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QUARTERLY SUMMARY REPORT  
1ST QUARTER - 1993  
(DECEMBER 1992 - FEBRUARY 1993)

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Alameda County  
Environmental Health

Unocal Service Station #5043  
449 Hegenberger Road  
Oakland, California

County: Alameda

RWQCB office: San Francisco Bay Region

**BACKGROUND**

The subject site contains a Unocal service station facility. Six monitoring wells have been installed at the site. A trace of free product is currently detected in one well (MW1).

**RECENT QUARTER ACTIVITIES**

All six of the monitoring wells were monitored monthly and were sampled once (February 4, 1993) during the quarter, except for well MW1, which was not sampled due to the presence of free product. Documentation of the sample collection techniques, monitoring data, and the analytical results from the recent sampling activities are presented in KEI's report (KEI-P91-1004.QR3) dated April 2, 1993.

As previously noted in KEI's quarterly report (KEI-P91-1004.QR2) dated December 29, 1992, the analytical results of ground water samples collected from monitoring wells MW2, MW3, MW4, and MW6 on November 30, 1992, indicated total dissolved solids (TDS) at concentrations ranging from 3,800 ppm to 9,800 ppm. These TDS concentrations are in excess of the maximum limit for TDS (3,000 ppm) set forth for municipal or domestic water supply in the State Water Resources Control Board (SWRCB) Resolution 88-63.

Based on KEI's interpretation of Resolution 88-63, the ground water at the subject site is not considered suitable (or potentially suitable) for domestic or municipal supply, and therefore no further contamination delineation nor remediation work at the site appears to be warranted. KEI does, however, recommend the continuation of the current ground water monitoring and sampling program. The wells are currently monitored and sampled quarterly.

Lastly, a continuous surface-skimming free product recovery device has been installed in well MW1. Any free product that accumulates in the skimming device is removed during the monthly monitoring events.

**NEXT QUARTER ACTIVITIES**

Continuation of the monthly monitoring and quarterly sampling program for all wells.

**CHARACTERIZATION / REMEDIAL STATUS**

Soil contamination delineated? Yes.

Dissolved ground water contamination delineated? No.

Free product delineated? Yes. Free product is currently detected in only one well (MW1).

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Amount of GW contaminant recovered this quarter? 0 gal.  
Amount of GW contaminant recovered historically? 0 gal.

Soil remediation in progress? Yes. Contaminated soil detected beneath the product piping was overexcavated to depth of 4.5 feet below grade (ground water depth) in October of 1991.

- Anticipated start? \*
- Anticipated completion? \* Completed in October of 1991.

Dissolved/free product remediation in progress? Yes. As an interim measure until remediation of the site can be implemented, KEI has installed a free-product skimming device in MW1. This device is designed to continuously skim free product from the water table in the vicinity of this well. The free product is removed from the device during the regular monitoring events.

- Anticipated start? Ongoing.
- Anticipated completion? Unknown.

**CONSULTANT/CONTRACTOR:** Kaprealian Engineering, Inc.

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