

ITEM: 25

SUBJECT: Uncontested Waste Discharge Requirements

REPORT: Following are the proposed waste discharge requirements that prohibit discharge to surface waters. All agencies and the dischargers concur or have offered no comments. Items indicated as updates on the summary agenda make the requirements consistent with current plans and policies of the Board.

a	<p>Butte Sand and Gravel, Morehead Land LLC, Begonia McPherrin, Rose McPherrin, and Anna McPherrin, South Butte Quarry, Sutter County</p> <p>The Butte Sand and Gravel facility mines sand and gravel of volcanic origin on the southern rampart of the Sutter Buttes. The facility is regulated under WDRs Order 5-00-174, which prescribes requirements for the discharge of aggregate wash water to a closed, recirculation pond system consisting of two settling ponds; and recycling of the process wastewater through reuse in the main washing plant and/or irrigation of pasture land. WDRs 5-00-174 allows a monthly average dry weather process wastewater flow up to 220,000 gallons per day in to the Settling Ponds.</p> <p>Butte Sand and Gravel was expanded to include the existing adjacent Butte Ranch Quarry to create a single mining facility renamed the South Butte Quarry. Operational modifications at the facility include the installation of a clarifier, discontinued use of the two settling ponds, and installation of approximately 70 acres of fine placement areas. In addition, the Discharger proposes to cease irrigation of the DIAs with process water generated from the aggregate washing operations.</p> <p>The proposed Order will reflect the expansion and modifications that have been completed at the facility now renamed the South Butte Quarry.</p>
b	<p>Calaveras County Water District, Douglas Flat/Vallecito Wastewater Treatment Facility, Calaveras County</p> <p>The WWTF occupies approximately 96 acres and serves the Douglas and Vallecito communities, which had a combined estimated population of 610 in 2010. The existing WWTF has two parallel activated sludge treatment units (the Douglas Flat and Vallecito units), a chlorine disinfection system, an effluent storage pond, sludge drying beds, and approximately 60 acres of LAAs with a net area of 26 acres for irrigation.</p> <p>In October 2011, the Discharger received \$4.42 million in funding from the State Water Resources Control Board for WWTF improvements, including the installation of membrane biological reactors, an ultraviolet light disinfection system, and a belt press for sludge dewatering. The updated facility will be able to produce tertiary disinfected wastewater. The Discharger expects to complete construction of these improvements by December 2012.</p> <p>The proposed order would increase the flow limit to an average dry weather flow (ADWF) of 75,000 gpd.</p>
c	<p>Ironhouse Sanitary District Water Recycling Facility, Contra Costa County</p> <p>The Ironhouse water recycling facility treats and recycles residential and commercial domestic wastewater from the City of Oakley, Bethel Island, and some unincorporated areas of Contra Costa County. The Discharger has constructed a new wastewater treatment plant that began operation in July 2011. The treatment system provides tertiary treatment and UV disinfection. Treated wastewater is recycled to grow fodder crops for cattle. When land</p>

