94 MMR 10 PM 12: 45

March 9, 1994

Alameda County Health Care Services 80 Swan Way, Room 200 Oakland, California 94621

RE: Unocal Service Station #6034 4700 First Street Livermore, California

Per the request of the Unocal Corporation Project Manager, Ms. Tina R. Berry, enclosed please find our report (MPDS-UN6034-01) dated February 15, 1994, for the above referenced site.

Should you have any questions regarding the reporting of data, please feel free to call our office at (510) 602-5120. Any other questions may be directed to the Project Manager at (510) 277-2321.

Hardins

Sincerely,

MPDS Services, Inc.

Deanna L. Harding Technical Assistant

/dlh

Enclosure

cc: Ms. Tina R. Berry

# MPDS SERVICES, INCORPORATED

MPDS-UN6034-01 February 15, 1994

Unocal Corporation 2000 Crow Canyon Place, Suite 400 P.O. Box 5155 San Ramon, California 94583

Attention: Ms. Tina R. Berry

RE: Quarterly Data Report

Unocal Service Station #6034

4700 First Street

Livermore, California

Dear Ms. Berry:

This data report presents the results of the most recent quarter of monitoring and sampling of the monitoring wells at the referenced site by MPDS Services, Inc.

#### RECENT FIELD ACTIVITIES

The Unocal monitoring wells that were monitored and sampled during this quarter are indicated in Table 1. Prior to sampling, the Unocal wells were checked for depth to water and the presence of free product or sheen. The monitoring data and the ground water elevations for the Unocal wells are summarized in Table 1. The ground water flow direction at the Unocal site during the most recent quarter is shown on the attached Figure 1.

A joint monitoring and sampling event was conducted with the consultant for the nearby Chevron site on January 20, 1994. The monitoring data collected for the monitoring wells (provided by Groundwater Technology, Inc.) are summarized in Table 2. The ground water flow direction at the Chevron site during the most recent quarter is also shown on the attached Figure 1.

Ground water samples were collected from the Unocal wells on January 20, 1994. Prior to sampling, the wells were each purged of between 6 and 7.5 gallons of water. Samples were then collected using a clean Teflon bailer. The samples were decanted into clean VOA vials and/or one-liter amber bottles, as appropriate, which were then sealed with Teflon-lined screw caps, labeled, and stored in a cooler, on ice, until delivery to a state-certified laboratory.

MPDS-UN6034-01 February 15, 1994 Page 2

#### ANALYTICAL RESULTS

The ground water samples collected from the Unocal wells were analyzed at Sequoia Analytical Laboratory and were accompanied by properly executed Chain of Custody documentation. The analytical results of the ground water samples collected from the Unocal wells to date are summarized in Table 3. The concentrations of Total Petroleum Hydrocarbons (TPH) as gasoline and benzene detected in the ground water samples collected from the Unocal wells this quarter are shown on the attached Figure 2. Copies of the laboratory analytical results and the Chain of Custody documentation for the Unocal wells are attached to this report.

### **DISTRIBUTION**

A copy of this report should be sent to the Alameda County Health Care Services Agency, and the Regional Water Quality Control Board, San Francisco Bay Region.

If you have any questions regarding this report, please do not hesitate to call at (510) 602-5120.

Sincerely,

MPDS Services, Inc.

Joel G. Greger, C.E.G.

Senior Engineering Geologist

License No. EG 1633 Exp. Date 6/30/94

/dlh

Attachments: Tables 1, 2 & 3

Location Map Figures 1 & 2

Laboratory Analyses

Chain of Custody documentation

cc: Mr. Thomas J. Berkins, Kaprealian Engineering, Inc.

TABLE 1
SUMMARY OF MONITORING DATA
UNOCAL MONITORING WELLS

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|---------------------------------|---------------------------|-----------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                 | Ground Water<br>Elevation | Depth to<br>Water                             | Product<br>Thickness |                                                                                                                | Water<br>Purged | Total Well Depth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Well #                          | (feet)                    | (feet)◆                                       | (feet)               | Sheen                                                                                                          | (qallons)       | (feet)◆                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                 |                           |                                               |                      | 88 <del>5 </del>                                                                                               |                 | MSS. Transcription in the Committee of t |
|                                 | (Monit                    | ored and Sa                                   | ampled on Ja         | nuary 2                                                                                                        | 0, 1994)        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| MW1*                            | 504.99                    | 15.65                                         | 0                    |                                                                                                                | 0               | 27.90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| MW2                             | 504.80                    | 15.02                                         | 0                    | No                                                                                                             | 7.5             | 25.64                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| MW3*                            | 505.29                    | 14.37                                         | 0                    |                                                                                                                | 0               | 25.40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| MW4                             | 505.46                    | 14.15                                         | 0                    | No                                                                                                             | 7.5             | 25.45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| MW5                             | 504.88                    | 15.39                                         | 0                    | No                                                                                                             | 6               | 23.58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| MW6                             | 504.61                    | 14.14                                         | 0                    | No                                                                                                             | 6.5             | 23.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| MW7                             | 504.61                    | 14.22                                         | 0                    | No                                                                                                             | 6.5             | 23.64                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                 |                           |                                               | ampled on Oc         |                                                                                                                |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| MW1*                            | 504.95                    | 15.69                                         | 0                    | <b></b>                                                                                                        | 0               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| MW2                             | 504.74                    | 15.08                                         | 0                    | No                                                                                                             | 8               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| МWЗ                             | 505.24                    | 14.42                                         | 0                    | No                                                                                                             | 8               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| MW4                             | 505.45                    | 14.16                                         | 0                    | No                                                                                                             | 8               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| MW5                             | 504.71                    | 15.56                                         | 0                    | No                                                                                                             | 8               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| MW6                             | 504.55                    | 14.20                                         | 0                    | No                                                                                                             | 8               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| MW7                             | 504.54                    | 14.29                                         | 0                    | No                                                                                                             | 8               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                 | (Mon                      | itored and                                    | Sampled on S         | July 20                                                                                                        | , 1993)         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| MW1*                            | 502.84                    | 18.04                                         | 0                    |                                                                                                                | О               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| MW2                             | 502.76                    | 17.41                                         | 0                    | No                                                                                                             | 6               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| MW3                             | 503.01                    | 16.90                                         | 0                    | No                                                                                                             | 6.5             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| MW4 *                           | 503.77                    | 16.35                                         | 0                    | No                                                                                                             | 0               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| MW5                             | 503.20                    | 17.38                                         | 0                    | No                                                                                                             | 5               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| MW6                             | WELL WAS OBSTR            | UCTED                                         |                      |                                                                                                                |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| MW7                             | 502.69                    | 16.68                                         | 0                    | No                                                                                                             | 5.5             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## TABLE 1 (Continued)

