



Project Profile

Brazos River Authority, Texas

Surface Water & Treatment System: UF Plant Upgrade & Expansion



Start Date:
August 2006

Completion Date:
October 2007

Contact:
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Keywords:
Brazos River Authority, Desalination,
Ultrafiltration, Membrane Filtration

Layne Christensen was selected for this project based on our ability to provide the comprehensive services needed to make this a successful project. The project is a retrofit of an existing 7.3 MGD Ultrafiltration system currently used to provide high quality filtered surface water as pre-treatment to an existing Reverse Osmosis system.

The project consisted of expanding the existing UF system to 9.1 MGD by building and installing a 1.8 MGD UF skid using vertically mounted Norit X-Flow TM membranes. A total of 80 membrane modules are used per train. Once the initial expansion was completed, the existing trains were retrofitted with the vertical Norit X-Flow TM membrane modules using the new UF Train to take the production load off the original trains and to allow easy retrofit without interruption to the Brazos River Authority's customers during the transition.

The retrofit of the existing UF trains was done on-site as a construction retrofit project. Operational changes included replacing valves to reduce water hammer issues, engineering changes to the backwash system and control programming changes to the existing control system to optimize the system performance.

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