12 | | 4.77** | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/14/99 | 4.20 | | 4.69** | 0.03 | NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT | | | | | | | -- |
| | 08/23/99 | 4.51 | | 4.54** | 0.24 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/30/99 | 4.17 | | 4.83** | 0.17 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/21/99 | 4.27 | | 4.69** | 0.12 | NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT | | | | | | | -- |
| | 11/29/99 | 4.18 | | 4.69 | <0.01 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/20/99 | 4.26 | | 4.62** | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 01/20/00 | 4.31 | | 4.56 | <0.01 | 67,600 ¹ | 130,000 ²³ | 2,900 | 8,600 | 2,000 | 16,000 | ND ⁹ | -- |
| | 02/26/00 | 3.98 | | 4.89 | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 03/31/00 | 4.14 | | 4.73 | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 04/13/00 | 4.04 | | 4.83 | 0.00 | 8,700 ⁷ | 140,000 ²³ | 5,000 | 14,000 | 3,600 | 27,000 | 7,700 | -- |
| | 05/26/00 | 4.41 | | 4.46 | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/17/00 | 4.35 | | 4.52 | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/14/00 | 4.47 | | 4.40 | <0.01 | 133,000 ⁷ | 259,000 ²³ | 7,670 | 13,700 | 6,860 | 40,700 | ⁹ ND/ND ^{9,26} | -- |
| | 08/24/00 | 3.71 | | 5.16 | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 09/27/00 | 4.33 | | 4.54 | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- |

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5043
 449 Hegenberger Road
 Oakland, California

| WELL ID/ TOC* | DATE | DTW (ft.) | S.I. (ft. bgs) | GWE (msl) | Product | | | | | | | |
|------------------|----------|--------------|-------------------|--------------|--------------------|----------------------|-----------------------|------------|------------|------------|------------|------------------------------------|
| | | | | | Thickness (ft.) | TPH-D (ppb) | TPH-G (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | MTBE (ppb) |
| MW-6 | 10/26/00 | 4.32 | 2.5-13.5 | 4.55 | 0.00 | 61,000 ^{2R} | 110,000 ²³ | 7,000 | 6,200 | 3,700 | 12,000 | 670/43 ³⁰ |
| (cont) | 01/03/01 | 4.52 | | 4.35 | 0.00 | 929 ⁷ | 84,700 ²³ | 3,950 | 4,130 | 3,650 | 11,800 | ⁹ ND/ND ^{9,26} |
| | 04/04/01 | 4.29 | | 4.58 | 0.00 | 18,000 ^{2R} | 69,800 ²³ | 2,060 | 2,840 | 3,650 | 10,900 | ⁹ ND/47.8 ²⁶ |
| | 07/17/01 | 4.37 | | 4.50 | 0.00 | 20,000 ³¹ | 100,000 ²³ | 3,200 | 3,300 | 3,400 | 12,000 | ND ⁹ |
| MW-7 | 05/27/97 | 4.50 | 3.0-13.0 | 4.33 | 0.00 | -- | 68 | ND | ND | ND | ND | ND |
| 8.83 | 06/01/97 | 4.54 | | 4.29 | 0.00 | 69 ² | -- | -- | -- | -- | -- | -- |
| | 07/15/97 | 4.70 | | 4.13 | 0.00 | ND | ND | ND | ND | ND | ND | ND |
| | 10/09/97 | 4.30 | | 4.53 | 0.00 | 190 ¹ | ND | ND | ND | ND | ND | ND |
| | 01/14/98 | 2.88 | | 5.95 | 0.00 | 65 ⁷ | ND | ND | ND | ND | ND | 36 |
| | 04/01/98 | 3.13 | | 5.70 | 0.00 | ND | ND | ND | ND | ND | ND | ND |
| | 07/15/98 | 4.45 | | 4.38 | 0.00 | 74 ¹² | ND | ND | ND | ND | ND | ND |
| | 10/16/98 | 3.45 | | 5.38 | 0.00 | ND | ND | ND | ND | ND | ND | ND |
| | 01/25/99 | 3.22 | | 5.61 | 0.00 | ND | ND | ND | ND | ND | ND | ND |
| | 04/15/99 | 3.11 | | 5.72 | 0.00 | ND | ND | ND | ND | ND | ND | ND |
| | 07/14/99 | 3.34 | | 5.49 | 0.00 | 69 ²⁰ | ND | ND | ND | ND | ND | ND |
| | 10/21/99 | 3.43 | | 5.40 | 0.00 | ND | ND | ND | ND | ND | ND | ND |
| | 01/20/00 | 3.29 | | 5.54 | 0.00 | ND | ND | ND | ND | ND | ND | 4.2 |
| | 04/13/00 | 3.39 | | 5.44 | 0.00 | ND ⁹ | ND | ND | ND | ND | ND | ND |
| | 07/14/00 | 4.42 | | 4.41 | 0.00 | 68.0 ⁷ | ND | ND | ND | ND | ND | 7.83 |
| | 07/17/01 | 5.06 | | 3.77 | 0.00 | ND | ND | ND | ND | ND | ND | ND |
| MW-8 | 05/27/97 | 3.42 | 3.0-15.0 | 5.10 | 0.00 | -- | 310 | 0.88 | 0.67 | 15 | 70 | ND |
| 8.52 | 06/01/97 | 3.46 | | 5.06 | 0.00 | 320 ² | -- | -- | -- | -- | -- | -- |
| | 07/15/97 | 3.49 | | 5.03 | 0.00 | ND | ND | ND | ND | 2.7 | 3.8 | ND |
| | 10/09/97 | 3.73 | | 4.79 | 0.00 | 390 ¹ | 590 | 1.4 | ND | 32 | 4.1 | ND |
| | 01/14/98 | 1.92 | | 6.60 | 0.00 | 230 ⁷ | ND | ND | ND | ND | ND | ND |
| | 04/01/98 | 2.38 | | 6.14 | 0.00 | 510 ⁷ | ND | ND | ND | ND | ND | 4.7 |
| | 07/15/98 | 3.53 | | 4.99 | 0.00 | 140 ¹² | ND | ND | ND | 0.56 | 1.1 | ND |

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #5043
449 Hegenberger Road
Oakland, California