# SUMMARY OF MONITORING DATA UNOCAL MONITORING WELLS

| Well # | Ground Water<br>Elevation<br>(feet) | Depth to<br>Water<br>(feet)◆ | Product<br>Thickness<br>(feet)      | <u>Sheen</u> | Water<br>Purged<br>(gallons)          | Total Well<br>Depth<br>(feet)◆ |
|--------|-------------------------------------|------------------------------|-------------------------------------|--------------|---------------------------------------|--------------------------------|
|        | (Mor                                | nitored and                  | Sampled on A                        | pril 2       | 2, 1993)                              |                                |
| MW1*   | 505.41                              | 15.47                        | 0                                   |              | 0                                     |                                |
| MW2    | 505.19                              | 14.98                        | 0                                   | No           | 10                                    |                                |
| MW3    | 505.58                              | 14.33                        | 0                                   | No           | 10                                    |                                |
| MW4    | 505.82                              | 14.30                        | 0                                   | No           | 10                                    |                                |
| MW5    | 505.34                              | 15.24                        | 0                                   | No           | 10                                    |                                |
| MW6    | WELL WAS DRY                        |                              |                                     |              |                                       |                                |
| MW7    | 505.12                              | 14.25                        | 0                                   | No           | 10                                    |                                |
|        |                                     | Well #                       | Well Cover<br>Elevation<br>(feet)** |              | Well Casing<br>Elevation<br>(feet)*** |                                |
|        |                                     | MW1                          | 520.88                              |              | 520.64                                |                                |
|        |                                     | MW2                          | 520.17                              |              | 519.82                                |                                |
|        |                                     | MW3                          | 519.91                              |              | 519.66                                |                                |
|        |                                     | MW4                          | 520.12                              |              | 519.61                                |                                |
|        |                                     | MW5                          | 520.58                              |              | 520.27                                |                                |
|        |                                     | MW6                          | 519.34                              |              | 518.75                                |                                |
|        |                                     | MW7                          | 519.37                              |              | 518.83                                |                                |

- The depth to water level and total well depth measurements were taken from the top of the well casings. Prior to October 20, 1993, the water level and total well depth measurements were taken from the top of the well covers.
- \* Monitored only.
- \*\* The elevations of the top of the well covers have been surveyed relative to Mean Sea Level (MSL), per the City of Livermore Benchmark No. C-18-5 (elevation = 551.77 MSL).
- \*\*\* Relative to MSL.
- Sheen determination was not performed.

Note: Monitoring data prior to January 20, 1994, were provided by Kaprealian Engineering, Inc.

TABLE 2
SUMMARY OF MONITORING DATA
CHEVRON MONITORING WELLS

| <u>Well</u> | Ground Water<br>Elevation<br>(feet) | Depth to<br>Water<br><u>(feet)</u> | Well Casing<br>Elevation<br>(feet above MSL) |
|-------------|-------------------------------------|------------------------------------|----------------------------------------------|
|             | (Monitored on Janua                 | ry 20, 1994, by GTI                | [)                                           |
| Cl          | 507.13                              | 13.26                              | 520.39                                       |
| C2          | 507.16                              | 13.60                              | 520.76                                       |
| C3          | 507.30                              | 14.01                              | 521.31                                       |
| C5          | 507.22                              | 13.60                              | 520.82                                       |
| C6          | 506.94                              | 12.68                              | 519.62                                       |
| C7          | 507.11                              | 13.19                              | 520.30                                       |
| C8          | 506.23                              | 13.51                              | 519.74                                       |
| C9          | 506.88                              | 12.84                              | 519.72                                       |
| C10         | 506.02                              | 14.39                              | 520.41                                       |
| C11         | 505.92                              | 14.12                              | 520.04                                       |
| C12         | 505.77                              | 14.05                              | 519.82                                       |
| C13         | 507.59                              | 14.65                              | 522.24                                       |
| C14         | 507.94                              | 12.14                              | 520.08                                       |
| C15         | 507.40                              | 15.01                              | 522.41                                       |
| C16         | 506.20                              | 13.48                              | 519.68                                       |
| C17         | 506.35                              | 14.47                              | 520.82                                       |
| C18         | NOT MONITORED - V                   | VELL PAVED OVER                    | 518.96                                       |
| C19         | 506.15                              | 14.84                              | 520.99                                       |
|             |                                     |                                    |                                              |

