

ITEM: 6

SUBJECT: City of Angels Wastewater Treatment Plant, Calaveras County

BOARD ACTION: *Consideration of New NPDES Permit*

BACKGROUND: The City of Angels (here after Discharger) owns and operates a publicly owned wastewater collection, treatment and disposal system that provides sewerage services to the City of Angels community, serving a population of approximately 3,400. Currently, the Discharger operates a tertiary wastewater treatment plant with a dry weather flow design capacity of 0.6 million gallons per day (MGD) and a wet weather flow of 1.9 MGD. After treatment, the disinfected tertiary treated effluent is pumped to a storage reservoir for subsequent spray irrigation of pasture land and on neighboring Greenhorn Creek golf course during the summer months. This existing discharge is regulated by Waste Discharge Requirements Orders No. 98-098 and 98-110.

The existing effluent storage and land disposal facilities are inadequate to prevent treated wastewater from overflowing the storage reservoir during intense rainfall events or very wet precipitation years. Due to the unique foothill location, additional land is not available for expansion of the land disposal area. In addition, the Discharger's Feasibility Study Report concludes that it is not cost-effective for the City to expand its effluent storage reservoir. As a result, the Discharger is proposing a surface water discharge of tertiary treated effluent from the plant to nearby Angels Creek during wet winter periods and only when the Creek flow to effluent ratio is at least 20:1 or greater.

This proposed new permit establishes requirements for the treatment and discharge of tertiary treated wastewater directly to Angels Creek. This proposed new permit includes technology and water quality-based effluent limitations at the point of discharge from the tertiary treatment facility to the Angels Creek. Water quality-based effluent limitations for ammonia, nitrate, nitrite, Bis(2-chlorethyl)ether, copper, dichlorobromomethane, electrical conductivity (EC), lead, and zinc are included in this permit.

This permit also establishes receiving water monitoring locations in Angels Creek upstream and downstream of discharge, and includes receiving water limitations within Angels Creek.

ISSUES: Significant issues are discussed in detail in the attached Staff Report.

Mgmt. Review _____

Legal Review _____

Region 5 Board Meeting
CVRWQCB
11020 Sun Center Drive #200
Ranch Cordova, CA 95670
3/4 May 2007