



## Mark B. Whitaker (MBW) Water Treatment Plant

### FAST FACTS

- The Mark B. Whitaker Water Treatment Plant is named after a former KUB General Manager and was built in 1927 at a cost of about \$1 million.
- The plant maintains operations around-the-clock by personnel certified by the State of Tennessee.
- The plant provides finished drinking water to more than 76,000 customers in Knoxville, East Knox County, and portions of Jefferson and Sevier counties.
- The source water is drawn from Fort Loudoun Lake, which provides plentiful and high-quality surface water for KUB customers. Only about 0.1 percent of the water flowing past the plant's intake is withdrawn.
- A state-of-the-art computerized Supervisory Control and Data Acquisition (SCADA) system monitors the plant's operations, KUB's 27 water distribution system pumping stations, and 30 water storage facilities. The electronic system continuously collects and stores operational data for regulatory reporting purposes and allows operators to control key equipment remotely.

*(continued on reverse side)*



## FAST FACTS

- KUB's water plant has always met or exceeded all federal and state water quality requirements.
- The water plant has a rated capacity of over 61 million gallons per day and on an average day treats about 34 million gallons.
- Residual solids generated during the treatment process are sent to the Kuwahee wastewater treatment facility via the sanitary sewer system for treatment.
- KUB currently has a four million gallon clearwell under construction that will provide additional storage for treated water. It is scheduled to go on-line in December 2011 and cost nearly \$3 million.

**Treatment Processes Include:** Pre-disinfection, Flocculation, Coagulation, Sedimentation, Dual-media Filtration and Post-disinfection

