

GRAND LAKES RECLAIMED WATER SYSTEM

STATE PROGRAM: Texas Water Development Board

ASSISTANCE RECIPIENT: North Fort Bend Water Authority

ASSISTANCE AMOUNT: \$11M



PROJECT DESCRIPTION

In the bustling Houston metropolitan area, the North Fork Bend Water Authority (the Authority) has promoted reuse of treated effluent as a resourceful and sustainable source for irrigation of green spaces. After acknowledging significant demand for recycled water, the Authority received \$11 million (including \$1.6 million in principal forgiveness) in CWSRF assistance for the construction phase of a reuse system that will treat effluent from one wastewater treatment plant to Type I Standards and distribute the water throughout several Grand Lakes Municipal Utility Districts for irrigation of green spaces. The treated water will also help maintain levels in the scenic amenity lakes throughout the Districts. The system is anticipated to replace 0.59 million gallons of potable water use each day with reclaimed water flowing through approximately 52,000 linear feet of purple pipe. The community gains a more cost-effective and sustainable solution to maintaining green spaces and amenity lakes while lowering dependence on groundwater.

To read more about this case study, please visit https://www.epa.gov/sites/default/files/2017-11/documents/pisces_compendium_final2.pdf.