

FACT SHEET

MASTER PUMP STATION 306



THE STATION

A first for Collier County, Master Pump Station 306 is a wastewater booster pump station. In a booster station, wastewater remains in the piping at all times. This eliminates the need for a wet well which minimizes the potential for odors and spills. Wastewater from upstream pump stations flows through the booster station and gets re-pumped to the South County Water Reclamation Facility.

All of the pumping equipment (three electric chopper pumps and three diesel in-line booster pumps) as well as an emergency generator are located inside the 6,000-square-foot building. The building and surrounding wall were designed to blend in architecturally with the community.

CONSTRUCTION

Master Pump Station 306 represents a significant investment in the County's utility infrastructure improvement program.

Construction Cost: \$10,579,000

Project start: 7/8/2019

Final completion: July 2021

Project Manager: Wayne Karlovich, P.E.

Consultant Engineer of Record: AECOM, Inc.

Contractor: PWC, LLC

BENEFITS

- Provides greater reliability, flexibility and performance to the County's wastewater system
- Increases capacity of the station from 7.5 million gallons per day (MGD) to 15.8 MGD
- Eliminates a single point of failure in a residential neighborhood (36-inch force main along Saint Andrews Boulevard)
- Improved storm resiliency due to the on-site diesel pumps, generator and staging of portable generators
- Replaces the old MPS 306 which was 35 years old and its mechanical and electrical components had reached the end of their useful lives

The Public Utilities Department provides customers with best value, high quality and environmentally sustainable services that include water, wastewater, solid waste and facilities management.

WASTEWATER SYSTEM

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A master pump station is a wastewater pump station that receives flows from multiple upstream pump stations and pumps wastewater either to the treatment plant or to another master pump station. MPS 306 is able to convey wastewater flows either to or from Master Pump Station 302, allowing alternate parallel paths to the South County Water Reclamation Facility (SCWRF). The design allows flows from MPS 302 to be diverted to MPS 306, and then to SCWRF, via the new force main constructed along U.S. 41. MPS 302 is the largest master pump station in the Collier County Water-Sewer District and transmits approximately 80 percent of the wastewater flow from the south service area to the SCWRF via one 35-year-old force main. In effect, MPS 306 will become a backup to MPS 302 and allow for maintenance and potential replacement of its discharge force main.



Master Pump Station 306
3935 Thomasson Lane Drive



South County Water Reclamation Facility
6200 Warren Street

