QUARTERLY SUMMARY REPORT
1ST QUARTER - 1992
(DECEMBER 1991 - FEBRUARY 1992)

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

County: Alameda RWQCB office: San Francisco Bay Region

BACKGROUND

The site is presently used as a gasoline station. Two underground fuel storage tanks, one waste oil tank, and 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). Six monitoring wells, two exploratory borings, and a Hydropunch study (seven probes) have been installed at the site. No free product or sheen has been detected in any well to date.

RECENT QUARTER ACTIVITIES

All six wells were monitored monthly and were sampled once (February 7, 1992) during the quarter. Documentation of the sample collection techniques, monitoring data, and analytical results from the recent quarterly sampling activities are presented in KEI's quarterly report (KEI-P88-1203.QR5) dated March 4, 1992. KEI previously proposed the installation of one on-site and three off-site wells to further define the extent of ground water contamination. KEI has obtained the necessary well permits; however, the required encroachment permits had not been obtained as of March 4, 1992.

NEXT QUARTER ACTIVITIES

Continuation of the monthly monitoring and quarterly sampling program for all wells. The proposed wells will be installed as soon as all of the encroachment permits are received.

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 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? No. Four additional wells have been proposed in order to further define the extent of ground water contamination.

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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? The remediation system will be installed and operational upon completion of the above steps.

CONSULTANT/CONTRACTOR: Kaprealian Engineering, Inc.

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