INDIAN RIVER PRESERVE RAW WATER LINE

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 426,658

Project Description

Utility Services has permanent easements for twelve water wells in property owned by the developer of Indian River Preserve in Mims. One well exists and the others will be installed as the water demand requires. This project funds the construction of the raw water pipelines required to convey water from the wells to the treatment plant. May be procured from state or other cooperative agreement.

Service Impact

To avoid the increased costs of installing the raw water lines after development, this element funds co-construction agreements to provide for the installation of the pipelines as the developer constructs new phases of the project.

Project Milestones

Mims Water

Project complete September 2018

Start Date: 10/01/11 **End Date:** 09/30/18

Project Manager: Craig Helpling

Funded Program: 6980110

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Permit/Fees	$ 126,658	$ 300,000	$ -	$ -	$ -	$ -	$ -	$ 426,658
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 126,658	$ 300,000	$ -	$ -	$ -	$ -	$ -	$ 426,658

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ 126,658	$ -	$ -	$ -	$ -	$ -	$ -	$ 126,658
Construction	$ -	$ -	$ 300,000	$ -	$ -	$ -	$ -	$ 300,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ 126,658	$ -	$ 300,000	$ -	$ -	$ -	$ -	$ 426,658

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

LIME SLUDGE HANDLING SYSTEM

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 350,000

Project Description

Liquid lime slurry is a by-product of the Mims Water Treatment Plant. The lime slurry is currently hauled by contractor to the Orlando Utilities power plant. Modify the lime disposal system for liquid disposal. This project will eliminate the existing dryer. May be procured from state or other cooperative agreement.

Service Impact

The treatment plant was originally designed for drying and hauling the lime slurry by-product. Operations Staff has retrofitted the process to act as a liquid lime slurry disposal facility, resulting in operational challenges. This project will provide adequate lime slurry storage and pumping capabilities, while simplifying routine maintenance.

Project Milestones

Mims Water

Project complete September 2018

Start Date: 10/01/16 **End Date:** 09/30/18

Project Manager: Craig Helpling

Funded Program: 6538128

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 350,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 350,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 350,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 350,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ 50,000	$ -	$ -	$ -	$ -	$ -	$ 50,000
Construction	$ -	$ -	$ 300,000	$ -	$ -	$ -	$ -	$ 300,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ 50,000	$ 300,000	$ -	$ -	$ -	$ -	$ 350,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

MIMS WATER CO2 TANK

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 200,000

Project Description

Rehabilitate/Replace the carbon dioxide tank at the Mims water plant.

Project Milestones

Mims Water

Project complete September 2018

Service Impact

Maintain the ability to recarbonate the finished water to control ph.

Start Date: 10/01/16 **End Date:** 09/30/18

Project Manager: Craig Helpling

Funded Program: 6540114

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 200,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 200,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 200,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 200,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ 25,000	$ -	$ -	$ -	$ -	$ -	$ 25,000
Construction	$ -	$ -	$ 175,000	$ -	$ -	$ -	$ -	$ 175,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ 25,000	$ 175,000	$ -	$ -	$ -	$ -	$ 200,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

MIMS WATER TREATMENT PLANT SCADA UPGRADES

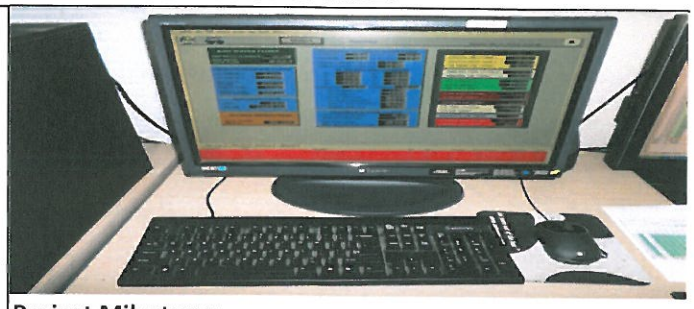
Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 150,000

Project Description

Replace supervisory control and data acquisition (SCADA) units at the Mims Water Treatment Plant. May be procured from state or other cooperative agreement.



Project Milestones

Mims Water

Complete project September 2018

Service Impact

These components are obsolete and have reached the end of their useful life as repair parts are increasingly difficult to obtain.

Start Date: 10/01/17 **End Date:** 09/30/18

Project Manager: Brian Sorensen

Funded Program: 6351107

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ 150,000	$ -	$ -	$ -	$ -	$ -	$ 150,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ 150,000	$ -	$ -	$ -	$ -	$ -	$ 150,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ 150,000	$ -	$ -	$ -	$ -	$ 150,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ 150,000	$ -	$ -	$ -	$ -	$ 150,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

MIMS WTP VEHICLE STORAGE BUILDING

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 150,000

Project Description

Construct a Vehicle Storage Building for Mims Water Treatment Plant maintenance. May be procured from state or other cooperative agreement.

Project Milestones

Mims Water
Facilities Project
Project complete September 2018

Service Impact

Provide covered storage to protect vehicles and other mobile equipment. Vehicle Storage Building will increase longevity of maintenance vehicles due to the exposure the weather and the plant environment.

Start Date: 10/01/17 **End Date:** 09/30/18

Project Manager: Brian Sorensen

Funded Program: 6501107

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ 150,000	$ -	$ -	$ -	$ -	$ -	$ 150,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ 150,000	$ -	$ -	$ -	$ -	$ -	$ 150,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ 150,000	$ -	$ -	$ -	$ -	$ 150,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ 150,000	$ -	$ -	$ -	$ -	$ 150,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

REPLACE CLARIFIER BLOWDOWN PUMPS

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 60,000

Project Description

Replacing the clarifier blowdown pumps at the wastewater plant.

Project Milestones

Mims Water

Project complete September 2018

Service Impact

Pumps are no longer efficient and are at the end of their useful life. Parts are obsolete and the equipment is increasingly difficult to maintain.

Start Date: 10/01/17 **End Date:** 09/30/18

Project Manager: Brian Sorensen

Funded Program: 6984109

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ 60,000	$ -	$ -	$ -	$ -	$ -	$ 60,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ 60,000	$ -	$ -	$ -	$ -	$ -	$ 60,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design		$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ 60,000	$ -	$ -	$ -	$ -	$ 60,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ 60,000	$ -	$ -	$ -	$ -	$ 60,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

REPLACE HIGH SERVICE PUMPS AND MOTORS

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 150,000

Project Description

Replacing the high service pumps and motors at the Mims Water Plant.

Project Milestones

Mims Water

Project complete September 2018

Service Impact

The pumps and motors have reached the end of their useful life and are no longer efficient. Units are difficult to maintain and parts are hard to find.

Start Date: 10/01/17 **End Date:** 09/30/18

Project Manager: Brian Sorensen

Funded Program: 6984111

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ 150,000	$ -	$ -	$ -	$ -	$ -	$ 150,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ 150,000	$ -	$ -	$ -	$ -	$ -	$ 150,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ 150,000	$ -	$ -	$ -	$ -	$ 150,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ 150,000	$ -	$ -	$ -	$ -	$ 150,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

REPLACE VFD'S, PLC'S & FLOW METER ON HIGH SERVICE PUMPS (4)

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 434,870

Project Description

Replace Variable Frequency Drive (VFD's), Programmable Logic Controller (PLC's) and flow meter. Demolish existing.

Project Milestones

Mims Water

Project complete September 2018

Service Impact

Currently there are multiple failures on the equipment and parts are no longer available. Efficiency will vastly improve after replacement.

Start Date: 10/0/16 **End Date:** 09/30/18

Project Manager: Brian Sorensen

Funded Program: 514671

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 434,870	$ -	$ -	$ -	$ -	$ -	$ -	$ 434,870
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 434,870	$ -	$ -	$ -	$ -	$ -	$ -	$ 434,870

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ 9,870	$ 425,000	$ -	$ -	$ -	$ -	$ 434,870
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ 9,870	$ 425,000	$ -	$ -	$ -	$ -	$ 434,870

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

WATER MAIN REPLACEMENT

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 9,318,381

Project Description

This project will replace the asbestos cement and thin-walled PVC pipe in the Mims water distribution system and includes changing over the water service connections from the existing pipes to the new pipes. This project will take place in five phases. May be procured from state or other cooperative agreement.

Project Milestones

Mims Water

Project complete September 2024

Service Impact

The Mims water distribution system piping includes asbestos-cement and thin-walled PVC water pipes that were installed in the 1960's. They are brittle and have a history of breaking.

Start Date: 10/01/13 **End Date:** 09/30/24

Project Manager: Craig Helpling

Funded Program: 6980111

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 9,318,381	$ -	$ -	$ -	$ -	$ -	$ -	$ 9,318,381
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 9,318,381	$ -	$ -	$ -	$ -	$ -	$ -	$ 9,318,381

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ 134,662	$ 21,657	$ 100,000	$ -	$ -	$ 100,000	$ -	$ 356,319
Construction	$ 1,120,117	$ 1,157,945	$ -	$ 1,200,000	$ 1,200,000	$ 2,100,000	$ 2,184,000	$ 8,962,062
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ 1,254,779	$ 1,179,602	$ 100,000	$ 1,200,000	$ 1,200,000	$ 2,200,000	$ 2,184,000	$ 9,318,381

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

WELL FACILITY REPLACEMENTS

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 1,548,715

Project Description

Install replacement wells. May be procured from state or other cooperative agreement.

