

EXECUTIVE OFFICER'S SUMMARY REPORT
9:00 a.m., October 23, 2008
Weaverville Victorian Inn
2015 Main Street
Weaverville CA

Item: 3

Subject: Chevron Environmental Management Company - Public Hearing to Consider Adoption of a Mitigated Negative Declaration, Environmental Checklist and Adoption of Waste Discharge Requirements, Order No. R1-2008-0099 for Surfactant Flushing of Contaminated Soil and Groundwater.

DISCUSSION

This item is to consider adopting Waste Discharge Requirements Order No. R1-2008-0099, a Mitigated Negative Declaration, and an Environmental Checklist for Surfactant Flushing for removal of separate phase petroleum hydrocarbons, also referred to as light non-aqueous phase liquids (LNAPLs), at the former Redwood Oil/Chevron Bulk Plant (Site) at 258 Roseland Avenue, Santa Rosa, California. Included with the Waste Discharge Requirements is a monitoring and reporting program.

The Site is located in an unincorporated area within the Santa Rosa city limits. The Site is a developed commercial property, currently occupied by Cal West Transmission. Current land use surrounding the Site includes mixed commercial, industrial, and residential. Previously, the Site was used as a bulk transfer facility from 1962 until the late 1980's. Bulk storage operations included the storage of gasoline, diesel, aviation fuel, heating oil fuel and Stoddard solvent in both aboveground and underground storage tanks. Soil and groundwater at the Site are contaminated with petroleum hydrocarbons, including gasoline, diesel, benzene, toluene, ethylbenzene, xylene, and methyl tertiary butyl ether (MTBE).

This Site has been under Regional Water Board oversight since the 1980's. Extensive soil and groundwater sampling has taken place to define the lateral and vertical extent of contamination. Separate phase petroleum hydrocarbons have been reported in five of the Site's monitoring wells, with an historical product thickness measured up to 7.25 feet. Limited interim remedial actions have been conducted to recover separate phase hydrocarbons from the subsurface including bailing, pump and treat, and operation of a separate phase hydrocarbon recovery system. Although the thickness of separate phase hydrocarbons has been reduced, actions have not been successful in complete elimination of separate phase hydrocarbons, which continues to be monitored and reported on a regular basis.

On June 20, 2007, the Regional Water Board issued Cleanup and Abatement Order No. R1-2007-0051. Provision D of the Order required responsible parties to submit an interim remedial action plan to address removal of remaining sources of contamination. In

response, Chevron Environmental Management Company submitted an interim remedial action plan proposing the use of surfactant flushing to remove remaining LNAPL from the subsurface. This interim remedial action is a necessary phase of the cleanup process in order to proceed with a corrective action plan to address dissolved phase groundwater contamination.

Surfactants are compounds frequently used in detergents that soluble in both organic molecules (such as petroleum hydrocarbons) and water. By applying surfactant to the subsurface via existing monitoring wells, the surfactant will emulsify and mobilize the LNAPL, thereby allowing removal of LNAPL from the site by extraction. The groundwater will be monitored according to Monitoring and Reporting Program R1-2008-0099, included with the Waste Discharge Requirements.

Preliminary Staff
Recommendation:

Adopt Waste Discharge Requirements Order No. R1-2008-0099 for the Surfactant Flushing of Contaminated Soil and Groundwater, including the Mitigated Negative Declaration and Environmental Checklist.