

Fiscal Year 2011 Title XVI Water Reclamation and Reuse Program Feasibility Studies

California

Delta Diablo Sanitation District, Recycled Water Master Plan

Reclamation Funding: \$150,000

Total Study Cost: \$442,173

The Delta Diablo Sanitation District, in Antioch, California, will assess options for expanding and improving the District's current tertiary treatment system. The feasibility study will examine the operations of the overall system for ways to maximize recycled water production and conveyance, while minimizing operations costs, including energy costs.

Pasadena Water and Power, Recycled Water Feasibility Study

Reclamation Funding: \$150,000

Total Study Cost: \$403,113

Pasadena Water and Power will identify alternatives for a recycled water system to augment overall water supply and increase yield from local sources, such as recycled water, to meet future demand. The alternatives will consider multiple systems to provide recycled water to customers throughout the Pasadena Water and Power service area. Augmentation of the water supply is intended to decrease the amount of water imported from the Metropolitan Water District.

City of Anaheim, Ball Road Recycled Water Project Feasibility Study

Reclamation Funding: \$78,060

Total Study Cost: \$156,337

The City of Anaheim will examine methods for transporting recycled water to customers within the City, including the potential use of a portion of an existing pipeline to provide customers with a new source of non-potable water for irrigation, industrial, and other approved uses. Through the study the City will examine the technical, economical, and institutional feasibility of the project, as well as the steps necessary to move toward implementation.

Water Replenishment District of Southern California, Goldsworthy Desalter Facility Expansion Feasibility Study

Reclamation Funding: \$132,555

Total Study Cost: \$265,110

The Water Replenishment District of Southern California, an entity charged with managing groundwater for approximately four million California residents, will address the technical, legal, and institutional issues necessary to expand the Goldsworthy Desalter saline groundwater reclamation facility from its current capacity of 2.5 million gallons per day to a total of 5 million gallons per day. Through increased reclamation of saline groundwater, expansion of the facility would be expected to improve groundwater reliability and the overall health of the groundwater basin, reduce reliance on imported water, and increase the productivity of the groundwater basin.

Dublin San Ramon Services District, Dublin Recycled Water System Expansion Feasibility Study

Reclamation Funding: \$150,000

Total Study Cost: \$350,607

The Dublin San Ramon Services District, in Dublin, California, will examine the potential expansion of an existing recycled water distribution system to meet the seasonal demand for landscape irrigation water in areas not currently served. The proposed expansion would further the District's current efforts to reuse recycled water and conserve the region's available potable water supplies.

Groundwater Replenishment Improvement Program Joint Powers Authority, Groundwater Reliability Improvement Program Feasibility Study

Reclamation Funding: \$150,000

Total Study Cost: \$304,905

The Joint Powers Authority, located in Whittier, California, will evaluate potential solutions to reverse diminishing groundwater supplies in the Central Sub-Basin and Main San Gabriel Basin, including examination of multiple sources of reclaimed water, as part of a program to develop an affordable, reliable supply of water to replace less reliable imported water.

San Diego County Water Authority, Camp Pendleton Seawater Desalination Project Feasibility Study

Reclamation Funding: \$150,000

Total Study Cost: \$2,600,000

The San Diego County Water Authority will evaluate treatment technologies, intake and discharge facilities, desalinated water conveyance, and project-related impacts to ocean and land environments associated with the development of a large-scale seawater desalination project on Camp Pendleton. The results of the feasibility study will advance the Water Authority's planning efforts for the project, which is intended to provide a new drought-proof and sustainable water supply for the San Diego region.

Oklahoma

Central Oklahoma Water Conservancy District, Lake Thunderbird Reuse Feasibility Study

Reclamation Funding: \$150,000

Total Study Cost: \$300,000

The Water Conservancy District will conduct a feasibility study in collaboration with surrounding entities to assess alternatives to augment the supply of Lake Thunderbird, in Central Oklahoma, through the treatment of effluent or surface water. The study will assess alternatives to help postpone or eliminate withdrawals from the local aquifer and alleviate pressure to secure inter-basin water transfers.

Texas

City of Kyle, Water Reuse Feasibility Study

Reclamation Funding: \$66,145

Total Study Cost: \$132,290

The City of Kyle, in southeastern Texas, will evaluate the feasibility of developing reclaimed water as an additional regional water supply source to meet increasing demands and enhance the local environment. The study will address the feasibility of reusing the city's wastewater effluent to reduce the community's water demands and decrease the nutrient load to the Plum Creek watershed.