

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

STAFF REPORT FOR REGULAR MEETING OF FEBRUARY 4, 2010

Prepared December 31, 2009

ITEM NUMBER: 8

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 WDRs¹.

General Waiver for Specific Types of Discharges, Resolution No. R3-2008-0010

76 Service Station No. 5113, 4401 North Via Real, Carpinteria Santa Barbara County (John Mijares 805-549-3696)

ConocoPhillips Company proposes to conduct pilot testing of Modified Fenton's Reagent injections to remediate petroleum hydrocarbons in soil and groundwater at the above-referenced site. Injection of materials to the subsurface requires compliance with the Central Coast Water Board's General Waiver for Specific Types of Discharge, Resolution No. R3-2008-0010 (General Waiver). On December 10, 2009, Central Coast Water Board staff enrolled ConocoPhillips Company under the General Waiver for this cleanup project. The Santa Barbara County Fire Prevention Division (SBCFPD) staff approved the proposed pilot test workplan on September 2, 2009. Stantec Consulting Corporation submitted an application for the General Waiver, on behalf of ConocoPhillips Company, on October 28, 2009. The application provides the necessary information to fully comply with the requirements for enrollment under the 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 ConocoPhillips Company for the pilot testing of Modified Fenton's Reagent at the site. If pilot testing is successful and the SBCFPD approves the full-scale implementation of modified Fenton's Reagent injections, these activities will also be covered under this General Waiver.

¹ Military base enrollments are listed separately in the Department of Defense Program Cleanup Sites Status Report.

76 Service Station No. 5535, 1428 Freedom Boulevard, Watsonville, Santa Cruz County (John Mijares 805-549-3696)

ConocoPhillips Company proposes to conduct pilot testing of hydrogen peroxide injections to remediate petroleum hydrocarbons in soil and groundwater at the above-referenced site. Injection of materials to the subsurface requires compliance with the Central Coast Water Board's General Waiver. On December 9, 2009, Central Coast Water Board staff enrolled ConocoPhillips Company under the General Waiver for this project. Central Coast Water Board staff approved the proposed pilot test workplan on December 9, 2009. Stantec Consulting Corporation submitted an application for the General Waiver, on behalf of ConocoPhillips Company, on November 23, 2009. The application provides the necessary information to fully comply with the requirements for enrollment under the 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 ConocoPhillips Company for the pilot testing of hydrogen peroxide at the site. If pilot testing is successful and Central Coast Water Board staff approves the full-scale implementation of hydrogen peroxide injections, these activities will also be covered under this General Waiver.

Equilon Enterprises LLC/Shell, 1000 Coast Village Road, Montecito, Santa Barbara County (John Mijares 805-549-3696)

Shell Oil Products US proposes to conduct pilot testing of modified Fenton's Reagent injections to remediate petroleum hydrocarbons in soil and groundwater at the above-referenced site. Injection of materials to the subsurface requires compliance with the Central Coast Water Board's General Waiver. On November 19, 2009, Central Coast Water Board staff enrolled Shell Oil Products US under the General Waiver for this project. The Santa Barbara County Fire Prevention Division (SBCFPD) staff approved the proposed pilot test workplan on October 13, 2009. Delta Consultants submitted an application for the General Waiver, on behalf of Shell Oil Products US on November 12, 2009. The application provides the necessary information to fully comply with the requirements for enrollment under the 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 Shell Oil Products US for the pilot testing of modified Fenton's Reagent at the site. If pilot testing is successful and the SBCFPD approves the full-scale implementation of modified Fenton's Reagent injections, these activities will also be covered under this General Waiver.

United Parcel Service, 505 Pine Avenue, Goleta, Santa Barbara County (John Mijares 805-549-3696)

United Parcel Service proposes to inject the bioremediation agent, Petrox™, and the oxygen releasing compound, ORC® to remediate petroleum hydrocarbons in soil and groundwater at the above-referenced site. Injection of materials to the subsurface requires compliance with the Central Coast Water Board's General Waiver. On November 23, 2009, Central Coast Water Board staff enrolled United Parcel Service under the General Waiver for this project. The Santa Barbara County Fire Prevention

Division staff approved the proposed injection workplan on November 19, 2009. Arcadis (consultant) submitted an application for the General Waiver, on behalf of United Parcel Service on November 23, 2009. The application provides the necessary information to fully comply with the requirements for enrollment under the 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 United Parcel Service for the injection of the bioremediation agent, Petrox™, and the oxygen releasing compound, ORC®, at the site.

Former Washington Mutual Property (currently owned by JPMorgan Chase Bank, NA), 468 Washington Street, Monterey, Monterey County [Diane Kukol, 805/542-4637]

The property housed a dry cleaner from at least 1953 to 1977. Currently, the property is vacant and consists of a paved area approximately 5,200 square-feet in size. JPMorgan Chase Bank's (JPM Chase) submitted a Remedial Action Work Plan (RAP) and a RAP Addendum (collectively referred to as the RAP) describing its proposed strategy for cleaning up volatile organic compounds (VOCs) detected in soil, soil vapor, and groundwater at the property. In the RAP, JPM Chase proposes cleanup via a combination of excavation and addition of a patented Hydrogen Releasing Compound (HRC™). JPM Chase agreed to comply with the requirements of the General Waiver, including groundwater and soil vapor monitoring. Water Board staff issued a public notice to all landowners and neighbors within 500 feet of the property describing the proposed cleanup plan. The public notice requested comments on the proposed plan within 30 days. Central Coast Water Board staff did not receive any public comments. On December 29, 2009, Water Board staff enrolled JPM Chase in the General Waiver.

JPM Chase plans to excavate five source soil areas to groundwater (approximately four to eight feet below ground surface) and mix HRC™ with clean backfill and approximately 25% gravel in the excavation bottom. JPM Chase expects the HRC™ (a non-toxic, food-grade product) to enhance the natural degradation of residual VOCs remaining in soil and groundwater following excavation.

Four groundwater monitoring wells exist on the property, and one monitoring well exists offsite. The Discharger will sample the existing wells semiannually for VOCs, and one month after HRC™ addition, and quarterly for one year thereafter, in accordance with the site's enhanced reductive dechlorination monitoring and reporting program. During these more frequent sampling events, JPM Chase will submit the groundwater samples for VOCs analysis and parameters used to indicate whether biodegradation of residual VOCs remaining in soil and groundwater is occurring. In addition, JPM Chase will install four temporary soil vapor probes following HRC™ addition. JPM Chase will collect soil vapor samples from these probes soon after installation, and again six months later to observe any seasonal influences on soil vapor constituents, if any.