

**QUARTERLY SUMMARY REPORT
4TH QUARTER - 1991
(SEPTEMBER - NOVEMBER)**

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Alameda County
Environmental Health

Unocal Service Station #5487
28250 Hesperian Boulevard
Hayward, California

County: Alameda

BACKGROUND

The site is currently used as a gasoline station. Two underground fuel storage tanks, one waste oil tank, and the product piping were removed from the site in January of 1989, during tank replacement activities. Both the fuel and waste oil tank pits were overexcavated to the ground water depth (10.5 feet below grade) in order to remove contaminated soil. Five monitoring wells have been installed at the site. No free product or sheen has been detected in any well to date, based on ten quarters of monitoring.

RECENT QUARTER ACTIVITIES

The five wells were monitored and sampled once (November 7, 1991) during the quarter. Documentation of the sample collection techniques, monitoring data, and the analytical results from the recent quarterly sampling activities are presented in KEI's quarterly report (KEI-P89-0111.QR10) dated January 3, 1991. Based on the non-detectable levels of TPH as gasoline and benzene detected in wells MW1 through MW4 during the first ten quarters of sampling, KEI recommended reducing the sampling frequency for these wells from quarterly to annually. Well MW5 will be sampled on a quarterly basis, and all wells will be monitored on a quarterly basis. KEI also recommended conducting a reconnaissance in the vicinity of the site next quarter in order to determine areas suitable for an off-site monitoring well(s).

NEXT QUARTER ACTIVITIES

Continuation of the quarterly monitoring for all wells, and quarterly sampling of well MW5 only. Wells MW1 through MW4 are sampled on an annual basis, and the next scheduled sampling of these wells will occur in November of 1992. KEI will evaluate off-site areas in order to determine a suitable location for additional well(s) necessary to define the extent of ground water contamination.

CHARACTERIZATION / REMEDIAL STATUS

Soil contamination delineated? Essentially. After overexcavation of contaminated soil from the fuel tank pit, all soil samples collected showed TPH as gasoline levels less than 1.5 ppm, and benzene levels less than 0.15 ppm. After overexcavation of contaminated soil from the waste oil tank pit, all soil samples collected showed TPH as gasoline and TPH as diesel levels less than 2.5 ppm, with non-detectable levels of benzene, and TOG levels less than 80 ppm. A soil sample collected at a depth of 5 feet below grade from well MW5 showed a level of TPH as gasoline at 900 ppm, with 3.1 ppm of benzene.

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Dissolved ground water contamination delineated? Predominantly. Four of five monitoring wells show non-detectable levels of TPH as gasoline and BTX&E. TPH as gasoline and benzene are detected intermittently from monitoring well MW5, which is located at the downgradient edge of the site. KEI will evaluate off-site areas in order to determine a suitable location for additional well(s) necessary to define the extent of ground water contamination.

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. The fuel tank pit was overexcavated 10 feet laterally (7 feet at the north end and 3 feet at the south end) to below the ground water depth (10.5 feet below grade) in order to remove contaminated soil. The waste oil tank pit was also overexcavated laterally (29' x 29') to below the ground water depth in order to remove contaminated soil.

- Anticipated start? *
- Anticipated completion? * February of 1989

Dissolved/free product remediation in progress? No, TPH as gasoline and benzene are detected intermittently in only one well.

- Anticipated start? Unknown. The need for a remediation system will be evaluated in the future, once the extent of ground water contamination has been adequately defined.

- Anticipated completion? Unknown

CONSULTANT/CONTRACTOR: Kaprealian Engineering, Inc.

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