City of Sanibel

DONAX WRF & COLLECTION SYSTEM UPDATE

Tetra Tech

02. 07. 2023

Damage Assessments - Detailed

- Sanibel Staff
  - Donax WRF and lift station assessments are ongoing

- Donax WRF Process Improvements Project Contractor/Subcontractors
  - PWC LLC – assessing treatment facility assisted by Wood for instrumentation and Cogburn for electrical systems

- Tetra Tech Staff
  - Under FDEM contract, supporting the City's Donax WRF and lift stations assessment process

Ongoing Recovery Efforts

- Donax WRF & Collection System
  - Materials acquisition for temporary repairs needed to become functionally operational
  - Materials value of approximately $1M has been submitted for FDEM direct reimbursement
  - City has issued additional purchase orders that will be submitted for FEMA direct reimbursement
  - Material includes wire, actuator positioners, flowmeter transmitters, VFDs, surge suppressors, motors, pumps, hardware
  - SUEZ assisting with onsite evaluation and testing of MBR process equipment

Where We Are Today

- Donax WRF
  - Plant is treating 0.75 to 1.0 mgd
  - Raw wastewater entering plant has very low strength which poses challenges
  - Meeting all effluent permit parameter limits
  - Have resumed reuse distribution to Sanctuary, Beachview and Dunes but not to individual meters, with remainder to deep injection well
- Collection System
  - 165 total lift stations controlled from 135 control panels
  - 132 lift stations have LCEC power
  - All lift stations operating in automatic mode

Donax WRF Process Improvements Project – Current Activities

- Completing instrumentation monitoring & control loop testing for overall project on hold.

- Process performance testing on hold.

- Fine-tuning of operational parameters (oxygen concentrations, internal recycle & return activated sludge flow rates) on hold.

- Contractor is addressing Substantial Completion punch list items.

- Installing wiring to new 2,000 kW generator with generator load bank testing planned for the week of February 13, 2023. Soon after successful testing, generator will be placed into service.

Discussion