

EXECUTIVE OFFICER SUMMARY REPORT
November 13, 2012

- ITEM: 8
- SUBJECT: Waste Discharge Requirements Addendum: Modification of Waste Discharge Requirements and Water Recycling Requirements for the Production and Purveyance of Recycled Water for Padre Dam Municipal Water District, San Diego County (Tentative Addendum No. 1 to Order No. 97-49) (Fisayo Osibodu).
- PURPOSE: To consider adopting Tentative Addendum No. 1 to Order No. 97-49
- RECOMMENDATION: Adoption of Tentative Addendum No. 1 to Order No. 97-49 is recommended.
- KEY ISSUES:
1. Tentative Addendum No. 1 to Order No. 97-49 (tentative Addendum) will allow Padre Dam Municipal Water District (District) to supply recycled water to municipalities in its service area for street sweeping and sewer flushing.
 2. The tentative Addendum modifies Order No. 97-49 by adding requirements the District must comply with to ensure that the proposed use of recycled water, for street sweeping and sewer flushing, will not adversely affect public health or water quality.
- DISCUSSION: Order No. 97-49, *Waste Discharge Requirements and Water Reclamation Requirements for the Production and Purveyance of Recycled Water for Padre Dam Municipal Water District, San Diego County*, establishes requirements for the discharge of up to 2.0 million gallons per day of tertiary treated recycled water from the Ray Stoyer Water Reclamation Facility, formerly the Padre Dam Water Reclamation Facility (facility). Recycled water produced from the facility is currently discharged into Santee Lakes and distributed to numerous recycled water use sites, where it is used almost exclusively for landscape irrigation.

Tentative Addendum No. 1 to Order No. 97-49 (Supporting Document No. 1) modifies Order No. 97-49 by authorizing the use of recycled water for street sweeping and sewer flushing. Upon adoption of the tentative Addendum, Padre Dam Municipal Water District (District) intends to use recycled water for sewer flushing within its sanitary sewer system, and provide recycled water to the City of Santee for street sweeping (Supporting Document No. 2).

Recycled water will be used for street sweeping within the Santee and El Cajon Hydrologic Areas, which are hydrologic areas covered by Order No. 97-49. The main surface water body within the Santee Hydrologic Area is the San Diego River. The lower six miles of the San Diego River is listed as being impaired¹ for enterococcus, low dissolved oxygen, fecal coliform, nitrogen, phosphorus, TDS, and toxicity (Supporting Document No. 3).

Recycled water used for sewer flushing poses no threat to water quality because the use of water will be entirely within a sanitary sewer system. Recycled water used for street sweeping has the potential to minimally increase TDS and nutrient loading to surface streams because residual salts may be left on roadways after evaporation of the thin film of recycled water left by the street sweeper. Impacts to surface water are not expected, however, because the recycled water will be highly treated, the volume of recycled water used will be small (maximum of 137,280 gallons per year), and the constituents will be diluted in storm water runoff and might not exceed TDS or nitrate water quality objectives.

Furthermore, the principal source of TDS and nitrates to the San Diego River system are dry weather flows. These flows are typically an order of magnitude higher in annual volume than street sweeping volumes, and have significantly higher concentrations of TDS and nitrate. The solution to TDS and nitrogen impairments in the San Diego River is elimination of these concentrated dry weather flows.

Adoption of the tentative Addendum will allow for the use of recycled water as the alternative to potable water for street sweeping and sewer flushing. An information sheet, which summarizes the facts and technical analyses relied upon in

¹ Listed on the 2008 edition of the 303d List of Impaired Water Bodies:
http://www.waterboards.ca.gov/sandiego/water_issues/programs/303d_list/docs/updates_020910/App_B_All_Decisions.pdf

developing the findings and requirements specified in the tentative Addendum, is included as Supporting Document No. 4.

The tentative Addendum includes requirements to ensure that the use of recycled water for street sweeping and sewer flushing will not adversely affect public health or water quality. The requirements are based on comments on the project offered by the California Department of Public Health, technical guidance developed by the San Diego County Water Authority for agencies interested in using recycled water for street sweeping, and on requirements prescribed by other Regional Water Boards. In addition, the tentative Addendum requires the District to develop a salt and nutrient management plan for the Santee/El Monte groundwater basin pursuant to the State Water Board Recycled Water Policy.

The comment period for this item ends on November 2, 2012. Comments (if any) and responses will be provided in a Supplemental Executive Officer Summary Report for this item. For further reference, a copy of Order No. 97-49 can be found on-line at:

http://www.waterboards.ca.gov/sandiego/board_decisions/adopted_orders/1990/1997_0049.pdf.

LEGAL CONCERNS:

None.

SUPPORTING DOCUMENTS:

1. Tentative Addendum No. 1 to Order No. 97-49
2. Map Showing Padre Dam Municipal Water District's Service Area
3. Current 303d Listing for the San Diego River
4. Information Sheet for Tentative Addendum No. 1 to Order No. 97-49
5. Notification Letter

SIGNIFICANT CHANGES:

1. The tentative Addendum adds requirements for the use of recycled water for street sweeping and sewer flushing within the District's service area.
2. The tentative Addendum requires the District to develop a salt and nutrient management plan for the Santee/El Monte groundwater basin.

COMPLIANCE
RECORD:

No violations of Order No. 97-49 have been identified in monitoring reports submitted by the District during the past two years.

PUBLIC NOTICE:

Notification of this action was sent to known interested parties by mail on October 3, 2012 (Supporting Document No. 5). The tentative Addendum was also posted on the San Diego Water Board website on October 5, 2012. These actions satisfy the public notification requirements of California Water Code, Division 7, section 13167.5 for a 30-day notice.