

North Cameron County RO Plant

Municipal Potable Water Supply



Year: 2006

Start-Up Date: 6/2007

Client/Owner: North Alamo Water
Supply Corporation

Engineer: NRS

Location: Texas, USA



Application: Municipal Potable Water

Scope of Work: Design, supply and supervise the installation of the RO trains, cartridge filters and local controls. Complete turnkey contract for all equipment, installation and start-up services for a new RO facility. DHT's scope was to provide all pre-treatment, RO equipment, degasser tower, and post treatment processes, plus chemical housing.

Operation Data: Feed water TDS: 4,091,
Permeate TDS: 98.4,
Permeate flow: 695 GPM,
Recovery: 75%, 630 Total
Membranes,
Other: 20/10 Array - 2 Stage, Feed
pH = 7.87, Feed Press = 233 psi,
Hydranautics membrane, deep
well source with blending

Capacity: 2 x 1 MGD BWRO Trains

Project Summary: The contract required the complete supply of two (2) RO units with ERT, one (1) degassing system, four (4) stand-alone chemical dosing pumps, a skid with a FRP housing system, and a complete electrical and instrumentation system.