Project Milestones

Mims Water

Project complete September 2021

Service Impact

The Mims Water Treatment Plant needs to have replacement wells installed to ensure a continued safe water supply.

Start Date: 10/01/13 **End Date:** 09/30/21

Project Manager: Craig Helpling

Funded Program: 6983105

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 1,548,715	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,548,715
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 1,548,715	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,548,715

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ 141,715	$ 70,000	$ 143,000	$ -	$ -	$ -	$ -	$ 354,715
Construction	$ -	$ -	$ 299,000	$ 199,000	$ 199,000	$ 199,000	$ 298,000	$ 1,194,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ 141,715	$ 70,000	$ 442,000	$ 199,000	$ 199,000	$ 199,000	$ 298,000	$ 1,548,715

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

EXTEND N10 GRAVITY SEWER AND DEMOLISH LIFT STATION N04

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 817,315

Project Description

Demolish Lift Station N04 and reroute gravity sewer to Lift Station N10. Obtain easements as necessary. May be procured from state or other cooperative agreement.

Project Milestones

North Brevard Wastewater

Project complete September 2018

Service Impact

During review of the existing system in the area, it was identified that a lift station could be eliminated by the extension of the gravity sanitary sewer.

Start Date: 04/01/16 **End Date:** 09/30/18

Project Manager: Craig Helpling

Funded Program: 6981110

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 817,315	$ -	$ -	$ -	$ -	$ -	$ -	$ 817,315
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 817,315	$ -	$ -	$ -	$ -	$ -	$ -	$ 817,315

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ 20,311	$ 372,004	$ -	$ -	$ -	$ -	$ -	$ 392,315
Construction	$ -	$ -	$ 425,000	$ -	$ -	$ -	$ -	$ 425,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ 20,311	$ 372,004	$ 425,000	$ -	$ -	$ -	$ -	$ 817,315

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

FILTER GALLERY REPLACEMENT

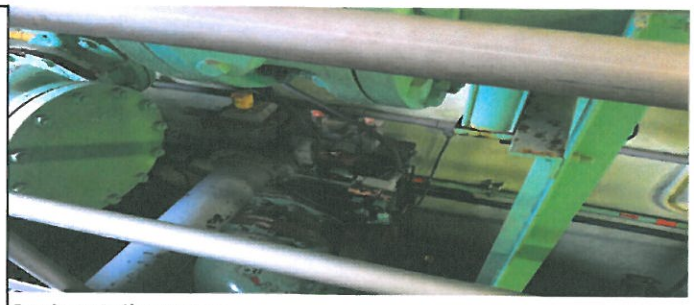
Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 77,058

Project Description

Replace the filter valves. May be procured from state or other cooperative agreement.



Project Milestones

North Brevard Wastewater

Project complete September 2018

Service Impact

These valves were installed in 1987 and need to be replaced. They were the old style pneumatic valves and will be replaced with electric valves.

Start Date: 10/01/15 **End Date:** 09/30/18

Project Manager: Craig Helpling

Funded Program: 6538131

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 77,058	$ -	$ -	$ -	$ -	$ -	$ -	$ 77,058
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 77,058	$ -	$ -	$ -	$ -	$ -	$ -	$ 77,058

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ 22,193	$ 4,865	$ -	$ -	$ -	$ -	$ -	$ 27,058
Construction	$ -	$ -	$ 50,000	$ -	$ -	$ -	$ -	$ 50,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ 22,193	$ 4,865	$ 50,000	$ -	$ -	$ -	$ -	$ 77,058

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

FORCE MAIN N13 REHABILITATION

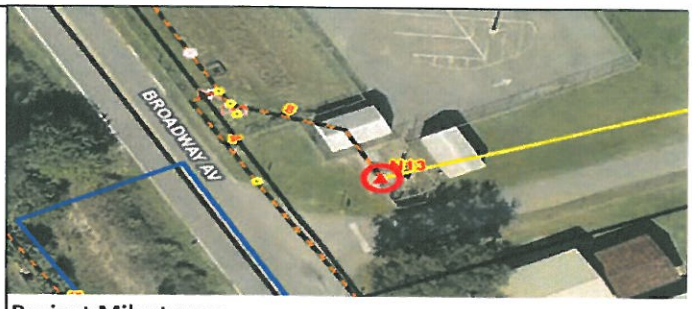
Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 313,000

Project Description

Repair portions of the force main. May be procured from state or other cooperative agreement.



Project Milestones

North Brevard Wastewater

Project complete September 2018

Service Impact

This force main has operational problems. This project will evaluate the force main and repair as needed.

Start Date: 10/01/16 **End Date:** 09/30/18

Project Manager: Craig Helpling

Funded Program: 6985102

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 313,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 313,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 313,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 313,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ 71,000	$ -	$ -	$ -	$ -	$ -	$ 71,000
Construction	$ -	$ -	$ 242,000	$ -	$ -	$ -	$ -	$ 242,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ 71,000	$ 242,000	$ -	$ -	$ -	$ -	$ 313,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

NORTH BREVARD CHLORINE STRUCTURE REPLACEMENT

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 40,000

Project Description

Replace the existing chlorine tank canopy cover structure due to severe corrosion ot the steel beam frame and damage to the structure from hurricane Matthew. The replacement structure will be made of a corrosion resistant material.

Project Milestones

North Brevard Wastewater
Facilities Project
Construction complete September 2018

Service Impact

The replacement structure will last longer than the existing steel structure.

Start Date: 10/01/17 **End Date:** 09/30/18

Project Manager: Brian Sorensen

Funded Program: 6538140

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 40,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 40,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 40,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 40,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -		$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ 40,000	$ -	$ -	$ -	$ -	$ 40,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ 40,000	$ -	$ -	$ -	$ -	$ 40,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

NORTH BREVARD FILTER REHABILITATION

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 2,000,000

Project Description

Filter rehabilitation replaces the filter media.

Project Milestones

North Brevard Wastewater

Project complete September 2019

Service Impact

This is required for the wastewater filtering process to keep the wastewater plant in compliance with the Department of Environmental Protection regulations.

Start Date: 10/01/18 **End Date:** 09/30/19

Project Manager: Brian Sorensen

Funded Program: 6984110

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ 2,000,000	$ -	$ -	$ -	$ -	$ -	$ 2,000,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ 2,000,000	$ -	$ -	$ -	$ -	$ -	$ 2,000,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ 500,000	$ 1,500,000	$ -	$ -	$ -	$ 2,000,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ 500,000	$ 1,500,000	$ -	$ -	$ -	$ 2,000,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

NORTH BREVARD INFLOW AND INFILTRATION REDUCTION

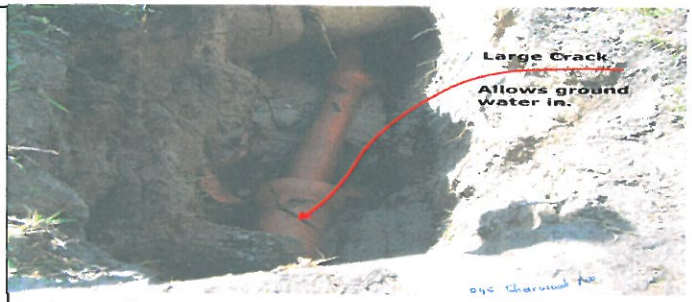
Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 2,000,000

Project Description

Relining of gravity lines and grouting of laterals in this service area. May be procured from state or other cooperative agreement.



Project Milestones

North Brevard Wastewater
Ongoing project

Service Impact

Rehabilitation reduces Inflow and Infiltration which reduces pumping expense, overflows and returns capacity to the treatment plant.

Start Date: 10/01/16 **End Date:** 09/30/22

Project Manager: Brian Sorensen

Funded Program: 6981109

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 2,000,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,000,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 2,000,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,000,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ 750,000	$ 250,000	$ 250,000	$ 250,000	$ 250,000	$ 250,000	$ 2,000,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ 750,000	$ 250,000	$ 250,000	$ 250,000	$ 250,000	$ 250,000	$ 2,000,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

NORTH BREVARD LIFT STATIONS

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 2,416,163

Project Description

Replacement or Rehabilitation of aged, detiorating lift stations N01, N07, N08, and N13 in current and upcoming fiscal years or others as conditions necessitate.

Project Milestones

North Brevard Wastewater
Ongoing project

Service Impact

Rehabilitation or replacement of a lift station will make it more economical and will reduce repairs and maintenance costs. It will also minimalize overflows and add safety features such as a safety grate for the wet well.

Start Date: 10/01/13 **End Date:** 09/30/22

Project Manager: Craig Helpling

Funded Program: 6300128

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 1,036,163	$ 880,000	$ 500,000	$ -	$ -	$ -	$ -	$ 2,416,163
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 1,036,163	$ 880,000	$ 500,000	$ -	$ -	$ -	$ -	$ 2,416,163

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ 95,941	$ 79,951	$ 176,000	$ 100,000	$ -	$ -	$ -	$ 451,892
Construction	$ 460,517	$ 399,754	$ 704,000	$ 400,000	$ -	$ -	$ -	$ 1,964,271
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ 556,458	$ 479,705	$ 880,000	$ 500,000	$ -	$ -	$ -	$ 2,416,163

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

NORTH BREVARD WWTP DUMPING BED

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 400,000

Project Description

Construct a dumping bed at North Brevard Wastewater Treatment Plant (NBWWTP) for dewatering of vacuum truck debris. May be procured from state or other cooperative agreement.

