

Venice Gardens Water Treatment Facility Municipal Potable Water Supply



Year: 2007

Start-Up Date: 3/2009

Client/Owner: Sarasota County

Engineer: Corollo

Location: Venice, FL, USA



Application: Municipal Potable Water

Scope of Work: Engineering, procurement and construction. Upgrade existing facility by 40% capacity. Install 2 - CO₂ system (pre and post treatment) replacing H₂SO₄ treatment.

Operation Data: Feed water TDS: 3,824,
Permeate TDS: 84.26,
Permeate flow: 259 GPM/each train,
Recovery: 75%, 330 Membranes Total,
Other: 9/4 Array - 2 Stage, Feed pH = 7.15, Feed Pressure = 156.4 psi, Filmtec membrane, deep well source, with raw blending

Capacity: 5 retro x 370,000 GPD BWRO plant + 2 existing 350,000 GPD BWRO Plants

Project Summary: This project was completed by demolishing the old equipment and piping, installing a new HDPE underground piping system, a new and updated pH control system (CO₂ introduction), a new degasser tower, a new concentrate disposal system, an addition of a corrosion inhibitor system and a complete automation of the existing control and monitoring system.