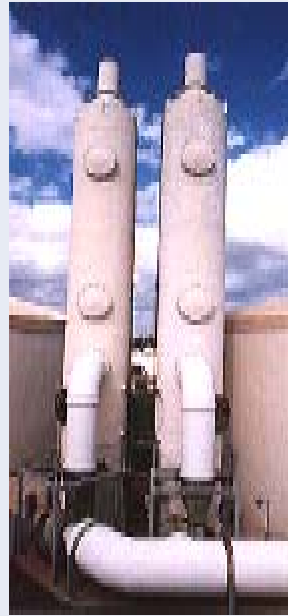
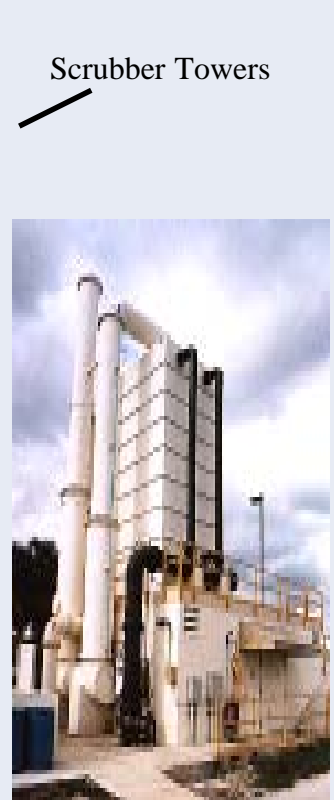




Four 1.5 MGD Reverse Osmosis Trains



Permeate
Degasifier



Scrubber Towers



Concentrate
Degasifier

TOWN OF JUPITER

Localidad: Jupiter, Florida
 Ingeniero: Kimley Horn
 Mercado: Municipal
 Membrana: Hydranautics 8" CPA2

Capacidad: 6.0 MGD
 Origen del Agua: Floridan Aquifer
 Calidad del Agua: 5500 mg/l TDS
 Iniciacion: November 1990

Características del Proyecto: Obrando junto a Hydranautics, Hydropro instalo la Planta de Osmosis Inversa para el tratamiento de agua en la ciudad de Jupiter estado de la Florida. Esta planta tiene la habilidad de procesar 6.0 millones de galones al dia. Esta facilidad fue diseñada por los ingenieros de Hutcheon Engineers, una division of Kimley-Horn, Inc. Hydranautics como Contratista selecciono a Hydropro por su experiencia en instalaciones de plantas de Osmosis Inversa de gran escala. Hydropro fabrico the FRP instrument and sample panels for the job, installed the four 1.5 MGD RO trains, the pre-treatment equipment, the membrane cleaning system, the interconnecting piping and the system headers.

The plant's product water is acidified and degasified to remove H₂S and CO₂. Hydropro's scope of work included the erection and plumbing of the concentrate degasifier and permeate degasifiers with their associated blowers and chemical feed systems.

Immediately after start-up it became apparent that additional treatment would be required as odor control for the hydrogen sulfide gasses being stripped by the permeate degasifiers. After extensive testing it was decided to use scrubbers to resolve the odor problem. Hydropro was contracted to erect and plumb the two fifty foot high scrubber towers pictured above.

The gasses removed in the permeate degasifiers are captured and passed through the scrubbers where the sulfur in the H₂S is converted back to elemental sulfur and removed in its solid form by filter press.

The Jupiter RO facility works in conjunction with an existing lime softening plant. The product waters from the combined facilities are blended before storage. The RO feed water is fed antiscalant prior to micron filtration. The pre-treated water is then pumped through the two stage RO plant to create a permeate of approximately 200 mg/l TDS.

As one of the largest municipal RO facilities operating in Florida, Jupiter's plant is a model for efficiency of space and operation. Since start-up, Hydropro has assisted with maintenance of this plant whenever called upon, maintaining a close working relationship with the Town of Jupiter.