| WELL ID/ TOC* | DATE | DTW (ft.) | S.I. (ft. hgs) | GWE (msl) | Product | | TPH-D (ppb) | TPH-G (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | MTBE (ppb) |
|------------------|-----------------|--------------|-------------------|--------------|--------------------|-------------------|-------------------|----------------|------------|------------|------------|------------|---------------|
| | | | | | Thickness (ft.) | | | | | | | | |
| MW-8 | 10/16/98 | 3.04 | 3.0-15.1 | 5.48 | 0.00 | 170 ¹⁵ | ND | ND | ND | ND | ND | ND | ND |
| (cont) | 01/25/99 | 2.92 | | 5.60 | 0.00 | ND ⁹ | ND | ND | ND | ND | ND | ND | ND |
| | 04/15/99 | 2.40 | | 6.12 | 0.00 | 91 ¹² | ND | ND | ND | ND | ND | ND | ND |
| | 07/14/99 | 3.03 | | 5.49 | 0.00 | 120 ²¹ | ND | ND | ND | ND | ND | ND | ND |
| | 10/21/99 | 3.11 | | 5.41 | 0.00 | 110 ²⁴ | ND | ND | ND | ND | ND | ND | ND |
| | 01/20/00 | 3.06 | | 5.46 | 0.00 | 583 ¹ | ND | ND | ND | ND | ND | ND | ND |
| | 04/13/00 | 2.84 | | 5.68 | 0.00 | 80 ²⁴ | ND | ND | ND | ND | ND | ND | ND |
| | 07/14/00 | 3.39 | | 5.13 | 0.00 | 113 ⁷ | ND | ND | ND | ND | ND | ND | ND |
| | 07/17/01 | 3.46 | | 5.06 | 0.00 | ND | ND | ND | ND | ND | ND | ND | ND |
| MW-9 | 02/21/95 | 1.98 | 3.0-13.0 | 6.31 | 0.00 | 71 ² | 70 ⁴ | ND | ND | ND | ND | ND | -- |
| 8.29 | 05/18/95 | 3.47 | | 4.82 | 0.00 | ND | 52 | ND | 1.1 | ND | 1.9 | -- | -- |
| | 08/17/95 | 1.49 | | 6.80 | 0.00 | ND | ND | ND | ND | ND | ND | -- | -- |
| | 07/26/96 | 0.28 | | 8.01 | 0.00 | 98 | ND | ND | ND | ND | ND | ND | ND |
| | 10/28/96 | 1.15 | | 7.14 | 0.00 | 99 ¹ | ND | ND | ND | ND | ND | ND | 7.6 |
| | 01/29/97 | 1.05 | | 7.24 | 0.00 | 54 | ND | ND | ND | ND | ND | ND | 5.4 |
| | 04/15/97 | 1.88 | | 6.41 | 0.00 | 94 ¹ | ND | ND | ND | ND | ND | ND | 5.4 |
| | 05/27/97 | 1.05 | | 7.24 | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 07/15/97 | 1.90 | | 6.39 | 0.00 | ND | ND | ND | ND | ND | ND | ND | ND |
| | 10/09/97 | 1.76 | | 6.53 | 0.00 | 160 ¹ | ND | ND | ND | ND | ND | ND | ND |
| | 01/14/98 | 1.26 | | 7.03 | 0.00 | 110 ⁷ | ND | ND | ND | ND | ND | ND | 3.0 |
| | 04/01/98 | 0.85 | | 7.44 | 0.00 | 110 ⁷ | ND | ND | ND | ND | ND | ND | ND |
| | 07/15/98 | 1.52 | | 6.77 | 0.00 | 200 ¹² | ND | ND | ND | ND | ND | ND | ND |
| | 10/16/98 | 0.81 | | 7.48 | 0.00 | ND | ND | ND | ND | ND | ND | ND | ND |
| | 01/25/99 | 0.92 | | 7.37 | 0.00 | ND | ND | ND | ND | ND | ND | ND | ND |
| | 04/15/99 | 0.90 | | 7.39 | 0.00 | ND | 75 ¹⁸ | 21 | ND | ND | 1.1 | 680 | 680 |
| | 07/14/99 | 1.04 | | 7.25 | 0.00 | 140 ²¹ | ND | 1.9 | ND | ND | ND | 260 | 260 |
| | 10/21/99 | 1.23 | | 7.06 | 0.00 | 210 ²⁴ | ND | ND | ND | ND | ND | 170 | 170 |
| | 01/20/00 | 1.18 | | 7.11 | 0.00 | 519 ¹ | ND | 1.1 | ND | ND | ND | 35 | 35 |
| | 04/13/00 | 1.08 | | 7.21 | 0.00 | 81 ²⁵ | 160 ²³ | 0.64 | ND | ND | ND | 53 | 53 |

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #5043
449 Hegenberger Road
Oakland, California

| WELL ID/ TOC* | DATE | DTW (ft.) | S.I. (ft. bgs) | GWE (msl) | Product | | | | | | | |
|------------------|----------|--------------|-------------------|--------------|--------------------|-------------------|-------------------|------------|------------|------------|------------|---------------|
| | | | | | Thickness (ft.) | TPH-D (ppb) | TPH-G (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | MTBE (ppb) |
| MW-9 | 07/14/00 | 1.43 | 3.0-13.0 | 6.86 | 0.00 | 107 ⁷ | ND | ND | ND | ND | ND | 20.2 |
| (cont) | 10/26/00 | 1.38 | | 6.91 | 0.00 | 240 ⁷ | 240 ²³ | 2.9 | ND | ND | ND | 56 |
| | 01/03/01 | 1.66 | | 6.63 | 0.00 | 164 ⁷ | 166 ²⁷ | 0.763 | 0.776 | ND | 1.28 | 50.2 |
| | 04/04/01 | 1.27 | | 7.02 | 0.00 | 240 ⁷ | 296 ²⁷ | 0.738 | ND | ND | 0.907 | 135 |
| | 07/17/01 | 1.38 | | 6.91 | 0.00 | ND | ND | ND | ND | ND | ND | 13 |
| MW-10 | 02/21/95 | 4.69 | 3.0-13.0 | 3.93 | 0.00 | 270 ² | 1,500 | 250 | 26 | 9.1 | 160 | -- |
| 8.62 | 05/18/95 | 4.92 | | 3.70 | 0.00 | 75 ¹ | 810 | 520 | ND | 18 | 23 | -- |
| | 08/17/95 | 4.05 | | 4.57 | 0.00 | ND | 67 | 25 | ND | 2.4 | ND | -- |
| | 07/26/96 | 4.08 | | 4.54 | 0.00 | ND | ND | 3.7 | ND | ND | ND | ND |
| | 10/28/96 | 4.09 | | 4.53 | 0.00 | ND | ND | 1.1 | ND | ND | ND | ND |
| | 01/29/97 | 2.94 | | 5.68 | 0.00 | ND | 210 | 41 | 0.67 | 7.2 | 4.8 | 11 |
| | 04/15/97 | 4.07 | | 4.55 | 0.00 | ND | 110 | 12 | ND | 0.77 | ND | 9.7 |
| | 05/27/97 | 4.40 | | 4.22 | 0.00 | -- | -- | -- | -- | -- | -- | -- |
| | 07/15/97 | 4.19 | | 4.43 | 0.00 | ND | ND | 2.1 | ND | 0.67 | 0.73 | ND |
| | 10/09/97 | 4.75 | | 3.87 | 0.00 | ND | 190 | 38 | 0.92 | 6.6 | 7.6 | ND |
| | 01/14/98 | 2.66 | | 5.96 | 0.00 | -- ⁸ | 59 | 9.5 | 0.85 | 1.2 | 1.7 | 4.5 |
| | 04/01/98 | 3.45 | | 5.17 | 0.00 | 62 ⁷ | 230 | 66 | 1.7 | 12 | 17 | 6.4 |
| | 07/15/98 | 4.21 | | 4.41 | 0.00 | 78 ¹² | 290 | 98 | 45 | 21 | 38 | 21 |
| | 10/16/98 | 4.11 | | 4.51 | 0.00 | ND | 160 ¹⁶ | 44 | 0.96 | 2.5 | 10 | 17 |
| | 01/25/99 | 3.26 | | 5.36 | 0.00 | ND | 140 | 27 | ND | 2.8 | 6.8 | 23 |
| | 04/15/99 | 3.63 | | 4.99 | 0.00 | ND | 120 | 18 | ND | 1.8 | 5.1 | 14 |
| | 07/14/99 | 3.89 | | 4.73 | 0.00 | 180 ²² | 280 | 55 | 3.2 | 11 | 31 | 6.1 |
| | 10/21/99 | 4.09 | | 4.53 | 0.00 | 96 ⁷ | 140 ²³ | 22 | 0.59 | 1.7 | 7.7 | 5.3 |
| | 01/20/00 | 3.92 | | 4.70 | 0.00 | 252 ¹ | ND | 0.73 | 0.86 | ND | ND | 5.2 |
| | 04/13/00 | 3.85 | | 4.77 | 0.00 | 69 ²⁴ | 67 ²³ | 54 | ND | 2.6 | ND | 3.8 |
| | 07/14/00 | 4.18 | | 4.44 | 0.00 | 149 ⁷ | ND | 0.547 | ND | ND | ND | ND |

Table 1
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 Tosco (Unocal) Service Station #5043
 449 Hegenberger Road
 Oakland, California