Project Milestones

North Brevard Wastewater

Project complete September 2018

Service Impact

Dumping bed at NBWWTP will save time and fuel by eliminating the need to drive 25 miles to use the bed at the Sykes Creek Wastewater Treatment Plant.

Start Date: 10/01/17 **End Date:** 09/30/18

Project Manager: Craig Helpling

Funded Program: 6984108

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ 400,000	$ -	$ -	$ -	$ -	$ -	$ 400,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ 400,000	$ -	$ -	$ -	$ -	$ -	$ 400,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ 400,000	$ -	$ -	$ -	$ -	$ 400,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ 400,000	$ -	$ -	$ -	$ -	$ 400,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

REPLACE RAS/WAS PUMPING

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 300,000

Project Description

Replace Return Activated Sludge (RAS) and Waste Activated Sludge (WAS) pumps. May be procured from state or other cooperative agreement.

Project Milestones

North Brevard Wastewater
Project complete September 2018

Service Impact

These pumps have reached the end of their useful life and need to be replaced. They are difficult to maintain and to find replacement parts.

Start Date: 10/01/17 **End Date:** 09/30/18

Project Manager: Brian Sorensen

Funded Program: 513921

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ 300,000	$ -	$ -	$ -	$ -	$ -	$ 300,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ 300,000	$ -	$ -	$ -	$ -	$ -	$ 300,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ 300,000	$ -	$ -	$ -	$ -	$ 300,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ 300,000	$ -	$ -	$ -	$ -	$ 300,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

TREATMENT PLANT DRIVEWAY

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 310,000

Project Description

Construct paved roadway from paved road to plant entrance and from north side of plant to RIBS. May be procured from state or other cooperative agreement.

Project Milestones

North Brevard Wastewater
Project complete September 2018

Service Impact

The existing access way to the treatment plant is very rough and full of potholes. The entire dirt road needs to be paved to provide stabilized access for staff and visitors.

Start Date: 10/01/16 **End Date:** 09/30/18

Project Manager: Craig Helpling

Funded Program: 6570108

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 310,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 310,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 310,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 310,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ 60,000	$ -	$ -	$ -	$ -	$ -	$ 60,000
Construction	$ -	$ -	$ 250,000	$ -	$ -	$ -	$ -	$ 250,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ 60,000	$ 250,000	$ -	$ -	$ -	$ -	$ 310,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

WWTP REPLACEMENT AERATORS

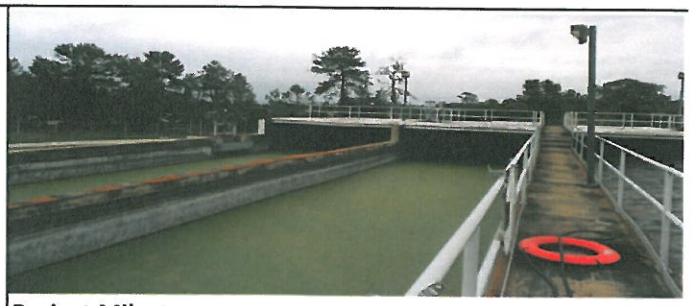
Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 740,038

Project Description

Replace aerators on carousel at North Brevard Wastewater Treatment Plant (WWTP). May be procured from state or other cooperative agreement.



Project Milestones

North Brevard Wastewater
Project complete September 2018

Service Impact

New aerators will increase energy efficiency and improve treatment process.

Start Date: 10/01/16 **End Date:** 09/30/18

Project Manager: Brian Sorensen

Funded Program: 6540111

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 740,038	$ -	$ -	$ -	$ -	$ -	$ -	$ 740,038
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 740,038	$ -	$ -	$ -	$ -	$ -	$ -	$ 740,038

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ 73,038	$ -	$ -	$ -	$ -		$ 73,038
Construction	$ -	$ -	$ 667,000	$ -	$ -	$ -	$ -	$ 667,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ 73,038	$ 667,000	$ -	$ -	$ -	$ -	$ 740,038

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

TELEMETRY MODERNIZATION

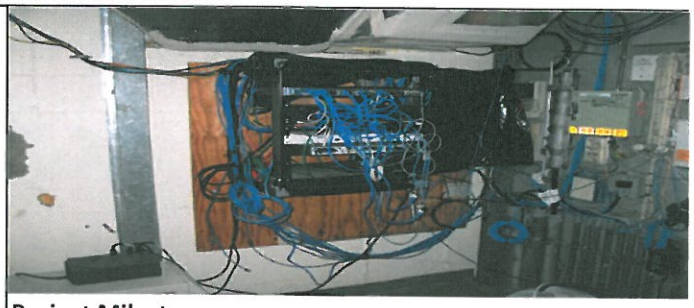
Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 1,965,537

Project Description

Upgrade telemetry at lift stations. May be procured from state or other cooperative agreement.



Project Milestones

Countywide Project

Ongoing project

Service Impact

Tis project will upgrade the lift station telemetry which will allow control of the lift station pumps.

Start Date: 10/01/15 **End Date:** 09/30/22

Project Manager: Brian Sorensen

Funded Program: 513870

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 1,965,537	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,965,537
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 1,965,537	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,965,537

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ 703,273	$ 62,264	$ 250,000	$ 200,000	$ 250,000	$ 100,000	$ 400,000	$ 1,965,537
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ 703,273	$ 62,264	$ 250,000	$ 200,000	$ 250,000	$ 100,000	$ 400,000	$ 1,965,537

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

CONSTRUCT CONCRETE BLOCK BUILDING FOR COMPRESSORS

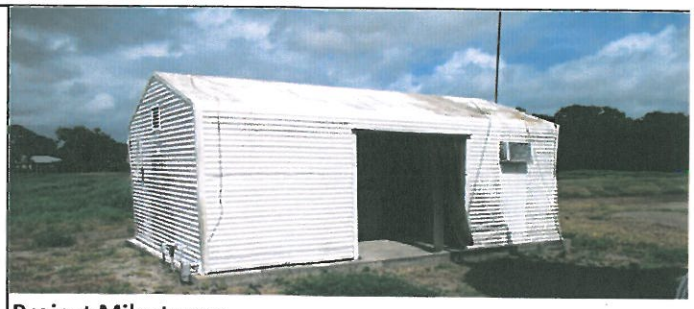
Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 350,000

Project Description

Construct a building for the compressors for the Port St John Wastewater Treatment Plant.



Project Milestones

Port St John Wastewater
Facilities Project
Project complete September 2018

Service Impact

This building will greatly improve the lifespan of the compressors with protection from the outside elements.

Start Date: 10/01/17 **End Date:** 09/30/18

Project Manager: Brian Sorensen

Funded Program: 6501415

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ 350,000	$ -	$ -	$ -	$ -	$ -	$ 350,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ 350,000	$ -	$ -	$ -	$ -	$ -	$ 350,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ 350,000	$ -	$ -	$ -	$ -	$ 350,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ 350,000	$ -	$ -	$ -	$ -	$ 350,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

PORT ST JOHN LIFT STATIONS

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 3,066,900

Project Description

Replacement or Rehabilitation of aged, detiorating lift station J02, J03, J05 and J06 in current and upcoming fiscal years or others as conditions necessitate.

Project Milestones

Port St John Wastewater
Ongoing project

Service Impact

Rehabilitation or replacement of a lift station will make it more economical and will reduce repairs and maintenance costs. It will also minimalize overflows and add safety features such as a safety grate for the wet well.

Start Date: 10/01/13 **End Date:** 09/30/19

Project Manager: Craig Helpling

Funded Program: 6300129

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 896,900	$ 670,000	$ 600,000	$ 600,000	$ 300,000	$ -	$ -	$ 3,066,900
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 896,900	$ 670,000	$ 600,000	$ 600,000	$ 300,000	$ -	$ -	$ 3,066,900

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ 171,282	$ 6,681	$ 20,000	$ 100,000	$ 100,000	$ 50,000	$ -	$ 447,964
Construction	$ 685,530	$ 33,407	$ 650,000	$ 500,000	$ 500,000	$ 250,000	$ -	$ 2,618,937
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ 856,812	$ 40,088	$ 670,000	$ 600,000	$ 600,000	$ 300,000	$ -	$ 3,066,900

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

PSJ PAVE PLANT ACCESS ROAD

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 210,000

Project Description

Pave plant access road. May be procured from state or other cooperative agreement.

Project Milestones

Port St John Wastewater
Project complete September 2018

Service Impact

The access road has numerous potholes and has deteriorated to the point where it needs to be rebuilt.

Start Date: 10/01/16 **End Date:** 09/30/18

Project Manager: Craig Helpling

Funded Program: 6570106

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 210,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 210,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 210,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 210,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ 60,000	$ -	$ -	$ -	$ -	$ -	$ 60,000
Construction	$ -	$ -	$ 150,000	$ -	$ -	$ -	$ -	$ 150,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ 60,000	$ 150,000	$ -	$ -	$ -	$ -	$ 210,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

PT ST JOHN INFLOW AND INFILTRATION REDUCTION

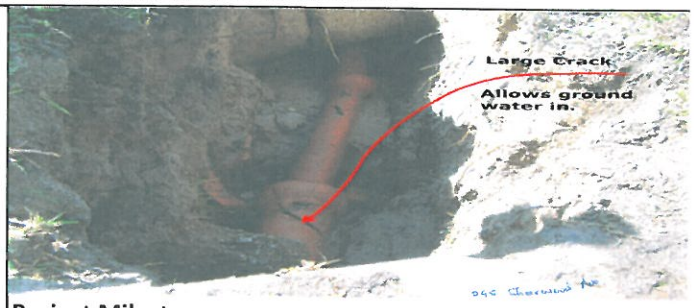
Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 661,585

Project Description

Relining of gravity lines and lining of manholes in this service area. May be procured from state or other cooperative agreement.



