

THRIFTY OIL CO.

July 21, 1995

Mr. Scott O. Seary
Alameda County
Department of Environmental Health
Hazardous Material Program
80 Swan Way, Room 200
Oakland, Ca 94621

RE: Thrifty Oil Co. Station #054
2504 Castro Valley Boulevard
Castro Valley, California
2nd QUARTER REPORT, 1995

Dear Mr. Seary,

Attached is the 2nd Quarter Report for Thrifty Oil Co. Station #054 which summarizes the operation of groundwater monitoring, sampling and analysis. This report also includes the treatment unit operation status.

If you have any question please call Raymond C. Friedrichsen or myself at (310) 923-9876.

Respectfully,

Peter James

PETER D'AMICO
Manager, Environmental Affairs



10,000 Lakewood Boulevard, Downey, CA 90240-4082 • (310) 923-9876

THRIFTY OIL CO.

July 14, 1995

Mr. Scott O. Seary
Alameda County
Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Room 200
Oakland, California 94621

RE: **Thrifty Oil Co. Station #054**
2504 Castro Valley Boulevard
Castro Valley, California
2nd QUARTER REPORT, 1995

Dear Mr. Seary,

This letter report presents the results of soil/groundwater treatment and site monitoring during the 2nd quarter of 1995 at the subject site. The approximate location of the on- and off-site monitoring wells are shown on **Figure 1**. The engine of the RSI unit was replaced and was operational the first week in May, 1993. All monitoring is conducted by Earth Management Co. (EMC).

Site Monitoring and Sample Collection

The site was visited on June 15, 1995, by an EMC technician in order to gauge the wells and collect groundwater samples. Water levels were measured in each well from the rim of well cover using a Marine Moisture Tape (nearest 0.01 feet) capable of also measuring the presence of free floating hydrocarbons. *Depth to water* ranged from about 4.52 to 9.12 feet below grade which is consistent with previous data collected. As of June 15, 1995, wells RE-1, RE-3, RE-4 and RE-7 exhibited free product visible as a sheen or film. The depth to water data was used in conjunction with the recent survey data to determine groundwater elevations across the site. The interpretation of groundwater flow across the site is depicted on **Figure 1**. In general, the *groundwater flow* was to the *east* at a calculated gradient of about 0.04 feet per feet.

Prior to collecting groundwater samples from the wells, about 4 well volumes of groundwater was removed using a PVC bailer. During the purging process, the pH, conductivity and temperature were checked and recorded to insure formation water was entering the well to be sampled. About 6 to 35 gallons of water were removed from each well and stored in 55 gallon D.O.T. approved drums pending disposal or discharge through the treatment unit. Groundwater samples were collected with a Teflon bailer. Samples were maintained and transported in 40 milliliter vials placed on ice pending delivery to American Analytics, a state certified analytical



laboratory headquartered in Chatsworth, California. Field monitoring sheets prepared by EMC personnel are included in **Appendix A**.

Analytical Results

Groundwater Monitoring Wells. Groundwater samples were analyzed for total hydrocarbons (TPH) and volatile aromatic compounds (BTEX) using EPA methods 8015 and 602, respectively. Copies of the laboratory analysis reports are attached in **Appendix B**. A summary of the results are presented in **Table 1**. Isoconcentration maps of TPH and benzene based on the June sampling event are presented as **Figures 2 and 3**, respectively.

Treatment Unit Operation Status

Based on the data obtained by EMC, the RSI-SAVE unit operated 672 hours during the reporting period and 11,742 hours total (current meter reading 8658). As of June 15, 1995, a total of about 15,642.6 gallons of water had been processed by the unit and discharged to the local sanitary sewer. During the 2nd quarter reporting period, 437.1 gallons of water had been processed by the treatment unit and were discharged to the sanitary sewer.

In order to monitor the effects of soil and air removal, field vapor measurements are collected and recorded from each recovery well on a monthly basis. The data is included in **Table 2** attached.

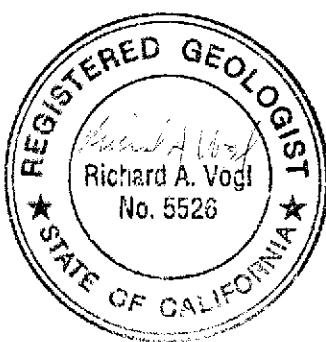
Closing

Thrifty will continue to conduct quarterly groundwater monitoring at the site. In addition, the work plan for installation of one off-site well near the southeast corner of the site has been approved as submitted. A purchase order has been issued and this work is anticipated to be completed during the 3rd quarter of 1995 if encroachment permits can be obtained within the next month. If you have any questions, please contact Peter D'Amico at (310) 923-9876.

Very truly yours,



Richard Vogl, R.G.
Geologist

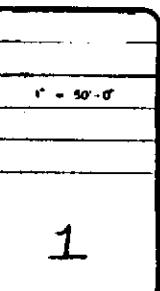


FIGURES

LEGEND

- ◆ RE-1 / MONITORING WELL
- A.D. AREA DRAIN
- ~ GROUNDWATER CONTOUR (06/15/95)

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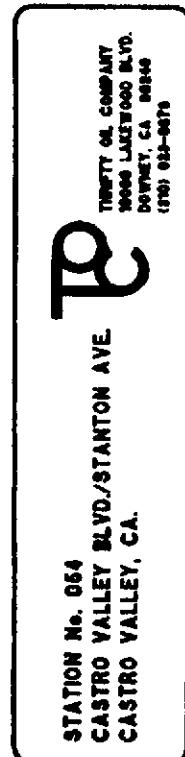
0 25 50
SCALE: 1" = 50'

GROUNDWATER CONTOUR MAP

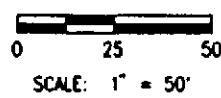
LEGEND

- ◆ RE-1 / MONITORING WELL
- A.D. AREA DRAIN
- ~ TPH CONTOUR (06/15/95, $\mu\text{g}/\text{l}$)

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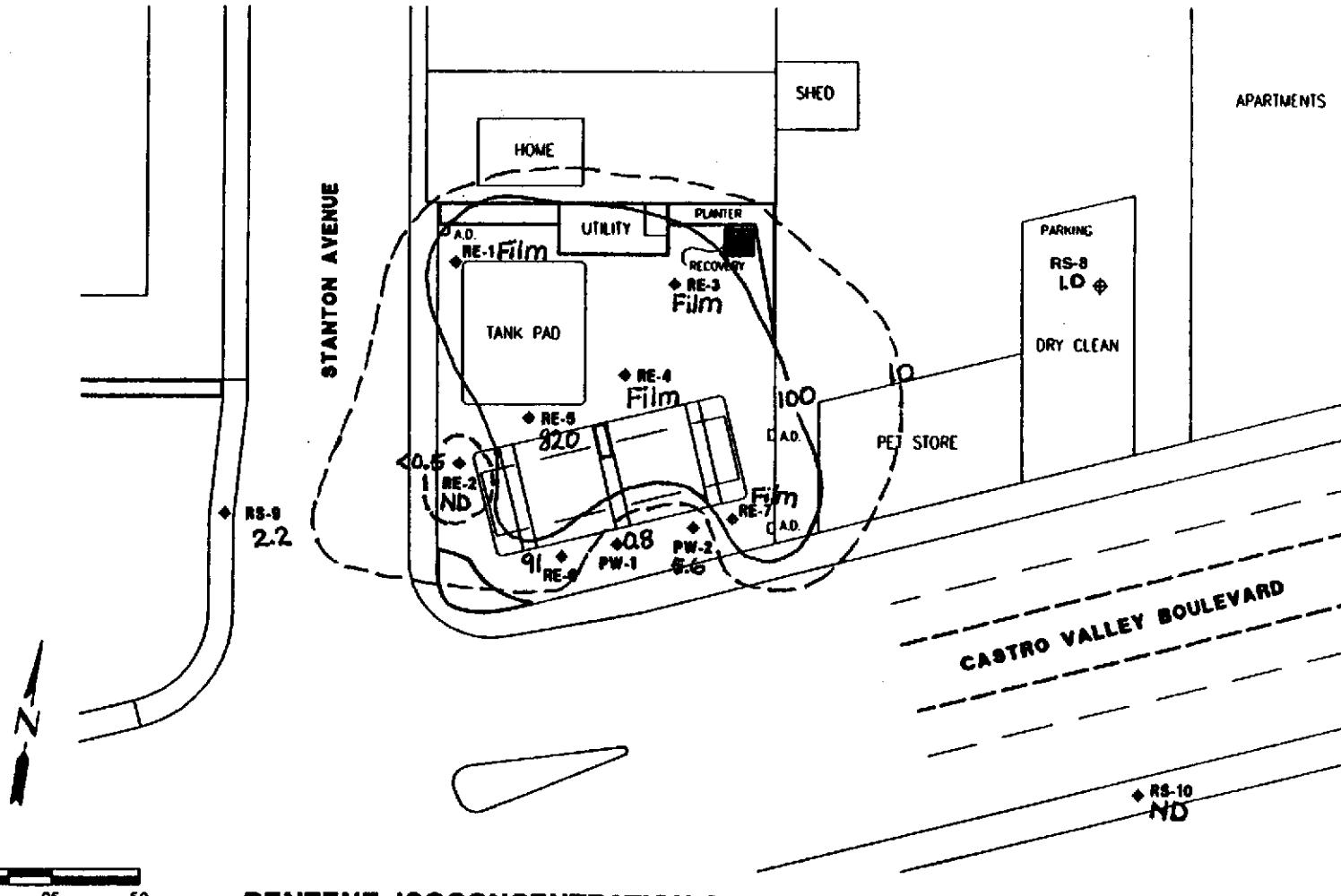
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**TPH ISOCONCENTRATION MAP**

| |
|------------|
| R = 50'-0" |
| |
| |
| |

LEGEND

- ◆ RE-1 / MONITORING WELL
A.D. AREA DRAIN
~ BENZENE CONTOUR (06/15/95, mg/l)



TRINITY oil COMPANY
1900 LAKEWOOD BLVD.
DETROIT, MI 48226
(313) 833-0875

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BENZENE ISOCONCENTRATION MAP

SCALE: 1" = 50'

TABLES

TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #54

| SAMPLED | DATE | TPH | BENZENE | TOLUENE | ETHYL BENZENE | XYLENE | TOP OF CASING | DEPTH TO GROUNDWTR |
|-----------------------------|------|--------|---------|---------|---------------|--------|---------------|--------------------|
| Monitoring Well PW-1 | | | | | | | | |
| Apr 11, 1988 | | NSC | | | | | 166.46 | |
| Apr 9, 1990 | | 230000 | 600 | 2700 | 1000 | 16000 | | 5.10 |
| Oct 30, 1990 | | 35000 | 240 | 970 | 240 | 3580 | | 6.17 |
| Jan 18, 1991 | | 37000 | 43 | 140 | 42 | 1600 | | 6.28 |
| Feb 12, 1991 | | 45000 | 99 | 130 | 25 | 700 | | 5.88 |
| Mar 20, 1991 | | 1900 | 0.43 | ND | ND | 2.8 | | 4.75 |
| May 22, 1991 | | 41000 | 600 | 730 | 250 | 3800 | | 5.10 |
| Jun 19, 1991 | | NSC | | | | | | 5.61 |
| Jul 17, 1991 | | NSC | | | | | | 5.53 (Film) |
| Aug 7, 1991 | | NSC | | | | | | 5.67 (Film) |
| Sep 24, 1991 | | NSC | | | | | | 5.57 (Film) |
| Oct 23, 1991 | | NSC | | | | | | 6.53 (Film) |
| Nov 6, 1991 | | NSC | | | | | | 5.85 (Film) |
| Dec 4, 1991 | | NSC | | | | | | 5.91 (Film) |
| Jan 29, 1992 | | NSC | | | | | | 5.43 (Film) |
| Feb 26, 1992 | | NSC | | | | | | 5.54 (Film) |
| Mar 19, 1992 | | ND | ND | ND | ND | ND | | 5.47 |
| Apr 22, 1992 | | NSC | | | | | | 5.62 (Film) |
| May 21, 1992 | | 1300 | 19 | 2.9 | 0.7 | 58 | | 6.21 |
| Jun 25, 1992 | | NSC | | | | | | 6.94 |
| Jul 30, 1992 | | NSC | | | | | | 5.90 (Film) |
| Aug 20, 1992 | | NSC | | | | | | 7.12 (Film) |
| Sep 30, 1992 | | 3400 | 57 | ND | 26 | 240 | | 6.42 |
| Dec 23, 1992 | | NSC | | | | | | 5.56 (Film) |
| Mar 10, 1993 | | NSC | | | | | | 5.65 (Film) |
| Jun 9, 1993 | | 400 | <0.5 | 1.1 | <1.0 | <1.0 | | 5.30 |
| Sep 14, 1993 | | 180 | 3.7 | 3.2 | 1.5 | 14.0 | | 5.43 |
| Dec 14, 1993 | | <50 | <0.3 | <0.3 | <0.3 | <0.5 | | 4.65 |
| Mar 2, 1994 | | <50 | <0.3 | <0.3 | <0.3 | <0.5 | | 5.43 |
| Jun 6, 1994 | | 330 | 1.3 | <0.3 | 0.88 | 9.8 | | 4.70 |
| Sep 6, 1994 | | 1100 | 67 | <0.3 | <0.3 | 24 | | 6.48 |
| Dec 7, 1994 | | <50 | <0.3 | <0.3 | <0.5 | <0.5 | | 5.22 |
| Mar 8, 1995 | | <100 | <0.5 | <0.5 | <0.5 | <1 | | 3.94 |
| Jun 15, 1995 | | 260 | 0.8 | 0.6 | <0.5 | 3.2 | | 5.72 |

