



— BUREAU OF —  
RECLAMATION

## Large-Scale Water Recycling Project Selections – November 2024

### California

#### **Inland Empire Utilities Agency, Advanced Treatment of Recycled Water to Enhance Chino Basin Resiliency Project, Reclamation Funding: \$10,856,662**

Inland Empire Utilities Agency (IEUA) is planning and designing an advanced water purification facility as part of Phase II of the Chino Basin Program (CBP). The CBP will address rising demands for urban water and increasingly severe drought conditions through increased recycled water production and injection of purified recycled water into the Chino Groundwater Basin. Recycled water is IEUA's most resilient source of water supply as it relies on daily municipal use, which has far less annual variability than Southern California's local or imported potable water supplies. Phase II includes a 15,000 acre-foot per year capacity advanced water purification facility along with injection wells and conveyance pipelines to allow injection of purified recycled water directly into the Chino Basin aquifer to bolster groundwater supplies and improve the long-term sustainability of the local groundwater basin. Funding was requested for planning and early design of the project.

#### **Los Angeles Department of Water & Power, The Los Angeles Groundwater Replenishment Project, Reclamation Funding: \$30,000,000**

Los Angeles Department of Water and Power is partnering with Los Angeles Sanitation and Environment to design and construct the Los Angeles Groundwater Replenishment Project. The project will produce purified recycled water by diverting tertiary effluent from the Donald C. Tillman Water Reclamation Plant to a new advanced water purification facility that will use microfiltration, reverse osmosis, and an ultraviolet advanced oxidation process. The purified water will then be delivered to the Hansen Spreading Grounds to replenish the San Fernando Groundwater Basin. The project, once constructed, will reduce dependence on imported water by delivering 20,600 acre-feet per year of recycled water, establishing a new local, and drought tolerant water supply. Funding was requested to complete final design and construction of improvements at the tertiary treatment facility and the advanced water purification facility.

## **Metropolitan Water District of Southern California, Pure Water Southern California, Reclamation Funding: \$26,273,759**

The Metropolitan Water District of Southern California (Metropolitan), in partnership with the Los Angeles County Sanitation Districts (LACSD), is developing a large-scale, regional, recycled water project to create a new reliable and drought resilient water supply that will help mitigate the impacts of climate change and competing water demands. Upon completion, Phase 1 of Pure Water Southern California Program (Program) is expected to deliver 115 million gallons per day (MGD), or 118,590 acre-feet of recycled water annually through treatment and beneficial reuse of unused effluent from LACSD's largest wastewater treatment plant (Warren Facility). Metropolitan imports 50 percent of its potable water demand from the Colorado River and State Water Project. The recycled water produced by the Program will allow Metropolitan to reduce its reliance on imported water and create a more sustainable regional water supply by collaborating with neighboring states through partnerships and exchanges for Colorado River water. The project will increase local water supplies through the treatment of effluent using an advanced treatment train that includes a membrane bioreactor, reverse osmosis, and an advanced oxidation process. After treatment, the water will be conveyed through 44 miles of pipeline to groundwater recharge facilities in three basins and to direct potable reuse (DPR) treatment facilities. Funding will be used to complete design for the Warren Facility treatment system, the advanced water purification facility, and the conveyance system. Additional planning activities expected to be completed with the funding provided include DPR pilot testing to select treatment technology, environmental analyses, public engagement, and inter-agency coordination efforts.

## **City of San Buenaventura, VenturaWaterPure Program, Reclamation Funding: \$60,478,357**

The City of San Buenaventura is implementing the VenturaWaterPure Program to augment the City's potable water supplies with purified recycled water. The Program includes construction of treatment and conveyance facilities to produce up to 3,600 acre-feet per year of local recycled water. The City currently depends on limited local surface and groundwater supplies that are increasingly impacted by drought. The VenturaWaterPure Program will help the City become less vulnerable to drought conditions by creating a new source of local, drought-resistant recycled water supply. The project will divert tertiary-treated effluent from the Ventura Water Reclamation Facility, currently being discharged to the Santa Clara River Estuary, to a new advanced water purification facility to produce recycled water for potable reuse. Funding will be used to complete the design of the advanced water purification facility and advance the design of the membrane bioreactor and ultraviolet disinfection system. Funding will also be used to construct the ocean outfall pump station and complete planning activities for the pipeline and wells.

## Utah

### **Washington County Water Conservancy District, Washington County Regional Reuse System, Reclamation Funding: \$641,222**

The Washington County Water Conservancy District, in partnership with the City of St. George and the Ash Creek Special Service District, is developing the Washington County Regional Reuse System to help meet water demand for the area's expanding economy and growing population by integrating potable and non-potable irrigation reuse into Washington County's water supply portfolio. The Regional Reuse System, once completed, is expected to provide up to 40,000 acre-feet of annual recycled water supply by 2070. This will help maximize local reliable water supplies that are under increasing pressure from climate change and economic growth. The Regional Reuse System comprises multiple reuse components and phases of treatment, conveyance, and storage projects. Treatment components include upgrades and expansion of the St. George Reuse facility and the Ash Creek water treatment plant. Conveyance and storage project components include reuse forebay and desilting facility, approximately 83 miles of pipeline, a 1,500 acre-feet secondary irrigation reservoir, and 55,000 acre-feet of secondary irrigation reuse water storage. Funding will be used to undertake planning, design, and construction activities for multiple components of the project.