



St. Lucie West Services District Reverse Osmosis Water Treatment Final Plant Expansion



LOCATION

St. Lucie West, Florida

ENGINEER

Baskerville-Donovan, Inc.
Reiss Engineering, Inc.

ADDED CAPACITY

2.2 MGD

FEED QUALITY

2,800 TDS

FEED SOURCE

Floridan Aquifer

IN OPERATION SINCE:

February 2014

The St. Lucie West Services District initiated its final expansion request in 2013 by requesting proposals from interested General Contractors. Sea Level Systems (teamed with Membrane Treatment Services) was designated as an approved System Supplier and ultimately was awarded the project under contract to Wharton Smith, Inc.

As the contracted ROEM, Sea Level Systems provided services which included the following:

The provision and installation of a new 1.8 MGD Reverse Osmosis treatment skid including, but not limited to, the membrane unit support structure, membrane housings, piping, valves and actuators, piping connections, energy recovery equipment, sample panel, instrument panel, and coordination of Instrumentation & Control equipment installation. This work included installation of membrane elements, performance testing and training.

As well, SLS provided and installed the equipment required for the modification of the two (2) existing 1.7 MGD RO treatment skids to increase the capacities to 1.8 MGD each. This included the membrane housing and piping modifications/additions and the installation of additional instrumentation. This portion of our serviced included the installation of membrane elements, performance testing and training.

The entire expansion was successfully performed while keeping the existing production capacity on-line to guarantee Community water demands.

As previously stated, the plant itself has uniqueness. From its original construction it has gone through changes and expansions that clearly delineate the evolution of membrane technology from the 1980's through present day.



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