

Executive Officer's Summary Report
8:30 a.m., December 10, 2009
North Coast Regional Water Board
David C. Joseph Hearing Room
5550 Skylane Blvd., Suite A
Santa Rosa, California

Item: 6

Subject: Public Hearing Order No. R1-2009-0094 to consider adoption of proposed Waste Discharge Requirements to replace Order No. R1-2003-0044 in the matter of **Humboldt County Resort Improvement District No. 1 Shelter Cove Wastewater Treatment Facility** NPDES No. CA0023027, W DID No. 1B84086OHUM

DISCUSSION

The Humboldt County Resort Improvement District No. 1 (hereinafter Discharger) is currently discharging under Order No. R1-2003-0044 and National Pollutant Discharge Elimination System (NPDES) Permit No. CA0023027 adopted on May 15, 2003. The Discharger submitted a Report of Waste Discharge, dated July 21, 2008, and applied for an NPDES permit renewal to discharge an average dry weather flow of up to 0.17 million gallons per day (mgd) of treated wastewater from the Shelter Cove Wastewater Treatment Facility (hereinafter Facility). The application was deemed complete on February 24, 2009.

The Discharger owns the Facility, a wastewater collection, treatment, and disposal facility that serves a population of approximately 1,500 within the Humboldt County Resort Improvement District No. 1, and treats domestic wastewater. The Facility has an average dry weather design treatment capacity of 0.17 mgd, an average wet weather treatment capacity of 0.27 mgd, and a peak wet weather treatment capacity of 0.77 mgd. The Facility is an extended aeration, activated sludge system comprised of two oxidation ditches, two clarifiers, a disinfection system, and an advanced treatment filtration system for effluent reused for irrigation of the existing Shelter Cove golf course. During the winter period, all of the secondary treated effluent is discharged through Discharge Point 001 into the surf zone of the Pacific Ocean within the Kings Range National Conservation Area, an area designated in the California Ocean Plan as an Area of Special Biological Significance (ASBS). The minimum probable initial dilution at the outfall is calculated at 50 parts seawater per part wastewater (i.e., 50:1). During the spring, summer, and fall, some or all of the treated effluent is discharged through Discharge Point 002 to a storage pond that supplies a spray irrigation system on a Discharger-owned, nine-hole golf course.

This Order contains technology-based effluent limitations for biochemical oxygen demand, total suspended solids, pH, turbidity, grease and oil, and settleable solids for

the ocean discharge (Discharge Point 001). This Order also contains water quality based effluent limitations for total coliform organisms to ensure that the ocean discharge meets water quality objectives for bacteria established in the California Ocean Plan, and for total residual chlorine to ensure that the effluent discharge to the ASBS contains no measureable concentration of residual chlorine. A reasonable potential analysis was conducted for the remainder of pollutants in Table B of the Ocean Plan and showed no "reasonable potential" for any Table B pollutant. For pollutants with no "reasonable potential," routine effluent monitoring is specified for the five year term of the permit. Effluent limitations and discharge specifications consistent with Title 22 water reclamation criteria have also been established in this permit for the irrigation discharge to the golf course (Discharge Point 002).

A copy of the draft permit and/or information to access the draft on the Regional Water Board website was mailed to the Discharger and interested agencies. This item was opened for public comment between September 22, 2009 and October 22, 2009. The Discharger provided written comments on the draft permit in an email on October 22, 2009, requesting one minor change to the recycled water monitoring requirements specified in the draft Order. The proposed Order has been modified in response to the comment received. The Discharger's comments and staff's response are included as an attachment to this Staff Report.

PRELIMINARY STAFF
RECOMMENDATION:

Adopt the Order as proposed.