TABLE 3

SUMMARY OF LABORATORY ANALYSES
WATER
UNOCAL MONITORING WELLS

| Date     | Well #              | TPH as<br>Diesel | TPH as<br>Gasoline | Benzene  | Toluene | Ethyl- | Xylenes | MTBE           |
|----------|---------------------|------------------|--------------------|----------|---------|--------|---------|----------------|
|          | Obec modern in mode |                  |                    |          |         |        |         |                |
| 1/20/94  | MW2                 |                  | 20,000             | ND       | ND      | 270    | 3,300   |                |
| 1/20/04  | MW3                 | SAMPLED          | SEMI-ANNUA         |          | ND      | 270    | 3,300   |                |
|          | MW4                 |                  | 1,200              | ND       | 2.6     | 4.7    | 7.4     | ~ -            |
|          | MW5                 |                  | ND                 | ND       | ND      | ND     | ND      |                |
|          | MW6                 |                  | ND                 | ND       | ND      | ND     | ND      |                |
|          | MW7                 |                  | ND                 | ND       | ND      | ND     | ND      |                |
| 10/20/93 | MW2                 |                  | 12,000             | 27       | 10      | 100    | 3,000   |                |
|          | EWM                 |                  | ND                 | ND       | ND      | ND     | ND      |                |
|          | MW4                 |                  | 640                | ND       | 2.5     | 2.3    | 1.9     |                |
|          | MW5                 |                  | 110                | 0.80     | ND      | ND     | ND      |                |
|          | MW6                 | <del>-</del> -   | ND                 | ND       | ND      | ND     | ND      | - <del>-</del> |
|          | MW7                 |                  | ND                 | ND       | ND      | ND     | ND      |                |
| 7/20/93  | MW2                 |                  | 25,000             | 68       | 94      | 1,000  | 6,200   |                |
|          | EWM                 |                  | ND                 | ND       | ND      | ND     | ND      |                |
|          | MW4                 | NOT SAMP         |                    | LING ACC |         |        |         |                |
|          | MW5                 |                  | 89                 | 1.1      | 0.51    | ND     | 1.8     | 2.2            |
|          | MW6                 | WELL WAS         |                    |          |         |        |         |                |
|          | MW7                 |                  | ND                 | ND       | ND      | ND     | ND      |                |
| 4/22/93  | MW2                 |                  | 49,000             | 150      | 1,000   | 3,000  | 18,000  |                |
|          | MW3                 |                  | ND                 | ND       | ND      | ND     | ND      |                |
|          | MW4                 |                  | 1,100              | 8.8      | 1.0     | 7.2    | 6.0     |                |
|          | MW5                 |                  | 94                 | 1.2      | ND      | ND     | 1.3     | 0.82           |
|          | MW6                 | WELL WA          |                    |          |         |        | 3.770   |                |
|          | MW7                 |                  | ND                 | ND       | ND      | ND     | ND      | - **           |
| 1/14/93  | MW2                 |                  | 19,000             | 75       | 430     | 900    | 8,400   | - <b>-</b>     |
|          | MW3                 |                  | ND                 | ND       | ND      | ND     | ND      |                |
|          | MW4                 |                  | 920                | ND       | 6.3     | 12     | 3.9     |                |
|          | MW5                 |                  | 91                 | ND       | 0.53    | 1.2    | 11      | 1.2            |
|          | MW6                 | WELL W           | AS OBSTRUC         |          | 175     | ).TE   | NTT-    |                |
|          | MW7                 |                  | ND                 | ND       | ND      | ND     | ND      |                |

# TABLE 3 (Continued)

# SUMMARY OF LABORATORY ANALYSES WATER UNOCAL MONITORING WELLS

| 2002000 02000000 02000000 000000 000000 | ownowana wasangaya | 5000 M000 10 410 4000 000 0 400 0 200 0 0 0 0 0 0 0 0 0 | ******************************* | oppopulace by a cable (Mather) file | sasaya ay a kansaanan ka ka ka | economico ogusourá (201.000) (19 | POURTOR SON SON SOUS BOUGE ( | - Asadasan, 1, masasa |
|-----------------------------------------|--------------------|---------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------------|----------------------------------|------------------------------|-----------------------|
|                                         | 1.7 L T T II       | TPH as                                                  | TPH as                          | nawases.                            | mal                            | Ethyl-<br>benzene                | <u>Xylenes</u>               | MTBE                  |
| <u>Date</u>                             | Well #             | Diesel                                                  | <u>Gasoline</u>                 | <u>Benzene</u>                      | TOTUENE                        | <u> Demzene</u>                  | Ayrenes                      | MIDE                  |
|                                         |                    |                                                         |                                 |                                     |                                |                                  |                              |                       |
| 10/16/92                                | MW2                |                                                         | 290                             | 2.3                                 | ND                             | 5.1                              | 15                           |                       |
|                                         | MW3                |                                                         | ND                              | ND                                  | ND                             | ND                               | ND                           | <u></u>               |
|                                         | MW4                |                                                         | 300                             | 2.1                                 | ND                             | 4.8                              | 13                           |                       |
|                                         | MW5                |                                                         | 180                             | 7.8                                 | 1.1                            | 17                               | 6.4                          | 2.0                   |
|                                         | MW6                | WELL WA                                                 | S OBSTRUC                       | TED                                 |                                |                                  |                              |                       |
|                                         | MW7                |                                                         | ND                              | ND                                  | ND                             | ND                               | ND                           |                       |
| 7/07/92                                 | MW2                |                                                         | 44,000                          | 160                                 | 1,100                          | 1,000                            | 17,000                       |                       |
| ,,0,,52                                 | MW3                | <del>-</del> -                                          | ND                              | ND                                  | ND                             | ND                               | ND                           |                       |
|                                         | MW4                |                                                         | 340                             | ND                                  | 2.2                            | 2.4                              | 2.4                          |                       |
|                                         | MW5                |                                                         | 76                              | 0.48                                | 1.1                            | 0.32                             | 1.3                          | 1.5                   |
|                                         | MW6                |                                                         | ND                              | ND                                  | ND                             | ND                               | ND                           |                       |
|                                         | MW7                | - <del>-</del>                                          | ND                              | ND                                  | ND                             | ND                               | ND                           |                       |
|                                         |                    |                                                         |                                 |                                     |                                |                                  | 100                          |                       |
| 4/06/92                                 | MW2                | <del></del>                                             | 760                             | 6.3                                 | 2.1                            | ND                               | 130                          |                       |
|                                         | MM3                |                                                         | ND                              | ND                                  | ND                             | ND                               | ND                           |                       |
|                                         | MW4                |                                                         | 660                             | 1.3                                 | 3.8                            | 2.9                              | 4.1                          | <del>-</del> -        |
|                                         | MW5                |                                                         | 240♦                            | ND                                  | ND                             | 0.35                             | ND                           | <del></del>           |
|                                         | MW6                |                                                         | ND                              | ND                                  | ND                             | ND                               | ND                           |                       |
|                                         | MW7                |                                                         | ND                              | ND                                  | ND                             | ND                               | ND                           |                       |
| 1/14/92                                 | MW2                |                                                         | 5,600                           | 36                                  | 120                            | 450                              | 2,600                        |                       |
|                                         | EWM                |                                                         | ND                              | ND                                  | ND                             | ND                               | ND                           |                       |
|                                         | MW4                | - <b>-</b>                                              | 1,500                           | 4.2                                 | 7.1                            | 18                               | 9.2                          |                       |
|                                         | MW5                |                                                         | 99                              | 1.0                                 | 1.2                            | ND                               | 0.32                         |                       |
|                                         | МWб                |                                                         | ND                              | ND                                  | ND                             | ND                               | ND                           |                       |
|                                         | MW7                |                                                         | ND                              | ND                                  | ND                             | ND                               | ND                           |                       |
| 10/14/91                                | MW2                | <b>-</b> -                                              | 11,000                          | 79                                  | 130                            | 660                              | 4,700                        |                       |
| ,, <del>-</del>                         | MW3                |                                                         | ND                              | ND                                  | ND                             | ND                               | ND                           |                       |
|                                         | MW4                | <b>-</b> -                                              | 880                             | 3.8                                 | 2.2                            | 8.6                              | 5.8                          |                       |
|                                         | MW5                |                                                         | 660                             | 55                                  | 4.4                            | 50                               | 66                           |                       |
|                                         | MW6                | <del></del> -                                           | ND                              | ND                                  | ND                             | ND                               | ND                           |                       |
|                                         | MW7                |                                                         | ND                              | ND                                  | ND                             | ND                               | ND                           |                       |
|                                         |                    |                                                         |                                 |                                     |                                |                                  |                              |                       |

