

Finished Water

A PHOTOGRAPHIC PROFILE

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A slanted tube intake assembly (inset) was installed at Stillhouse Hollow Lake, providing a new supply source for Bell County, Texas, residents with the completion of the new Lake Stillhouse Water Treatment Plant.

LAKE STILLHOUSE WATER PLANT PROVIDES ADDITIONAL WATER SOURCE FOR 300,000 TEXAS RESIDENTS

Bell County, Texas, located some 50 miles north of Austin, is fortunate to have not one but two water supply reservoirs that are part of the Brazos River system. Belton Lake lies in the northwest portion of the county and is one of the largest water supply reservoirs in the Brazos River Authority system. Stillhouse Hollow Lake is on the county's southwest quadrant. The new Lake Stillhouse Water Treatment Plant represents a new supply source for the customers of Bell County Water Control & Improvement District #1 (WCID #1). Formed in 1952 to serve Fort Hood and its surrounding civilian communities, WCID #1 serves about 310,000 people primarily in central and west Bell County. The cities

of Killeen, Harker Heights, Copperas Cove, and Nolanville sponsored the construction of the Lake Stillhouse Water Treatment Plant to serve their growing populations.

PROJECT SPECIFICS

Project Name: Lake Stillhouse Water Treatment Plant

Operator/Contractor: Bell County WCID #1/CSA Construction, Houston

Designer: CDM-Smith, Austin, Texas

Completion Date: July 1, 2021

Water Source: Lake Stillhouse Hollow

Technology: Conventional surface water treatment

Project Cost: \$39 million

Service: The plant delivers 17 mgd of

high-quality drinking water and was designed to expand to 34 mgd at build out.

Physical Size: The plant includes two sedimentation trains and four conventional dual media filters. The project also includes a dual slant tube intake and about 3,500 feet of 36-inch raw water line.

Staff Size: 5

Number of Operators: 4, including a chief plant operator

Special Features: The plant's slanted tube intake assembly and installation required a dive team, inflatable ballasts, and tremendous coordination between land and water crews.