TABLE 1 (Continued)

| Monitoring Well PW-2 | | | | | | | |
|----------------------|--------|---------|---------|-----------|---------|-----------|-------------|
| Date | TPH | Benzene | Toluene | E-Benzene | Xylenes | Elevation | Depth to GW |
| Apr 11, 1988 | NSC | | | | | 166.18 | |
| Apr 9, 1990 | 600000 | 1300 | 11000 | 4600 | 43000 | | 5.81 |
| Oct 30, 1990 | 48000 | 310 | 51 | 10 | 480 | | 6.95 |
| Jan 18, 1991 | 86000 | 230 | 1400 | 350 | 8300 | | 6.92 |
| Feb 12, 1991 | 160000 | 680 | 1300 | 250 | 7000 | | 6.78 |
| Mar 20, 1991 | 17000 | 34 | 50 | ND | 1100 | | 5.54 |
| May 22, 1991 | 14000 | 57 | 2100 | 500 | 8200 | | 6.07 |
| Jun 19, 1991 | NSC | | | | | | 6.37 (Film) |
| Jul 17, 1991 | NSC | | | | | | 6.38 (Film) |
| Aug 7, 1991 | NSC | | | | | | 6.63 (Film) |
| Sep 24, 1991 | NSC | | | | | | 6.42 (Film) |
| Oct 23, 1991 | NSC | | | | | | 7.25 (Film) |
| Nov 6, 1991 | NSC | | | | | | 6.44 (Film) |
| Dec 4, 1991 | NSC | | | | | | 6.65 (Film) |
| Jan 29, 1992 | NSC | | | | | | 6.17 (Film) |
| Feb 26, 1992 | NSC | | | | | | 5.90 (Film) |
| Mar 19, 1992 | NSC | | | | | | 5.80 (Film) |
| Apr 22, 1992 | NSC | | | | | | 5.88 (Film) |
| May 21, 1992 | NSC | | | | | | 6.03 (Film) |
| Jun 25, 1992 | NSC | | | | | | 6.57 (Film) |
| Jul 30, 1992 | NSC | | | | | | 6.20 (Film) |
| Aug 20, 1992 | NSC | | | | | | 6.64 (Film) |
| Sep 30, 1992 | NSC | | | | | | 6.88 (Film) |
| Dec 23, 1992 | NSC | | | | | | 6.08 (Film) |
| Mar 10, 1993 | NSC | | | | | | 5.95 (Film) |
| Jun 9, 1993 | 3400 | 24 | 2.2 | <0.5 | 240 | | 5.38 |
| Sep 14, 1993 | 4900 | 190 | 15.0 | 6.8 | 480 | | 6.26 |
| Dec 14, 1993 | 1700 | 4.2 | <0.3 | <0.3 | <0.5 | | 5.22 |
| Mar 2, 1994 | NSC | | | | | | 5.75 (Film) |
| Jun 6, 1994 | 980 | 25 | 1.2 | <0.3 | 42 | | 5.25 |
| Sep 6, 1994 | 3200 | 95 | 3.0 | <1.7 | 76 | | 6.80 |
| Dec 7, 1994 | 510 | 1.8 | <0.3 | <0.5 | 1.7 | | 5.57 |
| Mar 8, 1995 | 1900 | <0.5 | <0.5 | 1.4 | 35 | | 4.10 |
| Jun 15, 1995 | 1700 | 5.6 | <0.5 | <0.5 | 1.6 | | 5.44 |

TABLE I (Continued)

| Monitoring Well RE-1 | | | | | | | |
|----------------------|--------|---------|---------|-----------|---------|-----------|-------------|
| Date | TPH | Benzene | Toluene | E-Benzene | Xylenes | Elevation | Depth to GW |
| Apr 11, 1988 | 37000 | 1900 | 8400 | 1200 | 15000 | 166.82 | |
| Apr 9, 1990 | 45000 | 6100 | 7000 | 2000 | 8800 | | 4.99 |
| Oct 30, 1990 | 72000 | 7700 | 5300 | 1800 | 8900 | | 5.95 |
| Jan 18, 1991 | 150000 | 11000 | 14000 | 1800 | 4300 | | 5.17 |
| Feb 12, 1991 | 140000 | 11000 | 12000 | 1600 | 13000 | | 4.16 |
| Mar 20, 1991 | 53000 | 3100 | 4200 | 400 | 5500 | | 4.75 |
| May 22, 1991 | 85000 | 8700 | 10000 | 1800 | 12000 | | 4.42 |
| Jun 19, 1991 | 110000 | 8500 | 9600 | 2600 | 16000 | | 4.93 |
| Jul 17, 1991 | 5500 | 950 | ND | 26 | ND | | 5.19 |
| Aug 7, 1991 | NA | 6700 | 5000 | ND | 7100 | | 5.12 |
| Sep 24, 1991 | 60000 | 6800 | 4300 | 640 | 6900 | | 5.87 |
| Oct 23, 1991 | 79000 | 7900 | 8300 | 450 | 7100 | | 5.81 |
| Nov 6, 1991 | 130000 | 14000 | 15000 | 1100 | 8800 | | 5.56 |
| Dec 4, 1991 | 50000 | 8000 | 4700 | 520 | 4100 | | 5.35 |
| Jan 29, 1992 | 21000 | 10300 | 11000 | 780 | 6000 | | 4.50 |
| Feb 26, 1992 | 38000 | 8400 | 10500 | 720 | 7100 | | 5.27 |
| Mar 19, 1992 | 48000 | 6200 | 9700 | 780 | 7200 | | 4.47 |
| Apr 22, 1992 | NSC | | | | | | 4.62 |
| May 21, 1992 | 20000 | 7600 | 10100 | 830 | 6900 | | 4.98 |
| Jun 25, 1992 | NSC | | | | | | 5.14 (Film) |
| Jul 30, 1992 | NSC | | | | | | 5.30 (Film) |
| Aug 20, 1992 | NSC | | | | | | 5.28 (Film) |
| Sep 30, 1992 | NSC | | | | | | 5.66 (Film) |
| Dec 23, 1992 | NSC | | | | | | 4.81 (Film) |
| Mar 10, 1993 | NSC | | | | | | 4.13 (Film) |
| Jun 9, 1993 | NSC | | | | | | 4.48 (Film) |
| Sep 14, 1993 | 19000 | 3600 | 1100 | 740 | 4300 | | 5.35 |
| Dec 14, 1993 | 38000 | 4300 | 1300 | <6.6 | 11.0 | | 4.38 |
| Mar 2, 1994 | NSC | | | | | | 4.22 (Film) |
| Jun 6, 1994 | NSC | | | | | | 2.16 (Film) |
| Sep 6, 1994 | 74000 | 3300 | 3900 | 1200 | 6100 | | 5.00 |
| Dec 7, 1994 | 30,000 | 3200 | 2900 | 1200 | 4600 | | 4.10 |
| Mar 8, 1995 | 28,000 | 4200 | 2300 | 810 | 7800 | | 3.92 |
| Jun 15, 1995 | NSC | | | | | | -- (Film) |

TABLE 1 (Continued)

| Monitoring Well RE-2 | | | | | | | |
|----------------------|------|---------|---------|-----------|---------|-----------|-------------|
| Date | TPH | Benzene | Toluene | E-Benzene | Xylenes | Elevation | Depth to GW |
| Apr 11, 1988 | NSC | | | | | 167.19 | |
| Apr 9, 1990 | 850 | 5.8 | 0.5 | 4.8 | 1.1 | | 4.90 |
| Oct 30, 1990 | 440 | 2.8 | 0.91 | 13 | 3.14 | | 5.34 |
| Jan 18, 1991 | 1100 | 8.4 | 3.1 | ND | 10 | | 4.90 |
| Feb 12, 1991 | 1100 | 5.9 | ND | 01.77 | ND | | 4.94 |
| Mar 20, 1991 | 550 | 4.3 | ND | ND | ND | | 4.32 |
| May 22, 1991 | 1000 | 5.3 | 3.6 | 4.4 | 8.9 | | 4.43 |
| Jun 19, 1991 | 700 | 2.1 | 1.4 | 3.8 | 3.5 | | 6.43 |
| Jul 17, 1991 | 880 | 12.0 | 8.0 | 4.3 | 28.0 | | 4.75 |
| Aug 7, 1991 | NA | 3.8 | 1.6 | ND | ND | | 4.87 |
| Sep 24, 1991 | 670 | 7.2 | 7.1 | ND | 23 | | 5.50 |
| Oct 23, 1991 | 2700 | 52 | 60 | 22 | 130 | | 5.63 |
| Nov 6, 1991 | 1900 | 18 | 61 | 9.1 | 83 | | 5.14 |
| Dec 4, 1991 | 1100 | 26 | 47 | 4.3 | 42 | | 5.26 |
| Jan 29, 1992 | 900 | 14 | 24 | 5.3 | 19 | | 5.11 |
| Feb 26, 1992 | 500 | 3.4 | 3.5 | 2.7 | 2.7 | | 4.31 |
| Mar 19, 1992 | 1200 | 14 | 20 | 15 | 18 | | 4.45 |
| Apr 22, 1992 | 200 | ND | ND | ND | ND | | 4.78 |
| May 21, 1992 | 500 | 7.5 | 6.8 | 3.9 | 7.4 | | 5.02 |
| Jun 25, 1992 | ND | ND | 0.9 | 0.7 | ND | | 5.13 |
| Jul 30, 1992 | 500 | 7.7 | 8.6 | 3.2 | 1.7 | | 5.19 |
| Aug 20, 1992 | 1100 | 6.6 | 4.5 | 2.7 | 2.0 | | 5.27 |
| Sep 30, 1992 | 500 | 5.4 | 2.4 | 1.8 | 4.5 | | 5.45 |
| Dec 23, 1992 | 800 | 1.9 | ND | ND | 2.3 | | 4.60 |
| Mar 10, 1993 | 1200 | ND | 1.4 | ND | 2.1 | | 4.18 |
| Jun 9, 1993 | 200 | ND | ND | ND | ND | | 4.53 |
| Sep 14, 1993 | 360 | 1.6 | 1.1 | 3.2 | 8.9 | | 5.26 |
| Dec 14, 1993 | 260 | 5.6 | 3.9 | <0.3 | 21.0 | | 2.75 |
| Mar 2, 1994 | 410 | <0.3 | <0.3 | <0.3 | <0.5 | | 4.27 |
| Jun 6, 1994 | 760 | 4.6 | <0.3 | 0.32 | 1.3 | | 4.88 |
| Sep 6, 1994 | 1300 | 43 | 45 | 8.9 | 69 | | 5.16 |
| Dec 7, 1994 | NA | NA | NA | NA | NA | | 4.16 |
| Mar 8, 1995 | <100 | <0.5 | <0.5 | <0.5 | <1 | | 3.96 |
| Jun 15, 1995 | 130 | <0.5 | <0.5 | <0.5 | <1 | | 4.52 |

TABLE 1 (Continued)

| Monitoring Well RE-3 | | | | | | | |
|----------------------|--------|---------|---------|-----------|---------|-----------|-------------|
| Date | TPH | Benzene | Toluene | E-Benzene | Xylenes | Elevation | Depth to GW |
| Apr 11, 1988 | 70000 | 6600 | 5300 | 800 | 13000 | 167.39 | |
| Apr 9, 1990 | 370000 | 2300 | 4900 | 3200 | 31000 | | 7.15 |
| Oct 30, 1990 | 13000 | 860 | 660 | 220 | 2210 | | 7.84 |
| Jan 18, 1991 | 42000 | 4700 | 4500 | 21 | 7700 | | 6.90 |
| Feb 12, 1991 | 72000 | 3600 | 4500 | ND | 7600 | | 6.62 |
| Mar 20, 1991 | 65000 | 2400 | 9400 | 50 | 9800 | | 5.87 |
| May 22, 1991 | NSC | | | | | | 5.98 (Film) |
| Jun 19, 1991 | NSC | | | | | | 6.84 (Film) |
| Jul 17, 1991 | NSC | | | | | | 7.10 (Film) |
| Aug 7, 1991 | NSC | | | | | | 7.30 (Film) |
| Sep 24, 1991 | NSC | | | | | | 7.84 (Film) |
| Oct 23, 1991 | NSC | | | | | | 8.07 (Film) |
| Nov 6, 1991 | NSC | | | | | | 7.63 (Film) |
| Dec 4, 1991 | NSC | | | | | | 7.83 (Film) |
| Jan 29, 1992 | NSC | | | | | | 7.17 (Film) |
| Feb 26, 1992 | NSC | | | | | | 5.56 (Film) |
| Mar 19, 1992 | NSC | | | | | | 5.44 (Film) |
| Apr 22, 1992 | NSC | | | | | | 6.56 (Film) |
| May 21, 1992 | NSC | | | | | | 6.90 (Film) |
| Jun 25, 1992 | NSC | | | | | | 7.18 (Film) |
| Jul 30, 1992 | NSC | | | | | | 6.80 (Film) |
| Aug 20, 1992 | NSC | | | | | | 7.25 (Film) |
| Sep 30, 1992 | NSC | | | | | | 7.68 (Film) |
| Dec 23, 1992 | NSC | | | | | | 6.07 (Film) |
| Mar 10, 1993 | NSC | | | | | | 5.66 (Film) |
| Jun 9, 1993 | NSC | | | | | | 6.66 (Film) |
| Sep 14, 1993 | 40000 | 2900 | 1500 | 180 | 6900 | | 7.30 |
| Dec 14, 1993 | NSC | | | | | | 5.95 |
| Mar 2, 1994 | NSC | | | | | | 5.08 |
| Jun 6, 1994 | NSC | | | | | | 6.35 (Film) |
| Sep 6, 1994 | 11000 | 260 | 26 | <6.6 | 1000 | | 7.50 |
| Dec 7, 1994 | NSC | | | | | | 5.48 (Film) |
| Mar 8, 1995 | NSC | | | | | | 5.18 (Film) |
| Jun 15, 1995 | NSC | | | | | | -- (Film) |

