



ACME IMPROVEMENT DISTRICT

Location:	Wellington, Florida	Feed Source:	Shallow wells
Engineer:	Reese Macon & Associates	Feed Quality:	500-700 mg/l TDS
Market:	Municipal		
Capacity:	1.8 MGD in 2 trains - Phase 1	Capacity:	1.8 MGD in 2 trains - Phase 2
Start-Up:	March 1990 - Phase 1	Start-Up:	January 1997 - Phase 2
Membrane:	Fluid Systems 8" TFCL - Phase 1	Membrane:	Fluid Systems 8" TFC - Phase 2

Project Highlights: Acme Improvement District's RO facility, in conjunction with their existing lime softening plant, services the potable water needs of the Village of Wellington. Due to the high concentration of precursors in their shallow well supply, RO was the treatment of choice to provide a low TDS product virtually free of organics and color. In 1990, working for L*A Water, Hydropro designed the RO structural skid and all FRP instrument and sample panels for Phase 1. Hydropro installed the entire indoor system and assisted with start-up, operator training and control coordination.

In 1996, Hydropro manufactured, installed, and started-up a complete 1.8 MGD addition to the facility. During this update of the facility, Hydropro also rebuilt the Phase 1 trains by removing the existing "pillow block" support system and replacing it with the streamlined FRP "tree" skid design.

The feedwater for the plant is treated by acid and antiscalant addition as well as micron filtration. The water is then passed through the RO system. Permeate water is degasified for CO₂ and H₂S removal and pH adjustment. The product water is chlorinated prior to mixing with the lime softened water and then sent to bulk storage.