

Buckman Water Reclamation Facility, Phase 1 **Jacksonville, Florida**

Contract Amount: \$16,485,700.00
Final Amount: \$15,370,211.24
Contract Start Date: December 2012
Contract Completion: November 2014

Owner reference:
Hai X Vu, P.E.
Jacksonville Electric
Authority
21 W. Church Street
Jacksonville, FL 32202
Ph: 904-665-4028
vuhx@jea.com

Engineer reference:
CH2MHill
Dean Garcia
3011 SW Williston Rd
Gainesville, FL 32608
Ph: 352-384-7072 or
904-861-7820

Description of Work:



WPC was responsible to provide all labor, equipment and materials in order to update and construct the Buckman Water Reclamation Facility in Jacksonville, Florida. WPC had to replace the primary clarifier effluent weir as well as add side stream pump station, complete with effluent piping. Modifications were performed to the aeration basins to include new effluent gates, floating mixers, four new air valves and actuators, baffle walls, overflow weir structure,

enlarged sluice gates, scum collection and pump station, four (4) recycle pumps and piping as well as associated structural, mechanical, electrical and instrumentation control work.

A new RAS flow meter with vault was constructed with the demolition and replacement of four (4) secondary clarifier mechanisms. Two (2) dewatering pump valves were replaced and an HVAC was added to the Chemical Scan Building along with the ventilation of the new Secondary Building. The old Secondary Clarifier Control Building was rehabilitated to include new MCC, HVAC, lights, stairs and all associated appurtenances.

A new grit removal basin was constructed containing three (3) flow channels. The existing pre-aeration basin was converted into a three (3) channel grit removal basin. Influent flow distribution and effluent flow control was installed as well as grit handling equipment. Improvements were made to the grit drainage pad and pump station. The existing grit removal facilities were decommissioned and all necessary electrical and instrumentation work was performed.



Improvements were made to the blowers, including the removal and salvage of the existing blower and the installation of three (3) new turbo blowers. New stainless steel discharge piping,

valves and appurtenances were installed and all electrical and instrumentation work was performed as well as any necessary site work.

Explanation of any time extensions and/or changes in contract amount:

Additional time extensions were given to construct owner requested changes. The contract amount was lowered to allow for owner direct purchases. The owner avoided sales tax with direct purchases.