TABLE 3 (Continued)

# SUMMARY OF LABORATORY ANALYSES WATER UNOCAL MONITORING WELLS

|             |        | TPH as         | TPH as          |                |                | Ethyl- |                |                |
|-------------|--------|----------------|-----------------|----------------|----------------|--------|----------------|----------------|
| <u>Date</u> | Well # | <u>Diesel</u>  | <u>Gasoline</u> | <u>Benzene</u> | <u>Toluene</u> |        | <u>Xylenes</u> | MTBE           |
|             |        |                |                 |                |                |        |                | :20:20.        |
| 7/10/91     | MW1*   | ND             | ND              | ND             | ND             | ND     | ND             |                |
|             | MW2    |                | 14,000          | 70             | 160            | 570    | 5,400          |                |
|             | MW3    |                | ND              | ND             | ND             | ND     | ND             |                |
|             | MW4    |                | 830             | 8.4            | 19_            | 7.7    | 7.2            |                |
|             | MW5    |                | 220             | 5.1            | 8.7            | 9.1    | 9.7            |                |
|             | MW6    |                | ND              | ND             | ND             | ND     | ND             |                |
|             | MW7    |                | ND              | ND             | ND             | ND     | ND             |                |
| 4/10/91     | MW1*   | ND             | ND              | ND             | ND             | ND     | ND             |                |
|             | MW2    |                | 22,000          | 170            | 190            | 490    | 6,200          |                |
|             | MW3    |                | ND              | ND             | ND             | ND     | ND             |                |
|             | MW4    |                | 950             | 0.84           | 4.3            | 9.6    | 5.0            |                |
|             | MW5    |                | 630             | 35             | 14             | 47     | 30             |                |
|             | MW6    |                | ND              | ND             | ND             | ND     | ND             |                |
|             | MW7    |                | ND              | ND             | ND             | ND     | ND             |                |
| 12/24/90    | MW1*   | ND             | ND              | ND             | ND             | ND     | 0.40           |                |
|             | MW2    |                | 32,000          | 440            | 340            | 460    | 13,000         |                |
|             | MW3    |                | ND              | ND             | ND             | ND     | ND             |                |
|             | MW4    |                | 1,400           | ND             | 8.7            | 15     | 10             |                |
| 9/07/90     | MW1*   | ND             | ND              | ND             | 1.2            | ND     | ND             |                |
|             | MW2    |                | ND              | ND             | 1.5            | ND     | ND             | <del></del>    |
|             | MW3    |                | 1,100           | 11             | ND             | 6.6    | 16             |                |
|             | MW4    |                | 15,000          | 100            | 140            | 210    | 4,600          |                |
| 6/05/90     | MW1*   | ND             | ND              | ND             | ND             | ND     | ND             |                |
|             | MW2    |                | 31,000          | 250            | 460            | 950    | 9,200          |                |
|             | MW3    |                | ND              | ND             | ND             | ND     | ND             |                |
|             | MW4    |                | 1,400           | 1.2            | 4.7            | 24     | 12             |                |
| 3/08/90     | MW1**  | ND             | ND              | ND             | ND             | ND     | ND             |                |
|             | MW2    | <del>-</del> - | 26,000          | 230            | 410            | 1,300  | 2,100          |                |
|             | MW3    | <del>-</del> - | ND              | ND             | ND             | ND     | ND             |                |
|             | MW4    |                | 1,200           | 18             | 8.4            | 37     | 28             |                |
| 11/18/89    | MW1*** | 400            | ND              | ND             | ND             | ND     | ND             |                |
|             | MW2    |                | 53,000          | 540            | 500            | 130    | 22,000         | <del>-</del> - |
|             | MW3    |                | ND              | 0.35           | ND             | ND     | ND             | - <b>-</b>     |
|             | MW4    |                | 990             | 9.8            | 10             | 7.1    | 4.7            |                |

## TABLE 3 (Continued)

# SUMMARY OF LABORATORY ANALYSES WATER UNOCAL MONITORING WELLS

- ♦ Sequoia Analytical Laboratory reported that the hydrocarbons detected did not appear to be gasoline.
- \* TOG and all EPA method 8010 constituents were non-detectable.
- \*\* TOG was detected at 4.7 mg/L. All EPA method 8010 compounds were nondetectable.
- \*\*\* TOG was detected at 3.1 mg/L. All EPA method 8010 compounds were non-detectable, except for trichloroethene at 0.55  $\mu$ g/L.

