

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

TENTATIVE ADDENDUM NO. 4
TO
ORDER NO. 97-52

WASTE DISCHARGE AND WATER RECYCLING REQUIREMENTS
FOR THE
SOUTH ORANGE COUNTY RECLAMATION AUTHORITY
ORANGE COUNTY

The California Regional Water Quality Control Board, San Diego Region (hereinafter Regional Board), finds that:

1. Order No. 97-52 prescribes Waste Discharge and Water Recycling Requirements for the production and purveyance of recycled water by member agencies of South Orange County Reclamation Authority (SOCWA).
2. SOCWA (hereinafter Discharger) on behalf of one of its member agencies, the Santa Margarita Water District (SMWD), submitted a Report of Waste Discharge for an amendment of Order No. 97-52 to established requirements for the discharge from the Horno Urban Water Recovery Facility (UWRF).
3. The Horno UWRF is located at the southern end of the Ladera Ranch planned community, in Tract 15793 within the Horno Creek Hydrologic Subarea (HAS 901.27) of the San Juan Creek Watershed. The facility is designed to divert urban runoff flows, which are collected in the Horno Water Quality Basin, to the SMWD's recycled water distribution system for subsequent landscape irrigation use. The Horno Water Quality Basin is owned and operated by the County of Orange.
4. The urban runoff flows will be diverted through the Horno Water Quality Basin, and flow through seven acres of constructed wetlands, owned by Ladera Ranch Homeowners Association, prior to blending with recycled water. The diverted urban runoff will provide approximately 180 acre-feet of supplemental water during dry weather months.
5. The sample results of water collected at the point of diversion between November 2004 and April 2005 was reported having average concentrations of the following constituents in milligrams per liter (mg/L):

Constituent	Average Concentration	Constituent	Average Concentration
Total Dissolved Solids	686	Nitrate (as N)	0.6
Boron	0.22	Sulfate	349
Sodium	57	Fluoride	0.275
Chloride	48.5	Total Phosphorus (as P)	0.4

