

EAST COUNTY ADVANCED WATER PURIFICATION PROJECT

STATE PROGRAM: California State Water Resources Control Board

ASSISTANCE RECIPIENT: East County Advanced Water Purification Joint Powers Authority

ASSISTANCE AMOUNT: \$378,150,850



PROJECT DESCRIPTION

The East County Advanced Water Purification Project is a potable reuse project in East San Diego County, California that will treat wastewater from the service area of the Padre Dam Municipal Water District, the majority of the City of El Cajon, and three unincorporated areas of San Diego County (Alpine, Lakeside, and Winter Gardens). The project will include construction of an advanced water purification facility to provide full advanced treatment (FAT) to recycled water. FAT includes four highly advanced water purification steps (microfiltration, reverse osmosis, ultraviolet disinfection/advanced oxidation, and free chlorine disinfection) in conformance with California regulations. This project will generate up to 17,400 acre-feet per year of new drinking water supply by providing FAT to recycled water and conveying the treated water to Lake Jennings to help with surface water augmentation. This project will diversify East San Diego County's water supply and reduce the region's dependence on imported water by creating a new, local, sustainable, and drought-proof drinking water supply. The project will also re-purpose water treatment byproducts for beneficial use, including electricity generation.

To read more about this case study, please visit <https://www.epa.gov/system/files/documents/2023-04/pisces-2022-compendium.pdf>.