

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

STAFF REPORT FOR REGULAR MEETING OF SEPTEMBER 2, 2010

Prepared August 10, 2010

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.

Statewide General Waste Discharge Requirements for Small Domestic Wastewater Systems

Windset Farms, 1500 Black Rd, Santa Maria, Santa Barbara County - enroll in General Small Community WDR Order No. 97-10-DWQ [Sorrel Marks, 805/549-3695]

During April and May 2010, Windset Farms submitted a Report of Waste Discharge/Application for authorization to discharge waste from a proposed hydroponic agricultural project at 1500 Black Road, Santa Maria. The proposed project includes greenhouses, packing and office building, four residential units, and associated support facilities. Windset Farms will ultimately employ approximately 400 people and generate 8,000 gallons per day of sanitary wastewater. No process wastewater or irrigation runoff is anticipated to be generated, and the onsite wastewater system is limited to sanitary wastes only. Treatment will be in septic tanks and disposal will be to 40 feet deep percolation pits facilitating seepage below slow permeability shallow soils. The discharge meets criteria specified in the Statewide General Waste Discharge Requirements for Discharges to Land by Small Domestic Wastewater Treatment Systems (Order No. 97-10-DWQ), which include demonstrating consistency with Basin Plan requirements for on-site wastewater disposal systems. Therefore, staff enrolled the discharge under Order No. 97-10-DWQ. Enrollment under Order No. 97-10-DWQ includes requirements for system maintenance, records keeping, periodic inspection and monitoring, submittal of annual reports, and payment of annual fees.

General Waste Discharge Requirements for Discharges of Winery Waste

Foxen Winery, 7600 Foxen Canyon Rd, Santa Maria, Santa Barbara County [Sorrel Marks 805/549-3695]

Upon receipt of an appropriately filed Notice of Intent to modify an existing enrollment, staff reviewed the submittal to ensure compliance with conditions and modified Foxen Winery's enrollment under the General Waste Discharge Requirements for Discharges of Winery

Waste, Order No. R3-2008-0018 (General Winery WDRs). Foxen Winery formerly operated at 7200 Foxen Canyon Road in Santa Barbara County, and was enrolled under the General Winery WDR for that location. Foxen Winery has closed its facility at 7200 Foxen Canyon Road and relocated to 7600 Foxen Canyon Road. Staff modified the enrollment under the General Winery WDR accordingly. At its new location, Foxen Canyon Winery will produce up to 15,000 cases of wine annually. The wine processing wastewater (1,600 gallons per day during crush) will be hauled to nearby vineyards for irrigation purposes. Solids will also be returned to the vineyard for soil amendment. Winery equipment wash water and sanitary wastewater will be disposed of to separate conventional septic systems. Foxen Winery, at its new location, is consistent with the conditions specified in the General Winery WDR. Monitoring and annual reporting to ensure consistent compliance is a standard requirement of the General Winery WDR.

General NPDES Permit for Discharges with Low Threat to Water Quality

Cojo-Jalama Ranch, Lompoc, Santa Barbara County [Sorrel Marks 805/549-3695]

Upon receipt of an appropriately filed Notice of Intent (application) and filing fee, staff reviewed the submittal to ensure compliance with permit conditions and enrolled Cojo-Jalama Ranch groundwater discharges under the General NPDES Permit for Discharges with Low Threat to Water Quality (General Low Threat Permit) on July 20, 2010. The proposed discharges are from aquifer characterization activities and consist of raw groundwater pumped to Escondido Creek, which ultimately flows to the Pacific Ocean. Based upon information provided in the application, the groundwater discharge meets criteria specified in the General Low Threat Permit and will occur for one week from each of two wells. Enrollment was conditioned upon the discharges being managed in a manner to prevent erosion and discharge of soil and sediment to surface waters. During the aquifer characterization activities, additional groundwater discharges to land are planned. Provided such discharges are maintained on land and do not result in runoff or discharge to surface waters, these additional discharges are consistent with the Central Coast Water Board's General Waiver for Specific Types of Discharges (Resolution No. R3-2008-0010) and do not require enrollment under the General Low Threat Permit.