| WELL ID/ TOC* | DATE | DTW (ft.) | S.I. (ft. hgs) | GWE (msl) | Product | | B (ppb) | T (ppb) | E (ppb) | X (ppb) | MTBE (ppb) | |
|-------------------|----------|--------------|-------------------|--------------|--------------------|------------------|--------------------|------------|------------|------------|---------------|----------------|
| | | | | | Thickness (ft.) | TPH-D (ppb) | | | | | | TPH-G (ppb) |
| MW-10 | 10/26/00 | 3.96 | 3.0-13.0 | 4.66 | 0.00 | 83 ²⁴ | ND | 3.3 | ND | 0.83 | 1.5 | ND |
| (cont) | 01/03/01 | 4.14 | | 4.48 | 0.00 | 126 ⁷ | 52.7 ²³ | 5.15 | ND | 0.823 | 1.57 | ND |
| | 04/04/01 | 3.88 | | 4.74 | 0.00 | 75 ²⁴ | 129 ²³ | 28.1 | 1.67 | 4.97 | 10.1 | ND |
| | 07/17/01 | 4.08 | | 4.54 | 0.00 | ND | ND | 4.1 | ND | 1.0 | 1.8 | ND |
| Trip Blank | | | | | | | | | | | | |
| TB-LB | 01/14/98 | -- | -- | -- | -- | -- | ND | ND | ND | ND | ND | ND |
| | 04/01/98 | -- | -- | -- | -- | -- | ND | ND | ND | ND | ND | ND |
| | 07/15/98 | -- | -- | -- | -- | -- | ND | ND | ND | ND | ND | ND |
| | 10/16/98 | -- | -- | -- | -- | -- | ND | ND | ND | ND | ND | ND |
| | 01/25/99 | -- | -- | -- | -- | -- | ND | ND | ND | ND | ND | ND |
| | 04/15/99 | -- | -- | -- | -- | -- | ND | ND | ND | ND | ND | ND |
| | 07/14/99 | -- | -- | -- | -- | -- | ND | ND | ND | ND | ND | ND |
| | 10/21/99 | -- | -- | -- | -- | -- | ND | ND | ND | ND | ND | ND |
| | 01/20/00 | -- | -- | -- | -- | -- | ND | ND | ND | ND | ND | ND |
| | 04/13/00 | -- | -- | -- | -- | -- | ND | ND | ND | ND | ND | ND |
| | 07/14/00 | -- | -- | -- | -- | -- | ND | ND | ND | ND | ND | ND |
| | 10/26/00 | -- | -- | -- | -- | -- | ND | ND | ND | ND | ND | ND |
| | 01/03/01 | -- | -- | -- | -- | -- | ND | ND | ND | ND | ND | ND |
| | 04/04/01 | -- | -- | -- | -- | -- | ND | ND | ND | ND | ND | ND |
| | 07/17/01 | -- | -- | -- | -- | -- | ND | ND | ND | ND | ND | ND |

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #5043
 449 Hegenberger Road
 Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to January 14, 1998, were compiled from reports prepared by MPDS Services, Inc.

| | | |
|---------------------------------------|--|--------------------------------|
| TOC = Top of Casing | TPH-D = Total Petroleum Hydrocarbons as Diesel | (ppb) = Parts per billion |
| DTW = Depth to Water | TPH-G = Total Petroleum Hydrocarbons as Gasoline | ND = Not Detected |
| (ft.) = Feet | B = Benzene | -- = Not Measured/Not Analyzed |
| S. I. = Screen Interval | T = Toluene | |
| (ft. bgs) = Feet Below Ground Surface | E = Ethylbenzene | |
| GWE = Groundwater Elevation | X = Xylenes | |
| (msl) = Mean sea level | MTBE = Methyl tertiary butyl ether | |

- * TOC elevations are relative to msl, per the City of Oakland Benchmark #3880, (Elevation = 20.37 feet, msl).
- ** GWE corrected for the presence of free product; correction factor: $[(TOC - DTW) + (Product\ Thickness \times 0.77)]$.
- Elevations were based on the top of the well covers and were surveyed relative to msl, per the City of Oakland Benchmark #3880, (Elevation = 20.37 feet).

- 1 Laboratory report indicates the hydrocarbons detected did not appear to be diesel.
- 2 Laboratory report indicates the hydrocarbons detected appeared to be a diesel and non-diesel mixture.
- 3 Laboratory report indicates the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
- 4 Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.
- 5 Total Oil and Grease (TOG) was ND.
- 6 The well was obstructed with debris at 0.55 feet. A water sample was collected but was not analyzed as it was considered not representative of groundwater in this well.
- 7 Laboratory report indicates unidentified hydrocarbons C9-C24
- 8 Sample bottle broken at laboratory.
- 9 Detection limit raised. Refer to analytical reports.
- 10 Laboratory report indicates unidentified hydrocarbons >C14 and <C12.
- 11 Laboratory report indicates gasoline and unidentified hydrocarbons >C8.
- 12 Laboratory report indicates unidentified hydrocarbons >C14.
- 13 Laboratory report indicates non diesel mix >C14.
- 14 Laboratory report indicates gasoline and unidentified hydrocarbons C6-C12.
- 15 Laboratory report indicates non diesel mix C9-C27.
- 16 Laboratory report indicates unidentified hydrocarbons <C7.
- 17 Laboratory report indicates unidentified hydrocarbons >C10.
- 18 Laboratory report indicates unidentified hydrocarbons C6-C12.
- 19 Laboratory report indicates unidentified hydrocarbons >C9.
- 20 Laboratory report indicates discrete peaks and unidentified hydrocarbons >C20.

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #5043
449 Hegenberger Road
Oakland, California

EXPLANATIONS: (cont)

- 21 Laboratory report indicates discrete peaks and unidentified hydrocarbons >C16.
- 22 Laboratory report indicates unidentified hydrocarbons <C14 and >C16.
- 23 Laboratory report indicates gasoline C6-C12.
- 24 Laboratory report indicates unidentified hydrocarbons >C16.
- 25 Laboratory report indicates discrete peaks.
- 26 MTBE by EPA Method 8260.
- 27 Laboratory report indicates weathered gasoline C6-C12.
- 28 Laboratory report indicates unidentified hydrocarbons <C16
- 29 Laboratory report indicates unidentified hydrocarbons C9-C40.
- 30 MTBE by EPA Method 8260 was originally analyzed within holding time. Re-analysis for confirmation or dilution was performed past the recommended holding time.
- 31 Laboratory report indicates diesel C9-C24.

Table 2
Groundwater Analytical Results - Oxygenate Compounds
 Tosco (Unocal) Service Station #5043
 449 Hegenberger Road
 Oakland, California

| WELL ID | DATE | ETHANOL (ppb) | TBA (ppb) | MTBE (ppb) | DIPE (ppb) | ETBE (ppb) | TAME (ppb) | 1,2-DCA (ppb) | EDB (ppb) |
|---------|----------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|-----------------|
| MW-3 | 04/13/00 | ND | ND | 150 | ND | ND | ND | ND | ND |
| MW-6 | 07/14/00 | -- | -- | ND ¹ | -- | -- | -- | -- | -- |
| | 10/26/00 | -- | -- | 43 ² | -- | -- | -- | -- | -- |
| | 01/03/01 | -- | -- | ND ¹ | -- | -- | -- | -- | -- |
| | 04/04/01 | ND ¹ | ND ¹ | 47.8 | ND ¹ | ND ¹ | ND ¹ | ND ¹ | ND ¹ |

EXPLANATIONS:

TBA = Tertiary butyl alcohol
 MTBE = Methyl tertiary butyl ether
 DIPE = Di-isopropyl ether
 ETBE = Ethyl tertiary butyl ether
 TAME = Tertiary amyl methyl ether
 1,2-DCA = 1,2-Dichloroethane
 EDB = Ethylene dibromide or 1,2-Dibromoethane
 (ppb) = Parts per billion
 ND = Not Detected
 -- = Not Analyzed

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

¹ Detection limit raised. Refer to analytical reports.

² Laboratory report indicates sample was originally analyzed within holding time. Re-analysis for confirmation or dilution was performed past the recommended holding time.

Table 3
Product Thickness/Removal Data
 Tosco (Unocal) Service Station #5043
 449 Hegenberger Road
 Oakland, California