	<p>application is not feasible, treated wastewater is discharged to the San Joaquin River under an NPDES permit. The Order allows an average dry weather flow of 4.3 MGD.</p>
d	<p>County of Kern, Waste Discharge Requirements for Post-Closure Maintenance and Corrective Action, Kern Valley Sanitary Landfill, Kern County</p> <p>The County of Kern owns and maintains a municipal solid waste landfill located about 4 miles southeast of Kernville and approximately one mile east of Lake Isabella. The facility is currently regulated by Waste Discharge Requirements Order R5-2002-0073. The waste management facility contains one existing closed Unit covering approximately 36 acres. Waste constituents consisting of naturally occurring inorganic compounds and volatile organic compounds (VOCs) that are not naturally occurring have been detected in groundwater along the point of compliance. The inorganic compounds consist of chloride and bicarbonate. The VOCs consistently detected in groundwater are tetrachloroethylene (PCE), trichloroethylene (TCE), 1,1-dichloroethane, 1,1-dichloroethene, cis-1,2-dichloroethene, dichlorodifluoromethane (Freon 12), and trichlorofluoromethane (Freon 11). The nature of the release of waste constituents from the waste management unit is associated with leachate and landfill gas migration. The extent of the leachate release is limited to an area beneath the southwest portion of the waste management facility. Waste constituents released due to landfill gas migration are present in the groundwater approximately 2,800 feet southwest of the facility boundary. The vertical extent of the release is limited to the upper fractured rock zone of the aquifer. The Discharger submitted an Engineering Feasibility Study showing the most technically and economically feasible corrective action alternative to be monitored natural attenuation with landfill gas extraction as a source control. This order revises the existing Waste Discharge Requirements to initiate a corrective action program.</p>
e	<p>County of Kern, Waste Discharge Requirements For Post-Closure Maintenance and Corrective Action, McFarland-Delano Sanitary Landfill, Kern County</p> <p>The County of Kern owns and maintains a municipal solid waste landfill one and a half miles southwest of Delano. The facility is currently regulated by Waste Discharge Requirements Order R5-01-159. The waste management facility contains one existing closed Unit covering approximately 37 acres. Waste constituents have been released to the groundwater. Volatile organic compounds (VOCs) that are not naturally occurring have been detected in groundwater along the point of compliance. The VOCs consistently detected in groundwater are benzene, tetrachloroethylene (PCE), trichloroethylene (TCE), 1,1-dichloroethane, cis-1,2-dichloroethene, vinyl chloride, dichlorodifluoromethane (Freon 12), and trichlorofluoromethane (Freon 11). The nature of the release was demonstrated to be volatile organic compounds that originated from landfill gas. The extent of the release plume is about 650 feet to the southeast of the Unit. The vertical extent is limited to 100 feet below ground surface. The Discharger submitted an Engineering Feasibility Study showing the most technically and economically feasible corrective action alternative to be monitored natural attenuation with landfill gas extraction as a source control. This order revises the existing Waste Discharge Requirements to initiate a corrective action program.</p>
f	<p>San Joaquin County Department of Public Works, Corral Hollow Sanitary Landfill, Class III Municipal Solid Waste Landfill, Post-Closure Maintenance and Corrective Action, San Joaquin County</p> <p>The San Joaquin County Department of Public Works (hereinafter Discharger) owns and operates the closed Class III Corral Hollow Sanitary Landfill approximately 5 miles south of</p>

	<p>the city of Tracy. The facility is a municipal solid waste (MSW) landfill. The closed facility is on a 58-acre property at 31130 Corral Hollow Road. The landfill was closed in 1996. The closed landfill area at that time consisted of one unlined waste management unit covering approximately 43 acres. In 2005 the Discharger discovered additional municipal waste outside of the original landfill area. In 2007, the Discharger determined that an additional 1.6 acres of municipal solid waste existed outside of the original landfill area. Approximately 0.3 acres of the 1.6 acres exists on California Department of Transportation (Caltrans) property. The revised Order requires the Discharger to:</p> <ol style="list-style-type: none"> 1. Extend the closure cover over approximately 1.6 acres of landfill waste discovered outside of previously covered landfill. 2. Expand the landfill gas collection well network into the closure cover extension project area. 3. Evaluate and delineate the extent of shallow groundwater contamination plume originating from landfill. The time schedule for completion of this action will be required under a separate Order; and 4. Implement corrective action to remediate discharge of waste constituents to receiving waters. The time schedule for completion of this action will be required under a separate Order.
g	<p>Univar Usa Inc. Waste Discharge Requirements for In-Situ Groundwater Bioremediation Project, 1152 G Street, Fresno, Fresno County</p> <p>Univar leased the site from 1965 to 1986 and used an aboveground storage tank to store tetrachloroethene. Tetrachloroethene has been detected in soil and groundwater in the vicinity of the site. Soil at the site was previously remediated using a soil vapor extraction system. The soil vapor extraction system is currently being operated downgradient to treat impacted soil off-site.</p> <p>Groundwater assessments have indicated that groundwater with tetrachloroethene and other volatile organic compounds has migrated approximately 1,500 feet to the north and 1,800 feet to the west. Univar is proposing to inject alcohol and other additives to create reducing conditions in groundwater to facilitate in-situ breakdown of the volatile organic compounds. This is expected to result in temporary increases in the concentration of iron, manganese, and possibly other metals. Oxygen and outdoor air will be injected into groundwater downgradient of the injection area to re-aerate groundwater and reduce the concentrations of iron, manganese, and other metals. Existing monitoring wells and additional wells to be installed will be monitored to insure groundwater in the vicinity of a downgradient City of Fresno supply well is not affected. The proposed treatment system is expected to substantially reduce concentrations of volatile organic compounds in groundwater and protect the groundwater quality in the downgradient City of Fresno supply well.</p>

RECOMMENDATION: Adopt the proposed waste discharge requirements.

Mgmt. Review _____

Legal Review _____

31 January/1 February 2013 Board Meeting

Central Valley Regional Water Quality Control Board
 11020 Sun Center Dr. #200
 Rancho Cordova, CA 95670