Project Milestones

Port St John Wastewater
Ongoing Project

Service Impact

Rehabilitation reduces Inflow and Infiltration which reduces pumping expense, overflows and returns capacity to the treatment plant.

Start Date: 10/01/17 **End Date:** 09/30/21

Project Manager: Brian Sorensen

Funded Program: 6981101

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 661,585	$ -	$ -	$ -	$ -	$ -	$ -	$ 661,585
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 661,585	$ -	$ -	$ -	$ -	$ -	$ -	$ 661,585

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ 61,585	$ 150,000	$ 150,000	$ 150,000	$ 150,000	$ -	$ 661,585
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ 61,585	$ 150,000	$ 150,000	$ 150,000	$ 150,000	$ -	$ 661,585

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

SLUDGE DEWATERING SYSTEM

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 871,000

Project Description

Install a mechanical sludge dewatering system to supplement the air drying beds. May be procured from state or other cooperative agreement.

Project Milestones

Port St John Wastewater
Project complete September 2019

Service Impact

Provide more effective sludge dewatering. Current system using air drying beds is too dependent on weather conditions. Eliminates the need to haul liquid sludge to Sykes Wastewater Treatment Plant during inclement weather.

Start Date: 10/01/17 **End Date:** 09/30/19

Project Manager: Craig Helpling

Funded Program: 6540112

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ 871,000	$ -	$ -	$ -	$ -	$ -	$ 871,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ 871,000	$ -	$ -	$ -	$ -	$ -	$ 871,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ 130,000	$ 44,200	$ -	$ -	$ -	$ 174,200
Construction	$ -	$ -	$ 520,000	$ 176,800	$ -	$ -	$ -	$ 696,800
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ 650,000	$ 221,000	$ -	$ -	$ -	$ 871,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

AERATOR SYSTEM REPLACEMENT

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 1,810,841

Project Description

Rehabilitate aerators. This will include motors, gearboxes and mixing paddles. May be procured from state or other cooperative agreement.

Project Milestones

South Beach Wastewater
Project complete September 2018

Service Impact

The aerators have outlasted their life expectancy and will be more cost efficient.

Start Date: 10/01/14 **End Date:** 09/30/18

Project Manager: Brian Sorensen

Funded Program: 6538311

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 1,810,841	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,810,841
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 1,810,841	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,810,841

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ 752,787	$ 1,000,054	$ 58,000	$ -	$ -	$ -	$ -	$ 1,810,841
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ 752,787	$ 1,000,054	$ 58,000	$ -	$ -	$ -	$ -	$ 1,810,841

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

B06 FORCE MAIN GROUTING

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 550,000

Project Description

Grout a 20 inch force main that has been taken out of service on Riverside Drive, Melbourne Beach.

Project Milestones

South Beach Wastewater

Project complete September 2018

Service Impact

This will allow for the force main to be stabilized.

Start Date: 10/01/16 **End Date:** 09/30/18

Project Manager: Brian Sorensen

Funded Program: 6985306

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 550,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 550,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 550,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 550,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ 50,000	$ 500,000	$ -	$ -	$ -	$ -	$ 550,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ 50,000	$ 500,000	$ -	$ -	$ -	$ -	$ 550,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

DIGESTER CENTRIFUGAL BLOWERS REPLACEMENT

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 415,951

Project Description

Replace blowers and associated controls. May be procured from state or other cooperative agreement.

Project Milestones

South Beach Wastewater

Project complete September 2018

Service Impact

These blowers are reaching the end of their useful life and need to be replaced. These blowers are essential for the operation for the plant.

Start Date: 10/01/15 **End Date:** 09/30/18

Project Manager: Craig Helpling

Funded Program: 6984313

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 400,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 400,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ 15,951	$ -	$ -	$ -	$ -	$ -	$ -	$ 15,951
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 415,951	$ -	$ -	$ -	$ -	$ -	$ -	$ 415,951

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ 3,268	$ 12,683	$ -	$ -	$ -	$ -	$ -	$ 15,951
Construction	$ -	$ -	$ 400,000	$ -	$ -	$ -	$ -	$ 400,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ 3,268	$ 12,683	$ 400,000	$ -	$ -	$ -	$ -	$ 415,951

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

EQUALIZATION BASIN VALVES, PIPING AND TANK REPAIRS

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 300,000

Project Description

Equalization Basin Valves and tank repairs. This will include new self sustaining valves, pipes and tank repairs. May be procured from state or other cooperative agreement.

Project Milestones

South Beach Wastewater
Project complete September 2018

Service Impact

These valves are non-functional and have outlasted their life expectancy.

Start Date: 10/01/17 **End Date:** 09/30/18

Project Manager: Craig Helpling

Funded Program: 6540407

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 300,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 300,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 300,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 300,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ 50,000	$ -	$ -	$ -	$ -	$ -	$ 50,000
Construction	$ -	$ -	$ 250,000	$ -	$ -	$ -	$ -	$ 250,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ 50,000	$ 250,000	$ -	$ -	$ -	$ -	$ 300,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

FORCE MAIN S12 REPLACEMENT

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 70,360

Project Description
Replace 450 LF of force main.

Project Milestones
South Beach Wastewater
Project completion September 2018

Service Impact
The pipe has corroded and needs frequent repair.
Replacement will reduce repairs and provide better service.

Start Date: 10/01/16 **End Date:** 09/30/18

Project Manager: Craig Helpling

Funded Program: 6985310

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 70,360	$ -	$ -	$ -	$ -	$ -	$ -	$ 70,360
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 70,360	$ -	$ -	$ -	$ -	$ -	$ -	$ 70,360

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ 29,360	$ -	$ -	$ -	$ -	$ -	$ 29,360
Construction	$ -	$ -	$ 41,000	$ -	$ -	$ -	$ -	$ 41,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ 29,360	$ 41,000	$ -	$ -	$ -	$ -	$ 70,360

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

HIGH SERVICE PUMPS (VERTICAL TURBINE)

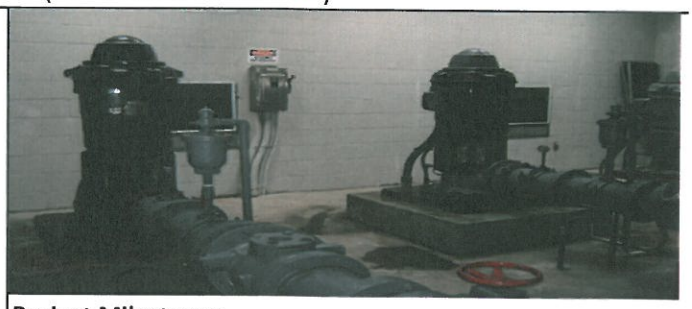
Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 815,942

Project Description

Replace high service pumps. May be procured from state or other cooperative agreement.



Project Milestones

South Beach Wastewater

Construction complete September 2018

Service Impact

The high service pumps are reaching the end of their useful life and will need to be replaced. They are critical in the successful operation of the reclaimed water system.

Start Date: 10/01/15 **End Date:** 09/30/18

Project Manager: Brian Sorensen

Funded Program: 6540307

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 815,942							$ 815,942
Permit/Fees								$ -
Bond/Referendum								$ -
Grant					$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 815,942	$ -	$ -	$ -	$ -	$ -	$ -	$ 815,942

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ 28,942	$ 37,000	$ -	$ -	$ -	$ -	$ -	$ 65,942
Construction	$ -	$ -	$ 750,000	$ -	$ -	$ -		$ 750,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ 28,942	$ 37,000	$ 750,000	$ -	$ -	$ -	$ -	$ 815,942

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

MECHANICAL BAR SCREEN REPLACEMENT

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 1,098,167

Project Description

Replace the mechanical bar screen. May be procured from state or other cooperative agreement.

Project Milestones

South Beach Wastewater

Project complete September 2018

Service Impact

The existing mechanical bar screen was last rehabilitated in 2006 and needs to be replaced. The headworks structure housing the bar screen requires modification.

Start Date: 10/01/15 **End Date:** 09/30/18

Project Manager: Craig Helpling

Funded Program: 6572300

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 1,098,167	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,098,167
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 1,098,167	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,098,167

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ 86,256	$ 11,911	$ -	$ -	$ -	$ -	$ -	$ 98,167
Construction	$ -	$ -	$ 1,000,000	$ -	$ -	$ -	$ -	$ 1,000,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ 86,256	$ 11,911	$ 1,000,000	$ -	$ -	$ -	$ -	$ 1,098,167

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

PROCESS BLOWER REPLACEMENT

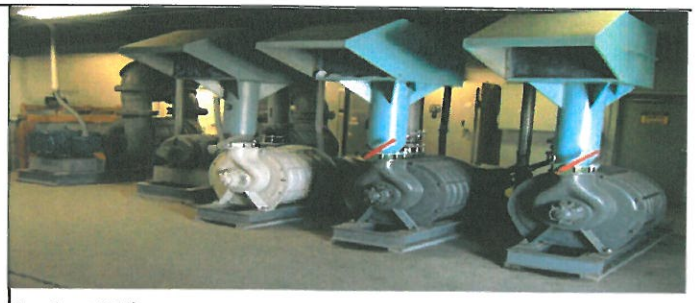
Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 735,640

Project Description

Replace blowers, air piping, and associated controls. May be procured from state or other cooperative agreement.