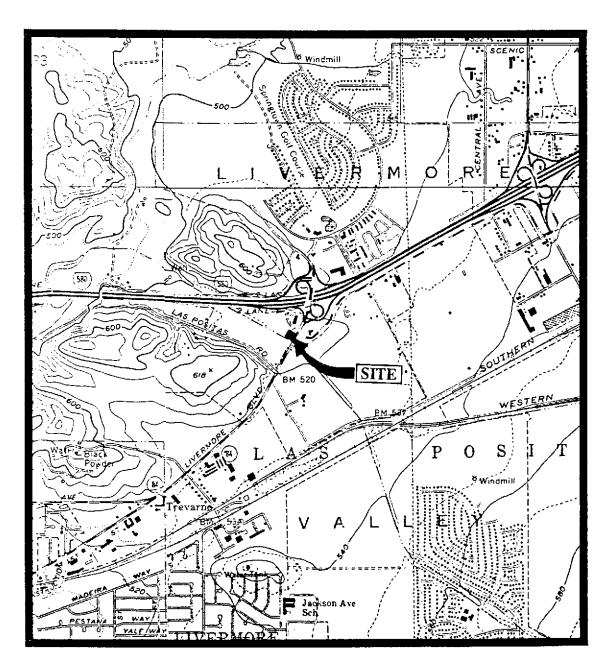
ND = Non-detectable.

-- Indicates analysis was not performed.

mg/L = milligrams per liter.

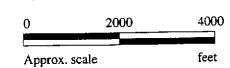
Results are in micrograms per liter ( $\mu g/L$ ), unless otherwise indicated.

Note: Laboratory analyses data prior to January 20, 1994, were provided by Kaprealian Engineering, Inc.



**↑**N

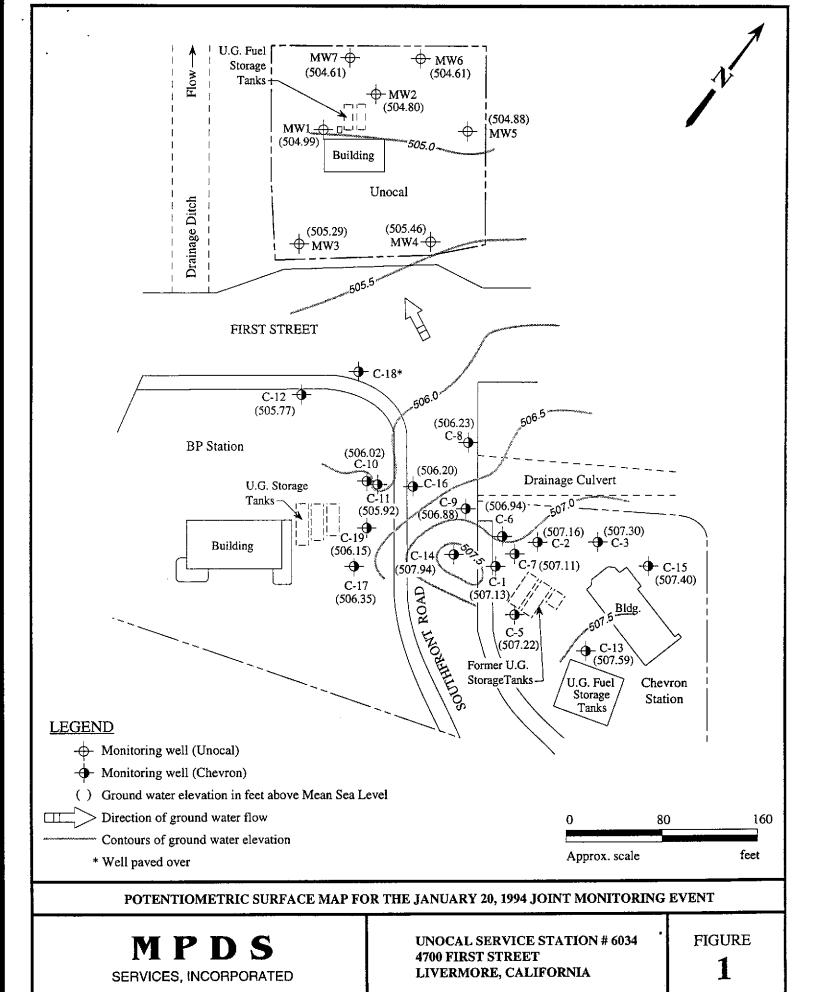
Base modified from 7.5 minute U.S.G.S. Livermore and Altamont Quadrangles (photorevised 1980 and 1981, respectively)

