BUREAU OF RECLAMATION

# 2020 Title XVI Project Descriptions

## California

### City of Escondido, San Diego Area Water Reclamation Program, Membrane Filtration Reverse Osmosis Facility, Reclamation Funding: $3,069,303

Located in northern San Diego County, the City of Escondido's Membrane Filtration Reverse Osmosis (MFRO) Project will provide an additional water supply source to the City's agricultural users. The project will construct a facility to treat recycled water using membrane filtration and reverse osmosis technologies to produce high-quality recycled water low in total dissolved solids (TDS) and chlorides. This water will be provided to agricultural growers who produce crops that require high-quality water and are essential to the local economy. Upon completion, the project will produce up to 2,226 acre-feet of water annually.

### City of San Diego, San Diego Area Water Reclamation Program, Pure Water San Diego Program, Reclamation Funding: $1,160,139

The Pure Water San Diego Program is a phased, multi-year program. By 2035, the program will make available 93,000 acre-feet of water per year, or approximately 30 percent of the City of San Diego's water supply. The first two phases of the program are expected to produce 33,600 acre-feet of water suitable for potable reuse. Funding requested will be used to complete the final design for Phases 1 and 2 of the Program. The program will provide the City with a new reliable source of potable water by increasing reclaimed water use, which will also reduce the amount of wastewater released into the ocean.

### Elsinore Valley Municipal Water District, Elsinore Valley Municipal Water District Projects, California, Regional Wastewater Reclamation Facility Expansion Project, Reclamation Funding: $1,397,974

The Regional Wastewater Reclamation Facility in Riverside County, California, is projected to reach its treatment capacity in the next few years. An increase in population is expected to almost double the potable water demand in the area by 2035. The Expansion Project will increase the capacity of the Regional Wastewater Reclamation Facility by 4,480 acre-feet annually, which will be used for irrigation and indirect potable reuse. The expansion project will increase local recycled water production and create a more reliable water supply for the Elsinore Valley Municipal Water District's customers.

### Long Beach Water Department, Treatment of Effluent from the Sanitation Districts of Los Angeles County through the City of Long Beach, Tanks 19 and 20 Conversion Project, Reclamation Funding: $692,578

The Long Beach Water Department's water recycling system located in the City of Long Beach, California, currently includes approximately 26 miles of pipeline, four booster pump stations, and three above ground storage tanks. The system recycles wastewater from the Sanitation Districts of Los Angeles County's Long Beach Water Reclamation Plant for landscape irrigation and industrial use. The Tanks 19 and 20 Conservation Project will convert two potable water storage tanks to recycled water tanks increasing the storage available by 8,880 acre-feet per year. This recycled water is currently being discharged due to a lack of available storage. The additional recycled water storage allows the Long Beach Water Department to meet the peak demand for recycled water.

### Long Beach Water Department, Treatment of Effluent from the Sanitation Districts of Los Angeles County through the City of Long Beach, Expansion of Recycled Water System and Improved Efficiency in Water Reclamation of the El Dorado Duck Pond, Reclamation Funding: $1,217,829

The Long Beach Water Department's water recycling system located in the City of Long Beach, California, currently includes approximately 26 miles of pipeline, four booster pump stations, and three above ground storage tanks. The system recycles wastewater from the Sanitation Districts of Los Angeles County's Long Beach Water Reclamation Plant for landscape irrigation and industrial use. The Expansion of Recycled Water System and Improved Efficiency in Water Reclamation of the El Dorado Duck Pond Project will convert the existing El Dorado Duck Pond to recycled water storage, including a pipeline to irrigate the nearby Eldorado Golf Course. Conversion of the pond will enable the use of 552 acre-feet of recycled water per year.

### Mojave Water Agency, Southern California Desert Region Integrated Water and Economic Sustainability Plan, Upper Mojave River Groundwater Regional Recharge and Recovery Project Improvements, Reclamation Funding: $2,659,802

The Upper Mojave River Groundwater Regional Recharge and Recovery Project (R3 Project), located in San Bernadino County, California, includes recharge basins, conveyance pipelines, pumps, reservoirs, groundwater wells, and turnouts to store State Water Project water and blend it with local impaired groundwater. The R3 Project will help address groundwater overdraft, impaired water quality, and the continued decline of groundwater levels. The R3 Project Improvements will extend service to the City of Adelanto by providing the City a direct turnout on the R3 Project, which will reduce the City's dependence on an over-drafted groundwater supply. The improvements also include the construction of the R3 Central Operations Center to house the centralized Supervisory Control and Data Acquisition system (SCADA) and control room for the entire R3 Project enabling Mojave Water Agency staff to manage the water systems pumps, valves, reservoirs, and wells. Lastly, the improvement project includes the construction of protective fencing to minimize risk to the operation of recharge areas.

### Padre Dam Municipal Water District, San Diego Area Water Reclamation Program, East County Advanced Water Purification Program, Reclamation Funding: $4,000,000

Padre Dam Municipal Water District (District) is implementing the Phase I Water Recycling Project, which includes the expansion of the Ray Stoyer Water Reclamation Facility, construction of a new advanced water purification facility, potable reuse conveyance pipelines, a product water pump

station, and a biosolids digestion facility to offset energy demands of the project. Funding requested will be used for planning, design, and some construction costs. The project will create 3,900 acre-feet per year of potable water by capturing wastewater flows that would otherwise be discharged to the ocean, allowing the District to increase local water supplies.

## Hawaii

### City and County of Honolulu, Hawaii Reclamation Projects, Kalaeloa Seawater Desalination Project, Reclamation Funding: $1,026,272

The Kalaeloa Seawater Desalination Facility in Kalaeloa, Ewa, Oahu will provide 1,904 acre-feet of potable water for the Ewa District, which receives only 20 inches of annual rainfall and is subject to frequent drought conditions. The project allows local groundwater aquifers to stabilize and be replenished by providing a new source of potable water. Once completed, the project will include source water wells, pretreatment facilities, reverse osmosis facilities, post-treatment facilities, a water transmission main, brine disposal facilities, a control building, and a chemical storage building.

**County of Hawaii, Hawaii Reclamation Projects, Kealakehe Wastewater Treatment Plant R-1 Upgrade Project, Reclamation Funding: $1,459,056**

The County of Hawaii will conduct planning activities to evaluate upgrading the Kealakehe Wastewater Treatment Plant to implement water recycling for landscape and recreation applications. The project involves necessary improvements to the existing secondary treatment process so that the wastewater treatment plant can produce water suitable for reuse in accordance with state guidelines. The first phase of the project includes expanded treatment, new pipelines, and storage components. The project is expected to result in recycled water deliveries of 2,016 acre-feet per year, which will contribute toward building resiliency for the region's long-term water supply.