

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LAHONTAN REGION**

MEETING OF APRIL 11 AND 12, 2001

Lancaster

ITEM: 12

SUBJECT: **REVISED WASTE DISCHARGE REQUIREMENTS - U.S. MARINE CORPS LOGISTICS BASE; NEBO ANNEX DOMESTIC WASTEWATER TREATMENT FACILITY, SAN BERNARDINO COUNTY**

CHRONOLOGY: February 10, 1994 Revised Waste Discharge Requirements - Adopted (Board Order No. 6-94-28)

ISSUES: Should the Regional Board update Waste Discharge Requirements (WDRs) for the Nebo Annex Domestic Wastewater Treatment Facility?

DISCUSSION: The U.S. Marine Corps generates up to 0.4 million gallons per day (mgd) of domestic wastewater at its Nebo Annex, which is located along the Mojave River Channel. The wastewater is treated at the Nebo Domestic Wastewater Treatment Facility (Nebo DWTF), which is located approximately 0.4 miles downstream of the incorporated area of Barstow. The present wastewater treatment processes include preaeration, grit removal, primary sedimentation and two-lined oxidation ponds. Sludge from primary sedimentation is treated by anaerobic solids digestion. Disposal of treated wastewater is by percolation ponds located adjacent to the Mojave River Channel.

The Discharger formerly disinfected a portion of the oxidation pond effluent to produce recycled water for irrigation of the adjacent Nebo Golf Course. This was discontinued in 1995 because chlorination equipment used at that time no longer provided reliable disinfection. The Discharger currently irrigates the golf course with ground water from onsite wells, but may decide to return to recycled water use. The Proposed Order requires the Discharger to submit an updated Engineering Report and receive appropriate approvals before resuming use of recycled water for golf course irrigation.

A schedule is included, which the Discharger must meet to prepare a Feasibility Report that will evaluate alternatives to address compliance with a new (more stringent) limit for total phenols.

The Proposed Order includes a schedule the Discharger must follow to prepare a Phase I Report to determine the extent of degradation caused by the Discharger's percolation ponds. Monitoring reports submitted by the Discharger indicate that the discharge and ground water underlying the discharge point both contain concentrations of total dissolved solids (TDS) and nitrate above background concentrations. A U.S. Geological Survey report dated 1997 identified the source of the TDS and nitrate degradation as the cumulation impact of the Nebo DWTF and other upgradient discharges. The report does not indicate the portions of degradation contributed by each source. The Phase I Report is needed to quantify the contribution of the Nebo DWTF to local ground water degradation.

Regional Board staff has solicited comments from interested parties. Written comments were received from the Discharger and California Department of Water Resources (DWR). Verbal comments concurring with the Proposed Order were received from the California Department of Health Services. Board staff has incorporated comments from DWR and the Discharger in this order. There were no other comments.

RECOMMENDATION:

Adoption of Order as proposed.

Enclosure:

Proposed Board Order