| WELL ID | DATE | DTW (ft.) | Product Thickness (ft.) | Amount Bailed (Product + Water) (gallons) |
|---------|-----------------------|--------------|-------------------------------|---|
| MW-6 | 07/26/96 | 6.40 | 3.33 | 2.10 |
| | 10/28/96 | 4.10 | 0.21 | 0.14 |
| | 11/13/96 | 4.02 | 0.25 | 0.09 |
| | 11/25/96 | 4.01 | 0.75 | 0.47 |
| | 12/04/96 | 3.65 | 0.50 | 0.43 |
| | 12/19/96 | 4.80 | 2.20 | 1.02 |
| | 01/08/97 | 4.84 | 1.75 | 0.59 |
| | 01/14/97 | 4.51 | 1.15 | 0.66 |
| | 01/27/97 | 4.00 | 1.75 | 0.78 |
| | 01/29/97 | 3.24 | 0.31 | 0.25 |
| | 02/11/97 | 4.65 | 1.20 | 0.62 |
| | 02/24/97 | 4.81 | 1.10 | 0.50 |
| | 03/10/97 | 4.60 | 0.95 | 0.47 |
| | 03/17/97 | 4.50 | 0.89 | 0.35 |
| | 03/31/97 | 4.65 | 1.00 | 0.50 |
| | 04/15/97 | 4.90 | 1.03 | 0.51 |
| | 04/28/97 | 4.78 | 0.03 | 0.20 |
| | 05/15/97 | 4.60 | 0.25 | 0.20 |
| | 05/27/97 | 4.50 | 0.25 | 0.00 |
| | 06/09/97 | 4.60 | 0.20 | 0.23 |
| | 06/24/97 | 4.50 | 0.25 | 0.25 |
| | 07/09/97 | 4.80 | 0.60 | 0.25 |
| | 07/15/97 | 4.63 | 0.42 | 0.20 |
| | 07/21/97 | 4.75 | 0.25 | 0.27 |
| | 08/06/97 | 4.50 | 0.10 | 0.16 |
| | 08/20/97 | 4.55 | 0.10 | 0.20 |
| | 09/02/97 | 4.75 | 0.05 | 0.12 |
| | 10/09/97 | 4.84 | 0.04 | 0.12 |
| | 01/14/98 ¹ | 3.90 | 0.94 | 1.50 |
| | 02/12/98 ¹ | 3.35 | 0.64 | 0.32 |
| | 03/03/98 ¹ | 4.51 | 0.02 | 2.00 |
| | 04/01/98 ¹ | 3.67 | 1.60 | 0.50 |
| | 05/26/98 ¹ | 4.11 | 0.50 | 0.08 |
| | 06/15/98 ¹ | 5.03 | 0.30 | 0.060 |
| | 07/15/98 ¹ | 4.56 | 0.05 | 0.10 |
| | 08/21/98 ¹ | 4.77 | 0.02 | 0.040 |
| | 09/30/98 ¹ | 5.08 | 0.03 | 0.027 |
| | 10/16/98 ¹ | 4.32 | 2.40 | 0.98 |
| | 11/06/98 ¹ | 3.98 | 0.17 | 0.16 |
| | 11/25/98 ¹ | 3.92 | 0.10 | 0.12 |
| | 12/28/98 ¹ | 3.90 | 0.20 | 0.14 |
| | 01/25/99 ¹ | 4.18 | 0.60 | 0.27 |
| | 02/22/99 ¹ | 4.07 | 0.22 | 0.078 product/3.0 water |
| | 03/22/99 ¹ | 4.32 | 0.15 | 0.039 product/5.0 water |

Table 3
Product Thickness/Removal Data
Tosco (Unocal) Service Station #5043
449 Hegenberger Road
Oakland, California

| WELL ID | DATE | DTW (ft.) | Product Thickness (ft.) | Amount Bailed (Product + Water) (gallons) |
|---------|-----------------------|--------------|-------------------------------|---|
| MW-6 | 04/15/99 ¹ | 4.23 | 0.95 | 1.0 product |
| (cont) | 05/28/99 ¹ | 4.38 | 0.39 | 0.141 product/1.0 water |
| | 06/29/99 ¹ | 4.12 | 0.02 | 0.054 product/8.0 water |
| | 07/14/99 ¹ | 4.20 | 0.03 | 0.039 product/2.0 water |
| | 08/23/99 ¹ | 4.51 | 0.24 | 0.094 product/1.0 water |
| | 09/30/99 ¹ | 4.17 | 0.17 | 0.141 product/1.0 water |
| | 10/21/99 ¹ | 4.27 | 0.12 | 0.070 product/1.0 water |
| | 11/29/99 ² | 4.18 | <0.01 | 0.0078 product/1.0 water |
| | 12/20/99 ² | 4.26 | 0.01 | 0.0156 product/1.0 water |
| | 01/20/00 ² | 4.31 | <0.01 | 0.00 |
| | 02/26/00 | 3.98 | 0.00 | 0.00 |
| | 03/31/00 | 4.14 | 0.00 | 0.00 |
| | 04/13/00 | 4.04 | 0.00 | 0.00 |
| | 05/26/00 | 4.41 | 0.00 | 0.00 |
| | 06/17/00 | 4.35 | 0.00 | 0.00 |
| | 07/14/00 | 4.47 | <0.01 | <1 ounce |
| | 08/24/00 | 3.71 | 0.00 | 0.00 |
| | 09/27/00 | 4.33 | 0.00 | 0.00 |
| | 10/26/00 | 4.32 | 0.00 | 0.00 |
| | 01/03/01 | 4.52 | 0.00 | 0.00 |
| | 04/04/01 | 4.29 | 0.00 | 0.00 |
| | 07/17/01 | 4.37 | 0.00 | 0.00 |

EXPLANATIONS:

Product Thickness/Removal Data prior to January 14, 1998, were compiled from reports prepared by MPDS Services, Inc.

DTW = Depth to Water

(ft.) = Feet

¹ Skimmer present in well.

² No skimmer found in well.

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, static water level measurements are collected with the interface probe and are also recorded in the field notes.

After water levels are collected and prior to sampling, temperature, pH and electrical conductivity are measured. If purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. The measurements are taken a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Tosco Marketing Company, the purge water and decontamination water generated during sampling activities is transported to Tosco - San Francisco Area Refinery, located in Rodeo, California.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/
Facility # 5043
Address: 449 Heegenberger Rd.
City: Oakland

Job#: 180065
Date: 7-17-01
Sampler: Joe

Well ID MW-3

Well Condition: o.k

Well Diameter 2 in.

Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Total Depth 13.92 ft.

Depth to Water 3.12 ft.

| | | | |
|--------------------|-----------|------------|-----------|
| Volume Factor (VF) | 2" = 0.17 | 3" = 0.38 | 4" = 0.66 |
| | 6" = 1.50 | 12" = 5.80 | |

10.8 X VF 0.17 = 1.84 X 3 (case volume) = Estimated Purge Volume: 5.5 (gal.)

Purge Equipment: Disposable Bailer
Bailer
Stack
Suction
Grundfos
Other: _____

Sampling Equipment: Disposable Bailer
Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: 9:00
Sampling Time: 9:25 AM (0925)
Purging Flow Rate: 0.2 gpm
Did well de-water? _____

Weather Conditions: Foggy
Water Color: clear Odor: mild
Sediment Description: _____
If yes; Time: _____ Volume: _____ (gal.)

| Time | Volume (gal.) | pH | Conductivity $\mu\text{mhos/cm} \times 10^2$ | Temperature $^{\circ}\text{F}$ | D.O. (mg/L) | ORP (mV) | Alkalinity (ppm) |
|-------------|---------------|-------------|--|--------------------------------|-------------|----------|------------------|
| <u>9:07</u> | <u>1.5</u> | <u>7.21</u> | <u>3.80</u> | <u>65.0</u> | _____ | _____ | _____ |
| <u>9:12</u> | <u>3.5</u> | <u>7.17</u> | <u>3.52</u> | <u>65.5</u> | _____ | _____ | _____ |
| <u>9:15</u> | <u>5.5</u> | <u>7.14</u> | <u>3.57</u> | <u>65.3</u> | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |

LABORATORY INFORMATION

| SAMPLE ID | (#) - CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|-------------|-----------------|----------|---------------|-------------|-------------------------|
| <u>MW-3</u> | <u>3Y04</u> | <u>Y</u> | <u>HCL</u> | <u>Seq.</u> | <u>TPHG, BTEX, MTBE</u> |
| | <u>1AMB</u> | <u>"</u> | <u>-</u> | <u>"</u> | <u>TPHD</u> |
| | | | | | |

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/
Facility # 5043 Job#: 180065
Address: 449 Hegeberger Rd. Date: 7-17-01
City: Oakland Sampler: Joe

Well ID MW-6 Well Condition: O.K.
Well Diameter 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)
Total Depth 12.71 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66
Depth to Water 4.37 ft. Factor (VF) 6" = 1.50 12" = 5.80
8.34 X VF 0.17 = 1.42 X 3 (case volume) = Estimated Purge Volume: 4.5 (gal.)

Purge Equipment: Disposable Bailer
Bailer
Stack
Suction
Grundfos
Other: _____

Sampling Equipment: Disposable Bailer
Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: 10:10 Weather Conditions: Foggy
Sampling Time: 10:36 AM (1036) Water Color: clear Odor: yes
Purging Flow Rate: 0.5 gpm Sediment Description: _____
Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

| Time | Volume (gal.) | pH | Conductivity ²⁰ (µmhos/cm) | Temperature (°F) | D.O. (mg/L) | ORP (mV) | Alkalinity (ppm) |
|--------------|---------------|-------------|---------------------------------------|------------------|-------------|----------|------------------|
| <u>10:20</u> | <u>1.5</u> | <u>6.75</u> | <u>0.84</u> | <u>65.2</u> | | | |
| <u>10:24</u> | <u>3</u> | <u>6.73</u> | <u>0.75</u> | <u>65.3</u> | | | |
| <u>10:27</u> | <u>4.5</u> | <u>6.72</u> | <u>0.72</u> | <u>65.3</u> | | | |
| | | | | | | | |
| | | | | | | | |

LABORATORY INFORMATION

| SAMPLE ID | (#) - CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|-------------|-----------------|----------|---------------|-------------|-------------------------|
| <u>MW-6</u> | <u>3Y0A</u> | <u>Y</u> | <u>HCL</u> | <u>Seq.</u> | <u>TPHG, BTEX, MTBE</u> |
| | <u>1AMB</u> | <u>"</u> | <u>-</u> | <u>"</u> | <u>TPHD</u> |
| | | | | | |
| | | | | | |

COMMENTS: one padlock.

