

James Anderson Reverse Osmosis Water Treatment Plant, Port St. Lucie, Florida

Contract Amount: \$47,611,850.00_
Completed: 2010

Owner:
*City of Port St. Lucie,
Florida*

Engineer:
*Tetra Tech
James Christopher*

Description of Work:

WPC was responsible for a three phase WTP / RO plant that was ultimately built out to 22 MGD. WPC provided all labor, equipment and material as well as being continually involved with the owner and engineer throughout the planning and design phase including constructability reviews, budget analysis, preliminary and final estimates as well as schedule analysis. Construction was begun at 90% design at which point all necessary labor and materials / equipment was mobilized.

The first phase saw the construction of an operation / laboratory, emergency power and membrane filtration building with new equipment and chemical feed systems. This ultimately gave 22 MGD of water treatment plant capacity including RO treatment skids with skid assembly, all piping, vessels, membranes and instrumentation.



Also installed were a blend and feed water micron filter system, high pressure feed pumps, transfer pumps including piping, high service pumps with related piping, chemical feed systems with piping as well as all additional piping and tanks and a 4 MG potable water ground storage tank.



All site work was performed which consisted of but was not limited to piping and coatings, all electrical including wiring, conduits, field panels, transformers, transfer switches, generators and motor control centers. Instrumentation was installed including all programming panels, instruments and telemetry. Ductile yard piping was put in and post treatment modifications were performed such as, 6.0 MGD Degasifier, 18

scfm blowers were installed along with 36,000 scfm scrubber systems and ducting and well houses. Miscellaneous site work included pumps, piping, electrical and instrumentation and a 30" transmission main.