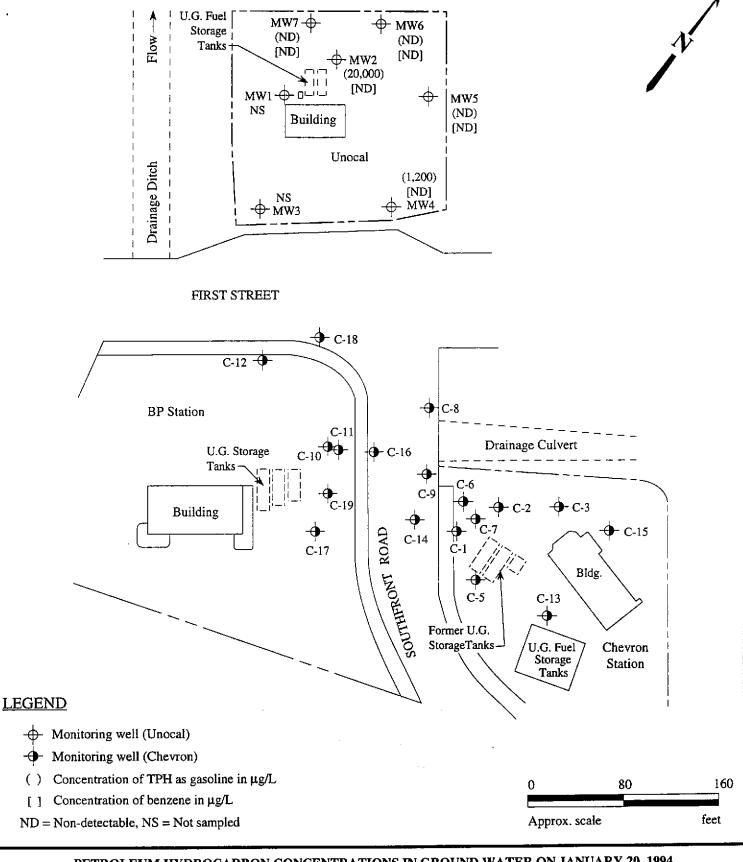


MPDS

SERVICES, INCORPORATED

UNOCAL SERVICE STATION # 6034 4700 FIRST STREET LIVERMORE, CA LOCATION MAP





# PETROLEUM HYDROCARBON CONCENTRATIONS IN GROUND WATER ON JANUARY 20, 1994

# MPDS

SERVICES, INCORPORATED

**UNOCAL SERVICE STATION # 6034** 4700 FIRST STREET LIVERMORE, CALIFORNIA

**FIGURE** 

MPDS Services, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520 Client Project ID: Sample Matrix: Analysis Method: Unocal #6034, 4700 1st St., Livermore

Water EPA 5030/8015/8020 Sampled: Received: Jan 20, 1994 Jan 20, 1994

Attention: Avo Avedissian

First Sample #:

Reported:

Feb 3, 1994

### TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

401-1070

| Analyte                   | Reporting<br>Limit<br>μg/L | Sample<br>I.D.<br>401-1070<br>MW-2 | Sample<br>I.D.<br>401-1071<br>MW-4 | Sample<br>I.D.<br>401-1072<br>MW-5 | Sample<br>I.D.<br>401-1073<br>MW-6 | Sample<br>I.D.<br>401-1074<br>MW-7 | Sample<br>I.D.<br>Method<br>Blank |
|---------------------------|----------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|
| Purgeable<br>Hydrocarbons | 50                         | 20,000                             | 1,200                              | N.D.                               | N.D.                               | N.D.                               |                                   |
| Benzene                   | 0.5                        | N.D.                               | N.D.                               | N.D.                               | N.D.                               | N.D.                               |                                   |
| Toluene                   | 0.5                        | N.D.                               | 2.6                                | N.D.                               | N.D.                               | N.D.                               |                                   |
| Ethyl Benzene             | 0.5                        | 270                                | 4.7                                | N.D.                               | N.D.                               | N.D.                               |                                   |
| Total Xylenes             | 0.5                        | 3,300                              | 7.4                                | N.D.                               | N.D.                               | N.D.                               |                                   |
| Chromatogram Pat          | tern:                      | Gasoline                           | Gasoline                           |                                    |                                    |                                    |                                   |

### **Quality Control Data**

| Report Limit Multiplication Factor:             | 100     | 4.0     | 1.0     | 1.0     | 1.0     | 1.0     |
|-------------------------------------------------|---------|---------|---------|---------|---------|---------|
| Date Analyzed:                                  | 1/26/94 | 1/27/94 | 1/26/94 | 1/26/94 | 1/26/94 | 1/26/94 |
| Instrument Identification:                      | HP-4    | HP-4    | HP-2    | HP-2    | HP-5    | HP-2    |
| Surrogate Recovery, %:<br>(QC Limits = 70-130%) | 92      | 89      | . 101   | 94      | 96      | 110     |

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard. Analytes reported as N.D. were not detected above the stated reporting limit.

**SEQUOIA ANALYTICAL** 

Alar B. Kemp Project Manager

2401 Stanwell Dr., Ste. 400 Concord, CA 94520

Attention: Avo Avedissian

Client Project ID:

Unocal #6034, 4700 1st St., Livermore

Matrix:

Liquid

QC Sample Group: 4011070-74

Reported:

Feb 3, 1994

### QUALITY CONTROL DATA REPORT

| ANALYTE                                  | Benzene     | Toluene     | Ethyl       | Xylenes          |   |
|------------------------------------------|-------------|-------------|-------------|------------------|---|
| ·                                        |             |             | Benzene     |                  | , |
| Method:                                  | EPA 8020    | EPA 8020    | EPA 8020    | EPA 8020         | · |
| Analyst:                                 | J. Fontecha | J. Fontecha | J. Fontecha | J. Fontecha      |   |
| MS/MSD                                   |             |             |             |                  |   |
| Batch#:                                  | 4010933     | 4010933     | 4010933     | 4010933          |   |
| Date Prepared:                           | 1/26/94     | 1/26/94     | 1/26/94     | 1/26/94          |   |
| Date Analyzed:                           | 1/26/94     | 1/26/94     | 1/26/94     | 1/26/94          |   |
| Instrument I.D.#:                        | HP-4        | HP-4        | HP-4        | HP-4             | • |
| Conc. Spiked:                            | 20 μg/L     | 20 μg/L     | 20 μg/L     | 60 μ <b>g</b> /L |   |
| Matrix Spike                             |             |             |             |                  |   |
| % Recovery:                              | 95          | 95          | 95          | 93               |   |
| Matrix Spike<br>Duplicate %<br>Recovery: | 95          | 95          | 95          | 93               |   |
|                                          |             | 1.          |             |                  |   |
| Relative %                               |             |             |             |                  |   |
| Difference:                              | 0.0         | 0.0         | 0.0         | 0.0              |   |
|                                          |             |             |             |                  |   |
| LCS Batch#:                              | 2LCS012694  | 2LCS012694  | 2LCS012694  | 2LCS012694       |   |
| Date Prepared:                           | 1/26/94     | 1/26/94     | 1/26/94     | 1/26/94          |   |
| Date Analyzed:                           | 1/26/94     | 1/26/94     | 1/26/94     | 1/26/94          |   |
| Instrument l.D.#:                        | HP-4        | HP-4        | HP-4        | HP-4             |   |

90

72-130

**SEQUOIA ANALYTICAL** 

% Recovery Control Limits:

LCS % Recovery:

90

71-133

Alar B. Kemp Project Manager Please Note:

90

72-128

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

91

71-120

2401 Stanwell Dr., Ste. 400

Concord, CA 94520

Client Project ID:

Unocal #6034, 4700 1st St., Livermore

Matrix:

Liquid

Attention: Avo Avedissian

QC Sample Group: 4011070-74

Reported:

Feb 3, 1994

# **QUALITY CONTROL DATA REPORT**

| ANALYTE                     | Benzene     | Toluene     | Ethyl                | Xylenes     |
|-----------------------------|-------------|-------------|----------------------|-------------|
|                             |             |             | Benzene              |             |
| Method:                     | EPA 8020    | EPA 8020    | EPA 8020             | EPA 8020    |
| Analyst:                    | J. Fontecha | J. Fontecha | J. Fontecha          | J. Fontecha |
| MS/MSD                      |             |             |                      |             |
| Batch#:                     | 4011136     | 4011136     | 4011136              | 4011136     |
| Date Prepared:              | 1/27/94     | 1/27/94     | 1/27/94              | 1/27/94     |
| Date Analyzed:              | 1/27/94     | 1/27/94     | 1/27/94              | 1/27/94     |
| Instrument I.D.#:           | HP-4        | HP-4        | HP-4                 | HP-4        |
| Conc. Spiked:               | 20 μg/L     | 20 μg/L     | $20\mu \mathrm{g/L}$ | 60 μg/L     |
| Matrix Spike                |             |             |                      | ,           |
| % Recovery:                 | 90          | 90          | 90                   | 92          |
| Matrix Spike<br>Duplicate % |             |             |                      |             |
| Recovery:                   | 95          | 95          | 95                   | 95          |
| Relative %                  |             |             |                      |             |
| Difference:                 | 5.4         | 5.4         | 5.4                  | 3.2         |
|                             |             | -           |                      |             |

| LCS Batch#:       | 2LCS012794 | 2LCS012794 | 2LCS012794 | 2LCS012794 |
|-------------------|------------|------------|------------|------------|
| Date Prepared:    | 1/27/94    | 1/27/94    | 1/27/94    | 1/27/94    |
| Date Analyzed:    | 1/27/94    | 1/27/94    | 1/27/94    | 1/27/94    |
| Instrument I.D.#: | HP-4       | HP-4       | HP-4       | HP-4       |
| LCS %             |            | •          |            |            |
| Recovery:         | 87         | 85         | 86         | 87         |
| % Recovery        | ,          |            |            |            |
| Control Limits:   | 71-133     | 72-128     | 72-130     | 71-120     |

SEQUOIA ANALYTICAL

Alar B. Kemp ) Project Manager Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

2401 Stanwell Dr., Ste. 400

Concord, CA 94520 Attention: Avo Avedissian Client Project ID:

Unocal #6034, 4700 1st St., Livermore

Matrix: Liquid

QC Sample Group: 4011070-74

Reported:

Feb 3, 1994

## **QUALITY CONTROL DATA REPORT**

| ANALYTE                               | Benzene     | Toluene      | Ethyl               | Xylenes                                 |   |
|---------------------------------------|-------------|--------------|---------------------|-----------------------------------------|---|
|                                       |             |              | Benzene             |                                         |   |
| Method:                               | EPA 8020    | EPA 8020     | EPA 8020            | EPA 8020                                |   |
| Analyst:                              | J. Fontecha | J. Fontecha  | J. Fontecha         | J. Fontecha                             |   |
| MS/MSD                                |             |              |                     |                                         |   |
| Batch#:                               | 4010920     | 4010920      | 4010920             | 4010920                                 | • |
| Date Prepared:                        | 1/26/94     | 1/26/94      | 1/26/94             | 1/26/94                                 |   |
| Date Analyzed:                        | 1/26/94     | 1/26/94      | 1/26/94             | 1/26/94                                 |   |
| Instrument I.D.#:                     | HP-2        | HP-2         | HP-2                | HP-2                                    |   |
| Conc. Spiked:                         | 20 μg/L     | 20 μg/L      | $20\mu\mathrm{g/L}$ | 60 μg/L                                 |   |
| Matrix Spike                          |             |              |                     |                                         |   |
| % Recovery:                           | 115         | 110          | 110                 | 113                                     | * |
| Matrix Spike<br>Duplicate %           |             | i<br>Table 1 |                     |                                         |   |
| Recovery:                             | 110         | 105          | 110                 | 110                                     |   |
| Relative %                            |             |              |                     |                                         |   |
| Difference:                           | 4.4         | 4.6          | 0.0                 | 2.7                                     |   |
|                                       |             |              |                     |                                         |   |
| ************************************* |             |              |                     | *************************************** |   |
|                                       |             | •            |                     |                                         |   |

| LCS Batch#:                                           | 1LCS012694                 | 1LCS012694                 | 1LCS012694                 | 1LCS012694                 |          |  |
|-------------------------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------|--|
| Date Prepared:<br>Date Analyzed:<br>Instrument I.D.#: | 1/26/94<br>1/26/94<br>HP-2 | 1/26/94<br>1/26/94<br>HP-2 | 1/26/94<br>1/26/94<br>HP-2 | 1/26/94<br>1/26/94<br>HP-2 |          |  |
| LCS %<br>Recovery:                                    | 98                         | 95                         | 94                         | 96                         |          |  |
| % Recovery Control Limits:                            | 71-133                     | 72-128                     | 72-130                     | 71-120                     | <u> </u> |  |

SEQUOIA ANALYTICAL

Alar B. Kemp Project Manager Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

2401 Stanwell Dr., Ste. 400 Concord, CA 94520

Client Project ID:

Unocal #6034, 4700 1st St., Livermore

Matrix:

Liquid

Attention: Avo Avedissian

QC Sample Group: 4011070-74

Reported:

Feb 3, 1994

## QUALITY CONTROL DATA REPORT

| ANALYTE                                  | Benzene     | Toluene     | Ethyl       | Xylenes     |   |
|------------------------------------------|-------------|-------------|-------------|-------------|---|
|                                          |             |             | Benzene     |             | · |
| Method:                                  | EPA 8020    | EPA 8020    | EPA 8020    | EPA 8020    |   |
| Analyst:                                 | J. Fontecha | J. Fontecha | J. Fontecha | J. Fontecha |   |
| MS/MSD                                   |             |             |             |             |   |
| Batch#:                                  | 4011128     | 4011128     | 4011128     | 4011128     |   |
| Date Prepared:                           | 1/26/94     | 1/26/94     | 1/26/94     | 1/26/94     |   |
| Date Analyzed:                           | 1/26/94     | 1/26/94     | 1/26/94     | 1/26/94     | • |
| Instrument I.D.#:                        | HP-5        | HP-5        | HP-5        | HP-5        |   |
| Conc. Spiked:                            | 20 μg/L     | 20 μg/L     | 20 μg/L     | 60 μg/L     |   |
| Matrix Spike                             |             |             |             |             |   |
| % Recovery:                              | 115         | 110         | 100         | 102         |   |
| Matrix Spike<br>Duplicate %<br>Recovery: | 115         | 105         | 100         | 101         |   |
| necovery.                                | 115         | 105         | 100         | 101         | • |
| Relative %                               |             |             | ,           |             |   |
| Difference:                              | 0.0         | 4.7         | 0.0         | 0.99        |   |
|                                          |             |             |             |             |   |
| LCS Batch#:                              | 3LCS012694  | 3LCS012694  | 3LCS012694  | 3LCS012694  |   |
|                                          |             |             |             |             | • |

| % Recovery<br>Control Limits:                         | 71-133                     | 72-128                     | 72-130                     | 71-120                     |  |
|-------------------------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--|
| LCS %<br>Recovery:                                    | 116                        | 112                        | 109                        | 109                        |  |
| Date Prepared:<br>Date Analyzed:<br>Instrument I.D.#: | 1/26/94<br>1/26/94<br>HP-5 | 1/26/94<br>1/26/94<br>HP-5 | 1/26/94<br>1/26/94<br>HP-5 | 1/26/94<br>1/26/94<br>HP-5 |  |

**SEQUOIA ANALYTICAL** 

Alan B. Kemp Project Manager Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

# MPDS

Services, Inc.

# CHAIN OF CUSTODY

| IPLER                                         | Joe Unocal/Livermore # 6034- |      |          |                                    |      |                                                                           |                    | ANALYSES REQUESTED   |                                                                                     |                                                                                                                           |                    |          |          |                                       | TURN AROUND TIME:                                               |              |  |
|-----------------------------------------------|------------------------------|------|----------|------------------------------------|------|---------------------------------------------------------------------------|--------------------|----------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------|----------|----------|---------------------------------------|-----------------------------------------------------------------|--------------|--|
| INESSING AGENCY                               |                              |      | 4        | 4700 1st Street                    |      |                                                                           |                    |                      | 15 K                                                                                |                                                                                                                           |                    |          |          |                                       |                                                                 |              |  |
| SAMPLE<br>1D NO.                              | DATE                         | TIME | soil (   | WAVER                              | GRAB | <b>Э</b> ОНР                                                              | HO.<br>OF<br>CONT. | SAMPLING<br>LOCATION | 49                                                                                  |                                                                                                                           |                    |          |          |                                       |                                                                 | REMARKS      |  |
|                                               | 1/20/94                      |      |          | J                                  | J    |                                                                           | 2                  | M. wells             | 1                                                                                   |                                                                                                                           |                    |          |          |                                       |                                                                 | 4011070 A-73 |  |
| MW-4                                          | 1                            |      |          | J                                  | J    |                                                                           | 2                  | 9                    | 1                                                                                   |                                                                                                                           |                    |          |          |                                       |                                                                 | 1071         |  |
| WW-5                                          | "                            |      |          | 1                                  | J    |                                                                           | 2.                 | 4                    | 1                                                                                   | <del></del>                                                                                                               |                    |          |          |                                       | <del></del>                                                     | 1072         |  |
| WW-6                                          | 1                            |      |          | 1                                  | J    |                                                                           | 2                  | "                    | <b> </b> √                                                                          |                                                                                                                           | <br>               | ļ        |          |                                       |                                                                 | 1071         |  |
| mw_7                                          | ′′                           |      |          | 1                                  | J    |                                                                           | 2                  | "                    | \ <u>\</u>                                                                          |                                                                                                                           |                    |          |          | · · · · · · · · · · · · · · · · · · · |                                                                 | 1014 0       |  |
|                                               | ļ                            |      | <u> </u> |                                    | _    | <u> </u>                                                                  |                    |                      |                                                                                     |                                                                                                                           |                    |          |          |                                       | <u>.</u>                                                        |              |  |
|                                               |                              |      | <u> </u> |                                    |      |                                                                           |                    |                      |                                                                                     |                                                                                                                           |                    |          |          |                                       |                                                                 |              |  |
| <del></del>                                   |                              |      |          |                                    |      |                                                                           |                    |                      |                                                                                     |                                                                                                                           | <u></u>            | <u> </u> | <u> </u> |                                       | ]                                                               |              |  |
| elinquished by: (Signature) Date/lime 1-20-94 |                              |      |          |                                    |      | Received by: (Signature) /-20-94  Language 1645  Received by: (Signature) |                    |                      | fine following HUST BE completed by for analysis:  1. Have all samples received for |                                                                                                                           |                    |          |          |                                       | y the laboratory accepting samples analysis been stored in ice? |              |  |
| elinquished by: (Signature) Date/lime         |                              |      |          |                                    | _ _  |                                                                           |                    |                      |                                                                                     |                                                                                                                           | ed until analyzed? |          |          |                                       |                                                                 |              |  |
| etinquished by: (Signature)                   |                              |      |          | Date/Time Received by: (Signature) |      |                                                                           |                    |                      |                                                                                     | Did any samples received for analysis have head space?      Were samples in appropriate containers and properly packaged. |                    |          |          |                                       |                                                                 |              |  |
| clinquished by: (Signature) Date/Time         |                              |      |          |                                    |      | Received by: (Signature)                                                  |                    |                      |                                                                                     |                                                                                                                           |                    |          |          |                                       |                                                                 |              |  |

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