Project Milestones

South Beach Wastewater
Bond Fund Design
Project complete September 2018

Service Impact

The blowers are reaching the end of their useful life and need to be replaced.

Start Date: 10/01/15 **End Date:** 09/30/18

Project Manager: Craig Helpling

Funded Program: 6538314

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 677,655	$ -	$ -	$ -	$ -	$ -	$ -	$ 677,655
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ 57,985	$ -	$ -	$ -	$ -	$ -	$ -	$ 57,985
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 735,640	$ -	$ -	$ -	$ -	$ -	$ -	$ 735,640

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ 3,268	$ 82,372	$ 20,000	$ -	$ -	$ -	$ -	$ 105,640
Construction	$ -	$ -	$ 630,000	$ -	$ -	$ -	$ -	$ 630,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ 3,268	$ 82,372	$ 650,000	$ -	$ -	$ -	$ -	$ 735,640

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

REHABILITATE DISCHARGE PONDS

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 295,657

Project Description

Rehabilitate effluent ponds. Rehabilitation to include, but not limited to, regrading, sodding and other stabilization as necessary. May be procured from state or other cooperative agreement.

Project Milestones

South Beach Wastewater

Project complete September 2018

Service Impact

This project would be to determine if the effluent ponds can be regraded to provide longer detention times during discharges and perform the construction.

Start Date: 10/01/16 **End Date:** 09/30/18

Project Manager: Craig Helpling

Funded Program: 6551301

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 295,657	$ -	$ -	$ -	$ -	$ -	$ -	$ 295,657
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 295,657	$ -	$ -	$ -	$ -	$ -	$ -	$ 295,657

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ 9,643	$ 11,014	$ -	$ -	$ -	$ -	$ -	$ 20,657
Construction	$ -	$ -	$ 275,000	$ -	$ -	$ -	$ -	$ 275,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ 9,643	$ 11,014	$ 275,000	$ -	$ -	$ -	$ -	$ 295,657

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

SOUTH BEACH INFLOW AND INFILTRATION REDUCTION

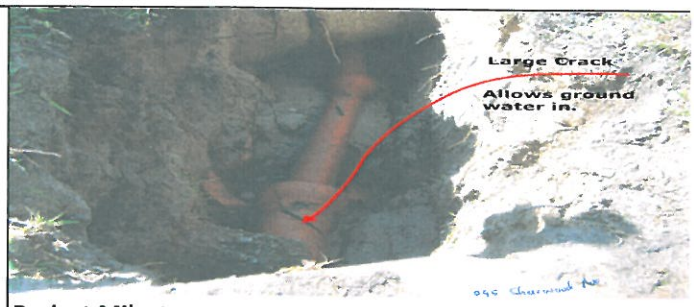
Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 7,117,050

Project Description

Relining of gravity lines and service laterals in the South Beach service area.



Project Milestones

South Beach Wastewater
Ongoing Project

Service Impact

Rehabilitation reduces inflow and infiltration which reduces pumping expense, overflows and returns capacity to the treatment plant.

Start Date: 10/01/16 **End Date:** 09/30/22

Project Manager: Brian Sorensen

Funded Program: 6981306

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 6,817,050	$ -	$ -	$ -	$ -	$ -	$ -	$ 6,817,050
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ 300,000	$ -	$ -	$ -	$ -	$ -	$ 300,000
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 6,817,050	$ 300,000	$ -	$ -	$ -	$ -	$ -	$ 7,117,050

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ 3,716,287	$ 900,763	$ 500,000	$ 500,000	$ 500,000	$ 500,000	$ 500,000	$ 7,117,050
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ 3,716,287	$ 900,763	$ 500,000	$ 500,000	$ 500,000	$ 500,000	$ 500,000	$ 7,117,050

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

SOUTH BEACH LIFT STATIONS

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 9,392,999

Project Description

Replacement or Rehabilitation of aged, detiorating lift stations S04, S09, B10, S19, S05, S08, S27 and B01 in current and upcoming fiscal years, or others as conditions necessitate.

Project Milestones

South Beach Wastewater
Ongoing project

Service Impact

Rehabilitation or replacement of a lift station will make it more economical and will reduce repairs and maintenance costs. It will also minimalize overflows and add safety features such as a safety grate for the wet well.

Start Date: 10/01/13 **End Date:** 09/30/22

Project Manager: Craig Helpling

Funded Program: 6300415

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 9,303,125	$ -	$ -	$ -	$ -	$ -	$ -	$ 9,303,125
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ 89,874	$ -	$ -	$ -	$ -	$ -	$ -	$ 89,874
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 9,392,999	$ -	$ -	$ -	$ -	$ -	$ -	$ 9,392,999

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ 166,230	$ 138,525	$ 496,000	$ -	$ 231,000	$ 158,000	$ 477,000	$ 1,666,755
Construction	$ 997,382	$ 692,627	$ 2,572,235	$ -	$ 924,000	$ 632,000	$ 1,908,000	$ 7,726,244
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ 1,163,612	$ 831,152	$ 3,068,235	$ -	$ 1,155,000	$ 790,000	$ 2,385,000	$ 9,392,999

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

SOUTH BEACH WWTP SCADA UPGRADES

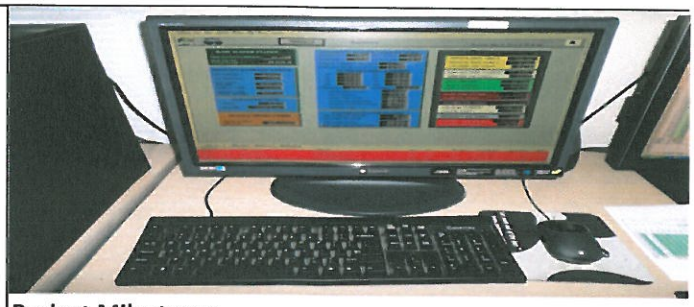
Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 400,000

Project Description

Replace supervisory control and data acquisition units (SCADA) at the South Beach Wastewater Treatment Plant. May be procured from state or other cooperative agreement.



Project Milestones

South Beach Wastewater
Ongoing Project

Service Impact

Plant SCADA is inadequate for today's standards. Parts are obsolete and difficult to obtain for repairs. Many processes are not on SCADA and existing system does not provide complete control to the operators. System to be reworked and add necessary equipment into SCADA system.

Start Date: 10/01/17 **End Date:** 09/30/22

Project Manager: Brian Sorensen

Funded Program: 6351303

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ 400,000	$ -	$ -	$ -	$ -	$ -	$ 400,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ 400,000	$ -	$ -	$ -	$ -	$ -	$ 400,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ 100,000	$ 100,000	$ 100,000	$ 50,000	$ 50,000	$ 400,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ 100,000	$ 100,000	$ 100,000	$ 50,000	$ 50,000	$ 400,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

SOUTH PATRICK DRIVE FORCE MAIN REPLACEMENT

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 3,133,530

Project Description

Replace 2,900 LF of 20-inch PVC and 2,000 LF of 24-inch PVC force main with ductile iron pipe of like sizes between Desoto Parkway and Banana River Drive.

Project Milestones

South Beach Wastewater

Project completion September 2018

Service Impact

The existing 20" PVC and 24" PVC pipes are failing and may result in discharging sewage into the environment.

Start Date: 10/01/16 **End Date:** 09/30/18

Project Manager: Craig Helpling

Funded Program: 6985218

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 3,133,530	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,133,530
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 3,133,530	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,133,530

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ 25,000	$ 25,000	$ -	$ -	$ -	$ -	$ 50,000
Construction	$ -	$ 1,683,530	$ 1,400,000	$ -	$ -	$ -	$ -	$ 3,083,530
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ 1,708,530	$ 1,425,000	$ -	$ -	$ -	$ -	$ 3,133,530

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

NORTH RIVERSIDE DRIVE FORCE MAIN IMPROVEMENTS

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 15,475,000

Project Description
Replace existing 24" PVC force main with ductile iron.

Project Milestones
South Beach Wastewater
Project completion September 2020
Pursue State Revolving Fund (SRF) loan or grant to finance construction.

Service Impact
Eliminate potential pipe failure.

Start Date: 10/01/16 **End Date:** 09/30/20

Project Manager: Craig Helpling

Funded Program: 6300235

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 475,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 475,000
Other Financing Sources	$ -	$ -	$ -	$ 15,000,000	$ -	$ -	$ -	$ 15,000,000
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 475,000	$ -	$ -	$ 15,000,000	$ -	$ -	$ -	$ 15,475,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ 75,000	$ 300,000	$ -	$ -	$ -	$ -	$ 375,000
Construction	$ -	$ -	$ 100,000	$ 10,000,000	$ 5,000,000	$ -	$ -	$ 15,100,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ 75,000	$ 400,000	$ 10,000,000	$ 5,000,000	$ -	$ -	$ 15,475,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

TREATMENT PROCESS IMPROVEMENTS

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 1,921,505

Project Description

Treatment process rehabilitation. May be procured from state or other cooperative agreement.

