

STATE OF CALIFORNIA  
REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL COAST REGION

STAFF REPORT FOR REGULAR MEETING JULY 11, 2008

ITEM NUMBER: 7

SUBJECT: Cleanup Cases: Corrective Action Plan Approvals

DISCUSSION

Former Standard Oil Service Station #9-4077, 1066 Monterey Street, San Luis Obispo, San Luis Obispo County [Corey Walsh 805/ 542-4781]

On April 10, 2008, Central Coast Water Board staff received a Corrective Action Plan (CAP) submitted on behalf of Chevron Environmental Management Company. The subject site is a former gasoline service station where a leak was confirmed in November 2002. The site is located at the intersection of Santa Rosa Street and Monterey Street in San Luis Obispo. The property is currently owned by the County of San Luis Obispo, and is occupied by the San Luis Obispo Superior Court building/parking. Results of subsurface investigations indicate that soil and groundwater in the area of the former fuel dispensers and underground storage tanks are impacted with petroleum hydrocarbons. Previous remedial actions included excavation and disposal of approximately 84 tons of petroleum hydrocarbon-contaminated soil, and a high-vacuum, multiphase extraction pilot test, which removed an estimated total of 83 pounds of hydrocarbons and 340 gallons of groundwater. Soil and groundwater investigations and monitoring have detected petroleum hydrocarbons as gasoline and as diesel, and tertiary-butyl alcohol (TBA) at concentrations above cleanup goals. The TBA and other oxygenates are believed to be associated with an off-site source.

The CAP evaluated the feasibility of several different remedial alternatives for cleanup of soil and groundwater. The cleanup plan recommends and describes the proposed installation of a high-vacuum multiphase extraction (MPE) system, which involves the simultaneous extraction of soil vapor and groundwater from extraction wells. The MPE remedial system is designed to reduce concentrations of petroleum hydrocarbons that are adsorbed to soil and dissolved in groundwater. The extraction of soil vapors creates a negative pressure gradient in the unsaturated zone to move vapors toward extraction wells. The extracted vapors will be treated and discharged to the atmosphere under permit from the local Air Pollution Control District. The liquid effluent will be treated and discharged to the sanitary sewer under permit from the City of San Luis Obispo.

On June 4, 2008, the Central Coast Water Board staff approved the CAP and notified the site's property owner and neighboring property owners, tenants and other interested parties of the proposed CAP. To date we have not received any comments regarding the proposed CAP.

**Nick's Shell Service Station, 296 Santa Rosa Street, San Luis Obispo, San Luis Obispo County (Case No. 3349) [Corey Walsh 805/ 542-4781]**

On March 11, 2008, Central Coast Water Board staff received a CAP submitted on behalf of Chevron Environmental Management Company. The subject site is an active service station located on the northeastern corner of the intersection of Santa Rosa Street and Montalban Street in San Luis Obispo. The property is currently owned by Tesoro Refining/Marketing Co. – APN: 001-113-011, and Nelson Properties – APN: 001-113-010. Results of subsurface investigations indicate that soil and groundwater in the area of the former fuel dispensers, product piping, and underground storage tanks are impacted with petroleum hydrocarbons. Previous remedial actions included excavation and disposal of approximately 16 tons of petroleum hydrocarbon-contaminated soil. Soil and groundwater investigations and monitoring have detected petroleum hydrocarbons as gasoline, benzene, methyl tertiary-butyl ether (MTBE), TBA and di-isopropyl ether.

The CAP evaluated the feasibility of several different remedial alternatives for cleanup of hydrocarbon affected soil and groundwater. The cleanup plan recommends and describes the proposed air sparging and soil vapor extraction pilot test designed to obtain data for use in the final design of the cleanup system. Air sparging (AS) and soil vapor extraction (SVE) are *in-situ* remedial technologies that reduce concentrations of volatile constituents in petroleum products that are adsorbed to soil and dissolved in groundwater. The AS component involves injection of air into the subsurface saturated zone and the SVE system creates a negative pressure gradient in the unsaturated zone to move vapors toward extraction wells. The extracted vapors will be treated and discharged to the atmosphere under permit from the local Air Pollution Control District. The proposed cleanup system includes installing one horizontal vapor extraction well, and one horizontal air sparging well.

On June 10, 2008, Central Coast Water Board staff approved the CAP and notified the site's property owners and neighboring property owners, tenants and other interested parties of the proposed CAP. To date we have not received any comments regarding the proposed CAP.

Underground Tanks Year-end Summary Table [Chris Adair 805/549-3761]**Underground Tanks Year-end Summary Table**

June 30, 2008

	OPEN CASES			Total Closed Cases	New Cases this FY		Total Closed this FY	*Total Pending Closure
	TOTAL	LOCAL	REGIONAL		LOCAL	REGIONAL		
MONTEREY COUNTY	173	64	109	231		1	1	1
SAN BENITO COUNTY	13	7	6	41				
SAN LUIS OBISPO COUNTY	86	10	76	171			3	3
SANTA BARBARA COUNTY	232	232		367	3		6	
SANTA CLARA COUNTY	18	17	1	117				
SANTA CRUZ COUNTY	138	37	101	201		2	8	1
<b>TOTAL</b>	<b>660</b>	<b>367</b>	<b>293</b>	<b>1128</b>	<b>3</b>	<b>3</b>	<b>18</b>	<b>5</b>

\*These sites have met closure criteria but will not be officially closed until all monitoring and treatment wells are properly destroyed.