

**Owner/Client:**

Leander  
P.O. Box 319  
Leander, Texas 78646

**Contact:**

Wayne Watts, P.E.  
512.259.2640

**Role:**

Prime Consultant

**Construction Cost:**

NA

**Completion Date:**

2006

**Nature of the Work:**

- + Water Master Planning
- + Water System Modeling

**Services Provided**

KFA was contracted by the City of Leander to produce a master plan to guide the future development of their water system. Leander was especially concerned with providing water service to areas within their Extra-Territorial Jurisdiction (ETJ) which anticipate rapid growth in the coming years. At the time of the study, Leander's population was approximately 20,000 people and is expected to increase by 140,000 people over the next 20 years.

KFA met and coordinated with city staff to obtain system and operations information. Using this information and recent population projections, KFA developed system demand scenarios for years 2005, 2010, 2015, and 2025. A hydraulic model of the system was created in WaterCad and used to analyze existing and future conditions as well as plan future improvements. These improvements include transmission, pumping and storage requirements as well as the reconfiguration of the City's pressure zones to meet minimum pressure criteria.

KFA developed a Capital Improvements Program for the water system that was designed to ensure the system met both State criteria as well as local criteria developed during the study. Detailed cost estimates for the improvements were developed that could easily be included in future impact fee studies.