Project Milestones

South Beach Wastewater

Project complete September 2019

Service Impact

The treatment plant has reached the point where it needs extensive rehabilitation in order to maintain treatment effective and reliability.

Start Date: 10/01/14 **End Date:** 09/30/19

Project Manager: Craig Helpling

Funded Program: 6540308

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 1,921,505	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,921,505
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 1,921,505	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,921,505

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ 191,505	$ 125,000	$ 55,000	$ -	$ -	$ -	$ -	$ 371,505
Construction	$ -	$ -	$ 1,550,000	$ -	$ -	$ -	$ -	$ 1,550,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ 191,505	$ 125,000	$ 1,605,000	$ -	$ -	$ -	$ -	$ 1,921,505

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

BAYTREE PRESSURE SUSTAINING VALVE REPLACEMENT

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 75,000

Project Description

Replace pressure sustaining valve. May be procured from state or other cooperative agreement.

Project Milestones

South Central Wastewater

Installation complete September 2018

Service Impact

The installation of this pressure sustaining valve will allow remote operation of the valve from the treatment plant. This will provide for more efficient distribution of reclaimed water.

Start Date: 10/01/17 **End Date:** 09/30/18

Project Manager: Brian Sorensen

Funded Program: 6538414

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ 75,000	$ -	$ -	$ -	$ -	$ -	$ 75,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ 75,000	$ -	$ -	$ -	$ -	$ -	$ 75,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ 75,000	$ -	$ -	$ -	$ -	$ 75,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ 75,000	$ -	$ -	$ -	$ -	$ 75,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

IRCC PRESSURE SUSTAINING VALVE REPLACEMENT

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 75,000

Project Description

Replace pressure sustaining valve. May be procured from state or other cooperative agreement.

Project Milestones

South Central Wastewater

Installation complete September 2020

Service Impact

The installation of this pressure sustaining valve will allow remote operation of the valve from the treatment plant. This will provide for more efficient distribution of reclaimed water.

Start Date: 10/01/17 **End Date:** 09/30/18

Project Manager: Brian Sorensen

Funded Program: 6538415

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ 75,000	$ -	$ -	$ -	$ -	$ -	$ 75,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ 75,000	$ -	$ -	$ -	$ -	$ -	$ 75,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ 75,000	$ -	$ -	$ -	$ -	$ 75,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ 75,000	$ -	$ -	$ -	$ -	$ 75,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

REHABILITATE BELT PRESS CONTROLS & REPLACE VFD'S

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 200,000

Project Description

Rehabilitate the belt press controls and replace Variable Frequency Drives (VFD's). May be procured from state or other cooperative agreement.

Project Milestones

South Central Wastewater
Project complete September 2018

Service Impact

The existing control panel and VFD's are 25 years old and in need of replacement or rehabilitation.

Start Date: 10/01/17 **End Date:** 09/30/18

Project Manager: Brian Sorensen

Funded Program: 6538420

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ 200,000	$ -	$ -	$ -	$ -	$ -	$ 200,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ 200,000	$ -	$ -	$ -	$ -	$ -	$ 200,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -		$ -
Construction	$ -	$ -	$ 200,000	$ -	$ -	$ -	$ -	$ 200,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ 200,000	$ -	$ -	$ -	$ -	$ 200,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

REPLACE IN-PLANT RECLAIMED WATER PUMPS

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 100,000

Project Description

Replacement of in-plant reclaimed water pumps.

Project Milestones

South Central Wastewater

Project complete September 2018

Service Impact

These pumps have reached the end of there useful life and are unable to be repaired. They are very difficult to maintain and are no longer efficient.

Start Date: 10/01/17 **End Date:** 09/30/18

Project Manager: Brian Sorensen

Funded Program: 6984406

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ 100,000	$ -	$ -	$ -	$ -	$ -	$ 100,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ 100,000	$ -	$ -	$ -	$ -	$ -	$ 100,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ 100,000	$ -	$ -	$ -	$ -	$ 100,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ 100,000	$ -	$ -	$ -	$ -	$ 100,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

REUSE SYSTEM OPTIMIZATION IMPROVEMENTS

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 800,000

Project Description

Identify the locations for the reclaimed water system isolation valves for more effective distribution of reclaimed water. May be procured from state or other cooperative agreement.

Project Milestones

South Central Wastewater
Project complete September 2019

Service Impact

There are an insufficient number of valves on the reclaimed water system to control the flow of reclaimed water to the customers. Uncontrolled usage diminishes the effectiveness of the entire system.

Start Date: 10/01/17 **End Date:** 09/30/19

Project Manager: Craig Helpling

Funded Program: 6540409

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ 800,000	$ -	$ -	$ -	$ -	$ -	$ 800,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ 800,000	$ -	$ -	$ -	$ -	$ -	$ 800,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ 400,000	$ 400,000	$ -	$ -	$ -	$ 800,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ 400,000	$ 400,000	$ -	$ -	$ -	$ 800,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

SEPTAGE & GREASE PRETREATMENT FACILITY CONSTRUCTION

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 1,708,006

Project Description

Design and construct new septage and grease facility. May be procured from state or other cooperative agreement.

Project Milestones

South Central Wastewater
Design complete FY 2016
Construction complete FY 2018

Service Impact

The current septage and grease facility was constructed in 1994 and has exceeded its useful life. It is located in the footprint of the treatment plant expansion and needs to be relocated.

Start Date: 10/01/14 **End Date:** 09/30/18

Project Manager: Craig Helpling

Funded Program: 6984404

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ 1,708,006	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,708,006
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 1,708,006	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,708,006

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -		$ -
Planning/Design	$ 67,599	$ 4,000	$ 30,000	$ -	$ -	$ -	$ -	$ 101,599
Construction	$ 1,540,407	$ 66,000	$ -	$ -	$ -	$ -	$ -	$ 1,606,407
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ 1,608,006	$ 70,000	$ 30,000	$ -	$ -	$ -	$ -	$ 1,708,006

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

SOD POND IMPROVEMENTS

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 602,996

Project Description

This project would install a pumping system to move water between ponds or return water to the wetlands or plant. This project also repairs the eroded berms of the ponds. May be procured from state or other cooperative agreement.

Project Milestones

South Central Wastewater
Road & Bridge Project
Project complete September 2018

Service Impact

These ponds were constructed 20 years ago and the banks and pump supports have deteriorated to the point where rehabilitation is required.

Start Date: 10/01/15 **End Date:** 09/30/18

Project Manager: Craig Helpling

Funded Program: 6538418

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 602,996	$ -	$ -	$ -	$ -	$ -	$ -	$ 602,996
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 602,996	$ -	$ -	$ -	$ -	$ -	$ -	$ 602,996

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ 600	$ 16,000	$ -	$ -	$ -	$ -	$ -	$ 16,600
Construction	$ -	$ 236,396	$ 350,000	$ -	$ -	$ -	$ -	$ 586,396
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ 600	$ 252,396	$ 350,000	$ -	$ -	$ -	$ -	$ 602,996

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

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SOUTH CENTRAL INFLOW AND INFILTRATION REDUCTION

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 1,599,489

Project Description

Relining of gravity lines and lining of manholes in this service area. May be procured from state or other cooperative agreement.

Project Milestones

South Central Wastewater
Ongoing Project

Service Impact

Rehabilitation reduces Inflow and Infiltration which reduces pumping expense, overflows and returns capacity to the treatment plant.

Start Date: 10/01/14 **End Date:** 09/30/20

Project Manager: Brian Sorensen

Funded Program: 6981206

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 1,599,489	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,599,489
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 1,599,489	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,599,489

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ 264,874	$ 509,615	$ 425,000	$ 200,000	$ 200,000	$ -	$ -	$ 1,599,489
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ 264,874	$ 509,615	$ 425,000	$ 200,000	$ 200,000	$ -	$ -	$ 1,599,489

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

SOUTH CENTRAL LIFT STATIONS

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 7,633,893

Project Description

Replacement or Rehabilitation of aged, detiorating lift stations T04, T11, T14, T16, T17, T24, T25, T28, T29, T38 and T45 in current and upcoming fiscal years or others as conditions necessitate.

Project Milestones

South Central Wastewater
Ongoing project

Service Impact

Rehabilitation or replacement of lift stations will make it more economical and will reduce repairs and maintenance costs. It will also minimalize overflows and add safety features such as a safety grate for the wet well.

Start Date: 10/01/13 **End Date:** 09/30/22

Project Manager: Craig Helpling

Funded Program: 6300414

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 7,633,893	$ -	$ -	$ -	$ -	$ -	$ -	$ 7,633,893
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 7,633,893	$ -	$ -	$ -	$ -	$ -	$ -	$ 7,633,893

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ 12,465	$ 900,102	$ -	$ -	$ 67,800	$ 395,800	$ 1,376,167
Construction	$ -	$ 62,326	$ 2,320,000	$ 185,000	$ -	$ 1,168,200	$ 2,522,200	$ 6,257,726
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ 74,791	$ 3,220,102	$ 185,000	$ -	$ 1,236,000	$ 2,918,000	$ 7,633,893

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

SOUTH CENTRAL SCADA UPGRADES

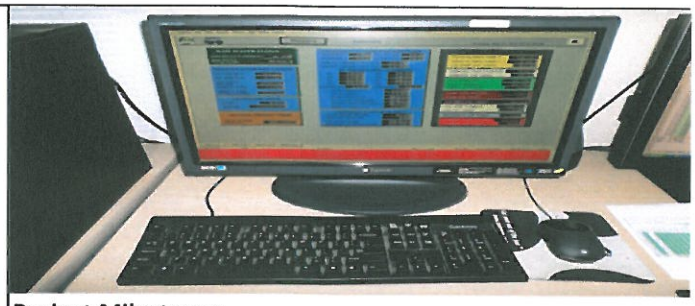
Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 397,772

Project Description

Replace Legacy Remote Terminal Units (RTU'S). May be procured from state or other cooperative agreement.



