

San Diego Integrated Regional Water Management

2022 Proposition 1, Phase 2 Implementation Grant Overview

The San Diego IRWM program was awarded \$16 million in 2022 from the Department of Water Resources for its 2022 Proposition 1 Round 2 Implementation Grant. This proposal included six projects that would help meet the Region’s water management needs.

Project 1: The Acres Safe Drinking Water – Phase 1, Part 2

This project will consolidate residences in the Acres Community, a disadvantaged community (DAC), into the Ramona Municipal Water District (MWD) water system by converting seven “spaghetti lines” to a direct connection with the water main. The project includes construction of 2,850 feet of 8-inch water main and associated appurtenances, including three 8-inch tees, nine 8-inch gate valves, and six 6-inch fire hydrant assemblies. Currently, the Acres Community is predominantly served by private wells, which are high in total dissolved solids, nitrates, and uranium, but also receives some supplementary service from Ramona MWD via “spaghetti lines,” small, private water lines prone to breakage. The proposed water main and appurtenances will expand access to safe drinking water to the Acres Community. Once completed, this project will provide about 7.2acre-feet per year (AFY) of water supply reliability and fire protection.



Project 2: The Federal Boulevard De-Channelization and Trail Construction Project



This project will replace more than 1,000 linear feet of concrete channel in Chollas Creek along Federal Boulevard with a natural channel, lined with native vegetation. The segment of Chollas Creek slated for de-channelization is in the underserved San Diego neighborhoods of Eastern Area and City Heights, both of which qualify as DACs. Decades of concrete channelization and underground diversion of Chollas Creek has degraded water quality, reduced groundwater infiltration, and heightened risk of flooding on nearby Federal Boulevard. The project will consist of replacing a concrete channel segment of Chollas Creek with a naturalized soft bottom lined with natural stone, developing an adjacent recreational trail equipped with stormwater capture features, and construction a climate resilient mini park. Once completed, the project will increase the amount of surface water able to infiltrate into

the groundwater basin, protect Federal Boulevard from flood risk, and reduce the urban heat island effect by planting hundreds of native trees.

Project 3: Ramona/Barona Recycled Water Pipeline Project

This project will construct a new 8-inch, 10,300-foot PVC pipeline from Ramona MWD’s existing San Vicente Water Reclamation Plant (WRP) to an existing non-potable pipeline on the Reservation of the Barona Band of Mission Indians. Currently, the Reservation relies on a combination of groundwater and recycled water for irrigation. However, due to groundwater depletion, the Barona WRP lacks sufficient flows to generate recycled water. Ramona MWD can convey surplus recycled water from the San Vicente WRP to the Reservation, a qualified DAC, via the proposed pipeline. Once completed, the project will provide 250 AFY of recycled water for non-potable uses and allow the Tribe to reduce groundwater pumping by an average of 200 AFY, improving groundwater storage and levels and protecting it from the effects of over pumping.



Project 4: North San Diego Water Reuse Coalition – Regional Recycled Water Program

This project will begin the next phase of implementation for a Regional Recycled Water Program throughout the North San Diego Water Reuse Coalition (NSDWRC) service area. Seven of nine NSDWRC members are partnering to expand capacity and connectivity between the NSDWRC combined recycled water storage and distribution systems. The project elements include the construction of a 1.5 MGD steel tank at Carlsbad MWD’s Tank Site D, the incorporation, extension, replacement, and construction of four recycled water pipelines across the NSDWRC service area, the rehabilitation of Rincon del Diablo MWD’s Beethoven and Iris Pump Stations to convey recycled water from Escondido’s Hale Avenue Resource Recovery Facility to Rincon del Diablo MWD customers, and the expansion of the Vallecitos Water District Meadowlark Chlorine Contact Tank from 5 to 6.5 MGD capacity. Once completed, this project will create 180 AFY of new recycled water supply and yield 2,353 AFY of recycled water production reliability.



Project 5: Integrated Multi-Benefit Solutions for Climate Resiliency in the San Diego Region



This 3-component project will enable the San Diego County Water Authority to implement comprehensive water-use efficiency programming in partnership with the City of San Diego. The first component will target 20 large landscape properties – 14 Commercial Industrial Institutional and 6 DAC – for replacement of turf and inefficient irrigation, saving approximately 200 AFY. The second component will install inefficient toilets and showerheads and leak detection devices and provide sustainable residential landscapes and green infrastructure in a public space in a DAC and EDA community, saving approximately 24 AFY. The third component provides water conservation education and outreach, including promoting the availability of residential water conservation rebates for approximately 700 rain barrels, 40 downspout redirects, 13,000 linear feet of gutter replacement and over 300,000 square feet of turf replacement, saving approximately 43 AFY. Once completed, this project will save approximately 267 AFY.

Project 6: City of Oceanside Mesa Garrison Force Main (OMG FM) River Crossing Project

This project will support the construction of new wastewater infrastructure, including the Oceanside Mesa Garrison Force Main (OMG FM), that will convey wastewater from the La Salina Wastewater Treatment Plant (LSWWTP) to the San Luis Rey Water Reclamation Facility (SLRWRF). The City of Oceanside is in the process of decommissioning the aging LSWWTP and is planning to reroute all flows to the SLRWRF, which is collocated with a newly constructed 4.5 MGD indirect potable reuse Advanced Water Purification Facility (AWPF) and an expanded 3.0 MGD Title 22 recycled water treatment plant. This essential project to the larger OMG FM project will install 1,000 linear-feet of sewer force main at the San Luis Rey River. This will enable the City to divert sewer flows to SLRWRF, creating 1.4 MGD (1,596 AFY) of Title 22 recycled water and eventually adding an additional 1.5 MGD (1,680 AFY) of indirect potable reuse water, once the AWPF is expanded by 2030 or earlier, reducing the City’s demand for imported water by 3,276 AFY.