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/Facility # 5043 Job#: 180065
 Address: 449 Heegenberger Rd. Date: 7-17-01
 City: Oakland Sampler: Joe

Well ID MW-7 Well Condition: o.k.
 Well Diameter 2 in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 gal.
 Total Depth 13.15 ft.
 Depth to Water 5.06 ft.

| | | | |
|--------------------|-----------|------------|-----------|
| Volume Factor (VF) | 2" = 0.17 | 3" = 0.38 | 4" = 0.66 |
| | 6" = 1.50 | 12" = 5.80 | |

8.09 x VF 0.17 = 1.38 x 3 (case volume) = Estimated Purge Volume: 4.5 gal.

Purge Equipment: Disposable Bailer
 Bailer
 Stack
 Suction
 Grundfos
 Other: _____

Sampling Equipment: Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 7:00 Weather Conditions: Foggy
 Sampling Time: 7:25 AM (0725) Water Color: clear Odor: none
 Purging Flow Rate: 0.5 gpm Sediment Description: _____
 Did well de-water? _____ If yes; Time: _____ Volume: _____ gal.

| Time | Volume (gal.) | pH | Conductivity $\mu\text{mhos/cm} \times 10^2$ | Temperature $^{\circ}\text{F}$ | D.O. (mg/L) | ORP (mV) | Alkalinity (ppm) |
|-------------|---------------|-------------|--|--------------------------------|-------------|----------|------------------|
| <u>7:10</u> | <u>1.5</u> | <u>7.95</u> | <u>8.47</u> | <u>65.3</u> | _____ | _____ | _____ |
| <u>7:14</u> | <u>2</u> | <u>7.65</u> | <u>8.49</u> | <u>65.4</u> | _____ | _____ | _____ |
| <u>7:17</u> | <u>4.5</u> | <u>7.62</u> | <u>8.53</u> | <u>65.1</u> | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |

LABORATORY INFORMATION

| SAMPLE ID | (#) - CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|-------------|-----------------|----------|---------------|-------------|-------------------------|
| <u>MW-7</u> | <u>3YOA</u> | <u>Y</u> | <u>HCL</u> | <u>Seq.</u> | <u>TPHG, BTEX, MTBE</u> |
| | <u>1AMB</u> | <u>"</u> | <u>-</u> | <u>"</u> | <u>TPHD</u> |
| | | | | | |

COMMENTS: One padlock

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/
Facility # 5043
Address: 449 Hegenberger Rd.
City: Oakland

Job#: 180065
Date: 7-17-01
Sampler: Joe

Well ID MW-8
Well Diameter 2 in
Total Depth 14.80 ft
Depth to Water 3.46 ft

Well Condition: O.K.
Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)
Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
6" = 1.50 12" = 5.80

11.34 x VF 0.17 = 1.93 X 3 (case volume) = Estimated Purge Volume: 6 (gal.)

Purge Equipment: Disposable Bailer
Bailer
Stack
Suction
Grundfos
Other: _____

Sampling Equipment: Disposable Bailer
Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: 7:35
Sampling Time: 8:04 A.M. (0804)
Purging Flow Rate: 0.5 gpm
Did well de-water? _____

Weather Conditions: Foggy
Water Color: clear Odor: none
Sediment Description: _____
If yes; Time: _____ Volume: _____ (gal.)

| Time | Volume (gal.) | pH | Conductivity $\mu\text{mhos/cm} \times 10^2$ | Temperature $^{\circ}\text{F}$ | D.O. (mg/L) | ORP (mV) | Alkalinity (ppm) |
|-------------|---------------|-------------|--|--------------------------------|-------------|----------|------------------|
| <u>7:48</u> | <u>2</u> | <u>7.48</u> | <u>9.67</u> | <u>65.5</u> | | | |
| <u>7:52</u> | <u>4</u> | <u>7.50</u> | <u>9.53</u> | <u>65.4</u> | | | |
| <u>7:56</u> | <u>6</u> | <u>7.43</u> | <u>9.57</u> | <u>65.6</u> | | | |
| | | | | | | | |
| | | | | | | | |

LABORATORY INFORMATION

| SAMPLE ID | (#) - CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|-------------|-----------------|----------|---------------|-------------|-------------------------|
| <u>MW-8</u> | <u>3YOA</u> | <u>Y</u> | <u>HCL</u> | <u>Seq.</u> | <u>TPHG, BTEX, MTBE</u> |
| | <u>1AMB</u> | <u>"</u> | <u>-</u> | <u>"</u> | <u>TPHD</u> |
| | | | | | |
| | | | | | |

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/
Facility # 5043
Address: 449 Hegenberger Rd.
City: Oakland

Job#: 180065
Date: 7-17-01
Sampler: Joe

Well ID MW-9
Well Diameter 2 in.
Total Depth 11.90 ft.
Depth to Water 1.38 ft.

Well Condition: ~~OK~~ See notes below

Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)
Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
6" = 1.50 12" = 5.80

10.52 X VF 0.17 = 1.79 X 3 (case volume) = Estimated Purge Volume: 5.5 (gal.)

Purge Equipment: Disposable Bailer
Bailer
Stack
Suction
Grundfos
Other: _____

Sampling Equipment: Disposable Bailer
Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: 8:15
Sampling Time: 8:40 AM (0840)
Purging Flow Rate: 0.5 gpm
Did well de-water? _____

Weather Conditions: Foggy
Water Color: clear Odor: mild
Sediment Description: _____
If yes; Time: _____ Volume: _____ (gal.)

| Time | Volume (gal.) | pH | Conductivity $\mu\text{mhos/cm} \times$ | Temperature $^{\circ}\text{F}$ | D.O. (mg/L) | ORP (mV) | Alkalinity (ppm) |
|------|---------------|------|---|--------------------------------|-------------|----------|------------------|
| 8:25 | 1.5 | 7.40 | 4.85 | 65.9 | | | |
| 8:27 | 3 | 7.32 | 4.86 | 65.4 | | | |
| 8:31 | 5.5 | 7.26 | 4.84 | 65.6 | | | |
| | | | | | | | |
| | | | | | | | |

LABORATORY INFORMATION

| SAMPLE ID | (#) - CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|-----------|-----------------|---------|---------------|------------|------------------|
| MW-9 | 3YOA | Y | HCL | Seq. | TPHG, BTEX, MTBE |
| | 1AMB | " | - | " | TPHD |
| | | | | | |
| | | | | | |

COMMENTS: Two flanges missing. Third flange has no threads. Well casing needs an extension. Buried in 1/2 foot of mud each sampling event.

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/
Facility # 5043
Address: 449 Heegenberger Rd.
City: Oakland

Job#: 180065
Date: 7-17-01
Sampler: Joe

Well ID MW-10
Well Diameter 2 in.
Total Depth 12.81 ft
Depth to Water 4.08 ft

Well Condition: O.K.
Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)
Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
6" = 1.50 12" = 5.80

8.73 x VF 0.17 = 1.48 x 3 (case volume) = Estimated Purge Volume: 4.5 (gal.)