Project Milestones

South Central Wastewater
Project complete September 2020

Service Impact

These components are obsolete and have reached the end of their useful life as repair parts are increasingly difficult to obtain.

Start Date: 10/01/16 **End Date:** 09/30/20

Project Manager: Brian Sorensen

Funded Program: 6351411

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 397,772	$ -	$ -	$ -	$ -	$ -	$ -	$ 397,772
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 397,772	$ -	$ -	$ -	$ -	$ -	$ -	$ 397,772

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ 22,772	$ 175,000	$ 100,000	$ 100,000	$ -	$ -	$ 397,772
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ 22,772	$ 175,000	$ 100,000	$ 100,000	$ -	$ -	$ 397,772

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

SOUTH CENTRAL VALVE REPLACEMENTS

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 610,695

Project Description

This project consists of replacing valves in the wastewater collection and reuse system that have become inoperable or no longer seal off the flow of water. May be procured from state or other cooperative agreement.

Project Milestones

South Central Wastewater
Ongoing Project

Service Impact

The installation of usable valves will allow the flow to be shut off during repairs. This protects the workers and in the case of the reuse system, allows more of the system to remain in operation during repairs.

Start Date: 10/01/15 **End Date:** 09/30/20

Project Manager: Brian Sorensen

Funded Program: 513873

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 610,695	$ -	$ -	$ -	$ -	$ -	$ -	$ 610,695
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 610,695	$ -	$ -	$ -	$ -	$ -	$ -	$ 610,695

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ 10,695	$ 200,000	$ 200,000	$ 100,000	$ 100,000	$ -	$ -	$ 610,695
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ 10,695	$ 200,000	$ 200,000	$ 100,000	$ 100,000	$ -	$ -	$ 610,695

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

SUNTREE BOOSTER STATION REHABILITATION

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 575,000

Project Description

Rehabilitate the Suntree booster station. Replace vertical turbine pumps and controls and rehabilitate storage tank. May be procure from state or other cooperative agreement. May be procured from state or other cooperative agreement.

Project Milestones

South Central Wastewater
Project complete 2019

Service Impact

This booster station has reached the end of its useful life and needs to be rehabilitated.

Start Date: 10/01/17 **End Date:** 09/30/19

Project Manager: Craig Helpling

Funded Program: 6540405

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ 575,000	$ -	$ -	$ -	$ -	$ -	$ 575,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ 575,000	$ -	$ -	$ -	$ -	$ -	$ 575,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ 75,000	$ -	$ -	$ -	$ -	$ 75,000
Construction	$ -	$ -		$ 500,000	$ -	$ -	$ -	$ 500,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ 75,000	$ 500,000	$ -	$ -	$ -	$ 575,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

TREATMENT PLANT EXPANSION TO 12.0 MGD

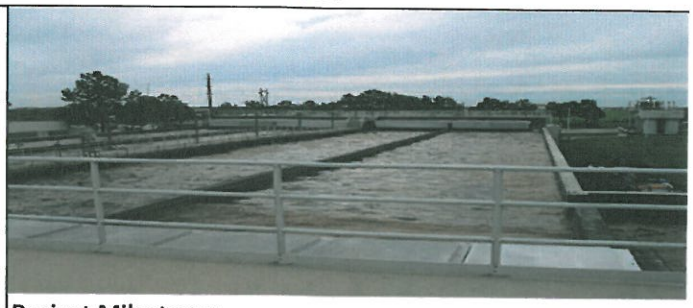
Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 43,150,978

Project Description

Project is to add a third treatment train and support buildings to accommodate growth in Viera/Suntree. May be procured from state or other cooperative agreement.



Project Milestones

South Central Wastewater
Project complete September 2019

Service Impact

Existing treatment plant is nearing its operating capacity. With growth in this service area the design and construction of the expansion of the treatment plant needs to be done. Includes electrical power supply upgrade and multi-purpose building.

Start Date: 10/01/14 **End Date:** 09/30/19

Project Manager: Craig Helpling

Funded Program: 6984405

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 3,421,909	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,421,909
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ 39,729,069	$ -	$ -	$ -	$ -	$ -	$ -	$ 39,729,069
Total Revenue	$ 43,150,978	$ -	$ -	$ -	$ -	$ -	$ -	$ 43,150,978

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ 1,968,856	$ 614,952	$ 614,952	$ -	$ -	$ -	$ -	$ 3,198,760
Construction	$ 1,356,309	$ 18,750,000	$ 19,307,174	$ 300,000	$ -	$ -	$ -	$ 39,713,483
Other	$ -	$ -	$ 238,735	$ -	$ -	$ -	$ -	$ 238,735
Total Expense	$ 3,325,165	$ 19,364,952	$ 20,160,861	$ 300,000	$ -	$ -	$ -	$ 43,150,978

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

WETLANDS EFFLUENT ELECTRICAL

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 60,000

Project Description

Run FPL utility power to the wetlands to provide electricity for pumping. May be procured from state or other cooperative agreement.

Project Milestones

South Central Wastewater
Project complete September 2018

Service Impact

The existing power to the wetlands is supplied by auxiliary generator power operated by Utility Services. It is more expensive to produce and less reliable than FPL utility power.

Start Date: 10/01/16 **End Date:** 09/30/18

Project Manager: Craig Helpling

Funded Program: 6538429

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ 60,000	$ -	$ -	$ -	$ -	$ -	$ 60,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ 60,000	$ -	$ -	$ -	$ -	$ -	$ 60,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ 60,000	$ -	$ -	$ -	$ -	$ 60,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ 60,000	$ -	$ -	$ -	$ -	$ 60,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

AERATION BASINS (2) MOTORS AND DO CONTROL UPGRADE

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 1,755,000

Project Description

Replace Aerator motors and dissolved oxygen controls and associated control systems.

Project Milestones

Sykes Wastewater

Project complete September 2021

Service Impact

Improve efficiency and capacity of the plant.

Start Date: 10/01/17 **End Date:** 09/30/21

Project Manager: Craig Helpling

Funded Program: 6984206

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ 1,755,000	$ -	$ -	$ -	$ -	$ -	$ 1,755,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ 1,755,000	$ -	$ -	$ -	$ -	$ -	$ 1,755,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ 600,000	$ 245,000	$ 645,000	$ 265,000	$ -	$ 1,755,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ 600,000	$ 245,000	$ 645,000	$ 265,000	$ -	$ 1,755,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

CLARIFIER REHABILITATION (4)

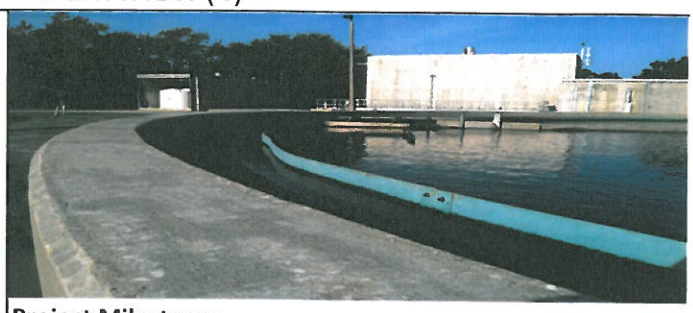
Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 1,124,288

Project Description

Clarifier structures and drive rehabilitation. May be procured from state or other cooperative agreement.



Project Milestones

Sykes Wastewater

Project complete September 2021

Service Impact

The existing clarifiers are over 20 years old. All clarifiers need to be rehabilitated to continue proper operation.

Start Date: 10/01/17 **End Date:** 09/30/21

Project Manager: Brian Sorensen

Funded Program: 6540204

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 1,124,288	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,124,288
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 1,124,288	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,124,288

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ 134,288	$ 150,000	$ 280,000	$ 280,000	$ 280,000	$ -	$ 1,124,288
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ 134,288	$ 150,000	$ 280,000	$ 280,000	$ 280,000	$ -	$ 1,124,288

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

FORCE MAIN C01 REPLACEMENT

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 205,000

Project Description

Remove and replace approx. 1480 LF of 8" AC FM along Mustang Way. May be procured from state or other cooperative agreement.

Project Milestones

Sykes Wastewater

Project complete September 2019

Service Impact

The existing asbestos cement force main is brittle and has a history of breaking.

Start Date: 10/01/17 **End Date:** 09/30/19

Project Manager: Craig Helpling

Funded Program: 6985210

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ 205,000	$ -	$ -	$ -	$ -	$ -	$ 205,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ 205,000	$ -	$ -	$ -	$ -	$ -	$ 205,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ 40,000	$ -	$ -	$ -	$ -	$ 40,000
Construction	$ -	$ -	$ -	$ 165,000	$ -	$ -	$ -	$ 165,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ 40,000	$ 165,000	$ -	$ -	$ -	$ 205,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

FORCE MAIN C09 REPLACEMENT

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 182,365

Project Description

Remove and replace 4" AC FM from LS C-09 to C-10. May be procured from state or other cooperative agreement.

