

ITEM: 16

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.

	<p>a. BAR 20 PARTNERS, LTD, A LIMITED PARTNERSHIP BETWEEN JOHN SHEHADEY AND RICHARD SHEHADEY, AND MICROGY, INC., BAR 20 DAIRY NO. 2, Fresno County</p> <p>Richard Shehadey and John Shehadey of Bar 20 Partners, LTD., own and operate the expanded Bar 20 Dairy No. 2 in Fresno County, which houses 10,457 Holstein milking and dry cows. The original dairy began operations in the early 1970s, and has operated under Order No. R5-2007-0035, Waste Discharge Requirements General Order for Existing Milk Cow Dairies since June 2007. Microgy, Inc, will construct, own, and operate an anaerobic digester at the Bar 20 No.2 Dairy to produce biogas that will be sold to Pacific Gas and Electric (PG&E). The proposed digester system will daily add an estimated 65,000 gallons of supplemental feedstock to the existing dairy wastes to operate the digester. The dairy/digester liquid waste will be retained in the holding ponds until applied to the 2,792 acres of associated cropland. The biogas generated in the digester system will be processed through an on-site scrubber and then delivered to the off-site gas distribution system via pipeline. Comments were received from the Discharger on 15 January 2008. The comments were generally minor editorial changes and the tentative order was revised to reflect most of the comments. (SMH)</p>
	<p>b. DE JONG INVESTMENT GROUP AND CLOVERDALE DAIRY LLC., CLOVERDALE DAIRY, Kings County</p> <p>The De Jong Investment Group, Cloverdale Dairy, LLC., operate the Cloverdale Dairy, and its associated cropland, in Kings County. The dairy currently houses 5,100 Holstein milking and dry cows, and is covered under Order No. R5-2007-0035, General Order for Existing Milk Cow Dairies. Microgy, Inc, will construct, own, and operate an anaerobic digester at the Cloverdale Dairy to produce biogas that will be sold to Pacific Gas and Electric (PG&E). The proposed digester system will daily add an estimated 32,400 gallons of supplemental feedstock to the existing dairy wastes to operate the digester. The dairy/digester effluent will be retained in holding ponds until applied to the 1,544 acres of associated cropland. The biogas</p>

	<p>generated in the digester system will be piped to the Hollandia Dairy where it will be processed through an on-site scrubber to remove hydrogen sulfide prior to delivery to the off-site gas distribution system. Comments were received from the Discharger on 15 January 2008. The comments were generally minor editorial changes, or adjustments in time schedules, and the tentative order was revised to reflect most of the comments. (KDJ)</p>
c.	<p>DE JONG INVESTMENT GROUP, HOLLANDIA FARMS, INC. AND MICROGY, INC., HOLLANDIA FARMS DAIRY, Kings County</p> <p>De Jong Investment Group, and Hollandia Farms Inc, own and operate the Hollandia Dairy in Kings County. The dairy currently houses a herd of 2,550 Holstein milking and dry cows, and is covered under Order No. R5-2007-0035, General Order for Existing Milk Cow Dairies (General Order). Microgy, Inc, will construct, own, and operate an anaerobic digester at the Hollandia Farms Dairy to produce biogas that will be sold to Pacific Gas and Electric (PG&E). The proposed digester system will daily add an estimated 15,800 gallons of supplemental feedstock to the existing dairy wastes to operate the digester. The dairy/digester effluent will be retained in holding ponds until applied to the 922 acres of associated cropland. The biogas generated in the digester system will be processed through an on-site scrubber and then delivered to the off-site gas distribution system via pipelines. Comments were received from the Discharger on 15 January 2008. The comments were generally minor editorial changes, or adjustments in time schedules, and the tentative order was revised to reflect most of the comments.</p>
d.	<p>LANSING, LLC AND WREDEN RANCH, LLC, WREDEN RANCH DAIRY, Kings County</p> <p>Lansing , LLC., and Wreden Ranch, LLC, own and operate the Wreden Ranch Dairy in Kings County. The dairy currently houses a herd of 5,460 Holstein milking and dry cows, and is covered under Order No. R5-2007-0035, General Order for Existing Milk Cow Dairies (General Order). Microgy, Inc, will construct, own, and operate an anaerobic digester at the Wreden Ranch Dairy to produce biogas that will be sold to Pacific Gas and Electric (PG&E). The proposed digester system will daily add an estimated 31,400 gallons of supplemental feedstock to the existing dairy wastes to operate the digester. The dairy/digester effluent will be retained in holding ponds until applied to the 1,627 acres of associated cropland. The biogas generated in the digester system will be piped to the Hollandia Dairy where it will be processed through an on-site scrubber and then delivered to the off-site gas distribution system via</p>

