



Fiscal Year 2022 Title XVI Project Selections

California

Big Bear Area Regional Wastewater Agency, Replenish Big Bear

Reclamation Funding: \$8,267,112

The Replenish Big Bear Project will help protect Big Bear Valley and the Santa Ana Watershed from the impacts of drought, variable precipitation, and climate change. Replenish Big Bear includes construction of advanced treatment facility upgrades at the existing wastewater treatment plant, conveyance pipelines for treated water and concentrate, a groundwater recharge facility, and monitoring wells. The project will provide a new source of advanced treated water for multiple benefits including groundwater recharge to provide drinking water and water for other municipal or commercial uses, contribute to habitat for endangered species, reestablish and maintain the Stanfield Marsh Wildlife and Waterfowl Preserve, and increase the level of Big Bear Lake. The project will make 1,950 additional acre-feet of water available annually once complete.

Carpinteria Valley Water District, Carpinteria Advanced Purification Project

Reclamation Funding: \$9,659,990

The potable reuse project will augment the Carpinteria Groundwater Basin with advanced treated recycled water. Through recharge of the groundwater basin with recycled water supplies, the project will create a local supply of potable water that is resilient to drought, reduce reliance on imported water from the Bay-Delta, limit potential seawater intrusion into the aquifer, and reduce discharge to the Pacific Ocean. The project facilities are designed for a capacity of 1,120 acre-feet of recycled water annually. Project components include an advanced water purification facility with membrane filtration, reverse osmosis, an advanced oxidation process, a purified water pump station, 9,000 feet of pipeline, two injection wells, and up to four monitoring wells.

Coachella Valley Water District, Water Reclamation Plant 10 (WRP-10) Non-Potable Water System

Reclamation Funding: \$12,276,517

The Coachella Valley Water District will expand an existing wastewater reclamation plant and distribution system to increase non-potable recycled water use for landscape irrigation. The project is expected to enhance the sustainability of groundwater supplies and to eliminate the

need for additional disposal of secondary treated wastewater. Once complete, the facility is expected to produce 5,200 acre-feet per year of recycled water.

**Eastern Municipal Water District, Purified Water Replenishment Project
Reclamation Funding: \$10,000,000**

The Eastern Municipal Water District in southern California will complete an indirect potable reuse project to convey recycled water from the San Jacinto Valley Regional Water Reclamation Facility to groundwater recharge ponds in the upper San Jacinto groundwater basin. The project will advance the district's objectives of fully utilizing recycled water within the service area, maximizing potable water offset, creating new local water potable water supplies, minimizing cost, and managing the salt balance in the groundwater basin. Once completed, the project will have a capacity of 15,000 acre-feet of recycled water annually.

**Irvine Ranch Water District, Syphon Reservoir Improvement Project
Reclamation Funding: \$12,245,625**

The Irvine Ranch Water District will expand the capacity of the Syphon Reservoir by replacing the existing 59-foot-high Syphon Dam with a new 136-foot-high embankment dam. During periods of low demand, surplus recycled water and excess treated sewage effluent are currently discharged to the ocean because of the limited storage capacity. Additional storage for recycled water during the winter months will allow the district to meet more demands using recycled water, which will offset 2,300 acre-feet of imported supplies annually during peak demand periods.

**Jurupa Community Services District, Joint IEUA-JCSD Recycled Water Intertie Project
Reclamation Funding: \$12,275,000**

The Jurupa Community Services District near Riverside, California, will construct a pump station and approximately 70,000 feet of pipeline to convey recycled water to customers and Inland Empire Utilities Agency connection points. The project is Phase I of the Joint Recycled Water Intertie Project with Inland Empire Utilities Agency. Irrigation customers along the pipeline alignments will be converted from potable to recycled water use, reducing the need for imported supplies. Upon completion, 3,160 acre-feet of recycled water will be made available by the project each year.

**Las-Virgenes-Triunfo Joint Powers Authority, Pure Water Project Las Virgenes-Triunfo
Reclamation Funding: \$10,199,637**

The Las-Virgenes-Triunfo Joint Powers Authority in southern California will carry out an indirect potable reuse project to produce a new, local, drought-resilient water supply through reservoir water augmentation. The project will treat up to 7.5 million gallons per day of tertiary recycled water at a new advanced water purification facility. Once completed, the project is expected to provide up to 5,000 acre-feet per year of drinking water supply for the Las Virgenes Reservoir,

reducing imported water demand for the service area. The project will also eliminate the need to discharge unused tertiary recycled water into Malibu Creek.

Monterey One Water, Expanded Pure Water Monterey Groundwater Replenishment Project

Reclamation Funding: \$10,316,822

The expanded Pure Water Monterey project will produce up to 10,150 acre-feet of reliable, drought resistant water supply for communities in Monterey County, California. The project includes an advanced water purification facility, a conveyance system to transport the purified water, and new injection well facilities. The project will treat secondary effluent from a local wastewater treatment plant, municipal urban runoff, stormwater, and agricultural wash water. Uses for the recycled water include recharging the Seaside Groundwater Basin and agricultural crop irrigation, which will reduce pumping from the over-drafted Salinas Valley Groundwater Basin.

City of Morro Bay, Water Reclamation Facility Project

Reclamation Funding: \$9,310,095

The City of Morro Bay will construct a water reclamation facility that incorporates advanced treatment for indirect potable reuse. The project includes treatment facilities, a recycled water storage tank, pump station, pipeline and injection well field. The project is expected to produce 825 acre-feet of recycled water annually, which will be injected into the Morro Basin to supplement extracted groundwater at the City's existing drinking water wells.

City of Oceanside, Pure Water Oceanside Program

Reclamation Funding: \$9,941,533

The City of Oceanside will construct Pure Water Oceanside, a potable reuse project to augment the Mission Groundwater Basin with advanced treated recycled water. Through recharge of the groundwater basin with recycled water supplies, the project will create a new local supply of potable water that provides increased resilience to drought and climate change, reduce secondary effluent discharged to the Pacific Ocean, reduce dependence on imported water, and improve the long-term groundwater quality in the basin. The project will include the construction of an advanced water treatment facility, conveyance pipelines, injection wells, backwash piping, and monitoring wells. The project is expected to create 3,360 acre-feet of additional water supply for the city annually.

Olivenhain Municipal Water District, North San Diego Water Reuse Coalition Regional Recycled Water Program: 2020 Project

Reclamation Funding: \$17,826,952

Olivenhain Municipal Water District and other partners in the North San Diego Water Reuse Coalition are constructing a recycled water project to provide a reliable, drought-resistant approach for augmenting local and imported water supplies. This regional recycled water

project includes interagency connections to increase the capacity and connectivity of the Coalition partners combined recycled water storage and distribution systems. The project is expected to deliver an additional 9,060 acre-feet per year of recycled water upon completion.

Padre Dam Municipal Water District, East County Advanced Water Purification Program - Phase 2

Reclamation Funding: \$28,300,000

The Padre Dam Municipal Water District in San Diego County will complete Phase II of the East County Advanced Water Purification Program. The project includes expansion of the existing Ray Stoyer Water Recycling Facility, expansion of the solids handling facility, and expansion of the advanced water purification facility. The project is expected to result in an additional 8,960 acre-feet per year of local potable water supply.

City of Palo Alto, City of Palo Alto Advanced Water Purification System, Local Project

Reclamation Funding: \$12,867,875

The City of Palo Alto will construct an advanced water purification system at the Regional Water Quality Control Plant to further treat a portion of the effluent through microfiltration followed by reverse osmosis. The project will result in improved recycled water quality with reduced levels of total dissolved solids, which is intended to encourage increased recycled water use. The project is expected to offset potable supplies by 3,100 acre-feet per year by providing enhanced recycled water to local users who would otherwise use potable water to meet their recycled water demands.

City of Pismo Beach, Central Coast Blue

Reclamation Funding: \$14,124,000

The City of Pismo Beach on California's Central Coast will construct a regional indirect potable reuse water project to recover water currently discharged into the ocean. The project is intended to protect against seawater intrusion by injecting up to 4,390 acre-feet per year of recycled water into the Santa Maria Groundwater Basin. The project includes construction of an advanced water purification facility that uses ultrafiltration, reverse osmosis, and ultraviolet advanced oxidation process to treat wastewater to the required level of quality for groundwater injection.

Sacramento Regional County Sanitation District, Harvest Water Program

Reclamation Funding: \$24,115,808

The Sacramento Regional County Sanitation District will complete the Harvest Water Program to replace surface water and groundwater with recycled water to irrigate agriculture and provide water for habitat and conservation lands. The project includes construction of a pump station, approximately 14 miles of transmission pipelines, 25 miles of distribution mains, and lateral connections. Once completed, the project is expected to deliver up to 50,000 acre-feet per year of treated recycled water to irrigate approximately 16,000 acres of farmland, conserve 400 acres

of managed wetlands in the Stone Lakes National Wildlife Refuge, and improve groundwater levels in the Central Basin through in-lieu recharge.

City of San Buenaventura, VenturaWaterPure Program

Reclamation Funding: \$14,026,650

The City of San Buenaventura will construct treatment and conveyance facilities to produce up to 5,400 acre-feet per year of local recycled water to meet projected potable water demands. The project will divert tertiary-treated effluent from the water reclamation facility, currently being discharged to the Santa Clara River Estuary, to a new advanced water purification facility to produce recycled water that meets or exceeds the state requirements for potable reuse. The project also includes the development of new treatment wetlands.

Santa Margarita Water District, San Juan Watershed Project

Reclamation Funding: \$7,928,615

The Santa Margarita Water District is implementing the San Juan Watershed Project to produce 8,240 acre-feet per year of new potable water supplies. The project will increase local potable water supplies by developing, conveying, and recharging recycled water and stormwater into the San Juan Groundwater Basin and subsequently treating the extracted water for potable use. The project includes construction of new pipelines and rubber dams to increase stormwater and recycled water recharge within San Juan Creek and the Arroyo Trabuco. The new groundwater supply will be pumped out of the basin through rehabilitated existing wells and sent to a new water filtration plant for potable treatment via repurposed pipelines.

Sonoma County Water Agency, North Bay Water Reuse Program: Phase 2 Program

Reclamation Funding: \$6,934,655

Phase 2 of the North Bay Water Reuse Program, a watershed based regional-scale recycled water project, will provide recycled water for urban, agricultural, and environmental water demands within a 300 square mile area in northern California. This project will capture available recycled water and deliver an additional yield of 5,364-acre feet per year through expanded treatment, new pipelines, and storage projects, each contributing toward building reliability into the region's long-term water supply.

Soquel Creek Water District, Pure Water Soquel: Groundwater Replenishment and Seawater Intrusion Prevention Project

Reclamation Funding: \$20,925,000

The Soquel Creek Water District near Santa Cruz, California will construct a groundwater replenishment project to produce and recharge 3,340 acre-feet of recycled water annually. The project includes construction of an advanced water purification facility to treat wastewater, conveyance facilities, and recharge wells. The project will replenish an overdrafted basin and to increase protection against the immediate threat of seawater intrusion.

Water Replenishment District of Southern California, Groundwater Reliability Improvement Program (GRIP) Recycled Water Project
Reclamation Funding: \$15,478,307

The Water Replenishment District of Southern California will construct a project intended to produce high-quality recycled water for replenishment of the Central Coast Groundwater Basin. Once complete, the Groundwater Reliability Improvement Program Recycled Water Project will eliminate the need to import 21,000 acre-feet of water annually. The project includes a flow equalization and pumping facility, an advanced water treatment facility, supplemental recharge wells, and groundwater monitoring wells.

Hawaii

County of Maui, Lahaina Water Recycling Project #3: West Maui Recycled Water Expansion
Reclamation Funding: \$1,080,224

The County of Maui will complete design work as part of the expansion of the existing Lahaina Wastewater Reclamation Facility. The expansion is intended to enhance the reliability of existing water supply infrastructure and to improve water quality. The project includes design activities for expansion of the wastewater reclamation facility, a pressurized water pipe, reservoir modifications, and an effluent pump station that will use the new pressurized water pipe to deliver water to the Honokowai Reservoir. The project is expected to make 3,377 acre-feet of recycled water available annually once construction is complete.

Idaho

City of Nampa, City of Nampa Recycled Water Program
Reclamation Funding: \$3,000,000

The City of Nampa, Idaho will construct a recycled water project intended to bolster the long-term availability and stability of the City of Nampa's water supply. The project includes conveyance of treated effluent from the Nampa Wastewater Treatment Plant to augment irrigation water supplies. The project is expected to result in the delivery of up to 12,439 acre-feet per year of recycled water by constructing a recycled water delivery pipeline from the wastewater treatment plant to the area's primary irrigation conveyance canal.

Texas

El Paso Water Utilities Public Service Board, Advanced Water Purification Facility
Reclamation Funding: \$20,000,000

El Paso Water Utilities Public Service Board will construct an Advanced Water Purification Facility to treat wastewater for potable reuse. The treated water will be conveyed directly to the City's distribution system, making this facility the first large-scale, direct-to-distribution potable reuse

project in the United States. Once completed, the project will produce 13,000 acre-feet of water annually, which will eliminate the need for an equivalent amount of water supply from the Bureau of Reclamation Rio Grande Project and the Hueco-Mesilla Bolson Aquifer.

Utah

Weber Basin Water Conservancy District, Tertiary Treatment Facility in Central Weber Reclamation Funding: \$14,300,000

The Weber Basin Water Conservancy District will construct a recycled water plant to treat reclaimed water from the Central Weber Sewer Improvement District's water reclamation facility. The project includes an advanced treatment facility to remove phosphorous and nitrogen to meet the minimum discharge limits and water quality goals for the receiving water. The Project also includes construction of conveyance facilities to convey water reclamation facility recycled water to the Willard Canal with gravity flow to Willard Bay Reservoir. The project is expected to add 8,800 acre-feet per year of recycled water to improve the resiliency of the water supply.

Washington

City of Cheney, Cheney Purple Pipe Project Reclamation Funding: \$5,455,750

The City of Cheney in eastern Washington will construct the Cheney Purple Pipe project to provide reclaimed water for irrigation, thereby reducing demand on the City's existing potable water supply system. Infrastructure improvements for the project include upgrades to the motor control centers and standby power system, a new reclaimed water treatment system, covering the existing reclaimed water storage reservoir, a new reclaimed water pump station at the City's existing wastewater treatment and reclamation plant, and a three-mile transmission pipeline and distribution system to convey the reclaimed water to the irrigation sites. Upon completion, 552 acre-feet of recycled irrigation water will be supplied annually by the project.