Purge Equipment: Disposable Bailer
Bailer
Stack
Suction
Grundfos
Other: _____

Sampling Equipment: Disposable Bailer
Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: 9:35
Sampling Time: 10:10 (10:00)
Purging Flow Rate: 0.5 gpm
Did well de-water? _____

Weather Conditions: Foggy
Water Color: clear Odor: yes
Sediment Description: _____
If yes; Time: _____ Volume: _____ (gal.)

| Time | Volume (gal.) | pH | Conductivity $\mu\text{mhos/cm} \times 10^2$ | Temperature $^{\circ}\text{F}$ | D.O. (mg/L) | ORP (mV) | Alkalinity (ppm) |
|-------------|---------------|-------------|--|--------------------------------|-------------|----------|------------------|
| <u>9:43</u> | <u>1.5</u> | <u>7.17</u> | <u>4.85</u> | <u>65.1</u> | _____ | _____ | _____ |
| <u>9:48</u> | <u>3</u> | <u>7.25</u> | <u>4.80</u> | <u>65.4</u> | _____ | _____ | _____ |
| <u>9:51</u> | <u>4.5</u> | <u>7.29</u> | <u>4.76</u> | <u>65.5</u> | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |

LABORATORY INFORMATION

| SAMPLE ID | (#) - CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|--------------|-----------------|----------|---------------|-------------|-------------------------|
| <u>MW-10</u> | <u>3 vol</u> | <u>Y</u> | <u>HCL</u> | <u>Seq.</u> | <u>TPHG, BTEX, MTBE</u> |
| | <u>1AMB</u> | <u>"</u> | <u>-</u> | <u>"</u> | <u>TPHD</u> |
| | | | | | |
| | | | | | |

COMMENTS: _____



TOSCO

Tosco Marketing Company
2570 Case Canyon Pl., Ste. 400
San Ramon, California 94583

Facility Number UNOCAL SSI 5043
Facility Address 449 Hegenberger Road, Oakland, CA
180065.85
Consultant Project Number _____
Consultant Name Gettler-Ryan Inc. (G-R Inc.)
Address 6747 Sierra Court, Suite J, Dublin, CA 94568
Project Contact (Name) Deanna L. Harding
(Phone) 510-551-7555 (Fax Number) 510-551-7888

Contact (Name) MR. DAVID DEWITT
(Phone) 925-277-2384
Laboratory Name Sequoia Analytical
Laboratory Release Number _____
Samples Collected by (Name) JOE ASEMIAN
Collection Date 7-17-01
Signature [Signature]

407MS

| Sample Number | Lab Sample Number | Number of Containers | Matrix S = Soil W = Water A = Air C = Charcoal | Type G = Composite D = Discrete | Time | Sample Preservation | Lead (Yes or No) | Analytes To Be Performed | | | | | | | | | | Remarks | | | | |
|---------------|-------------------|----------------------|--|---------------------------------------|------|---------------------|------------------|------------------------------|-------------------|-----------------------|------------------------------|----------------------------|---------------------------|-----------------------------|--|--|--|---------|--|--|--|--|
| | | | | | | | | TPH Gas + BTEX w/MTBE (8016) | TPH Diesel (8015) | Oil and Grease (5520) | Purgeable Halocarbons (8010) | Purgeable Aromatics (8020) | Purgeable Organics (8240) | Extractable Organics (8270) | Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA) | | | | | | | |
| TB-LB | 01 | 1 | W | G | - | HCL | Y | ✓ | | | | | | | | | | | | | | |
| MW-3 | 02 | 3 vials | | | 0925 | / | / | ✓ | ✓ | | | | | | | | | | | | | |
| MW-6 | 03 | | | | 1036 | / | / | ✓ | ✓ | | | | | | | | | | | | | |
| MW-7 | 04 | | | | 0725 | / | / | ✓ | ✓ | | | | | | | | | | | | | |
| MW-8 | 05 | | | | 0804 | / | ✓ | ✓ | ✓ | | | | | | | | | | | | | |
| MW-9 | 06 | | | | 0840 | / | / | ✓ | ✓ | | | | | | | | | | | | | |
| MW-10 | 07 | | | | 1000 | / | / | ✓ | ✓ | | | | | | | | | | | | | |

DO NOT BILL
TB-LB ANALYSIS

| | | | | | |
|--|--------------------------|----------------------------|---|--------------|----------------------------|
| Requested By (Signature) <u>[Signature]</u> | Organization G-R Inc. | Date/Time (800) 7-17-01 | Received By (Signature) <u>[Signature]</u> | Organization | Date/Time (800) 7/17/01 |
| Requested By (Signature) | Organization | Date/Time | Received By (Signature) | Organization | Date/Time |
| Requested By (Signature) | Organization | Date/Time | Received For Laboratory By (Signature) | Organization | Date/Time |

Turn Around Time (Circle Choice)

24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted



Sequoia
Analytical

RECEIVED

AUG 03 2001

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612
www.sequoialabs.com

GETTLER-RYAN INC.
GENERAL CONTRACTORS

August 01 , 2001

Deanna Harding
Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin, CA 94568
RE: Tosco(1) / L107145

Enclosed are the results of analyses for samples received by the laboratory on 07/17/01. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya Pelt
Project Manager

CA ELAP Certificate Number 2360



Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Tosco(1)
Project Number: Unocal SS#5043, Oakland, CA
Project Manager: Deanna Harding

Reported:
08/01/01 15:12

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| TB-LB | L107145-01 | Water | 07/17/01 00:00 | 07/17/01 18:00 |
| MW-3 | L107145-02 | Water | 07/17/01 09:25 | 07/17/01 18:00 |
| MW-6 | L107145-03 | Water | 07/17/01 10:36 | 07/17/01 18:00 |
| MW-7 | L107145-04 | Water | 07/17/01 07:25 | 07/17/01 18:00 |
| MW-8 | L107145-05 | Water | 07/17/01 08:04 | 07/17/01 18:00 |
| MW-9 | L107145-06 | Water | 07/17/01 08:40 | 07/17/01 18:00 |
| MW-10 | L107145-07 | Water | 07/17/01 10:00 | 07/17/01 18:00 |

Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Tosco(1)
Project Number: Unocal SS#5043, Oakland, CA
Project Manager: Deanna Harding

Reported:
08/01/01 15:12

**Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8021B
Sequoia Analytical - San Carlos**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|

TB-LB (L107145-01) Water Sampled: 07/17/01 00:00 Received: 07/17/01 18:00

| | | | | | | | | | |
|--|----|--------|------|--------|---------|----------|----------|----------|--|
| Purgeable Hydrocarbons as Gasoline | ND | 50 | ug/l | 1 | 1070140 | 07/31/01 | 07/31/01 | DHS LUFT | |
| Benzene | ND | 0.50 | " | " | " | " | " | " | |
| Toluene | ND | 0.50 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.50 | " | " | " | " | " | " | |
| Methyl tert-butyl ether | ND | 5.0 | " | " | " | " | " | " | |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> | | 79.3 % | | 70-130 | " | " | " | " | |

MW-3 (L107145-02) Water Sampled: 07/17/01 09:25 Received: 07/17/01 18:00

| | | | | | | | | | |
|--|-----|--------|------|--------|---------|----------|----------|----------|------|
| Purgeable Hydrocarbons as Gasoline | 480 | 50 | ug/l | 1 | 1070140 | 07/31/01 | 07/31/01 | DHS LUFT | P-02 |
| Benzene | ND | 0.50 | " | " | " | " | " | " | |
| Toluene | ND | 0.50 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.50 | " | " | " | " | " | " | |
| Methyl tert-butyl ether | 150 | 5.0 | " | " | " | " | " | " | |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> | | 86.6 % | | 70-130 | " | " | " | " | |

MW-6 (L107145-03) Water Sampled: 07/17/01 10:36 Received: 07/17/01 18:00

| | | | | | | | | | |
|--|--------|--------|------|--------|---------|----------|----------|----------|------|
| Purgeable Hydrocarbons as Gasoline | 100000 | 20000 | ug/l | 400 | 1070135 | 07/30/01 | 07/31/01 | DHS LUFT | P-01 |
| Benzene | 3200 | 200 | " | " | " | " | " | " | |
| Toluene | 3300 | 200 | " | " | " | " | " | " | |
| Ethylbenzene | 3400 | 200 | " | " | " | " | " | " | |
| Xylenes (total) | 12000 | 200 | " | " | " | " | " | " | |
| Methyl tert-butyl ether | ND | 2000 | " | " | " | " | " | " | |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> | | 95.7 % | | 70-130 | " | " | " | " | |

Gettler-Ryan/Geostrategies(1)
 6747 Sierra Court, Suite J
 Dublin CA, 94568

Project: Tosco(1)
 Project Number: Unocal SS#5043, Oakland, CA
 Project Manager: Deanna Harding

Reported:
 08/01/01 15:12

Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8021B
Sequoia Analytical - San Carlos

