

ITEM: 18

SUBJECT: Ironhouse Sanitary District Wastewater Treatment Plant, Contra Costa County

BOARD ACTION: *Consideration of a new NPDES Permit and Time Schedule Order*

BACKGROUND: The Ironhouse Sanitary District (District) owns and operates the Ironhouse Sanitary District Wastewater Treatment Plant (WWTP) and provides sewerage service for Oakley, Bethel Island and unincorporated areas in between, serving a population of approximately 31,200. The current WWTP consists of headworks, aerated ponds, and two effluent storage ponds. The Discharger disposes of disinfected secondary treated wastewater through irrigation of agricultural lands for hay and pastureland for grazing cattle. The current average dry weather flow (ADWF) is 2.64 mgd and the treatment ADWF capacity is 2.7 mgd.

The District has requested a year-round surface water discharge due to a lack of adequate storage and disposal capacity. The District proposes to construct a new wastewater treatment plant that will produce nitrified/denitrified, tertiary treated effluent, with ultraviolet (UV) light disinfection. The District will discharge up to 4.3 mgd (ADWF) of tertiary treated effluent, via a new outfall diffuser, to the San Joaquin River off of Jersey Island, within the Sacramento-San Joaquin Delta. The District would maximize land disposal and water reclamation with tertiary, nitrified/denitrified effluent and expects to begin construction in August 2008 with funding from the State Revolving Fund (SRF) loan program.

The proposed Order includes new effluent limitations for biochemical oxygen demand (BOD), total suspended solids, turbidity, total coliform organisms, copper, iron, fluoride, manganese, nitrate, ammonia, aluminum, chlorine residual, MBAS, and lead. A Time Schedule Order is proposed to provide a compliance schedule for meeting the new effluent limits for aluminum and manganese.

Comments on the tentative Orders were received from the Discharger, Central Valley Clean Water Association, CVCWA and Delta Diablo Sanitation District. A Response to Comments document is included in the agenda package. Some minor changes have been made to the proposed Order in response to the Discharger's comments.

ISSUES: None

Mgmt. Review \_\_\_\_\_  
Legal Review \_\_\_\_\_

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