TABLE 1 (Continued)

| Monitoring Well RE-4 | | | | | | | |
|----------------------|--------|---------|---------|-----------|---------|-----------|-------------|
| Date | TPH | Benzene | Toluene | E-Benzene | Xylenes | Elevation | Depth to GW |
| Apr 11, 1988 | 150000 | 12000 | 8000 | 1000 | 27000 | 166.94 | |
| Apr 9, 1990 | NSC | | | | | | |
| Oct 30, 1990 | 87000 | 7200 | 10000 | 1600 | 12900 | | 7.04 |
| Jan 18, 1991 | 70000 | 5000 | 5400 | 790 | 9900 | | 11.62 |
| Feb 12, 1991 | 87000 | 5200 | 2800 | 240 | 11000 | | 11.63 |
| Mar 20, 1991 | 6500 | 370 | 230 | 17 | 670 | | 11.61 |
| May 22, 1991 | NSC | | | | | | 10.3 (Film) |
| Jun 19, 1991 | NSC | | | | | | 11.1 (Film) |
| Jul 17, 1991 | NSC | | | | | | 6.20 (Film) |
| Aug 7, 1991 | NSC | | | | | | 8.15 (Film) |
| Sep 24, 1991 | NSC | | | | | | 10.4 (Film) |
| Oct 23, 1991 | NSC | | | | | | 11.2 (Film) |
| Nov 6, 1991 | NSC | | | | | | 6.62 (Film) |
| Dec 4, 1991 | NSC | | | | | | 11.2 (Film) |
| Jan 29, 1992 | NSC | | | | | | 7.72 (Film) |
| Feb 26, 1992 | NSC | | | | | | 5.13 (Film) |
| Mar 19, 1992 | NSC | | | | | | 5.00 (Film) |
| Apr 22, 1992 | NSC | | | | | | 5.94 (Film) |
| May 21, 1992 | NSC | | | | | | 5.40 (Film) |
| Jun 25, 1992 | NSC | | | | | | 5.71 (Film) |
| Jul 30, 1992 | NSC | | | | | | 6.33 (Film) |
| Aug 20, 1992 | NSC | | | | | | 5.80 (Film) |
| Sep 30, 1992 | NSC | | | | | | 6.34 (Film) |
| Dec 23, 1992 | NSC | | | | | | 5.50 (Film) |
| Mar 10, 1993 | NSC | | | | | | 4.67 (Film) |
| Jun 9, 1993 | NSC | | | | | | 5.12 (Film) |
| Sep 14, 1993 | NSC | | | | | | 10.44 |
| Dec 14, 1993 | NSC | | | | | | 7.52 |
| Mar 2, 1994 | NSC | | | | | | 4.85 |
| Jun 6, 1994 | NSC | | | | | | 5.20 (Film) |
| Sep 6, 1994 | NSC | | | | | | 9.85 (Film) |
| Dec 7, 1994 | NSC | | | | | | 5.20 (Film) |
| Mar 8, 1995 | NSC | | | | | | 4.98 (Film) |
| Jun 15, 1995 | NSC | | | | | | ** (Film) |

TABLE 1 (Continued)

| Monitoring Well RE-5 | | | | | | | |
|----------------------|-------|---------|---------|-----------|---------|-----------|-------------|
| Date | TPH | Benzene | Toluene | E-Benzene | Xylenes | Elevation | Depth to GW |
| Apr 11, 1988 | 14000 | 1300 | 1100 | 100 | 2600 | 166.51 | |
| Apr 9, 1990 | 3000 | 690 | 190 | 40 | 270 | | 4.79 |
| Oct 30, 1990 | 3400 | 910 | 48 | 87 | 249 | | 5.86 |
| Jan 18, 1991 | 1400 | 180 | 8.6 | 0.52 | 48 | | 4.40 |
| Feb 12, 1991 | 1000 | ND | ND | 0.65 | ND | | 4.76 |
| Mar 20, 1991 | 3000 | 250 | 53 | ND | 110 | | 5.08 |
| May 22, 1991 | 2500 | 330 | 7.8 | 5.6 | 200 | | 4.52 |
| Jun 19, 1991 | 2000 | 59 | 1.6 | 5.1 | 110 | | 4.39 |
| Jul 17, 1991 | NSC | | | | | | 5.05 (Film) |
| Aug 7, 1991 | NSC | | | | | | 5.02 (Film) |
| Sep 24, 1991 | NSC | | | | | | 5.86 (Film) |
| Oct 23, 1991 | NSC | | | | | | 5.84 (Film) |
| Nov 6, 1991 | 9900 | 2300 | 37 | 260 | 160 | | 5.48 |
| Dec 4, 1991 | 4500 | 1000 | 27 | ND | 180 | | 5.43 |
| Jan 29, 1992 | 600 | 6.1 | 2.3 | ND | 47 | | 5.12 |
| Feb 26, 1992 | 500 | 5.4 | 2.7 | 1.2 | 14 | | 4.93 |
| Mar 19, 1992 | ND | 1.7 | 1.1 | ND | 5.5 | | 4.45 |
| Apr 22, 1992 | 1600 | 240 | 2.2 | ND | 160 | | 4.63 |
| May 21, 1992 | 1200 | 410 | 37 | ND | 118 | | 4.90 |
| Jun 25, 1992 | ND | 1.0 | 0.8 | 0.8 | 0.4 | | 5.15 |
| Jul 30, 1992 | ND | 2.0 | 1.8 | 1.9 | 6.4 | | 5.30 |
| Aug 20, 1992 | 300 | 1.7 | 3.3 | 0.7 | 12 | | 5.44 |
| Sep 30, 1992 | 1900 | 140 | ND | 19 | 35 | | 5.73 |
| Dec 23, 1992 | 400 | 8.0 | ND | ND | ND | | 4.75 |
| Mar 10, 1993 | 1100 | 290 | 9.7 | ND | 75 | | 4.14 |
| Jun 9, 1993 | 400 | 1.5 | 0.5 | ND | 12 | | 5.42 |
| Sep 14, 1993 | 240 | 6.9 | 8.8 | 1.4 | 67 | | 5.53 |
| Dec 14, 1993 | 3300 | 510 | 5.4 | 4.1 | 55 | | 4.78 |
| Mar 2, 1994 | 2400 | 270 | 4.5 | <0.3 | 13 | | 4.20 |
| Jun 6, 1994 | 730 | <0.3 | <0.3 | 0.70 | 22 | | 5.13 |
| Sep 6, 1994 | 2400 | 180 | 28 | 2.3 | 76 | | 5.45 |
| Dec 7, 1994 | 540 | 5.6 | <0.3 | <0.5 | 6.9 | | 4.13 |
| Mar 8, 1995 | 1500 | 220 | 5.5 | <0.5 | 83 | | 5.2 |
| Jun 15, 1995 | 3200 | 820 | 53 | 6.2 | 74 | | 4.93 |

TABLE 1 (Continued)

| Monitoring Well RE-6 | | | | | | | |
|----------------------|--------|---------|---------|-----------|---------|-----------|-------------|
| Date | TPH | Benzene | Toluene | E-Benzene | Xylenes | Elevation | Depth to GW |
| Apr 11, 1988 | 6000 | 3000 | 40 | 80 | 140 | 166.51 | |
| Apr 9, 1990 | 3000 | 990 | ND | 70 | ND | | 5.64 |
| Oct 30, 1990 | 3400 | 1000 | 28 | ND | ND | | 6.68 |
| Jan 18, 1991 | 6300 | 1200 | ND | 3 | 15 | | 6.61 |
| Feb 12, 1991 | 5200 | 850 | 8.4 | 4.9 | 41 | | 6.20 |
| Mar 20, 1991 | 5800 | 680 | 12 | 8 | 16 | | 5.62 |
| May 22, 1991 | 8500 | 1700 | 14 | 24 | 6.7 | | 6.05 |
| Jun 19, 1991 | NSC | | | | | | 6.12 (Film) |
| Jul 17, 1991 | 120000 | 9300 | 13000 | 2400 | 16000 | | 6.20 |
| Aug 7, 1991 | NA | 590 | 5.3 | ND | 14 | | 6.27 |
| Sep 24, 1991 | 7000 | 310 | 11 | 5.3 | 35 | | 6.63 |
| Oct 23, 1991 | NSC | | | | | | 6.36 (Film) |
| Nov 6, 1991 | 4000 | 710 | 18 | 29 | 49 | | 6.15 |
| Dec 4, 1991 | 4100 | 1100 | 14 | 33 | 39 | | 6.19 |
| Jan 29, 1992 | 2600 | 790 | 14 | ND | 49 | | 6.70 |
| Feb 26, 1992 | 3100 | 950 | 21 | 30 | 33 | | 5.44 |
| Mar 19, 1992 | 2200 | 630 | 14 | 12 | 40 | | 5.30 |
| Apr 22, 1992 | NA | 730 | 2.2 | ND | 40 | | 6.00 |
| May 21, 1992 | 1500 | 840 | 7.8 | 7.1 | 34 | | 6.25 |
| Jun 25, 1992 | <2000 | 740 | 8 | 27 | 28 | | 6.38 |
| Jul 30, 1992 | NSC | | | | | | 6.42 (Film) |
| Aug 20, 1992 | 2800 | 630 | 17 | 23 | 22 | | 6.50 |
| Sep 30, 1992 | 7800 | 540 | ND | 12 | 29 | | 6.66 |
| Dec 23, 1992 | 1800 | 350 | ND | 7.7 | 11 | | 5.83 |
| Mar 10, 1993 | 3000 | 830 | 5.6 | 19 | 16 | | 5.63 |
| Jun 9, 1993 | 4800 | 920 | 6.2 | 3.2 | 12 | | 6.01 |
| Sep 14, 1993 | 3600 | 660 | 7.5 | 11 | 27 | | 6.53 |
| Dec 14, 1993 | 1500 | 200 | <0.3 | <0.3 | 8.8 | | 3.58 |
| Mar 2, 1994 | NSC | | | | | | 5.12 |
| Jun 6, 1994 | 2400 | 290 | 4.6 | 1.3 | 24 | | 1.85 |
| Sep 6, 1994 | 4300 | 230 | 21 | <6.6 | 130 | | 6.40 |
| Dec 7, 1994 | 1500 | 17 | 2.5 | 3.2 | 22 | | 5.68 |
| Mar 8, 1995 | 2500 | 460 | 5.5 | 2.1 | 51 | | 5.12 |
| Jun 15, 1995 | 2300 | 91 | 1.1 | 0.7 | 97 | | 5.72 |

TABLE 1 (Continued)

| Monitoring Well RE-7 | | | | | | | |
|----------------------|--------|---------|---------|-----------|---------|-----------|--------------|
| Date | TPH | Benzene | Toluene | E-Benzene | Xylenes | Elevation | Depth to GW |
| Apr 11, 1988 | <50000 | 17000 | 4400 | 600 | 8400 | 166.04 | |
| Apr 9, 1990 | 16000 | 7000 | 1200 | 640 | 1600 | | 5.93 |
| Oct 30, 1990 | 31000 | 14000 | ND | ND | ND | | 8.21 |
| Jan 18, 1991 | NSC | | | | | | 11.8 (Film) |
| Feb 12, 1991 | NSC | | | | | | 10.8 (Film) |
| Mar 20, 1991 | 120000 | 12000 | 2800 | 490 | 6600 | | 9.96 |
| May 22, 1991 | NSC | | | | | | 11.7 (Film) |
| Jun 19, 1991 | NSC | | | | | | 11.5 (Film) |
| Jul 17, 1991 | NSC | | | | | | 7.80 (Film) |
| Aug 7, 1991 | NSC | | | | | | 9.88 (0.03) |
| Sep 24, 1991 | NSC | | | | | | 9.85 (0.03) |
| Oct 23, 1991 | NSC | | | | | | 9.96 (Film) |
| Nov 6, 1991 | NSC | | | | | | 6.77 (Film) |
| Dec 4, 1991 | NSC | | | | | | 10.8 (Film) |
| Jan 29, 1992 | NSC | | | | | | 8.64 (Film) |
| Feb 26, 1992 | NSC | | | | | | 6.00 (Film) |
| Mar 19, 1992 | NSC | | | | | | 5.55 (Film) |
| Apr 22, 1992 | NSC | | | | | | 6.12 (Film) |
| May 21, 1992 | NSC | | | | | | 6.40 (Film) |
| Jun 25, 1992 | NSC | | | | | | 6.73 (0.02) |
| Jul 30, 1992 | NSC | | | | | | 6.73 (Film) |
| Aug 20, 1992 | NSC | | | | | | 6.82 (Film) |
| Sep 30, 1992 | NSC | | | | | | 7.26 (Film) |
| Dec 23, 1992 | NSC | | | | | | 6.22 (Film) |
| Mar 10, 1993 | NSC | | | | | | 5.82 (Film) |
| Jun 9, 1993 | NSC | | | | | | 6.17 (Film) |
| Sep 14, 1993 | NSC | | | | | | 11.33 |
| Dec 14, 1993 | NSC | | | | | | 8.40 |
| Mar 2, 1994 | NSC | | | | | | 6.82 |
| Jun 6, 1994 | NSC | | | | | | 10.95 (Film) |
| Sep 6, 1994 | NSC | | | | | | 11.30 (Film) |
| Dec 7, 1994 | NSC | | | | | | 5.63 (Film) |
| Mar 8, 1995 | NSC | | | | | | 5.06 (Film) |
| Jun 15, 1995 | NSC | | | | | | ... (Film) |

TABLE 1 (Continued)

| Monitoring Well RS-8 | | | | | | | |
|----------------------|------|---------|---------|-----------|---------|-----------|-------------|
| Date | TPH | Benzene | Toluene | E-Benzene | Xylenes | Elevation | Depth to GW |
| Aug 7, 1991 | ND | ND | ND | ND | ND | 164.32 | 9.68 |
| Sep 27, 1991 | ND | ND | ND | ND | ND | | 9.89 |
| Oct 23, 1991 | ND | ND | ND | ND | ND | | 10.05 |
| Nov 6, 1991 | ND | ND | ND | ND | ND | | 9.71 |
| Dec 4, 1991 | ND | ND | ND | ND | ND | | 10.00 |
| Jan 29, 1992 | ND | 2.1 | 1.0 | 2.5 | 3.6 | | 9.28 |
| Feb 26, 1992 | ND | ND | 0.7 | ND | 0.7 | | 7.05 |
| Mar 19, 1992 | ND | 0.5 | 1.0 | 1.5 | 2.7 | | 7.30 |
| Apr 22, 1992 | ND | ND | ND | ND | ND | | 8.60 |
| May 21, 1992 | ND | ND | ND | ND | ND | | 9.22 |
| Jun 25, 1992 | ND | ND | ND | ND | ND | | 9.49 |
| Jul 30, 1992 | ND | 1.1 | 4.2 | ND | 3.0 | | 9.55 |
| Aug 20, 1992 | ND | 2.0 | 4.7 | ND | 5.7 | | 9.63 |
| Sep 30, 1992 | ND | ND | ND | ND | ND | | 9.90 |
| Dec 23, 1992 | ND | ND | ND | ND | ND | | 9.96 |
| Mar 10, 1993 | ND | ND | ND | ND | ND | | 8.95 |
| Jun 9, 1993 | ND | ND | ND | ND | ND | | 9.00 |
| Sep 14, 1993 | 200 | 0.3 | ND | ND | ND | | 9.50 |
| Dec 14, 1993 | ND | ND | ND | ND | ND | | 8.75 |
| Mar 2, 1994 | <50 | <0.3 | <0.3 | <0.3 | <0.5 | | 7.52 |
| Jun 6, 1994 | 54 | <0.3 | <0.3 | <0.3 | 2.4 | | 9.00 |
| Sep 6, 1994 | <50 | <0.3 | <0.3 | <0.3 | <0.5 | | 9.26 |
| Dec 7, 1994 | 130 | 2.5 | 1.9 | 1.3 | 3.6 | | 8.67 |
| Mar 8, 1995 | <100 | <0.5 | <0.5 | <0.5 | <1 | | 8.34 |
| Jun 15, 1995 | <100 | 1.0 | <0.5 | <0.5 | <1 | | 9.12 |

