

STATE OF CALIFORNIA  
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL COAST REGION

STAFF REPORT FOR REGULAR MEETING JULY 7-8, 2005

Prepared June 13, 2005

ITEM NUMBER: 16

SUBJECT: Corrective Action Plan Approval - Shell Service Station, 11590 Los Osos Valley Road, San Luis Obispo, San Luis Obispo County

DISCUSSION:

Shell Oil Products US submitted a Corrective Action Plan (CAP) dated April 29, 2005, for cleanup of petroleum hydrocarbon impacting soil and groundwater underlying the subject site. The site is an operating service station located on the northeast corner of Los Osos Valley Road and Madonna Road. The City of San Luis Obispo operates two municipal water wells, Fire Station No. 4 and Pacific Beach No. 1, located approximately 300 feet and 1,500 feet, respectively, south of the site. Due to the close proximity of the city's water wells and the occurrence of shallow groundwater, the city shut down operation of the Fire Station No. 4 well in July 2002.

During a recent groundwater monitoring event (January 12, 2005) twenty-four monitoring wells and two water supply wells were sampled. Monitoring well results indicate concentrations of up to 280 micrograms per liter ( $\mu\text{g/L}$ ) for total petroleum hydrocarbons reported as gasoline (TPH-g), 0.82  $\mu\text{g/L}$  benzene, 370  $\mu\text{g/L}$  methyl-tertiary-butyl-ether

(MTBE), and 410  $\mu\text{g/L}$  tertiary-butyl alcohol (TBA). No detectable concentrations of petroleum hydrocarbons were detected in either production well.

Shell prepared the Corrective Action Plan at staff's request to select appropriate remedial alternatives after the completion of site characterization. Shell evaluated several remedial alternatives and has selected contaminant mass removal using dual-phase (soil vapor and groundwater) extraction with a mobile treatment system. Shell proposes mobilizing the treatment system monthly and operating it 24 hours per day for five consecutive days per month. Staff approved the CAP on May 10, 2005, and a report describing the results of the dual-phase extraction events, along with recommendations for activating the City of San Luis Obispo's Fire Station No. 4 well, is required to be submitted by September 15, 2005.

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