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------------|-------|----------|---------|----------|----------|----------|-------|
| MW-7 (L107145-04) Water Sampled: 07/17/01 07:25 Received: 07/17/01 18:00 | | | | | | | | | |
| Purgeable Hydrocarbons as Gasoline | ND | 50 | ug/l | 1 | 1070140 | 07/31/01 | 07/31/01 | DHS LUFT | |
| Benzene | ND | 0.50 | " | " | " | " | " | " | |
| Toluene | ND | 0.50 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.50 | " | " | " | " | " | " | |
| Methyl tert-butyl ether | ND | 5.0 | " | " | " | " | " | " | |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> | | 78.6 % | | 70-130 | " | " | " | " | |
| MW-8 (L107145-05) Water Sampled: 07/17/01 08:04 Received: 07/17/01 18:00 | | | | | | | | | |
| Purgeable Hydrocarbons as Gasoline | ND | 50 | ug/l | 1 | 1070135 | 07/30/01 | 07/31/01 | DHS LUFT | |
| Benzene | ND | 0.50 | " | " | " | " | " | " | |
| Toluene | ND | 0.50 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.50 | " | " | " | " | " | " | |
| Methyl tert-butyl ether | ND | 5.0 | " | " | " | " | " | " | |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> | | 74.7 % | | 70-130 | " | " | " | " | |
| MW-9 (L107145-06) Water Sampled: 07/17/01 08:40 Received: 07/17/01 18:00 | | | | | | | | | |
| Purgeable Hydrocarbons as Gasoline | ND | 50 | ug/l | 1 | 1070135 | 07/30/01 | 07/31/01 | DHS LUFT | |
| Benzene | ND | 0.50 | " | " | " | " | " | " | |
| Toluene | ND | 0.50 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.50 | " | " | " | " | " | " | |
| Methyl tert-butyl ether | 13 | 5.0 | " | " | " | " | " | " | |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> | | 80.2 % | | 70-130 | " | " | " | " | |

Gettler-Ryan/Geostrategies(1)
 6747 Sierra Court, Suite J
 Dublin CA, 94568

Project: Tosco(1)
 Project Number: Unocal SS#5043, Oakland, CA
 Project Manager: Deanna Harding

Reported:
 08/01/01 15:12

Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8021B
Sequoia Analytical - San Carlos

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--|--------|-----------------|-------|----------|---------|----------|----------|----------|-------|
| MW-10 (L107145-07) Water Sampled: 07/17/01 10:00 Received: 07/17/01 18:00 | | | | | | | | | |
| Purgeable Hydrocarbons as Gasoline | ND | 50 | ug/l | 1 | 1070135 | 07/30/01 | 07/31/01 | DHS LUFT | |
| Benzene | 4.1 | 0.50 | " | " | " | " | " | " | |
| Toluene | ND | 0.50 | " | " | " | " | " | " | |
| Ethylbenzene | 1.0 | 0.50 | " | " | " | " | " | " | |
| Xylenes (total) | 1.8 | 0.50 | " | " | " | " | " | " | |
| Methyl tert-butyl ether | ND | 5.0 | " | " | " | " | " | " | |
| Surrogate: <i>a,a,a</i> -Trifluorotoluene | | 86.8 % | | 70-130 | " | " | " | " | |

Gettler-Ryan/Geostrategies(1)
 6747 Sierra Court, Suite J
 Dublin CA, 94568

Project: Tosco(1)
 Project Number: Unocal SS#5043, Oakland, CA
 Project Manager: Deanna Harding

Reported:
 08/01/01 15:12

**Diesel Hydrocarbons (C9-C24) by DHS LUFT
 Sequoia Analytical - Walnut Creek**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--|--------|-----------------|--------|----------|---------|----------|----------|-----------|-------|
| MW-3 (L107145-02) Water Sampled: 07/17/01 09:25 Received: 07/17/01 18:00 | | | | | | | | | |
| Diesel Range Hydrocarbons | 270 | 50 | ug/l | 1 | 1G23010 | 07/23/01 | 07/24/01 | EPA 8015M | D-11 |
| Surrogate: n-Pentacosane | | 97.0 % | 50-150 | | " | " | " | " | |
| MW-6 (L107145-03) Water Sampled: 07/17/01 10:36 Received: 07/17/01 18:00 | | | | | | | | | |
| Diesel Range Hydrocarbons | 20000 | 500 | ug/l | 10 | 1G23010 | 07/23/01 | 07/25/01 | EPA 8015M | D-13 |
| Surrogate: n-Pentacosane | | % | 50-150 | | " | " | " | " | D-09 |
| MW-7 (L107145-04) Water Sampled: 07/17/01 07:25 Received: 07/17/01 18:00 | | | | | | | | | |
| Diesel Range Hydrocarbons | ND | 50 | ug/l | 1 | 1G23010 | 07/23/01 | 07/24/01 | EPA 8015M | |
| Surrogate: n-Pentacosane | | 76.0 % | 50-150 | | " | " | " | " | |
| MW-8 (L107145-05) Water Sampled: 07/17/01 08:04 Received: 07/17/01 18:00 | | | | | | | | | |
| Diesel Range Hydrocarbons | ND | 50 | ug/l | 1 | 1G23010 | 07/23/01 | 07/24/01 | EPA 8015M | |
| Surrogate: n-Pentacosane | | 73.0 % | 50-150 | | " | " | " | " | |
| MW-9 (L107145-06) Water Sampled: 07/17/01 08:40 Received: 07/17/01 18:00 | | | | | | | | | |
| Diesel Range Hydrocarbons | ND | 50 | ug/l | 1 | 1G23010 | 07/23/01 | 07/24/01 | EPA 8015M | |
| Surrogate: n-Pentacosane | | 83.2 % | 50-150 | | " | " | " | " | |
| MW-10 (L107145-07) Water Sampled: 07/17/01 10:00 Received: 07/17/01 18:00 | | | | | | | | | |
| Diesel Range Hydrocarbons | ND | 50 | ug/l | 1 | 1G25004 | 07/25/01 | 07/25/01 | EPA 8015M | |
| Surrogate: n-Pentacosane | | 103 % | 50-150 | | " | " | " | " | |

Gettler-Ryan/Geostrategies(1)
 6747 Sierra Court, Suite J
 Dublin CA, 94568

Project: Tosco(1)
 Project Number: Unocal SS#5043, Oakland, CA
 Project Manager: Deanna Harding

Reported:
 08/01/01 15:12

Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8021B - Quality Control
Sequoia Analytical - San Carlos

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

Batch 1070135 - EPA 5030B (P/T)

Blank (1070135-BLK1)

Prepared & Analyzed: 07/30/01

| | | | | | | | | | | |
|------------------------------------|------|------|------|------|--|-----|--------|--|--|--|
| Purgeable Hydrocarbons as Gasoline | ND | 50 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | " | | | | | | | |
| Toluene | ND | 0.50 | " | | | | | | | |
| Ethylbenzene | ND | 0.50 | " | | | | | | | |
| Xylenes (total) | ND | 0.50 | " | | | | | | | |
| Methyl tert-butyl ether | ND | 5.0 | " | | | | | | | |
| Surrogate: a,a,a-Trifluorotoluene | 11.0 | | " | 10.0 | | 110 | 70-130 | | | |

LCS (1070135-BS1)

Prepared: 07/30/01 Analyzed: 07/31/01

| | | | | | | | | | | |
|-----------------------------------|------|------|------|------|--|------|--------|--|--|--|
| Benzene | 8.61 | 0.50 | ug/l | 10.0 | | 86.1 | 70-130 | | | |
| Toluene | 8.53 | 0.50 | " | 10.0 | | 85.3 | 70-130 | | | |
| Ethylbenzene | 8.58 | 0.50 | " | 10.0 | | 85.8 | 70-130 | | | |
| Xylenes (total) | 26.2 | 0.50 | " | 30.0 | | 87.3 | 70-130 | | | |
| Surrogate: a,a,a-Trifluorotoluene | 11.1 | | " | 10.0 | | 111 | 70-130 | | | |

LCS (1070135-BS2)

Prepared: 07/30/01 Analyzed: 07/31/01

| | | | | | | | | | | |
|------------------------------------|------|----|------|------|--|-----|--------|--|--|--|
| Purgeable Hydrocarbons as Gasoline | 270 | 50 | ug/l | 250 | | 108 | 70-130 | | | |
| Surrogate: a,a,a-Trifluorotoluene | 10.8 | | " | 10.0 | | 108 | 70-130 | | | |

Matrix Spike (1070135-MS1)