TABLE 1 (Continued)

| Monitoring Well RS-9 | | | | | | | |
|----------------------|-------|---------|---------|-----------|---------|-----------|-------------|
| Date | TPH | Benzene | Toluene | E-Benzene | Xylenes | Elevation | Depth to GW |
| Aug 7, 1991 | NA | 0.5 | ND | 330 | 1200 | 167.51 | 2.28 |
| Sep 27, 1991 | 13000 | 3.5 | 3.0 | 82 | 140 | | 2.77 |
| Oct 23, 1991 | 11000 | ND | ND | 39 | 340 | | 3.53 |
| Nov 6, 1991 | 6800 | 8.4 | 0.6 | 22 | 230 | | 2.51 |
| Dec 4, 1991 | 6500 | 6.5 | 0.7 | 87 | 200 | | 3.20 |
| Jan 29, 1992 | 8100 | 22 | 10 | 140 | 260 | | 2.65 |
| Feb 26, 1992 | 13000 | 40 | 16 | 220 | 600 | | 3.42 |
| Mar 19, 1992 | 12000 | 21 | 12 | 100 | 280 | | 3.12 |
| Apr 22, 1992 | 8600 | ND | ND | 20 | 37 | | 3.24 |
| May 21, 1992 | 6000 | 21 | 10 | 53 | 210 | | 3.75 |
| Jun 25, 1992 | 370 | 2.3 | 1.5 | 0.7 | 4.3 | | 2.65 |
| Jul 30, 1992 | 3600 | 20 | ND | 39 | 80 | | 2.70 |
| Aug 20, 1992 | 3000 | 0.7 | 5.2 | 2.0 | 5.3 | | 2.83 |
| Sep 30, 1992 | 9200 | 4.8 | 6.5 | 12 | 91 | | 2.80 |
| Dec 23, 1992 | 2000 | 17 | ND | 8.2 | 18 | | 2.45 |
| Mar 10, 1993 | 1500 | ND | 2.6 | 21 | 12 | | 2.40 |
| Jun 9, 1993 | 1300 | 0.6 | 1.7 | ND | 7.5 | | 3.55 |
| Sep 14, 1993 | 1500 | 1.3 | 7.6 | 4.1 | 14.0 | | 2.81 |
| Dec 14, 1993 | 560 | ND | ND | ND | 5.5 | | 2.63 |
| Mar 2, 1994 | 1100 | <0.3 | <0.3 | <0.3 | <0.5 | | 2.60 |
| Jun 6, 1994 | 290 | 0.58 | 0.53 | 1.1 | 5.8 | | 2.52 |
| Sep 6, 1994 | 890 | <0.3 | <0.3 | <0.3 | 3.1 | | 3.16 |
| Dec 7, 1994 | 940 | 22 | 23 | 10 | 32 | | 5.18 |
| Mar 8, 1995 | 1600 | <0.5 | <0.5 | <0.5 | 2.3 | | 4.57 |
| Jun 15, 1995 | 3200 | 2.2 | 5.3 | 4.3 | 3.1 | | 5.08 |

TABLE 1 (Continued)

| Monitoring Well RS-10 | | | | | | | |
|-----------------------|------|---------|---------|-----------|---------|-----------|-------------|
| Date | TPH | Benzene | Toluene | E-Benzene | Xylenes | Elevation | Depth to GW |
| Aug 7, 1991 | ND | ND | ND | ND | ND | 162.89 | 6.16 |
| Sep 27, 1991 | ND | ND | ND | ND | ND | | 6.48 |
| Oct 23, 1991 | ND | ND | ND | ND | ND | | 7.37 |
| Nov 6, 1991 | ND | ND | ND | ND | ND | | 6.44 |
| Dec 4, 1991 | ND | ND | ND | ND | ND | | 7.02 |
| Jan 29, 1992 | ND | ND | ND | ND | ND | | 6.78 |
| Feb 26, 1992 | ND | ND | ND | ND | ND | | 8.33 |
| Mar 19, 1992 | ND | ND | ND | ND | 0.6 | | 8.02 |
| Apr 22, 1992 | ND | ND | ND | ND | ND | | 7.78 |
| May 21, 1992 | ND | ND | 0.6 | ND | 1.2 | | 6.21 |
| Jun 25, 1992 | ND | ND | ND | ND | ND | | 7.73 |
| Jul 30, 1992 | ND | ND | 0.5 | ND | 1.0 | | 7.84 |
| Aug 20, 1992 | ND | ND | ND | ND | ND | | 7.50 |
| Sep 30, 1992 | ND | ND | ND | ND | ND | | 7.63 |
| Dec 23, 1992 | ND | ND | ND | ND | ND | | 7.24 |
| Mar 10, 1993 | ND | ND | ND | ND | ND | | 6.38 |
| Jun 9, 1993 | ND | ND | ND | ND | ND | | 7.98 |
| Sep 14, 1993 | ND | ND | ND | ND | ND | | 7.35 |
| Mar 2, 1994 | <50 | <0.3 | <0.3 | <0.3 | <0.3 | | 7.00 |
| Jun 6, 1994 | <50 | <0.3 | <0.3 | <0.3 | <0.5 | | 6.55 |
| Sep 6, 1994 | <50 | <0.3 | <0.3 | <0.3 | <0.5 | | 7.63 |
| Dec 7, 1994 | 56 | <0.3 | <0.3 | <0.5 | 2.1 | | 5.92 |
| Mar 8, 1995 | <100 | <0.5 | <0.5 | <0.5 | <1 | | 7.84 |
| Jun 15, 1995 | <100 | <0.5 | <0.5 | <0.5 | <1 | | 6.97 |

Benzene, toluene, ethlybenzene, and xylene analyzed by EPA method 8020 and concentrations reported in ug/l.

Total petroleum hydrocarbons analyzed by EPA method 8015 and concentrations reported in ug/l.

NSC = Not sampled due to product film on groundwater.

ND = Not Detected.

NA = Not Analyzed.

Table 2 - Vapor Concentrations in Wells
Thrifty Oil Co. Station #054
Castro Valley, CA

| Well I.D. | Date | Vapor Conc., ppmv |
|------------------|-------------|--------------------------|
| PW-1 | 05-16-94 | 150 |
| | 06-06-94 | 28 |
| | 07-11-94 | 160 |
| | 08-15-94 | 100 |
| | 09-06-94 | 12 |
| PW-2 | 05-16-94 | 150 |
| | 06-06-94 | 25 |
| | 07-11-94 | 150 |
| | 08-15-94 | 100 |
| | 09-06-94 | 18 |
| RE-1 | 05-16-94 | >10,000 |
| | 06-06-94 | >10,000 |
| | 07-11-94 | >10,000 |
| | 08-15-94 | >10,000 |
| | 09-06-94 | 50 |
| RE-2 | 05-16-94 | 200 |
| | 06-06-94 | 20 |
| | 07-11-94 | 210 |
| | 08-15-94 | 160 |
| | 09-06-94 | 4 |
| RE-3 | 05-16-94 | 6,000 |
| | 06-06-94 | >10,000 |
| | 07-11-94 | 5,000 |
| | 08-15-94 | >6,000 |
| | 09-06-94 | 150 |
| RE-4 | 05-16-94 | 1,000 |
| | 06-06-94 | 40 |
| | 07-11-94 | 1,500 |
| | 08-15-94 | >1,000 |
| | 09-06-94 | 70 |
| RE-5 | 05-16-94 | 400 |
| | 06-06-94 | 220 |
| | 07-11-94 | 300 |
| | 08-15-94 | 300 |
| | 09-06-94 | 2 |
| RE-6 | 05-16-94 | >10,000 |
| | 06-06-94 | 20 |
| | 07-11-94 | >10,000 |
| | 08-15-94 | >10,000 |
| | 09-06-94 | 200 |

(Table 2 Continued)

| Well I.D. | Date | Vapor Conc., ppmv |
|------------------|-------------|--------------------------|
| RE-7 | 05-16-94 | 200 |
| | 06-06-94 | 500 |
| | 07-11-94 | >10,000 |
| | 08-15-94 | >300 |
| | 09-06-94 | 100 |
| RS-8 | 05-16-94 | -- |
| | 06-06-94 | 0 |
| | 07-11-94 | -- |
| | 08-15-94 | -- |
| | 09-06-94 | 0 |
| RS-9 | 05-16-94 | -- |
| | 06-06-94 | 5,000 |
| | 07-11-94 | -- |
| | 08-15-94 | -- |
| | 09-06-94 | >10,000 |
| RS-10 | 05-16-94 | -- |
| | 06-06-94 | 0 |
| | 07-11-94 | -- |
| | 08-15-94 | -- |
| | 09-06-94 | 0 |

APPENDIX A



EARTH MANAGEMENT CO.

Environmental Remediation

FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

| MAINFOLD | | | | | | |
|----------|-------|------|------|--------|------|--------|
| WELLS | WATER | | | VAPORS | | |
| | ON | RE 4 | RE 1 | ON | RE 1 | RE 3 |
| OFF | | | | OFF | | REGRET |

| WELL MONITORING | | | | RSI SYSTEM | | | |
|---|-----|-------|------|----------------------|--------|-------|-----|
| WELL NO | DTW | DTP | PT | PARAMETER | U/M | DATA | OBS |
| | | | | TIME | AM/PM | 13:10 | |
| | | | | HOURS | # | 8658 | |
| | | | | ENGINE RPM | RPM | 1800 | |
| | | | | ENGINE VACUUM | IN HG | 10 | |
| | | | | TK REC TEMP | F | 140 | |
| | | | | AIR TEMP | F | 84°F | |
| | | | | AIR FLOW | CFM | 16 | |
| | | | | VAPOR FLOW | CFM | 16 | |
| | | | | FUEL FLOW | CFM/H | 80 | |
| | | | | WELL VACUUM | IN H2O | 30 | |
| | | | | GAS METER | | 85% | |
| HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT | | | | CATALYST IN | F | | |
| PARAMETER | U/M | LIMIT | DATA | CATALYST OUT | F | | |
| FLOWMETER | GAL | 437.1 | | EXHAUST HC | PPM/% | | |
| ROTAMETER | | | | EXHAUST CO | %PPM | | |
| VPI FLOW | | | | EXHAUST CO2 | % | | |
| VPI VACUUM | | | | EXHAUST NOX | %PPM | | |
| AIR COMPRES | | | | CATALYST REPLACEMENT | | | |
| VAPOR | | | | EXHAUST O2 | % | | |
| INLET VAPOR | | | | INLET | PPM | | |
| TEMPERATURE | | | | OUTLET | PPM | | |
| LEL | | | | | | | |
| COMMENTS: 5W AIR SAMPLING & MONTHLY WATER SAMPLING | | | | | | | |
| SERVICE TECHNICIAN <u>FLORIN SPETCU</u> DATE <u>6-27-95</u> THRIFTY OIL CO # <u>054</u> | | | | | | | |



EARTH MANAGEMENT CO.

Environmental Remediation

PROJECT STATUS REPORT

THRIFTY OIL CO. S.S. #054

2504 CASTRO VALLEY BLVD.

CASTRO VALLEY, CA 94546

DATE: 06-15-95

| FREQUENCY | MONITORING | | | | ODORS | | | FREE PRODUCT | WELLS CONNECTED TO SYSTEM (W) | | | | | | | | |
|-----------|-------------------|-----|-----|------------|---------|-----------|-------|--------------|-------------------------------|-----------|-------|-------|----|-----|----|-----|--|
| | OBSERVATION WELLS | | | (S=SLIGHT) | CONNECT | INTEGRITY | VAPOR | | CONNECT | INTEGRITY | VAPOR | WATER | | | | | |
| | NO. | DTW | DTP | PT | YES | NO | S | | YES | NO | OK | NO | ON | OFF | ON | OFF | |
| M PW-1 | 5.72 | | | | X | | | X | X | - | X | | Y | | | X | |
| M PW-2 | 5.44 | | | | X | | | X | X | - | X | | Y | | | X | |
| M RE-1 | Sheen | | | | X | | | X | X | - | Y | | Y | | | X | |
| M RE-2 | 4.52 | | | | Y | | | Y | X | - | Y | | Y | | | Y | |
| M RE-3 | Sheen | | | | Y | | | X | X | - | Y | | Y | | | Y | |
| M RE-4 | Sheen | | | | Y | | | Y | X | - | Y | | X | | | X | |
| M RE-5 | 4.93 | | | | Y | | | Y | X | - | Y | | Y | | | X | |
| M RE-6 | 5.72 | | | | Y | | | Y | X | - | Y | | Y | | | Y | |
| M RE-7 | Sheen | | | | Y | | | Y | X | - | Y | | Y | | | X | |
| M RS-8 | 9.12 | | | | X | | | Y | - | X | Y | | Y | | | Y | |
| M RS-9 | 5.08 | | | | Y | | | Y | - | X | Y | | Y | | | Y | |
| M RS-10 | 6.97 | | | | Y | | | Y | - | X | Y | | Y | | | Y | |

| SAVE SYSTEM WEEKLY | | | | | | | | | | | |
|---------------------------------------|--|----------------|--|------|--|--|--|--------------------|--|------|--|
| PARAMETER | | U/M | | DATA | | PARAMETER | | U/M | | DATA | |
| TIME | | AM/PM | | | | AIR FLOW | | CFM | | | |
| WORKING | | YES/NO | | | | VAPOR FLOW | | CFM | | | |
| RESTARTED | | YES/NO | | | | FUEL FLOW | | CFM/H | | | |
| HOURS | | # | | | | WELL VACUUM | | IN H2O | | | |
| ENGINE ROT. | | RPM | | | | LPG TANKS | | % | | #1: | |
| ENGINE VACUUM | | IN HG | | | | GAS METER READING | | - | | N/A | |
| TANK VACUUM | | IN HG | | | | WATER FLOWMETER | | GALL. | | | |
| EXHAUST (By others) | | | | | | | | | | | |
| INLET TO ENGINE | | | | | | | | | | | |
| MAINTENANCE | | ES/100/400/800 | | | | FOR SPECIFIC OPERATIONS SEE FIELD RECORD | | | | | |
| WATER SAMPLING - CHECK () WHEN DONE | | | | | | | | | | | |
| EFFLUENT | | | | | | INFLUENT | | WELLS | | | |
| () | | () | | () | | () | | () Q.-SEE C.CUST. | | | |
| REMARKS: _____ | | | | | | | | | | | |
| FREE PRODUCT REMOVED: APPROX. GALLONS | | | | | | WATER REMOVED: APPROX. 160 GALLONS | | | | | |
| DATA RECORDED BY: FLORIN, SERBAN | | | | | | INPUT BY: M.M. >\FF\054rsirt | | | | | |



EARTH MANAGEMENT CO.

Environmental Remediation

FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

| MAINFOLD | | | | | | |
|----------|-------|------|------|--------|------|------|
| WELLS | WATER | | | VAPORS | | |
| | ON | RE 4 | RE 7 | ON | RE 1 | RE 3 |
| OFF | | | | OFF | | |

| WELL MONITORING | | | | RSI SYSTEM | | | |
|-----------------|-----|-----|----|----------------------|--------|-------|-----|
| WELL NO | DTW | DTP | PT | PARAMETER | U/M | DATA | OBS |
| | | | | TIME | AM/PM | 13:15 | |
| | | | | HOURS | # | 8651 | |
| | | | | ENGINE RPM | RPM | - | |
| | | | | ENGINE VACUUM | IN HG | - | |
| | | | | TK REC TEMP | F | - | |
| | | | | AIR TEMP | F | 64°F | |
| | | | | AIR FLOW | CFM | | |
| | | | | VAPOR FLOW | CFM | | |
| | | | | FUEL FLOW | CFM/H | | |
| | | | | WELL VACUUM | IN H2O | | |
| | | | | GAS METER | | 50% | |
| | | | | CATALYST IN | F | | |
| | | | | CATALYST OUT | F | | |
| | | | | EXHAUST HC | PPM/% | | |
| | | | | EXHAUST CO | %PPM | | |
| | | | | EXHAUST CO2 | % | | |
| | | | | EXHAUST NOX | %PPM | | |
| | | | | CATALYST REPLACEMENT | | | |
| | | | | EXHAUST O2 | % | | |
| | | | | INLET | PPM | | |
| | | | | OUTLET | PPM | | |

HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT

| PARAMETER | U/M | LIMIT | DATA |
|-------------|-----|-------|------|
| FLOWMETER | GAL | 435.2 | |
| ROTAMETER | | | |
| VPI FLOW | | | |
| VPI VACUUM | | | |
| AIR COMPRES | | | |
| VAPOR | | | |
| INLET VAPOR | | | |
| TEMPERATURE | | | |
| LEL | | | |

COMMENTS: The engine doesn't start and I didn't take
air sampling & monthly water sampling

SERVICE TECHNICIAN FLORIN SFETOU DATE 6/15/95 THRIFTY OIL CO # 254

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

| | | | |
|-----------|----------------|---------|------------|
| Site | 054 | Date | 06-15-1995 |
| Address | | | |
| Personnel | FLORIN, SERBAN | Weather | Rain |
| Well No. | RE-5 | Equip. | Poiler |

| | | | | |
|-----------------------|-------|-----|-----------------|----|
| Before Purging | | | | |
| Total Well Depth | 18.25 | ft. | Well Diameter | 4" |
| Depth to Water | 4.93 | ft. | Est. Purge Vol. | 35 |

| | | | | | | |
|----------------------|-----------------|-------|-------|-------|-------|-------|
| Sampling Data | | | | | | |
| Initial Turbidity | Final Turbidity | | | | | |
| Time | 14:30 | 14:40 | 14:45 | 14:50 | 14:55 | 15:00 |
| EC | 730 | 710 | 680 | 660 | 630 | 630 |
| pH | 4.63 | 4.62 | 4.62 | 4.61 | 4.61 | 4.61 |
| Temp | 74.5 | 73.8 | 73.5 | 73.2 | 72.1 | 71.8 |
| Gal. | 5 | 11 | 17 | 23 | 29 | 35 |
| Time | _____ | _____ | _____ | _____ | _____ | _____ |
| EC | _____ | _____ | _____ | _____ | _____ | _____ |
| pH | _____ | _____ | _____ | _____ | _____ | _____ |
| Temp | _____ | _____ | _____ | _____ | _____ | _____ |
| Gal. | _____ | _____ | _____ | _____ | _____ | _____ |

| | | | | | | |
|---|-------|-----|------------------|-------|-----|-------|
| After Purging/Before Sample Collection | | | | | | |
| Depth to Water | _____ | ft. | Total Well Depth | _____ | ft. | _____ |

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

| | |
|---------------------------------|------------------------|
| Site <u>054</u> | Date <u>06-15-1995</u> |
| Address _____ | |
| Personnel <u>FLORIN, SERBAN</u> | Weather <u>Rain</u> |
| Well No. <u>RE-6</u> | Equip. <u>Boiler</u> |

| | | | | | |
|-------------------------------|-----|---------------------------|--|--|--|
| Before Purging | | | | | |
| Total Well Depth <u>13.65</u> | ft. | Well Diameter <u>4"</u> | | | |
| Depth to Water <u>5.72</u> | ft. | Est. Purge Vol. <u>21</u> | | | |

| | | | | | |
|-------------------------|--------------|--------------|-----------------------|--------------|--------------|
| Sampling Data | | | | | |
| Initial Turbidity _____ | | | Final Turbidity _____ | | |
| Time <u>14:05</u> | <u>14:08</u> | <u>14:11</u> | <u>14:14</u> | <u>14:17</u> | <u>14:20</u> |
| EC <u>2060</u> | <u>2050</u> | <u>2030</u> | <u>2010</u> | <u>1990</u> | <u>1990</u> |
| pH <u>4.65</u> | <u>4.64</u> | <u>4.64</u> | <u>4.63</u> | <u>4.63</u> | <u>4.63</u> |
| Temp <u>73.4</u> | <u>74.1</u> | <u>73.2</u> | <u>71.2</u> | <u>71.2</u> | <u>71.2</u> |
| Gal. <u>3</u> | <u>7</u> | <u>10</u> | <u>14</u> | <u>17</u> | <u>21</u> |
| Time _____ | _____ | _____ | _____ | _____ | _____ |
| EC _____ | _____ | _____ | _____ | _____ | _____ |
| pH _____ | _____ | _____ | _____ | _____ | _____ |
| Temp _____ | _____ | _____ | _____ | _____ | _____ |
| Gal. _____ | _____ | _____ | _____ | _____ | _____ |

| | | | | | |
|---|-----|------------------------|-----|--|--|
| After Purging/Before Sample Collection | | | | | |
| Depth to Water _____ | ft. | Total Well Depth _____ | ft. | | |

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

| | | | |
|-----------|-----------------|---------|------------|
| Site | 054 | Date | 06-15-1995 |
| Address | | | |
| Personnel | FLORIN, SERBATO | Weather | Rain |
| Well No. | RS-9 | Equip. | Boiler |

| | | | | |
|-----------------------|-------|-----|-----------------|----|
| Before Purging | | | | |
| Total Well Depth | 15.00 | ft. | Well Diameter | 2" |
| Depth to Water | 5.08 | ft. | Est. Purge Vol. | 6 |

| | | | | | |
|----------------------|-------|-------|-----------------|---|--|
| Sampling Data | | | | | |
| Initial Turbidity | | | Final Turbidity | | |
| Time | 13:48 | 13:48 | 13:50 | | |
| EC | 2100 | 2010 | 1990 | 1 | |
| pH | 6.62 | 6.63 | 6.63 | | |
| Temp | 68.4 | 68.4 | 68.3 | | |
| Gal. | 2 | 4 | 6 | | |
| Time | | | | | |
| EC | | | | | |
| pH | | | | | |
| Temp | | | | | |
| Gal. | | | | | |

| | | | | | |
|---|--|-----|------------------|--|-----|
| After Purging/Before Sample Collection | | | | | |
| Depth to Water | | ft. | Total Well Depth | | ft. |

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

| | | | |
|-----------|-----------------|---------|------------|
| Site | 054 | Date | 06-15-1995 |
| Address | | | |
| Personnel | SERBATI, FLORIN | Weather | Rain |
| Well No. | RS-8 | Equip. | Bailey |

| | | | | |
|-----------------------|-------|-----|-----------------|----|
| Before Purging | | | | |
| Total Well Depth | 25.20 | ft. | Well Diameter | 2" |
| Depth to Water | 9.12 | ft. | Est. Purge Vol. | 10 |

| | | | |
|----------------------|-----------------|-------|-------|
| Sampling Data | | | |
| Initial Turbidity | Final Turbidity | | |
| Time | 12:20 | 12:22 | 12:23 |
| EC | 2770 | 2730 | 2740 |
| pH | 4.65 | 4.64 | 4.64 |
| Temp | 70.8 | 69.8 | 69.7 |
| Gal. | 2 | 5 | 7 |
| Time | | | |
| EC | | | |
| pH | | | |
| Temp | | | |
| Gal. | | | |

| | | | | | |
|---|--|-----|------------------|--|-----|
| After Purging/Before Sample Collection | | | | | |
| Depth to Water | | ft. | Total Well Depth | | ft. |

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

| | | | |
|-----------|----------------|---------|------------|
| Site | 054 | Date | 06-15-1995 |
| Address | | | |
| Personnel | SERBAN, FLORIN | Weather | Rain |
| Well No. | RS-10 | Equip. | Boiler |

| | | | | |
|-----------------------|-------|-----|-----------------|----|
| Before Purging | | | | |
| Total Well Depth | 24.45 | ft. | Well Diameter | 2" |
| Depth to Water | 6.97 | ft. | Est. Purge Vol. | 11 |

| | | | | | | | |
|----------------------|-------|-------|-------|-----------------|--|--|--|
| Sampling Data | | | | | | | |
| Initial Turbidity | | | | Final Turbidity | | | |
| Time | 11:44 | 11:46 | 11:48 | 11:50 | | | |
| EC | 780 | 740 | 720 | 720 | | | |
| pH | 6.76 | 4.74 | 4.74 | 4.72 | | | |
| Temp | 69.6 | 68.9 | 68.6 | 68.2 | | | |
| Gal. | 2 | 5 | 8 | 11 | | | |
| Time | | | | | | | |
| EC | | | | | | | |
| pH | | | | | | | |
| Temp | | | | | | | |
| Gal. | | | | | | | |

| | | | | | |
|---|--|-----|------------------|--|-----|
| After Purging/Before Sample Collection | | | | | |
| Depth to Water | | ft. | Total Well Depth | | ft. |

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

| | | | |
|-----------|------------------------|---------|-------------------|
| Site | <u>054</u> | Date | <u>06-15-1995</u> |
| Address | | | |
| Personnel | <u>FLORIN, SERIBAU</u> | Weather | <u>Rain</u> |
| Well No. | <u>PW-2</u> | Equip. | <u>Boiler</u> |

| | | | | |
|-----------------------|--------------|-----|-----------------|-----------|
| Before Purging | | | | |
| Total Well Depth | <u>14.40</u> | ft. | Well Diameter | <u>4"</u> |
| Depth to Water | <u>5.44</u> | ft. | Est. Purge Vol. | <u>23</u> |

| | | | | | |
|----------------------|-----------------|-------------|-------------|-------------|-------------|
| Sampling Data | | | | | |
| Initial Turbidity | Final Turbidity | | | | |
| Time | _____ | _____ | _____ | _____ | _____ |
| EC | <u>680</u> | <u>680</u> | <u>660</u> | <u>660</u> | <u>660</u> |
| pH | <u>4.88</u> | <u>4.88</u> | <u>4.88</u> | <u>4.87</u> | <u>4.87</u> |
| Temp | <u>72.1</u> | <u>72.8</u> | <u>72.7</u> | <u>72.5</u> | <u>72.4</u> |
| Gal. | <u>3</u> | <u>7</u> | <u>11</u> | <u>15</u> | <u>19</u> |
| Time | _____ | _____ | _____ | _____ | _____ |
| EC | _____ | _____ | _____ | _____ | _____ |
| pH | _____ | _____ | _____ | _____ | _____ |
| Temp | _____ | _____ | _____ | _____ | _____ |
| Gal. | _____ | _____ | _____ | _____ | _____ |

| | | | | | |
|---|-----|------------------|-----|-----|-----|
| After Purging/Before Sample Collection | | | | | |
| Depth to Water | ft. | Total Well Depth | ft. | ft. | ft. |

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

| | | | |
|-----------|----------------|---------|------------|
| Site | 054 | Date | 06-15-1995 |
| Address | | | |
| Personnel | FLORIN, SERBAN | Weather | Rain |
| Well No. | PW-1 | Equip. | BAILER |

Before Purging

Total Well Depth 14.10 ft. Well Diameter 4"
 Depth to Water 5.72 ft. Est. Purge Vol. 22

Sampling Data

Initial Turbidity _____ Final Turbidity _____

| Time | | | | | | 10:40 |
|------|------|------|------|------|------|-------|
| EC | 780 | 760 | 770 | 760 | 760 | 760 |
| pH | 4.89 | 4.86 | 4.80 | 4.82 | 4.78 | 4.73 |
| Temp | 71.8 | 71.5 | 71.3 | 70.9 | 70.6 | 70.3 |
| Gal. | 3 | 7 | 10 | 14 | 18 | 22 |

| Time | | | | | | |
|------|-------|-------|-------|-------|-------|-------|
| EC | _____ | _____ | _____ | _____ | _____ | _____ |
| pH | _____ | _____ | _____ | _____ | _____ | _____ |
| Temp | _____ | _____ | _____ | _____ | _____ | _____ |
| Gal. | _____ | _____ | _____ | _____ | _____ | _____ |

After Purging/Before Sample Collection

Depth to Water _____ ft. Total Well Depth _____ ft.

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

| | |
|----------------------------------|------------------------|
| Site <u>SS# 054</u> | Date <u>06-15-1995</u> |
| Address _____ | |
| Personnel <u>SERBATI, FLORIN</u> | Weather <u>Rain</u> |
| Well No. <u>RE-2</u> | Equip. <u>Bailey</u> |

| | | | | | |
|-----------------------|--------------|-----|-----------------|-----------|--|
| Before Purging | | | | | |
| Total Well Depth | <u>17.10</u> | ft. | Well Diameter | <u>4"</u> | |
| Depth to Water | <u>4.52</u> | ft. | Est. Purge Vol. | <u>33</u> | |

| | | | | | |
|----------------------|-----------------|-------------|-------------|--------------|--------------|
| Sampling Data | | | | | |
| Initial Turbidity | Final Turbidity | | | | |
| Time | <u>9:50</u> | <u>9:54</u> | <u>9:58</u> | <u>10:02</u> | <u>10:06</u> |
| EC | <u>770</u> | <u>760</u> | <u>740</u> | <u>710</u> | <u>680</u> |
| pH | <u>5.02</u> | <u>5.04</u> | <u>5.06</u> | <u>5.08</u> | <u>5.09</u> |
| Temp | <u>66.0</u> | <u>65.7</u> | <u>65.7</u> | <u>65.9</u> | <u>66.1</u> |
| Gal. | <u>5</u> | <u>11</u> | <u>16</u> | <u>22</u> | <u>27</u> |
| Time | _____ | _____ | _____ | _____ | _____ |
| EC | _____ | _____ | _____ | _____ | _____ |
| pH | _____ | _____ | _____ | _____ | _____ |
| Temp | _____ | _____ | _____ | _____ | _____ |
| Gal. | _____ | _____ | _____ | _____ | _____ |

| | | | | | |
|---|----------|-----|------------------|----------|-----|
| After Purging/Before Sample Collection | | | | | |
| Depth to Water | <u> </u> | ft. | Total Well Depth | <u> </u> | ft. |



EARTH MANAGEMENT CO.

Environmental Remediation

FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

| MAINFOLD | | | | | | | |
|----------|-------|------|------|-----|--------|------|-----------|
| WELLS | WATER | | | | VAPORS | | |
| | ON | RE 4 | RE 7 | OFF | ON | RE 1 | RE 3 |
| | | | | | | | RE 6 RE 7 |
| | | | | | | | |

| WELL MONITORING | | | | | RSI SYSTEM | | | |
|-----------------|-----|-----|----|-----|----------------------|--------|-------|-----|
| WELL NO | DTW | DTP | PT | DTB | PARAMETER | U/M | DATA | OBS |
| | | | | | TIME | AM/PM | 10:10 | |
| | | | | | HOURS | # | 8634 | |
| | | | | | ENGINE RPM | RPM | 1800 | |
| | | | | | ENGINE VACUUM | IN HG | 12 | |
| | | | | | TK REC TEMP | F | 95 | |
| | | | | | AIR TEMP | F | 74°F | |
| | | | | | AIR FLOW | CFM | 16 | |
| | | | | | VAPOR FLOW | CFM | 14 | |
| | | | | | FUEL FLOW | CFM/H | 80 | |
| | | | | | WELL VACUUM | IN H2O | 30 | |
| | | | | | GAS METER | | 70% | |
| | | | | | CATALYST IN | F | | |
| | | | | | CATALYST OUT | F | | |
| | | | | | EXHAUST HC | PPM/% | | |
| | | | | | EXHAUST CO | %PPM | | |
| | | | | | EXHAUST CO2 | % | | |
| | | | | | EXHAUST NOX | %PPM | | |
| | | | | | CATALYST REPLACEMENT | | | |
| | | | | | EXHAUST O2 | % | | |
| | | | | | INLET | PPM | | |
| | | | | | OUTLET | PPM | | |

COMMENTS: Water remediation system sometimes work sometimes don't work

SERVICE TECHNICIAN FLORIN SPECTOR DATE 6-13-95 THRIFTY OIL CO # 054



EARTH MANAGEMENT CO.

Environmental Remediation

FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

| MAINFOLD | | | | | | | |
|----------|-------|------|------|--------|------|------|---------|
| WELLS | WATER | | | VAPORS | | | |
| | ON | RE 4 | RE 7 | ON | RE 1 | RE 3 | REG REG |
| OFF | | | | | | | |

| WELL MONITORING | | | | RSI SYSTEM | | | | |
|---|--------------|-------|----------|----------------------|---------------|--------|-------|-----|
| WELL NO | DTW | DTP | PT | DTB | PARAMETER | U/M | DATA | OBS |
| | | | | | TIME | AM/PM | 13:50 | |
| | | | | | HOURS | # | 8529 | |
| | | | | | ENGINE RPM | RPM | 1600 | |
| | | | | | ENGINE VACUUM | IN HG | 12 | |
| | | | | | TK REC TEMP | F | 100 | |
| | | | | | AIR TEMP | F | 62°F | |
| | | | | | AIR FLOW | CFM | 18 | |
| | | | | | VAPOR FLOW | CFM | 18 | |
| | | | | | FUEL FLOW | CFM/H | 80 | |
| | | | | | WELL VACUUM | IN H2O | 30 | |
| | | | | | GAS METER | | 40% | |
| HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT | | | | CATALYST IN | F | | | |
| PARAMETER | U/M | LIMIT | DATA | CATALYST OUT | F | | | |
| FLOWMETER | QAL | 384.0 | | EXHAUST HC | PPM/% | | | |
| ROTAMETER | | | | EXHAUST CO | %PPM | | | |
| VPI FLOW | | | | EXHAUST CO2 | % | | | |
| VPI VACUUM | | | | EXHAUST NOX | %PPM | | | |
| AIR COMPRES | | | | CATALYST REPLACEMENT | | | | |
| VAPOR | | | | EXHAUST O2 | % | | | |
| INLET VAPOR | | | | INLET | PPM | | | |
| TEMPERATURE | | | | OUTLET | PPM | | | |
| LEL | | | | COMMENTS: | | | | |
| SERVICE TECHNICIAN | FLORIN SETCU | DATE | 06/08/95 | THRIFTY OIL CO # | 054 | | | |

13415 Carmenita Road/P.O. Box 2129, Santa Fe Springs, CA 90670



EARTH MANAGEMENT CO.

Environmental Remediation

FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

| MAINFOLD | | | | | | |
|----------|-------|------|------|--------|------|-----------|
| WELLS | WATER | | | VAPORS | | |
| | ON | RE 4 | RE 7 | ON | RE 1 | RE 3 |
| OFF | | | | OFF | | RE 6 RE 7 |

| WELL MONITORING | | | | RSI SYSTEM | | | | |
|---|---------------|-------|----------|----------------------|-----------------------------------|--------|-------|-----|
| WELL NO | DTW | DTP | PT | DTB | PARAMETER | U/M | DATA | OBS |
| | | | | | TIME | AM/PM | 15:20 | |
| | | | | | HOURS | # | 8436 | |
| | | | | | ENGINE RPM | RPM | 1700 | |
| | | | | | ENGINE VACUUM | IN HG | 16 | |
| | | | | | TK REC TEMP | F | 95 | |
| | | | | | AIR TEMP | F | 68 °F | |
| | | | | | AIR FLOW | CFM | 18 | |
| | | | | | VAPOR FLOW | CFM | 16 | |
| | | | | | FUEL FLOW | CFM/H | 80 | |
| | | | | | WELL VACUUM | IN H2O | 30 | |
| | | | | | GAS METER | | 80% | |
| HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT | | | | CATALYST IN | F | | | |
| PARAMETER | U/M | LIMIT | DATA | CATALYST OUT | F | | | |
| FLOWMETER | Gal | 276 | | EXHAUST HC | PPM/% | | | |
| ROTAMETER | | | | EXHAUST CO | %PPM | | | |
| VPI FLOW | | | | EXHAUST CO2 | % | | | |
| VPI VACUUM | | | | EXHAUST NOX | %PPM | | | |
| AIR COMPRES | | | | CATALYST REPLACEMENT | | | | |
| VAPOR | | | | EXHAUST O2 | % | | | |
| INLET VAPOR | | | | INLET | PPM | | | |
| TEMPERATURE | | | | OUTLET | PPM | | | |
| LEL | | | | COMMENTS: | Water come to slow change the oil | | | |
| SERVICE TECHNICIAN | FLORIN GFERAT | DATE | 26-01-05 | THRIFTY OIL CO # | 056 | | | |



EARTH MANAGEMENT CO.

Environmental Remediation

FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

| MAINFOLD | | | | | | | |
|----------|-------|------|------|--------|------|------|-----------|
| WELLS | WATER | | | VAPORS | | | |
| | ON | RE 4 | RE 7 | ON | RE 1 | RE 3 | RE 6 RE 7 |
| OFF | | | | OFF | | | |

| WELL MONITORING | | | | RSI SYSTEM | | | | |
|---|-----|-------|------|---|----------------------|--------|-------|-----|
| WELL NO | DTW | DTP | PT | DTB | PARAMETER | U/M | DATA | OBS |
| | | | | | TIME | AM/PM | 16:10 | |
| | | | | | HOURS | # | 8408 | |
| | | | | | ENGINE RPM | RPM | 1700 | |
| | | | | | ENGINE VACUUM | IN HG | 12 | |
| | | | | | TK REC TEMP | F | 110 | |
| | | | | | AIR TEMP | F | 80 | |
| | | | | | AIR FLOW | CFM | 17 | |
| | | | | | VAPOR FLOW | CFM | 18 | |
| | | | | | FUEL FLOW | CFM/H | 75 | |
| | | | | | WELL VACUUM | IN H2O | 30 | |
| | | | | | GAS METER | | 85% | |
| | | | | | CATALYST IN | F | | |
| | | | | | CATALYST OUT | F | | |
| | | | | | EXHAUST HC | PPM/% | | |
| | | | | | EXHAUST CO | %PPM | | |
| | | | | | EXHAUST CO2 | % | | |
| | | | | | EXHAUST NOX | %PPM | | |
| | | | | | CATALYST REPLACEMENT | | | |
| | | | | | EXHAUST O2 | % | | |
| | | | | | INLET | PPM | | |
| | | | | | OUTLET | PPM | | |
| HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT | | | | | | | | |
| PARAMETER | U/M | LIMIT | DATA | | | | | |
| FLOWMETER | | 257.3 | | | | | | |
| ROTAMETER | | | | | | | | |
| VPI FLOW | | | | | | | | |
| VPI VACUUM | | | | | | | | |
| AIR COMPRES | | | | | | | | |
| VAPOR | | | | | | | | |
| INLET VAPOR | | | | | | | | |
| TEMPERATURE | | | | | | | | |
| LEL | | | | | | | | |
| COMMENTS: Start engine and S/W Air Sampling | | | | | | | | |
| SERVICE TECHNICIAN <u>FLORIN SFETCU</u> | | | | DATE <u>5/25/95</u> THRIFTY OIL CO # <u>054</u> | | | | |

13415 Carmenita Road/P.O. Box 2129, Santa Fe Springs, CA 90670



EARTH MANAGEMENT CO.

Environmental Remediation

FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

| MAINFOLD | | | | | | | | | | | | | |
|----------|-------|-----|-----|----|-----|-----|-------|--------|-----|-----|--|--|--|
| WELLS | WATER | | | | | | WELLS | VAPORS | | | | | |
| | ON | RE4 | RE7 | ON | RE1 | RE3 | | ON | RE6 | RE7 | | | |
| OFF | | | | | | | | | | | | | |

| WELL MONITORING | | | | RSI SYSTEM | | | | | | | | |
|---|--------------|--------------|------|------------------|----------------------|--------|-------|-----|--|--|--|--|
| WELL NO | DTW | DTP | PT | DTB | PARAMETER | U/M | DATA | OBS | | | | |
| | | | | | TIME | AM/PM | 15:50 | | | | | |
| | | | | | HOURS | # | 8405 | | | | | |
| | | | | | ENGINE RPM | RPM | - | | | | | |
| | | | | | ENGINE VACUUM | IN HG | - | | | | | |
| | | | | | TK REC TEMP | F | - | | | | | |
| | | | | | AIR TEMP | F | 74°F | | | | | |
| | | | | | AIR FLOW | CFM | - | | | | | |
| | | | | | VAPOR FLOW | CFM | - | | | | | |
| | | | | | FUEL FLOW | CFM/H | - | | | | | |
| | | | | | WELL VACUUM | IN H2O | - | | | | | |
| | | | | | GAS METER | | 80% | | | | | |
| | | | | | CATALYST IN | F | | | | | | |
| | | | | | CATALYST OUT | F | | | | | | |
| | | | | | EXHAUST HC | PPM/% | | | | | | |
| | | | | | EXHAUST CO | %PPM | | | | | | |
| | | | | | EXHAUST CO2 | % | | | | | | |
| | | | | | EXHAUST NOX | %PPM | | | | | | |
| | | | | | CATALYST REPLACEMENT | | | | | | | |
| | | | | | EXHAUST O2 | % | | | | | | |
| | | | | | INLET | PPM | | | | | | |
| | | | | | OUTLET | PPM | | | | | | |
| HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT | | | | | | | | | | | | |
| PARAMETER | U/M | LIMIT | DATA | | | | | | | | | |
| FLOWMETER | | 432.1 | | | | | | | | | | |
| ROTAMETER | | | | | | | | | | | | |
| VPI FLOW | | | | | | | | | | | | |
| VPI VACUUM | | | | | | | | | | | | |
| AIR COMPRES | | | | | | | | | | | | |
| VAPOR | | | | | | | | | | | | |
| INLET VAPOR | | | | | | | | | | | | |
| TEMPERATURE | | | | | | | | | | | | |
| LEL | | | | | | | | | | | | |
| COMMENTS: | | | | | | | | | | | | |
| SERVICE TECHNICIAN | FLORIN SPETZ | DATE 5.19.45 | | THRIFTY OIL CO # | 054 | | | | | | | |



EARTH MANAGEMENT CO.
Environmental Remediation

PROJECT STATUS REPORT
THRIFTY OIL CO. S.S. #054
2504 CASTRO VALLEY BLVD.
CASTRO VALLEY, CA 94546
DATE: MAY 11, 1995

| FREQUENCY | MONITORING | | | | ODORS | | | FREE PRODUCT | | WELLS CONNECTED TO SYSTEM (W) | | | | | | | |
|--|-------------------|----------------|-----|------|------------|--|---|---------------------|----|-------------------------------|-----------|-------|-------|-------------------------------------|-----|----|-----|
| | OBSERVATION WELLS | | | | (S=SLIGHT) | | | YES | NO | CONNECT | INTEGRITY | VAPOR | WATER | ON | OFF | ON | OFF |
| | NO. | DTW | DTP | PT | S | | | | | | | | | | | | |
| M PW-1 | 4.06 | | | X | | | X | - | | | | | | | | | |
| M PW-2 | 4.18 | | | X | | | X | - | | | | | | | | | |
| M RE-1 | 4.03 | | | C | | | X | - | | | | | | | | | |
| M RE-2 | 4.08 | | | X | | | X | X | - | | | | | | | | |
| M RE-3 | 5.27 | Shin | | X | | | X | X | - | | | | | | | | |
| M RE-4 | 5.12 | Shin | | X | | | X | X | - | | | | | | | | |
| M RE-5 | 5.28 | | | | V | | C | X | - | | | | | | | | |
| M RE-6 | 5.21 | | | X | | | X | X | - | | | | | | | | |
| M RE-7 | 5.13 | Shin | | X | | | X | X | - | | | | | | | | |
| M RS-8 | 8.42 | | | X | | | X | - | X | | | | | | | | |
| M RS-9 | 4.64 | | | X | | | X | - | X | | | | | | | | |
| M RS-10 | 7.93 | | | X | | | X | - | X | | | | | | | | |
| SAVE SYSTEM WEEKLY | | | | | | | | | | | | | | | | | |
| PARAMETER | | U/M | | DATA | | PARAMETER | | U/M | | DATA | | | | | | | |
| TIME | | AM/PM | | | | AIR FLOW | | C F M | | | | | | | | | |
| WORKING | | YES/NO | | | | VAPOR FLOW | | C F M | | | | | | | | | |
| RESTARTED | | YES/NO | | | | FUEL FLOW | | C F M/H | | | | | | | | | |
| HOURS | | # | | | | WELL VACUUM | | IN H ₂ O | | | | | | | | | |
| ENGINE ROT. | | RPM | | | | L P G TANKS | | # | | #1: | | | | | | | |
| ENGINE VACUUM | | IN HG | | | | GAS METER READING | | - | | N/A | | | | | | | |
| TANK VACUUM | | IN HG | | | | WATER FLOWMETER | | GALL. | | | | | | | | | |
| EXHAUST (By others) | | | | | | | | | | | | | | | | | |
| INLET TO ENGINE | | | | | | | | | | | | | | | | | |
| MAINTENANCE | | ES/100/400/800 | | | | FOR SPECIFIC OPERATIONS SEE FIELD RECORD | | | | | | | | | | | |
| WATER SAMPLING - CHECK () WHEN DONE | | | | | | | | | | | | | | | | | |
| EFFLUENT | | | | | | | | INFLUENT | | | | WELLS | | | | | |
| () | | () | | () | | () | | () Q-SEE C.CUST. | | | | | | | | | |
| REMARKS: _____ | | | | | | | | | | | | | | | | | |
| FREE PRODUCT REMOVED: APPROX. ____ GALLONS | | | | | | | | | | | | | | WATER REMOVED: APPROX. ____ GALLONS | | | |
| DATA RECORDED BY: <u>FLORIN SETCON</u> | | | | | | | | | | | | | | INPUT BY: M.M. >\FF\054rsirt | | | |



EARTH MANAGEMENT CO.

Environmental Remediation

FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

| MAINFOLD | | | | | | |
|----------|-------|------|------|--------|------|---------|
| WELLS | WATER | | | VAPORS | | |
| | ON | RE 4 | RE 1 | ON | RE 4 | RE 3 |
| OFF | | | | OFF | | REG REG |

| WELL MONITORING | | | | RSI SYSTEM | | | | |
|---|------------------------------|-----|-------|------------|----------------------|------------------|-------|-----|
| WELL NO | DTW | DTP | PT | DTB | PARAMETER | U/M | DATA | OBS |
| | | | | | TIME | AM/PM | 15:40 | |
| | | | | | HOURS | # | 8405 | |
| | | | | | ENGINE RPM | RPM | - | |
| | | | | | ENGINE VACUUM | IN HG | - | |
| | | | | | TK REC TEMP | F | - | |
| | | | | | AIR TEMP | F | 62°F | |
| | | | | | AIR FLOW | CFM | - | |
| | | | | | VAPOR FLOW | CFM | - | |
| | | | | | FUEL FLOW | CFM/H | - | |
| | | | | | WELL VACUUM | IN H2O | - | |
| | | | | | GAS METER | | 80% | |
| HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT | PARAMETER | U/M | LIMIT | DATA | CATALYST IN | F | | |
| FLOWMETER | | | 252.1 | | CATALYST OUT | F | | |
| ROTAMETER | | | | | EXHAUST HC | PPM/% | | |
| VPI FLOW | | | | | EXHAUST CO | %PPM | | |
| VPI VACUUM | | | | | EXHAUST CO2 | % | | |
| AIR COMPRES | | | | | EXHAUST NOX | %PPM | | |
| VAPOR | | | | | CATALYST REPLACEMENT | | | |
| INLET VAPOR | | | | | EXHAUST O2 | % | | |
| TEMPERATURE | | | | | INLET | PPM | | |
| LEL | | | | | OUTLET | PPM | | |
| COMMENTS: | TRY TO RESTART, BATTERY DEAD | | | | | | | |
| SERVICE TECHNICIAN | FLORIN SFETCU | | | DATE | 5/11/95 | THRIFTY OIL CO # | 054 | |



EARTH MANAGEMENT CO.

Environmental Remediation

FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

| MAINFOLD | | | | | | |
|----------|-------|------|------|--------|------|------|
| WELLS | WATER | | | VAPORS | | |
| | ON | RE 4 | RE 7 | ON | RE 1 | RE 3 |
| OFF | | | | | | |

| WELL MONITORING | | | | RSI SYSTEM | | | |
|---|---------------------|-------|------|-------------------------|---------|------------------|------------|
| WELL NO | DTW | DTP | PT | PARAMETER | U/M | DATA | OBS |
| | | | | TIME | AM/PM | 15:00 | |
| | | | | HOURS | # | 8405 | |
| | | | | ENGINE RPM | RPM | 1700 | |
| | | | | ENGINE VACUUM | IN HG | 1 | |
| | | | | TK REC TEMP | F | 95 | |
| | | | | AIR TEMP | F | 65°F | |
| | | | | AIR FLOW | CFM | 15 | |
| | | | | VAPOR FLOW | CFM | 14 | |
| | | | | FUEL FLOW | CFM/H | 80 | |
| | | | | WELL VACUUM | IN H2O | 30 | |
| | | | | GAS METER | | 65% | |
| | | | | CATALYST IN | F | | |
| | | | | CATALYST OUT | F | | |
| | | | | EXHAUST HC | PPM/% | | |
| | | | | EXHAUST CO | %PPM | | |
| | | | | EXHAUST CO2 | % | | |
| | | | | EXHAUST NOX | %PPM | | |
| | | | | CATALYST REPLACEMENT | | | |
| | | | | EXHAUST O2 | % | | |
| | | | | INLET | PPM | | |
| | | | | OUTLET | PPM | | |
| HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT | | | | | | | |
| PARAMETER | U/M | LIMIT | DATA | | | | |
| FLOWMETER | 252.1 | 252.1 | | | | | |
| ROTAMETER | | | | | | | |
| VPI FLOW | | | | | | | |
| VPI VACUUM | | | | | | | |
| AIR COMPRES | | | | | | | |
| VAPOR | | | | | | | |
| INLET VAPOR | | | | | | | |
| TEMPERATURE | | | | | | | |
| LEL | | | | | | | |
| COMMENTS: | | | | | | | |
| SERVICE TECHNICIAN | <i>FWR/KS JFECU</i> | | | DATE | 5/05/95 | THRIFTY OIL CO # | <i>054</i> |



EARTH MANAGEMENT CO.

Environmental Remediation

FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

| MAINFOLD | | | | | | | |
|----------|-------|------|------|--------|------|------|-----------|
| WELLS | WATER | | | VAPORS | | | |
| | ON | RE-4 | RE-7 | ON | RE-1 | RE-3 | RE-6 RE-7 |
| OFF | | | | | | | |

| WELL MONITORING | | | | | RSI SYSTEM | | | |
|--|-----|-------|------|-----------------------------------|----------------------|--------|-------|-----|
| WELL NO | DTW | DTP | PT | DTB | PARAMETER | U/M | DATA | OBS |
| | | | | | TIME | AM/PM | 14:20 | |
| | | | | | HOURS | # | 8336 | |
| | | | | | ENGINE RPM | RPM | 1800 | |
| | | | | | ENGINE VACUUM | IN HG | 1 | |
| | | | | | TK REC TEMP | F | 90 | |
| | | | | | AIR TEMP | F | 70 °F | |
| | | | | | AIR FLOW | CFM | 17 | |
| | | | | | VAPOR FLOW | CFM | 5 | |
| | | | | | FUEL FLOW | CFM/H | 70 | |
| | | | | | WELL VACUUM | IN H2O | 30 | |
| | | | | | GAS METER | | 87% | |
| | | | | | CATALYST IN | F | | |
| | | | | | CATALYST OUT | F | | |
| | | | | | EXHAUST HC | PPM/% | | |
| | | | | | EXHAUST CO | %PPM | | |
| | | | | | EXHAUST CO2 | % | | |
| | | | | | EXHAUST NOX | %PPM | | |
| | | | | | CATALYST REPLACEMENT | | | |
| | | | | | EXHAUST O2 | % | | |
| | | | | | INLET | PPM | | |
| | | | | | OUTLET | PPM | | |
| HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT | | | | | | | | |
| PARAMETER | U/M | LIMIT | DATA | | | | | |
| FLOWMETER | 248 | | | | | | | |
| ROTAMETER | | | | | | | | |
| VPI FLOW | | | | | | | | |
| VPI VACUUM | | | | | | | | |
| AIR COMPRES | | | | | | | | |
| VAPOR | | | | | | | | |
| INLET VAPOR | | | | | | | | |
| TEMPERATURE | | | | | | | | |
| LEL | | | | | | | | |
| COMMENTS: Water remediation system is not working Need more time to check the pump and installation | | | | | | | | |
| SERVICE TECHNICIAN FLORIN SF700 | | | | DATE 4.26.95 THRIFTY OIL CO # 054 | | | | |



EARTH MANAGEMENT CO.

Environmental Remediation

FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

| MAINFOLD | | | | | | |
|----------|-------|------|------|--------|----|----------|
| WELLS | WATER | | | VAPORS | | |
| | ON | RE 4 | RE 7 | WELLS | ON | RE 1 |
| OFF | | | | | | REG RE 7 |

| WELL MONITORING | | | | RSI SYSTEM | | | | |
|---|-----|-----|----|----------------------|----------------------|--------|-------|-----|
| WELL NO | DTW | DTP | PT | DTB | PARAMETER | U/M | DATA | OBS |
| | | | | | TIME | AM/PM | 12:00 | |
| | | | | | HOURS | # | 8318 | |
| | | | | | ENGINE RPM | RPM | 1800 | |
| | | | | | ENGINE VACUUM | IN HG | 1 | |
| | | | | | TK REC TEMP | F | 95 | |
| | | | | | AIR TEMP | F | 68°F | |
| | | | | | AIR FLOW | CFM | 14 | |
| | | | | | VAPOR FLOW | CFM | 7 | |
| | | | | | FUEL FLOW | CFM/H | 80 | |
| | | | | | WELL VACUUM | IN H2O | 30 | |
| | | | | | GAS METER | | 33% | |
| HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT | | | | PARAMETER | U/M | LIMIT | DATA | |
| FLOWMETER | 248 | | | CATALYST IN | | | | |
| ROTAMETER | | | | CATALYST OUT | | | | |
| VPI FLOW | | | | EXHAUST HC | PPM/% | | | |
| VPI VACUUM | | | | EXHAUST CO | %PPM | | | |
| AIR COMPRES | | | | EXHAUST CO2 | % | | | |
| VAPOR | | | | EXHAUST NOX | %PPM | | | |
| INLET VAPOR | | | | CATALYST REPLACEMENT | | | | |
| TEMPERATURE | | | | EXHAUST O2 | % | | | |
| LEL | | | | INLET | PPM | | | |
| | | | | OUTLET | PPM | | | |
| COMMENTS: the water remediation system is not work | | | | | | | | |
| SERVICE TECHNICIAN | | | | DATE 4-21-95 | THRIFTY OIL CO # 054 | | | |



EARTH MANAGEMENT CO.

Environmental Remediation

FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

| MAINFOLD | | | | | | |
|----------|-------|------|------|--------|------|------|
| WELLS | WATER | | | VAPORS | | |
| | RE 4 | RE 7 | RE 1 | RE 3 | RE 5 | RE 7 |
| ON | | | | | | |
| OFF | | | | x | x | x |

| WELL MONITORING | | | | RSI SYSTEM | | | | |
|---|---|-------|------|----------------------|----------------------|--------|-------|-----|
| WELL NO | DTW | DTP | PT | DTB | PARAMETER | U/M | DATA | OBS |
| | | | | | TIME | AM/PM | 11:30 | |
| | | | | | HOURS | # | | |
| | | | | | ENGINE RPM | RPM | 1900 | |
| | | | | | ENGINE VACUUM | IN HG | 1 | |
| | | | | | TK REC TEMP | F | 110 | |
| | | | | | AIR TEMP | F | 64°F | |
| | | | | | AIR FLOW | CFM | 14 | |
| | | | | | VAPOR FLOW | CFM | 8 | |
| | | | | | FUEL FLOW | CFM/H | 90 | |
| | | | | | WELL VACUUM | IN H2O | 30 | |
| | | | | | GAS METER | | 85% | |
| HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT | | | | CATALYST IN | F | | | |
| PARAMETER | U/M | LIMIT | DATA | CATALYST OUT | F | | | |
| FLOWMETER | 248 | | | EXHAUST HC | PPM/% | | | |
| ROTAMETER | | | | EXHAUST CO | %PPM | | | |
| VPI FLOW | | | | EXHAUST CO2 | % | | | |
| VPI VACUUM | | | | EXHAUST NOX | %PPM | | | |
| AIR COMPRES | | | | CATALYST REPLACEMENT | | | | |
| VAPOR | | | | EXHAUST O2 | % | | | |
| INLET VAPOR | | | | INLET | PPM | | | |
| TEMPERATURE | | | | OUTLET | PPM | | | |
| LEL | | | | | | | | |
| COMMENTS: | I need more information to resolve the water remediation system | | | | | | | |
| SERVICE TECHNICIAN | FLORIN SETCU | | | DATE 4.14.95 | THRIFTY OIL CO # 054 | | | |



EARTH MANAGEMENT CO.

