

STATE OF CALIFORNIA
REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION

STAFF REPORT FOR REGULAR MEETING OF MAY 8, 2009

Prepared April 7, 2009

ITEM NUMBER: 7

SUBJECT: Low Threat and General Discharge Cases

DISCUSSION The following items serve as notification that the subject sites have been enrolled under the noted General WDR or General Waiver of WDRs

General NPDES Permit for Low Threat Discharges

ExxonMobil Oil Corporation, ExxonMobil Pipeline Company, San Ardo Oilfield, Hydrostatic test water discharge, San Ardo, Monterey County [John Goni, 805/542-4628]

ExxonMobil applied for authorization of a one-time discharge of hydrostatic test water from an aboveground storage tank. An existing aboveground tank was cleaned and filled with 2,310,000 gallons of clean groundwater for hydrostatic testing. The proposed discharge is to a storm water conveyance which flows to the Salinas River. The discharge is planned for a period of ten to thirty days in March or April of 2009. The test water will be treated by clay-based filters and granulated activated carbon filters to remove any residual hydrocarbon.

Central Coast Regional Water Quality Control Board (Central Coast Water Board) staff reviewed ExxonMobil's application and enrolled them under the General NPDES Permit for Low Threat Discharges (Permit), authorizing the discharge in a March 4, 2009 letter. The Permit's monitoring and reporting plan (MRP) requires ExxonMobil to analyze the filtered water and confirm it meets all discharge standards prior to the discharge. The MRP also requires ExxonMobil to monitor both the filters and the treated water regularly throughout the discharge.

General Waiver of Waste Discharge Requirements (R3-2008-0010)

Atascadero Mutual Water Company (AMWC) Recharge Basin, San Luis Obispo County [David LaCaro 805/549-3892]

Water Board staff recommends enrolling the Atascadero Mutual Water Company's discharge of Nacimiento Water Project water to its recharge basin under General Waiver Resolution No. R3-2008-0010. Discharges as proposed will consist of 2,000 acre feet per year of raw surface water from Nacimiento Lake, which will be delivered via pipeline to a 1.6-acre foot recharge basin over a 4 to 6 month period during the summer months. The water discharged to the recharge basin will percolate to the underlying groundwater aquifer. Existing downstream wells will draw water from the underlying aquifer beginning fall 2010. Additional recovery wells are proposed to maximize the capture rate.

Water Board staff finds that the discharge of Nacimiento Water Project water to the recharge ponds presents little threat to water quality. The discharges associated with this proposed project will be subject to the general conditions identified in Section A of the General Waiver. The waiver will expire on September 5, 2013.

Cleanup Cases

General Waiver of Waste Discharge Requirements for Specific Types of Discharges

LUFT site No. 51656, 1929 Cliff Drive, Santa Barbara, Santa Barbara County (John Mijares 805-549-3696)

On November 20, 2008, Central Coast Water Board staff enrolled ConocoPhillips Company, the responsible party for the subject site, under the Central Coast Water Board's General Waiver for Specific Types of Discharge, Resolution No. R3-2008-0010 (General Waiver). ConocoPhillips proposes to inject *RegenOx™* and *ORC Advanced™* to destroy petroleum hydrocarbon contaminants in groundwater beneath the subject site. The Santa Barbara County Fire Prevention Division staff approved the Remedial Action Plan on September 12, 2008. The injection of oxygenated compounds to the subsurface must comply with the General Waiver. Stantec Consulting, Inc. submitted the application for enrollment under the General Waiver on behalf of ConocoPhillips Company. The application provides the necessary information to fully comply with the requirements for enrollment under the Central Coast Water Board's General Waiver

This staff report serves as notification to the Central Coast Water Board that Water Board staff has issued a General Waiver Notice of Applicability to ConocoPhillips Company for in-situ chemical oxidation at the subject site.

76 Station No. 2961, 5085 Carpinteria Avenue, Carpinteria, Santa Barbara County (John Mijares 805-549-3696)

On November 20, 2008, Central Coast Water Board staff enrolled ConocoPhillips Company, the responsible party for the subject site, under the General Waiver. ConocoPhillips proposes an ozone sparge system to destroy dissolved petroleum hydrocarbon contaminants in soil and groundwater beneath the subject site. The Santa Barbara County Fire Prevention Division staff approved the ConocoPhillips Remedial Action Plan on May 16, 2008. Stantec Consulting, Inc. submitted the application for the General Waiver on behalf of ConocoPhillips. The injection of ozone to the subsurface must comply with conditions in the General Waiver. The application provides the necessary information to fully comply with the requirements for enrollment under the Central Coast Water Board's General Waiver

This staff report serves as a notification to the Central Coast Water Board that Water Board staff has issued a General Waiver Notice of Applicability to ConocoPhillips Company for the use of an ozone sparge system to destroy dissolved petroleum hydrocarbon contaminants at the subject site.