Source: L107145-05

Prepared: 07/30/01 Analyzed: 07/31/01

| | | | | | | | | | | |
|-----------------------------------|------|------|------|------|----|------|--------|--|--|--|
| Benzene | 8.77 | 0.50 | ug/l | 10.0 | ND | 87.7 | 60-140 | | | |
| Toluene | 8.76 | 0.50 | " | 10.0 | ND | 87.6 | 60-140 | | | |
| Ethylbenzene | 8.76 | 0.50 | " | 10.0 | ND | 87.6 | 60-140 | | | |
| Xylenes (total) | 27.1 | 0.50 | " | 30.0 | ND | 90.3 | 60-140 | | | |
| Surrogate: a,a,a-Trifluorotoluene | 9.39 | | " | 10.0 | | 93.9 | 70-130 | | | |

Matrix Spike Dup (1070135-MSD1)

Source: L107145-05

Prepared: 07/30/01 Analyzed: 07/31/01

| | | | | | | | | | | |
|-----------------------------------|------|------|------|------|----|------|--------|------|----|--|
| Benzene | 7.66 | 0.50 | ug/l | 10.0 | ND | 76.6 | 60-140 | 13.5 | 25 | |
| Toluene | 7.62 | 0.50 | " | 10.0 | ND | 76.2 | 60-140 | 13.9 | 25 | |
| Ethylbenzene | 8.27 | 0.50 | " | 10.0 | ND | 82.7 | 60-140 | 5.75 | 25 | |
| Xylenes (total) | 25.0 | 0.50 | " | 30.0 | ND | 83.3 | 60-140 | 8.06 | 25 | |
| Surrogate: a,a,a-Trifluorotoluene | 8.81 | | " | 10.0 | | 88.1 | 70-130 | | | |

Gettler-Ryan/Geostrategies(1)
 6747 Sierra Court, Suite J
 Dublin CA, 94568

Project: Tosco(1)
 Project Number: Unocal SS#5043, Oakland, CA
 Project Manager: Deanna Harding

Reported:
 08/01/01 15:12

Total Purgeable Hydrocarbon (C6-C12) by EPA 8015M and BTEX/MTBE by EPA 8021B - Quality Control
Sequoia Analytical - San Carlos

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

Batch 1070140 - EPA 5030B (P/T)

Blank (1070140-BLK1)

Prepared & Analyzed: 07/31/01

| | | | | | | | | | | |
|------------------------------------|------|------|------|------|--|------|--------|--|--|--|
| Purgeable Hydrocarbons as Gasoline | ND | 50 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | " | | | | | | | |
| Toluene | ND | 0.50 | " | | | | | | | |
| Ethylbenzene | ND | 0.50 | " | | | | | | | |
| Xylenes (total) | ND | 0.50 | " | | | | | | | |
| Methyl tert-butyl ether | ND | 5.0 | " | | | | | | | |
| Surrogate: a,a,a-Trifluorotoluene | 7.94 | | " | 10.0 | | 79.4 | 70-130 | | | |

LCS (1070140-BS1)

Prepared & Analyzed: 07/31/01

| | | | | | | | | | | |
|-----------------------------------|------|------|------|------|--|------|--------|--|--|--|
| Benzene | 7.99 | 0.50 | ug/l | 10.0 | | 79.9 | 70-130 | | | |
| Toluene | 7.73 | 0.50 | " | 10.0 | | 77.3 | 70-130 | | | |
| Ethylbenzene | 7.79 | 0.50 | " | 10.0 | | 77.9 | 70-130 | | | |
| Xylenes (total) | 23.5 | 0.50 | " | 30.0 | | 78.3 | 70-130 | | | |
| Surrogate: a,a,a-Trifluorotoluene | 8.33 | | " | 10.0 | | 83.3 | 70-130 | | | |

LCS (1070140-BS2)

Prepared & Analyzed: 07/31/01

| | | | | | | | | | | |
|------------------------------------|------|----|------|------|--|------|--------|--|--|--|
| Purgeable Hydrocarbons as Gasoline | 223 | 50 | ug/l | 250 | | 89.2 | 70-130 | | | |
| Surrogate: a,a,a-Trifluorotoluene | 8.44 | | " | 10.0 | | 84.4 | 70-130 | | | |

Matrix Spike (1070140-MS1)

Source: L107145-04

Prepared: 07/31/01 Analyzed: 08/01/01

| | | | | | | | | | | |
|------------------------------------|------|----|------|------|----|------|--------|--|--|--|
| Purgeable Hydrocarbons as Gasoline | 271 | 50 | ug/l | 250 | ND | 108 | 60-140 | | | |
| Surrogate: a,a,a-Trifluorotoluene | 8.92 | | " | 10.0 | | 89.2 | 70-130 | | | |

Matrix Spike Dup (1070140-MSD1)

Source: L107145-04

Prepared: 07/31/01 Analyzed: 08/01/01

| | | | | | | | | | | |
|------------------------------------|------|----|------|------|----|------|--------|------|----|--|
| Purgeable Hydrocarbons as Gasoline | 276 | 50 | ug/l | 250 | ND | 110 | 60-140 | 1.83 | 25 | |
| Surrogate: a,a,a-Trifluorotoluene | 9.53 | | " | 10.0 | | 95.3 | 70-130 | | | |

Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Tosco(1)
Project Number: Unocal SS#5043, Oakland, CA
Project Manager: Deanna Harding

Reported:
08/01/01 15:12

Diesel Hydrocarbons (C9-C24) by DHS LUFT - Quality Control
Sequoia Analytical - Walnut Creek

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

Batch 1G23010 - EPA 3510B

Blank (1G23010-BLK1) Prepared: 07/23/01 Analyzed: 07/24/01

| | | | | | | | | | | |
|---------------------------|------|----|------|------|--|-----|--------|--|--|--|
| Diesel Range Hydrocarbons | ND | 50 | ug/l | | | | | | | |
| Surrogate: n-Pentacosane | 34.7 | | " | 33.3 | | 104 | 50-150 | | | |

LCS (1G23010-BS1) Prepared & Analyzed: 07/23/01

| | | | | | | | | | | |
|---------------------------|------|----|------|------|--|------|--------|--|--|--|
| Diesel Range Hydrocarbons | 384 | 50 | ug/l | 500 | | 76.8 | 60-140 | | | |
| Surrogate: n-Pentacosane | 34.3 | | " | 33.3 | | 103 | 50-150 | | | |

LCS Dup (1G23010-BSD1) Prepared & Analyzed: 07/23/01

| | | | | | | | | | | |
|---------------------------|------|----|------|------|--|------|--------|------|----|--|
| Diesel Range Hydrocarbons | 411 | 50 | ug/l | 500 | | 82.2 | 60-140 | 6.79 | 50 | |
| Surrogate: n-Pentacosane | 37.7 | | " | 33.3 | | 113 | 50-150 | | | |

Batch 1G25004 - EPA 3510B

Blank (1G25004-BLK1) Prepared & Analyzed: 07/25/01

| | | | | | | | | | | |
|---------------------------|------|----|------|------|--|------|--------|--|--|--|
| Diesel Range Hydrocarbons | ND | 50 | ug/l | | | | | | | |
| Surrogate: n-Pentacosane | 27.3 | | " | 33.3 | | 82.0 | 50-150 | | | |

LCS (1G25004-BS1) Prepared & Analyzed: 07/25/01

| | | | | | | | | | | |
|---------------------------|------|----|------|------|--|------|--------|--|--|--|
| Diesel Range Hydrocarbons | 351 | 50 | ug/l | 500 | | 70.2 | 60-140 | | | |
| Surrogate: n-Pentacosane | 30.7 | | " | 33.3 | | 92.2 | 50-150 | | | |

LCS Dup (1G25004-BSD1) Prepared & Analyzed: 07/25/01

| | | | | | | | | | | |
|---------------------------|------|----|------|------|--|------|--------|------|----|--|
| Diesel Range Hydrocarbons | 332 | 50 | ug/l | 500 | | 66.4 | 60-140 | 5.56 | 50 | |
| Surrogate: n-Pentacosane | 27.3 | | " | 33.3 | | 82.0 | 50-150 | | | |

Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Tosco(1)
Project Number: Unocal SS#5043, Oakland, CA
Project Manager: Deanna Harding

Reported:
08/01/01 15:12

Notes and Definitions

D-09 Surrogate diluted out below control limits due to high concentrations of hydrocarbons.

D-11 Chromatogram Pattern: Unidentified Hydrocarbons < C16

D-13 Chromatogram Pattern: Diesel C9-C24

P-01 Chromatogram Pattern: Gasoline C6-C12

P-02 Chromatogram Pattern: Weathered Gasoline C6-C12

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference