

**QUARTERLY SUMMARY REPORT
4TH QUARTER - 1992
(SEPTEMBER - NOVEMBER)**

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Alameda County
Environmental Health

Unocal Service Station #3135
845 66th Avenue
Oakland, California

County: Alameda

RWQCB office: San Francisco Bay Region

BACKGROUND

The subject site contains a Unocal service station facility. Two underground fuel storage tanks, one waste oil tank, and the product piping were removed from the site in November and December of 1989 during tank replacement activities. During March and April of 1991, approximately 2,000 cubic yards of contaminated soil were excavated from the area in the vicinity of the former (pre-1967) fuel tank pit. The soil excavation was conducted to a depth of approximately 1 foot below ground water (11 feet below grade). Nine monitoring wells, two exploratory borings, and a Hydropunch study (seven probe locations) have been installed/performed at and in the vicinity of the site. No free product has been detected in any well to date.

RECENT QUARTER ACTIVITIES

On September 28 and 29, 1992, three additional monitoring wells (MW8, MW9, and MW10) were installed in the vicinity of the site. The new wells were developed on October 16, 1992, and all nine of the wells were sampled on November 3, 1992. The six previously existing wells were monitored monthly during the quarter. Documentation of the well installation procedures, sample collection techniques, monitoring data, and analytical results from the recent sampling activities are presented in KEI's report (KEI-P88-1203.R13) dated December 10, 1992.

KEI previously recommended the installation of an additional on-site monitoring well. KEI attempted to install the proposed well on September 28, 1992, but encountered difficulties with the service station dealer; therefore, the well was not installed at that time. KEI understands that Unocal is negotiating with the service station dealer to allow the well to be installed. KEI will install the well once an agreement is obtained.

NEXT QUARTER ACTIVITIES

Continuation of the monthly monitoring and quarterly sampling program for all wells. KEI will install the proposed well once an agreement is obtained.

CHARACTERIZATION / REMEDIAL STATUS

Soil contamination delineated? Yes. TPH as gasoline soil levels have been defined to approximately 50 ppm, except at three sample points [SW2(30), SW8 and SW10], where the excavation was terminated because the existing product piping prevented further excavation. Benzene levels in the soil have been defined to less than 20 ppm. Soil samples collected

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from the waste oil tank pit showed non-detectable levels of TPH as diesel, benzene, toluene, xylenes and ethylbenzene (BTX&E), total oil and grease (TOG) and all EPA method 8010 compounds, with TPH as gasoline detected at levels less than 4 ppm.

Dissolved ground water contamination delineated? The extent of ground water contamination has been predominantly defined at and in the vicinity of the site. The ground water samples collected from the new wells (MW8 and MW9) installed to the east of the site showed non-detectable concentrations of TPH as gasoline, BTX&E, and TPH as diesel. However, petroleum hydrocarbon contamination was detected in the new well (MW10) installed to the southeast of the site.

Free product delineated? N/A - no free product has been detected in any well to date.

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

Soil remediation in progress? Yes. During March and April of 1991, approximately 2,000 cubic yards of contaminated soil were excavated from the area in the vicinity of the former (pre-1967) fuel tank pit. The soil excavation was conducted to a depth of approximately 1 foot below ground water (11 feet below grade).

- Anticipated start? *
- Anticipated completion? * Completed in April of 1991

Dissolved/free product remediation in progress? No. Once the extent of ground water contamination has been adequately defined, the following steps will be taken as part of designing a remediation system: (1) water recovery tests will be performed on select wells, (2) based on the results of the water recovery tests, a ground water recovery well, if appropriate, will be installed, (3) a pump test will be performed using the recovery well, (4) the pump test information will then be used to determine the location and number of additional recovery wells that may be necessary to achieve hydraulic control of the contamination plume. A ground water remediation system will then be designed and installed (after obtaining all required permits).

- Anticipated start? The above steps will be initiated once the extent of ground water contamination has been adequately defined.

- Anticipated completion? A remediation system will be installed and operational upon completion of the above steps.

CONSULTANT/CONTRACTOR: Kaprealian Engineering, Inc.

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