Santa Barbara County Road Yard, 4415 Cathedral Oaks Road, Santa Barbara, Santa Barbara County (John Mijares 805-549-3696)

On December 17, 2008, Central Coast Water Board staff enrolled the Santa Barbara County Public Works Department (Public Works) under the General Waiver. Public Works proposes injecting a hydrogen peroxide solution to enhance the biodegradation of the leading edge of the petroleum hydrocarbon plume at this site. The Santa Barbara County Fire Prevention Division staff verbally approved the hydrogen peroxide injection in 2006 and re-affirmed approval via a written communication on January 6, 2009. The injection of hydrogen peroxide to the subsurface must comply with condition in the General Waiver. Groundwater Solutions, Inc. submitted an application for the General Waiver, on behalf of Public Works. The application provides the necessary information to fully comply with the requirements for enrollment under the Central Coast Water Board's General Waiver

This staff report serves as a notification to the Central Coast Water Board that Water Board staff has issued a Notice of Applicability to the Santa Barbara County Public Works Department for the injection of hydrogen peroxide solution at the site.

Hearst – Jack Ranch Café; Cholame, San Luis Obispo County [Corey Walsh 805/542-4781]

On October 21, 2008, Central Coast Water Board staff received a *Revised Corrective Action Plan* (CAP), and on December 30, 2008 a *Remedial Action Plan for In-Situ Groundwater Treatment* (RAP). Both reports were submitted by Stantec Consulting Corporation on behalf of their client, the Hearst Corporation. The subject site is an inactive gasoline service station and a restaurant located on the north side of Highway 46 in Cholame. The property is currently owned by the Hearst Corporation, and operated as a restaurant (Jack Ranch Café). Results of subsurface investigations indicate that soil and groundwater in the area of the former underground storage tanks (UST) and off-site groundwater are impacted with petroleum hydrocarbons. Previous remedial actions included: soil excavation and removal; groundwater recovery and treatment; free product removal; soil vapor extraction; and treatment with oxygen releasing compounds (ORC). Soil and groundwater investigations and monitoring have shown petroleum hydrocarbons as gasoline (TPH-g), benzene, and 1,2-dichloroethane (EDC) above cleanup goals. An active onsite supply well is connected to a water treatment system that serves the Café, and is located approximately 350 feet cross-gradient from the EDC plume core. The supply well is perforated from 42 to 102 feet and is the sole source of water for the Café.

The CAP evaluated the feasibility of using hydrogen peroxide (H₂O₂) injection for cleanup of hydrocarbon-affected soil and groundwater. The RAP recommends and describes a proposal for implementation of a hydrogen peroxide injection pilot test. During the treatment phase, existing vapor extraction wells will be utilized for hydrogen peroxide infiltration. Hydrogen peroxide is an *in-situ* remedial technology that reduces concentrations of petroleum products through oxidation. The injection of hydrogen peroxide to the subsurface must comply with conditions in the General Waiver. This staff report serves as notification to the Central Coast Water Board that Water Board staff will issue a Notice of Applicability once the Responsible Party (Hearst Corporation) meets the conditions of the General Waiver.

On February 3, 2009, the Central Coast Water Board staff approved the RAP and notified the site's property owner, adjacent property owners, and other interested parties of the proposed corrective action pilot test. To date we have not received any comments regarding the proposed pilot test.

Pozzi Brothers, 20770 Buena Vista Road, Salinas, Monterey County, [John Goni 805 542-4628]

On September 12, 2008, Central Coast Water Board staff received a Corrective Action Plan for the subject site from Environmental Investigation Services, Inc. (ESI), on behalf of the responsible party, Pozzi Brothers, LLC. The subject site is a farm and residence. Underground tanks adjacent to and under a shop building on the farm were removed in 2004. Results of subsurface investigation indicate that soil and groundwater in the area of the former underground tanks are impacted with fuel oxygenates. ESI proposes groundwater extraction and treatment as the preferred remedial action for this case. Treated effluent from the proposed system will discharge to an on-site injection well. The reinjection of treated groundwater must comply with conditions in the General Waiver. Central Coast Water Board staff approved the Corrective Action Plan and required the Pozzi Brothers to enroll in the General Waiver. ESI applied for coverage under the General waiver on behalf of Pozzi Brothers. The application and supplemental materials meet the requirements of the General Permit

On March 24, 2009, Water Board staff issued a Notice of Applicability to Pozzi Brothers. This staff report serves as notification to the Central Coast Water Board that Water Board staff has issued a Notice of Applicability to Pozzi Brothers for implementation of the Corrective Action Plan.

Former Beacon Station No. 3735 - 1516 Soquel Avenue, Santa Cruz, Santa Cruz County [Tom Sayles 805 542-4640]

Central Coast Water Board staff received Kadence Consultants, Inc. (Kadence)'s *Workplan for Remediation System Replacement and Request of General Waiver for iSOC™ System Installation (Workplan)* on March 23, 2009. The Workplan includes the information needed to fully comply with the requirements for enrollment under the General Waiver.

The Workplan proposes an in-situ submerged oxygen curtain (iSOC) to complete cleanup of the hydrocarbon-affected soils and groundwater beneath the subject site. The iSOC is an in-situ remedial technology that reduces concentrations of petroleum products by enhancing aerobic degradation. The injection of oxygen to the subsurface must comply with the General Waiver.

On April 2, 2009, Central Coast Water Board staff approved the proposal for the iSOC and issued a Notice of Applicability to Mr. Tom Sexton, the responsible party's representative. This staff report serves as a notification to the Central Coast Water Board that the Water Board staff has issued the Notice of Applicability to Mr. Tom Sexton to implement the proposed cleanup.