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

Former Cinco De Mayo Cleaners, 434 Olive Street, Santa Barbara, Santa Barbara County [Kristina Seley 805-549-3121]

On June 21, 2010, Water Board staff enrolled David Crown, the responsible party (RP) for the former dry cleaner cleanup site, under Resolution No. R3-2008-0010, General Waiver for Specific Types of Discharges (General Waiver). Staff concurred with the RP's request to inject substrates to enhance bioremediation pursuant to the General Waiver, as the discharge complies with the General Waiver conditions. The site cleanup history and a discussion regarding the injection are summarized below.

The former Cinco de Mayo dry cleaning business is located at 434 Olive Street in Santa Barbara. The RP has complied with all Water Board requirements, and has completed numerous cleanup actions including:

- Excavation and removal of approximately 445 tons of impacted soil from beneath the former dry cleaner building.

- Installation of a pump and treat system, which removed approximately 29 pounds of chlorinated solvents from groundwater from September 2004 through July 2005.
- Injection of a Hydrogen Release Compound (HRC®) in 2007 to enhance anaerobic biodegradation of chlorinated solvents in groundwater.

HRC® is a non-toxic, food-grade product that is injected into groundwater to speed up naturally occurring biological degradation of chlorinated solvents. While degradation from the 2007 injection was successful, as demonstrated by decreasing solvent concentrations in some wells and increases in daughter products, solvents are still presents in some site wells. Therefore, in March 2010, the RP submitted an Addendum to the cleanup plan, requesting additional HRC® injection at the remaining impacted areas. In summer (likely July) 2010, the RP will conduct the one-time injection into nine injection points across the former dry cleaner property. As part of staff's approval of the cleanup plan's addendum, the RP is required to:

1. Implement a performance monitoring program to evaluate the effectiveness of the HRC® remediation program in reducing solvent concentrations.
2. Implement an updated Monitoring and Reporting Program Order No. R3-2010-0035.
3. Submit an HRC® summary report detailing the effectiveness of the cleanup, and semiannual groundwater monitoring reports, which must also include long-term effectiveness of the HRC® injection.

This staff report serves as a notification to the Central Coast Water Board that Water Board staff has issued Mr. Crown a Notice of Applicability for coverage under this General Waiver for the proposed HRC® injection.

McCormix Corporation, 336 North Calle Cesar Chavez, Santa Barbara, Santa Barbara County [Kristina Seley 805-549-3121]

As the lead agency, Santa Barbara County Fire Department oversees cleanup of the former McCormix Corporation site, which has low detections of fuel compounds due to the historic operation of aboveground fuel tanks. On June 14, 2010, Water Board staff enrolled Bob Holzer Towing, the property owner and RP, under the General Waiver. Staff concurred with the RP's request to inject a small volume of substrate (four cups of BioCrittlers, four cups of nutrients, and 100 gallons of water) to enhance bioremediation of fuel compounds (mainly MTBE) in one impacted groundwater well. The discharge complies with the General Waiver conditions. We require the RP collect water quality data before and approximately six months following injection to assess the effectiveness of the remediation. The RP will provide a summary report to Water Board staff 60 days after the post-injection monitoring.

This staff report serves as a notification to the Central Coast Water Board that Water Board staff has issued Bob Holzer Towing a Notice of Applicability for coverage under this General Waiver for the proposed substrate injection.

Beacon Station No. 3400, 1597 Freedom Blvd., Watsonville, Santa Cruz County
[John Mijares 805-549-3696]

On May 4, 2006, Central Coast Regional Water Quality Control Board (Central Coast Water Board) staff approved a supplemental corrective action plan using an in-situ submerged oxygen curtain (iSOC™) for the subject site. iSOC™ is an oxygen delivery technology based on a unique method of infusing supersaturated levels of oxygen gas into groundwater to enhance the bioremediation of dissolved petroleum hydrocarbons. The iSOC™ system has been operating at the site since May 2006 and has been successful in reducing concentrations of dissolved hydrocarbons.

Operation of the iSOC™ system complies with the requirements contained in the General Waiver. On April 21, 2010, Water Board staff issued a Notice of Applicability to Ultramar/Valero (the Responsible Party) for the continued operation of the iSOC™ system.

This staff report serves as a notification to the Central Coast Water Board that Water Board staff has issued Ultramar/Valero a Notice of Applicability for coverage under this General Waiver for the continued operation of the iSOC™ system.