		<p>pipelines. Comments were received from the Discharger on 15 January 2008. The comments were generally minor editorial changes, or adjustments in time schedules, and the tentative order was revised to reflect most of the comments. (KWE)</p>
	e.	<p>THOMAS V. FOGARTY AND MARY R. FOGARTY, TRUSTEES, AND THOMAS V. AND MARY R. FOGARTY REVOCABLE TRUST, FOR POST-CLOSURE MAINTENANCE OF HUMBOLDT ROAD PRIVATE PROPERTIES OPERATIONAL UNIT, Butte County</p> <p>Thomas V. Fogarty and Mary R. Fogarty, Trustees of the Thomas V. and Mary R. Fogarty Revocable Trust dated 25 January 2000, own and operate Humboldt Road Private Properties Operational Unit (Unit) on part of Assessor's Parcel Number 011-500-138, adjacent to Dead Horse Slough, in Chico. The 7-acre Unit, containing approximately 100,000 cubic yards of compacted Humboldt Road Burn Dump waste, was closed in October 2005. Three groundwater monitoring wells, a leachate collection berm and detection system, two permanent survey monuments, a deed restriction, and financial assurance mechanism were completed following Unit closure. Groundwater samples have contained detectable barium, manganese, vanadium, zinc, nitrate as N, and salts at concentrations less than water quality objectives. This revised Order prescribes post-closure maintenance and revised monitoring requirements for the Unit. (KLC)</p>
	f.	<p>CHARLES FULTON, CAROL FULTON, AND FULTON FAMILY TRUST, FOR OPERATION OF FULTON RECLAMATION FACILITY INC., Glenn County</p> <p>Fulton Family Trust owns 273.1 acres in Glenn County, approximately five miles south of the City of Orland. The Fulton Reclamation Facility receives non-hazardous drilling mud and uses the material as a soil amendment on 232 acres by discing the dried mud into the upper 1-foot of native soil to improve soil texture, nutrient levels, and water holding capacity, creating an agriculturally more productive soil. Waste Discharge Requirements are being revised to reflect the proposed drilling mud application rate increase from 12 percent dry weight to 16 percent dry weight and to modify the monitoring and reporting program (KB).</p>
	g.	<p>Land O' Lakes, Inc., Orland Cheese Processing Plant, Glenn County</p> <p>The Discharger owns and operates a cheese processing plant west of Orland in Glenn County. The facility produces approximately 125,000 lbs per day of white cheddar cheese, and discharges approximately 160,000 gallons per day of</p>

