



South Coast Water District Recycled Water Distribution Bottleneck Upsizing Project

Water and Energy Savings and GHG Calculations Briefing

The increased diameter of the recycled water line will allow an increase in the volume of the recycled water from **867 MG/year** to **945 MG/year**, which translates to **78 MG/year** savings in use of potable water.

South Coast Water District's project implements increasing efficient use of recycled water from municipal wastewater source by increasing the capacity of the recycled water system in required in eliminating potable water irrigated landscape at County of Orange Dana Point Harbor, State of California Doheny Beach Park, City of Dana Point Lantern Bay Park, Lantern Bay Villas HOA and Lantern Bay Estates HOA. The SCWD recycled water system begins at the Coastal Wastewater Treatment Plant in Laguna Beach, California (the source). Effluent from the Coastal Wastewater Treatment Plant is treated by an Advanced Wastewater Facility and Water Reclamation Facility, and supplies the recycled water distribution system. The distribution system has a termination point north of the County of Orange Dana Point Harbor. This project will remove an existing "bottleneck" in the recycled water system by replacing 6,600 linear feet of ten-inch diameter recycled water pipeline with twelve-inch diameter recycled water pipeline. An existing District Ordinance requires potable water irrigation users to convert to recycled water once distribution system is available. On-site conversions are not included in this project and are the responsibility of the converting owner. This project can be completed by February 2016, will allow the full capacity of the existing advanced wastewater treatment plant to be available in the system, and reduce head-loss in the existing 6,600 feet of pipe by fifty percent. The water usage is based upon the increased capacity allowing an additional 150 gallons per minute (gpm) to the recycled water distribution system. This is based upon the 2007 SCWD Master Plan (prepared by PBS&J) and a 2008 Recycled Water System Report (prepared by Dudek).



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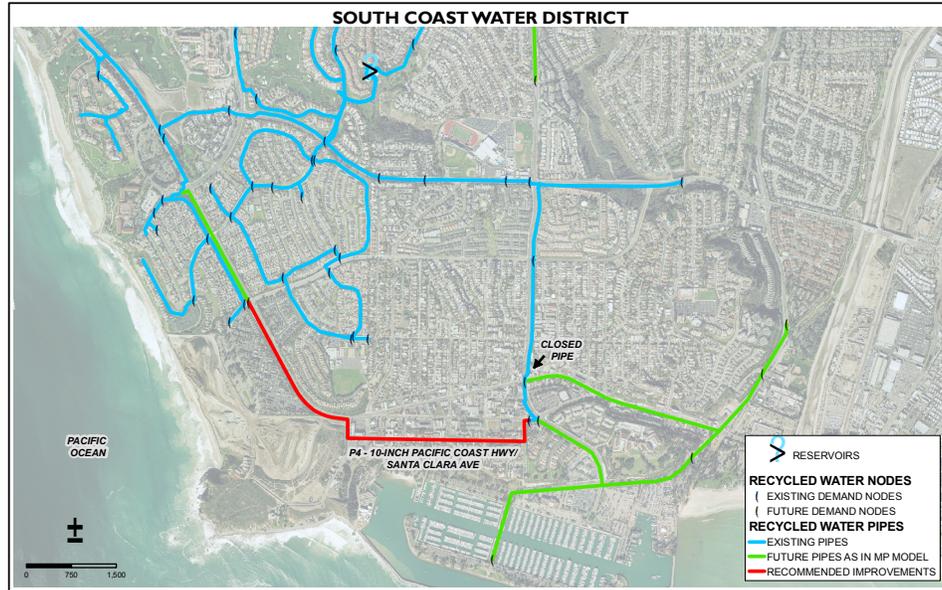


Exhibit 1 – Expanded area covered by recycled water resulting in potable water savings