Former Shell Service Station, 1605 Soquel Avenue, Santa Cruz, Santa Cruz County
[Tom Sayles 805 542-4640]

Central Coast Water Board staff received Delta Consultant's (Delta) May 4, 2010 *Well MW-1 iSOC Unit Installation Workplan*. The Workplan proposes to conduct an oxygen-enhanced bioremediation pilot test by installing one iSOC™ (In-situ Submerged Oxygen Curtain) unit in groundwater monitoring well MW-1. In addition, Delta proposes to install one observation well at the site, to evaluate the results of the pilot test. Delta will perform a baseline sampling of soil and groundwater to obtain geochemical parameters and will compare the data to that collected during and after the pilot test. Delta will submit a technical report summarizing the results of the pilot test and will determine if a full scale in-situ oxygen curtain can be used as the final remedial action to expedite cleanup of the subject site.

The workplan proposes the use of oxygen for cleanup of hydrocarbon-affected soil and groundwater. The injection of oxygen to the subsurface must comply with the General Waiver. The Workplan fully complies with the requirements of the General Waiver. On June 28, 2010, Central Coast Water Board staff approved the proposed in-situ chemical oxidation pilot test and issued a Notice of Applicability to Mr. Edward Paden, the responsible party's representative, to enroll the proposed discharge at the former Shell Service Station under the General Waiver.

This staff report serves as a notification to the Central Coast Water Board that Water Board staff has issued the Notice of Applicability to Mr. Edward Paden to implement the proposed Pilot Test.

Beacon Station No. 3737, 1180 Main Street, Watsonville, Santa Cruz County (John Mijares 805-549-3696)

Ultramar, Inc. proposes to conduct an ozone sparging pilot test to remediate petroleum hydrocarbons in soil and groundwater at the above-referenced site. Injection of materials to the subsurface requires compliance with the General Waiver. The workplan provides the necessary information to fully comply with the requirements for enrollment under the General

Waiver. Central Coast Water Board staff approved the proposed pilot test workplan and enrolled Ultramar under the General Waiver on June 25, 2010.

This staff report serves as a notification to the Central Coast Water Board that Water Board staff has issued a Notice of Applicability to Ultramar, Inc., for the ozone sparge pilot testing at the site. If pilot testing is successful and we approve the full-scale implementation of ozone sparging, these activities will also be covered under this General Waiver.

Aromas Beacon Service Station, 2961 San Juan Road, Aromas, Monterey County (John Goni 805-542-4628)

Sierra Environmental, on behalf of Mr. Steve Drake (the responsible party), proposes to implement additional corrective action at this leaking underground tank case, using dual-phase extraction, and reuse of treated groundwater for landscape irrigation. The use of treated groundwater for irrigation requires compliance with the General Waiver. On April 28, 2010, Sierra Environmental submitted a Report of Waste Discharge for the treated groundwater reuse. The proposal complies with requirements of the General Waiver except for the provisions of Section 5.b., which requires the discharge location be greater than 100 feet from a stream, body of water, or wetland. The proposed landscape irrigation area is approximately 40 from a drainage ditch adjacent to the property. Water Board staff exempted the responsible party from the 100 foot setback, based on the following:

1. The discharge of treated groundwater is limited to the landscaped area, with no allowed overflow or bypass to any other area.
2. The irrigated area is completely on the service station site and under the control of the operator.
3. The extracted groundwater is treated and stored in an onsite aboveground tank. The waiver requires analytical testing of the water before irrigation use to confirm contaminants have been removed.
4. A site manager must be present during irrigation.

With the above exemption, the proposed irrigation use of treated groundwater fully complies with the requirements of the General Waiver. On July 15, 2010, Central Coast Water Board staff issued a Notice of Applicability to Mr. Drake for the discharge. The Monterey County Water Resources Agency, the local water management agency for this area, of the discharge and has concurred with the proposed discharge, subject to the conditions of the General Waiver.

This staff report serves as a notification to the Central Coast Water Board that Water Board staff has approved the additional corrective action and issued Mr. Drake a Notice of Applicability for coverage under this General Waiver for the proposed irrigation use of treated groundwater.