

## **City of Granbury Phase 1 Wastewater Improvements Project**



**Funding wholly provided by the Texas Water Development Board**

**Clean Water State Revolving Fund**

**In the amount of \$34,950,000**



**In coordination with the**

**United States Environmental Protection Agency**



### **The City of Granbury Phase 1 Wastewater Improvements Project Description**

The City is currently operating at 75 percent of its permitted treatment capacity. The proposed project includes construction of an additional 1.0 million gallons per day (MGD) satellite wastewater treatment plant (WWTP) east of Lake Granbury, collection system improvements that would bypass sewer mains that cross under the lake, and improvements to increase capacity at the existing WWTP to meet Texas Commission on Environmental Quality's (TCEQ) 75 percent capacity rule. Associated collection system improvements would be constructed to support both WWTPs. The project also includes land acquisition for the new WWTP site.

The City of Granbury provides wastewater collection and treatment services to customers throughout the community. The City's population of 10,137 is projected to grow to 15,060 by 2040, a 48.6 percent increase. The existing wastewater system serves 5,537 connections but the treatment facility has reached the end of its useful life, is unsuitable for more aggressive removal of nitrogen and phosphorus and does not have sufficient capacity to meet current peak and 20-year projected demands. In addition, leakage from sewer mains poses a potential risk of contamination of Lake Granbury, a source of water on which the City of Granbury is increasingly reliant.

To address these concerns, the City of Granbury plans to institute a series of phased improvements including rehabilitation of the existing South Wastewater Treatment Plant capacity of 2.0-mgd to provide advanced treatment via membrane bioreactor technology that will provide advanced water quality treatment, including enhanced nitrogen and phosphorus removal. The project also includes the design and construction of new 1.0-mgd advanced wastewater treatment facility and enhancements to the City's collection system. The project will provide enhanced water quality treatment and a higher quality of discharged water flows in addition to providing beneficial use via irrigation of the City's golf course using treated wastewater effluent.