



ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION  
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December 3, 2009

Ms. Judy Reid (Sent via e-mail; jreid@waterboards.ca.gov)  
State Water Resources Control Board  
UST Cleanup Fund  
P.O. Box 944212  
Sacramento, CA 94244-2120

Subject: Fuel Leak Case No. RO0000450 (Geotracker Global ID T0600102263), Unocal #0843, 1629 Webster St., Alameda, CA 94501 and RO0002745 (Geotracker Global ID T0600137103), Shell #13-5032, 1601 Webster St., Alameda, CA 94501 - Commingled Plume

Dear Ms. Reid:

The purpose of this letter is to document that Alameda County Environmental Health (ACEH) staff is in agreement that a commingled plume which meets the definition contained in California Health & Safety Code Section 25299.91 of Article 11, Chapter 6.57 exists for the two sites referenced above. We understand that the responsible parties for the two sites have applied for inclusion in the UST Cleanup Fund Commingled Plume Account Program. ACEH has no objection to the sites being included in the UST Cleanup Fund Commingled Plume Account Program.

An unauthorized fuel release occurred from the UST areas of the Shell #13-5032, 1601 Webster Street in Alameda in August 2004. MTBE was detected at a maximum concentration of 9,000 micrograms per liter ( $\mu\text{g/L}$ ). The groundwater plume has continued to migrate to the Unocal #0843 site at 1629 Webster Street in Alameda where the plume commingles with groundwater contamination originating from an unauthorized fuel release in the former UST area which occurred prior to 1998. Initial total petroleum hydrocarbons as gasoline (TPHg), benzene and MTBE were detected in groundwater at the Unocal #1156 site at concentrations up to 51,200  $\mu\text{g/L}$ , 1,820  $\mu\text{g/L}$  and 6,640  $\mu\text{g/L}$ , respectively. However a 2008 deeper investigation discovered MTBE at concentrations of 18,000  $\mu\text{g/L}$ .

The commingled plume extends approximately 120 feet off-site in the northeast direction from the former UST area at the Unocal #0843 site. The commingled plume is approximately 300 feet long and 150 feet wide. Plume delineation is based upon site investigation and groundwater monitoring activities that have been conducted at both sites since 1998.

Based on the lateral and vertical extent and concentrations of fuel hydrocarbons and oxygenates in relation to the locations of the releases, both sites appear to contribute to the plume of fuel hydrocarbons. No sites other than the Shell #13-5032 and Unocal #0843 sites appear to be contributing to the commingled plume.

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If you have any questions, please call me at 510-639-1287 or send me an electronic mail message at [barbara.jakub@acgov.org](mailto:barbara.jakub@acgov.org).

Sincerely,

Barbara J. Jakub, PG  
Hazardous Materials Specialist

cc: Terry Grayson, ConocoPhillips, 76 Broadway, Sacramento, CA 95818 (Sent via e-mail: [Terry.L.Grayson@contractor.conocophillips.com](mailto:Terry.L.Grayson@contractor.conocophillips.com))  
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