Environmental Remediation

FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

| MAINFOLD | | | | | | | | | | | | | | |
|----------|-------|--|------|--|--|------|-------|--------|------|------|------|------|------|------|
| WELLS | WATER | | | | | | WELLS | VAPORS | | | | | | |
| ON | | | | | | | ON | RE 1 | RE 2 | RE 3 | RE 4 | RE 5 | RE 6 | RE 7 |
| OFF | | | RE 4 | | | RE 7 | OFF | X | | X | | | X | V |

| WELL MONITORING | | | | | RSI SYSTEM | | | | | | | |
|---|-----|-------|------|------------|----------------------|--------|-------|------------------------|--|--|--|--|
| WELL NO | DTW | DTP | PT | DTB | PARAMETER | U/M | DATA | OBS | | | | |
| | | | | | TIME | AM/PM | | | | | | |
| | | | | | HOURS | # | 13:30 | | | | | |
| | | | | | ENGINE RPM | RPM | 8126 | | | | | |
| | | | | | ENGINE VACUUM | IN HG | 1800 | | | | | |
| | | | | | TK REC TEMP | F | 1 | | | | | |
| | | | | | AIR TEMP | F | 110 | | | | | |
| | | | | | AIR FLOW | CFM | 72°F | | | | | |
| | | | | | VAPOR FLOW | CFM | 14 | | | | | |
| | | | | | FUEL FLOW | CFM/H | 9 | | | | | |
| | | | | | WELL VACUUM | IN H2O | 70 | | | | | |
| | | | | | GAS METER | | 30 | | | | | |
| | | | | | CATALYST IN | F | 30% | | | | | |
| | | | | | CATALYST OUT | F | | | | | | |
| | | | | | EXHAUST HC | PPM/% | | | | | | |
| | | | | | EXHAUST CO | %PPM | | | | | | |
| | | | | | EXHAUST CO2 | % | | | | | | |
| | | | | | EXHAUST NOX | %PPM | | | | | | |
| | | | | | CATALYST REPLACEMENT | | | | | | | |
| | | | | | EXHAUST O2 | % | | | | | | |
| | | | | | INLET | PPM | | | | | | |
| | | | | | OUTLET | PPM | | | | | | |
| HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT | | | | | | | | | | | | |
| PARAMETER | U/M | LIMIT | DATA | | | | | | | | | |
| FLOWMETER | | | | | | | | | | | | |
| ROTAMETER | 248 | | | | | | | | | | | |
| VPI FLOW | | | | | | | | | | | | |
| VPI VACUUM | | | | | | | | | | | | |
| AIR COMPRES | | | | | | | | | | | | |
| VAPOR | | | | | | | | | | | | |
| INLET VAPOR | | | | | | | | | | | | |
| TEMPERATURE | | | | | | | | | | | | |
| LEL | | | | | | | | | | | | |
| COMMENTS: | | | | | | | | | | | | |
| Water remediation system is not work | | | | | | | | | | | | |
| SERVICE TECHNICIAN _____ | | | | DATE _____ | | | | THRIFTY OIL CO # _____ | | | | |

13415 Carmenita Road/P.O. Box 2129, Santa Fe Springs, CA 90670

054



EARTH MANAGEMENT CO.

Environmental Remediation

FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

| MAINFOLD | | | | | | | |
|----------|-------|------|------|--------|------|------|-----------|
| WELLS | WATER | | | VAPORS | | | |
| | ON | RE 4 | RE 7 | ON | RE 1 | RE 3 | RE 6 RE 7 |
| OFF | | | | OFF | | | |

| WELL MONITORING | | | | RSI SYSTEM | | | |
|---|--|-------|------|----------------------|---------|------------------|-----|
| WELL NO | DTW | DTP | PT | PARAMETER | U/M | DATA | OBS |
| | | | | TIME | AM/PM | 15:20 | |
| | | | | HOURS | # | 8009 | |
| | | | | ENGINE RPM | RPM | 1900 | |
| | | | | ENGINE VACUUM | IN HG | 1 | |
| | | | | TK REC TEMP | F | 105 | |
| | | | | AIR TEMP | F | 68°F | |
| | | | | AIR FLOW | CFM | 16 | |
| | | | | VAPOR FLOW | CFM | 8 | |
| | | | | FUEL FLOW | CFM/H | 90 | |
| | | | | WELL VACUUM | IN H2O | 30 | |
| | | | | GAS METER | | 87% | |
| HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT | | | | CATALYST IN | F | | |
| PARAMETER | U/M | LIMIT | DATA | CATALYST OUT | F | | |
| FLOWMETER | | 248 | | EXHAUST HC | PPM/% | | |
| ROTAMETER | | | | EXHAUST CO | %PPM | | |
| VPI FLOW | | | | EXHAUST CO2 | % | | |
| VPI VACUUM | | | | EXHAUST NOX | %PPM | | |
| AIR COMPRES | | | | CATALYST REPLACEMENT | | | |
| VAPOR | | | | EXHAUST O2 | % | | |
| INLET VAPOR | | | | INLET | PPM | | |
| TEMPERATURE | | | | OUTLET | PPM | | |
| LEL | | | | | | | |
| COMMENTS: | Replacement hoses. Water is slow very slow | | | | | | |
| SERVICE TECHNICIAN | FLORIN SAFETON | | | DATE | 4.07.97 | THRIFTY OIL CO # | 254 |

APPENDIX B



LABORATORY ANALYSIS RESULTS

Page 1

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS# 054
Sample Matrix: Water
Method: EPA 8015M (Gasoline)

AA Project No.: A135054-12
Date Received: 06/16/95
Date Reported: 06/23/95
Units: ug/L

| AA I.D. No. | Client I.D. No. | Date Sampled | Date Analyzed | Results | MRL |
|-------------|-----------------|--------------|---------------|---------|-----|
| 34401 | Trip blank | 06/15/95 | 06/19/95 | <100 | 100 |
| 34402 | RE-2 | 06/15/95 | 06/19/95 | 130 | 100 |
| 34403 | PW-1 | 06/15/95 | 06/19/95 | 260 | 100 |
| 34404 | PW-2 | 06/15/95 | 06/19/95 | 1700 | 100 |
| 34405 | RS-10 | 06/15/95 | 06/19/95 | <100 | 100 |
| 34406 | RS-8 | 06/15/95 | 06/19/95 | <100 | 100 |
| 34407 | RS-9 | 06/15/95 | 06/19/95 | 3200 | 100 |
| 34408 | RE-6 | 06/15/95 | 06/21/95 | 2300 | 100 |
| 34409 | RE-5 | 06/15/95 | 06/21/95 | 3200 | 100 |

MRL: Method Reporting Limit

<: Not detected at or above the value of the concentration indicated.

George Havalias
Laboratory Director



LABORATORY ANALYSIS RESULTS

Page 1

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS# 054
Sample Matrix: Water
Method: EPA 8020 (BTEX)

AA Project No.: A135054-12
Date Received: 06/16/95
Date Reported: 06/23/95
Units: ug/L

| Date Sampled: | 06/15/95 | 06/15/95 | 06/15/95 | 06/15/95 | |
|----------------|------------|----------|----------|----------|-----|
| Date Analyzed: | 06/19/95 | 06/19/95 | 06/19/95 | 06/19/95 | |
| AA ID No.: | 34401 | 34402 | 34403 | 34404 | |
| Client ID No.: | Trip blank | RE-2 | PW-1 | PW-2 | MRL |

Compounds:

| | | | | | |
|--------------|------|------|------|------|-----|
| Benzene | <0.5 | <0.5 | 0.8 | 5.6 | 0.5 |
| Ethylbenzene | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 |
| Toluene | <0.5 | <0.5 | 0.6 | <0.5 | 0.5 |
| Xylenes | <1 | <1 | 3.2 | 1.6 | 1 |

George Havalas
Laboratory Director



LABORATORY ANALYSIS RESULTS

Page 2

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS# 054
Sample Matrix: Water
Method: EPA 8020 (BTEX)

AA Project No.: A135054-12
Date Received: 06/16/95
Date Reported: 06/23/95
Units: ug/L

| | | | | | |
|----------------|----------|----------|----------|----------|-----|
| Date Sampled: | 06/15/95 | 06/15/95 | 06/15/95 | 06/15/95 | |
| Date Analyzed: | 06/19/95 | 06/19/95 | 06/19/95 | 06/21/95 | |
| AA ID No.: | 34405 | 34406 | 34407 | 34408 | |
| Client ID No.: | RS-10 | RS-8 | RS-9 | RE-6 | MRL |

Compounds:

| | | | | | |
|--------------|------|------|-----|-----|-----|
| Benzene | <0.5 | 1.0 | 2.2 | 91 | 0.5 |
| Ethylbenzene | <0.5 | <0.5 | 4.3 | 0.7 | 0.5 |
| Toluene | <0.5 | <0.5 | 5.3 | 1.1 | 0.5 |
| Xylenes | <1 | <1 | 3.1 | 97 | 1 |



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Laboratory Director



LABORATORY ANALYSIS RESULTS

Page 3

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS# 054
Sample Matrix: Water
Method: EPA 8020 (BTEX)

AA Project No.: A135054-12
Date Received: 06/16/95
Date Reported: 06/23/95
Units: ug/L

| | | |
|-----------------------|----------|------------|
| Date Sampled: | 06/15/95 | |
| Date Analyzed: | 06/21/95 | |
| AA ID No.: | 34409 | |
| Client ID No.: | RE-5 | MRL |

Compounds:

| | | |
|--------------|-----|-----|
| Benzene | 820 | 0.5 |
| Ethylbenzene | 6.2 | 0.5 |
| Toluene | 53 | 0.5 |
| Xylenes | 74 | 1 |

MRL: Method Reporting Limit

<: Not detected at or above the value of the concentration indicated.

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Laboratory Director



LABORATORY QA/QC REPORT

Page 1

Client: Thrifty Oil Company
Project Name: SS# 054
Method: EPA 8020 (BTEX)
Sample ID: Matrix Spike
Concentration: 20 ug/L

AA ID No.: 34416
Project No.: N/A
AA Project No.: A135054-12
Date Analyzed: 06/19/95
Date Reported: 06/23/95

| Compounds | Result (ug/L) | Spike Recovery (%) | Dup. Result (ug/L) | Spike/Dup. Recovery (%) | RPD (%) | Accept.Rec. Range (%) |
|--------------|------------------|--------------------------|--------------------------|-------------------------------|------------|--------------------------|
| Benzene | 15.68 | 78 | 17.39 | 87 | 11 | 65 - 135 |
| Ethylbenzene | 15.40 | 77 | 13.86 | 69 | 11 | 77 - 123 |
| Toluene | 18.32 | 92 | 17.22 | 86 | 7 | 66 - 134 |
| Xylenes | 16.17 | 81 | 14.52 | 73 | 10 | 73 - 127 |

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Laboratory Director



LABORATORY QA/QC REPORT

Page 1

Client: Thrifty Oil Company
Project Name: SS# 054
Method: EPA 8020 (BTEX)
Sample ID: Matrix Spike
Concentration: 20 ug/L

AA ID No.: 34507
Project No.: N/A
AA Project No.: A135054-12
Date Analyzed: 06/21/95
Date Reported: 06/23/95

| Compounds | Result (ug/L) | Spike Recovery (%) | Dup. Result (ug/L) | Spike/Dup. Recovery (%) | RPD (%) | Accept.Rec. Range (%) |
|--------------|------------------|--------------------------|--------------------------|-------------------------------|------------|--------------------------|
| Benzene | 18.2 | 91 | 17.67 | 88 | 3 | 65 - 135 |
| Ethylbenzene | 21.1 | 106 | 20.83 | 104 | 2 | 77 - 123 |
| Toluene | 22.0 | 110 | 21.47 | 107 | 3 | 66 - 134 |
| Xylenes | 21.4 | 107 | 21.07 | 105 | 2 | 73 - 127 |

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LABORATORY QA/QC REPORT

Page 1

Client: Thrifty Oil Company
Project Name: SS# 054
Method: EPA 8015M (Gasoline)
Sample ID: Matrix Spike
Concentration: 500 ug/L

AA ID No.: 34416
Project No.: N/A
AA Project No.: A135054-12
Date Analyzed: 06/19/95
Date Reported: 06/23/95

| Compounds | Result (ug/L) | Spike Recovery (%) | Dup. Result (ug/L) | Spike/Dup. Recovery (%) | RPD (%) | Accept.Rec. Range (%) |
|-------------------------|------------------|--------------------------|--------------------------|-------------------------------|------------|--------------------------|
| Gasoline Range Organics | 342 | 68 | 610 | 122 | 57 | 51 - 149 |

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Laboratory Director



LABORATORY QA/QC REPORT

Page 1

Client: Thrifty Oil Company
Project Name: SS# 054
Method: EPA 8015M (Gasoline)
Sample ID: Matrix Spike
Concentration: 500 ug/L

AA ID No.: 34507
Project No.: N/A
AA Project No.: A135054-12
Date Analyzed: 06/21/95
Date Reported: 06/23/95

| Compounds | Result (ug/L) | Spike Recovery (%) | Dup. Result (ug/L) | Spike/Dup. Recovery (%) | RPD (%) | Accept.Rec. Range (%) |
|-------------------------|------------------|--------------------------|--------------------------|-------------------------------|------------|--------------------------|
| Gasoline Range Organics | 467 | 93 | 457 | 91 | 2 | 51 - 149 |

George Havalas
Laboratory Director