		<p>process wastewater containing elevated levels of salts and organic compounds (BOD). Discharge is initially to a 6.4 million gallon compacted clay lined pond. From this pond wastewater effluent can either be pumped to a 6.6 million gallon double synthetic lined retention pond to the south or applied to a sprayfield via a center pivot irrigation system. Wastewater applied to crops grown in the sprayfield area is augmented with irrigation water supplied by the Orland-Artois Irrigation District. Groundwater quality in the vicinity of the discharge is determined by sampling and analysis of six monitoring wells. The installation of an additional monitoring well is required in these WDRs. Additionally the Discharger has been required to submit a salt reduction plan report. The Discharger recently installed a multiple effect evaporator for reducing the volume of ultra filter permeate. This has created a saleable product from a material that was formerly a waste stream. The organic and salt waste loads have been reduced by approximately 75% and 50% respectively. Surface water drainage from the plant site and spray field is to Walker Creek, thence to Willows Creek, thence to the Colusa Basin Drain, which is tributary to the Sacramento River.</p>
	h.	<p>FORMER BALTIMORE AIRCOIL COMPANY, INC., TRACK FOUR, INC., A WHOLLY OWNED SUBSIDIARY OF AMSTED INDUSTRIES INC., AND A FORMER OWNER, MERCK & CO., INC., MERCED COUNTY</p> <p>The former BAC Merced facility was used from 1961 to 1994 for cooling tower fabrication. In 1969, a pressure wood treatment system was installed at the facility that used treatment solutions containing arsenic, copper, and chromium. During the operations of the wood treatment system, waste treatment solution was discharged to soils and groundwater at the facility. The Waste Discharge Requirements are for implementation of an in situ groundwater treatment remedy involving the injection of a solution containing methanol and, if needed, ferrous sulfate. Contingency measures are required, including additional remediation to address impacts from dissolved solids or incomplete chemical treatment of chromium. (BLS)</p>
	i.	<p>CONTRA COSTA WATER DISTRICT AND VICTORIA ISLAND, LP, ALTERNATIVE INTAKE PROJECT DEWATERING DISCHARGE TO LAND, SAN JOAQUIN AND CONTRA COSTA COUNTIES.</p> <p>Contra Costa Water District plans to a) construct a new screened water intake and pump station on Victoria Island in San Joaquin County, b) perform levee improvements on Victoria Island to accommodate the intake and pump station, and, c) install a 12,000- to 14,000 foot long buried 6-foot diameter</p>

	<p>pipeline to convey raw water from the new intake across Victoria Island and under Old River to the existing Old River conveyance system on Byron Tract in Contra Costa County. The project will require extensive dewatering with discharge rates ranging from approximately 5,000 gallons per day to 2.1 million gallons per day. The project will likely be completed by February 2010. Extracted groundwater will be discharged to land owned by Victoria Island, LP. Surface water drainage is to the Sacramento and San Joaquin River Delta. (ALO)</p>
	<p>j. SIERRA BROOKS SUBDIVISION, RESOLUTION ALLOWING AN EXEMPTION FOR AN ENGINEERED RESIDENTIAL WASTEWATER DISPOSAL SYSTEM AT 924 SIERRA BROOKS DRIVE, SIERRA COUNTY</p> <p>The Sierra Brooks Subdivision is a large residential subdivision in eastern Sierra County. Waste from the entire community is currently treated via individual septic tanks and disposed of via individual leachfields; this discharge is regulated by Waste Discharge Requirements (WDRs) Order No. 85-039. Discharge Prohibition No. A.1. of WDRs Order No. 85-039 states, in part, that, "An exemption may be approved by the Regional Board if a report is prepared by a civil engineer registered in the State of California, supporting the engineering conclusion that a septic tank/leaching system on the parcel(s) in question will provide adequate treatment and disposal...The report must be approved by the Sierra County Health Department and the Regional Board before an exemption may be issued." The site conditions at Lot No. 116 at 924 Sierra Brooks Drive (APN 016-180-022) do not support a standard septic tank/leachfield design and therefore the Discharger's consultant has proposed an alternative engineered treatment and disposal system. Regional Water Board staff and Sierra County Health Department staff recently reviewed and approved the design and with the conditions listed in the proposed Resolution, the septic tank, effluent filter, and pressure dosed mound system will provide adequate treatment and disposal of domestic wastewater for the proposed residence allowing for compliance with WDRs Order No. 85-039. Surface water flows via Smithneck Creek to the Middle Fork of the Feather River. (BPK)</p>

RECOMMENDATION: Adopt the proposed waste discharge requirements.

Mgmt. Review _____

Legal Review _____

Central Valley Regional Water Quality Control Board
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 14 March 2008