Project Milestones

Sykes Wastewater

Project complete September 2018

Service Impact

This force main was constructed in 1966, has reached the end of its useful life and is in need of replacement. It is constructed of asbestos cement pipe which is an older material that is no longer used. This material becomes fragile, subject to leaks and is difficult and dangerous to repair.

Start Date: 10/01/17 **End Date:** 09/30/18

Project Manager: Craig Helpling

Funded Program: 6985211

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 150,365	$ -	$ -	$ -	$ -	$ -	$ -	$ 150,365
Permit/Fees	$ 32,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 32,000
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 182,365	$ -	$ -	$ -	$ -	$ -	$ -	$ 182,365

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ 25,475	$ 6,890	$ -	$ -	$ -	$ -	$ 32,365
Construction	$ -	$ -	$ 150,000	$ -	$ -	$ -	$ -	$ 150,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ 25,475	$ 156,890	$ -	$ -	$ -	$ -	$ 182,365

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

FORCE MAIN M13 REPLACEMENT

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 152,270

Project Description

Remove and replace approx. 900 linear feet of 4" asbestos cement force main from LS M-13 to sanitary manhole 003. May be procured from state or other cooperative agreement.

Project Milestones

Sykes Wastewater

Project complete September 2018

Service Impact

The existing asbestos cement force main is brittle and has a history of breaking.

Start Date: 10/01/16 **End Date:** 09/30/18

Project Manager: Craig Helpling

Funded Program: 6985207

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 152,270	$ -	$ -	$ -	$ -	$ -	$ -	$ 152,270
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 152,270	$ -	$ -	$ -	$ -	$ -	$ -	$ 152,270

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ 10,000	$ -	$ -	$ -	$ -	$ 10,000
Planning/Design	$ -	$ 44,670	$ 7,600	$ -	$ -	$ -	$ -	$ 52,270
Construction	$ -	$ -	$ 90,000	$ -	$ -	$ -	$ -	$ 90,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ 44,670	$ 107,600	$ -	$ -	$ -	$ -	$ 152,270

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

FORCE MAIN NEWFOUND HARBOR REPLACEMENT (V09 to V08)

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 574,152

Project Description

Remove and replace approx. 4500 LF of 8" asbestos cement force main along Newfound Harbor Dr. from Lift Station V09 to Lift Station V08. May be procured from state or other cooperative agreement.

Project Milestones

Sykes Wastewater

Project complete September 2018

Service Impact

The existing asbestos cement force main is brittle and has a history of breaking.

Start Date: 10/01/15 **End Date:** 09/30/18

Project Manager: Craig Helpling

Funded Program: 6985206

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 53,500	$ 495,652	$ 25,000	$ -	$ -	$ -	$ -	$ 574,152
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 53,500	$ 495,652	$ 25,000	$ -	$ -	$ -	$ -	$ 574,152

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ 53,500	$ 6,565	$ -	$ -	$ -	$ -	$ -	$ 60,065
Construction	$ -	$ 489,087	$ 25,000	$ -	$ -	$ -	$ -	$ 514,087
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ 53,500	$ 495,652	$ 25,000	$ -	$ -	$ -	$ -	$ 574,152

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

NORTH COURTENAY PARKWAY FORCEMAIN EXTENSION

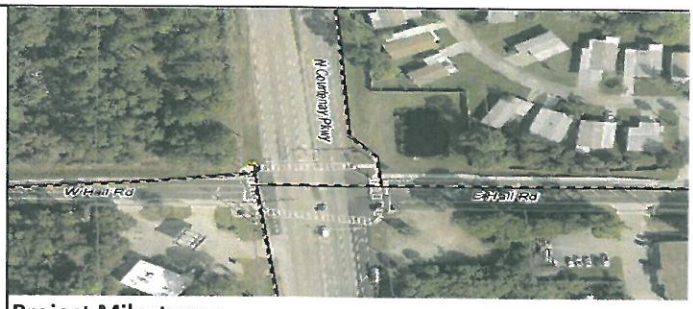
Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 2,730,275

Project Description

Install forcemain and reclaimed water line. May be procured from state or other cooperative agreement.



Project Milestones

Sykes Wastewater

Project complete September 2018

Service Impact

Install force main and reclaimed water line to serve North of Hall Road.

Start Date: 10/01/14 **End Date:** 09/30/18

Project Manager: Craig Helpling

Funded Program: 6985213

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 1,738,739	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,738,739
Permit/Fees	$ 566,536	$ -	$ -	$ -	$ -	$ -	$ -	$ 566,536
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ 425,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 425,000
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 2,730,275	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,730,275

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ 104,114	$ 56,536	$ -	$ -	$ -	$ -	$ -	$ 160,650
Construction	$ -	$ -	$ 932,000	$ 1,637,625	$ -		$ -	$ 2,569,625
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ 104,114	$ 56,536	$ 932,000	$ 1,637,625	$ -	$ -	$ -	$ 2,730,275

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

RECLAIMED WATER IMPROVEMENTS AT WWTP

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 4,487,853

Project Description

Equipment and process improvements to the Sykes Wastewater Treatment Plant Reclaimed water system. Construction will be completed in phases.

Project Milestones

Sykes Wastewater

Project complete September 2021

Service Impact

Continued availability of reclaimed water. Regulated by Department of Environmental Protection.

Start Date: 10/01/16 **End Date:** 09/30/21

Project Manager: Craig Helpling

Funded Program: 6300236

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 1,287,853	$ -	$ -	$ 3,200,000	$ -	$ -	$ -	$ 4,487,853
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 1,287,853	$ -	$ -	$ 3,200,000	$ -	$ -	$ -	$ 4,487,853

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ 82,853	$ -	$ -	$ -	$ -	$ -	$ 82,853
Construction	$ -	$ -	$ 200,000	$ 1,005,000	$ 1,000,000	$ 2,200,000	$ -	$ 4,405,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ 82,853	$ 200,000	$ 1,005,000	$ 1,000,000	$ 2,200,000	$ -	$ 4,487,853

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

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REUSE SAND FILTER REHABILITATION & AIR COMPRESSOR

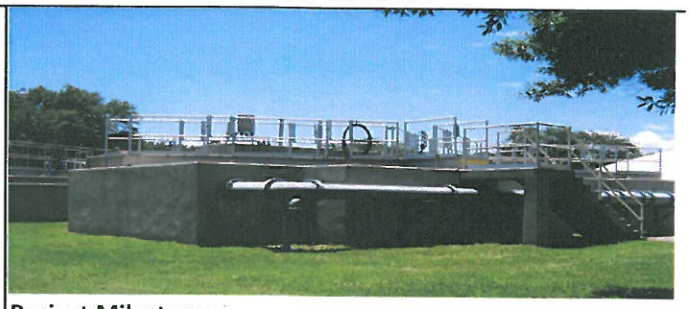
Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 1,690,000

Project Description

Retrofit all components of the reuse (2) sand filters. May be procured from state or other cooperative agreement.



Project Milestones

Sykes Wastewater

Construction complete September 2018

Service Impact

The filters were installed in 1988 and the components are obsolete and no longer available.

Start Date: 10/01/16 **End Date:** 09/30/18

Project Manager: Craig Helpling

Funded Program: 6984204

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 1,690,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,690,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 1,690,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,690,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ 1,317,992	$ 372,008	$ -	$ -	$ -	$ -	$ 1,690,000
Other	$ -	$ -		$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ 1,317,992	$ 372,008	$ -	$ -	$ -	$ -	$ 1,690,000

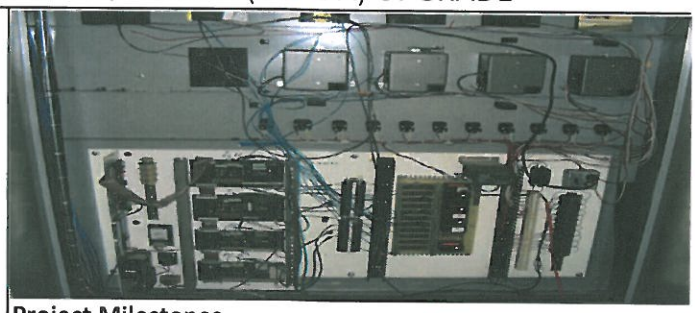
Operating Expenditures (Savings)	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA) UPGRADE

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 262,339



Project Description

Supervisory Control And Data Acquisition (SCADA) system requires upgrade to Remote Terminal Unit (RTU) hardware, fiber optics network and system engineering and software programming /integration at the Sykes Wastewater Plant. May be procured from state or other cooperative agreement.

Project Milestones

Sykes Wastewater

Project complete September 2018

Service Impact

The existing SCADA system is not capable of providing all the information required to properly monitor and operate the facility. This upgrade would bring the plant up to the current level of performance needed.

Start Date: 10/01/14 **End Date:** 09/30/18

Project Manager: Brian Sorensen

Funded Program: 6351204

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 262,339	$ -	$ -	$ -	$ -	$ -	$ -	$ 262,339
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 262,339	$ -	$ -	$ -	$ -	$ -	$ -	$ 262,339

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ 145,889	$ 16,450	$ 100,000	$ -	$ -	$ -	$ -	$ 262,339
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ 145,889	$ 16,450	$ 100,000	$ -	$ -	$ -	$ -	$ 262,339

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

SYKES CREEK INFLOW AND INFILTRATION REDUCTION

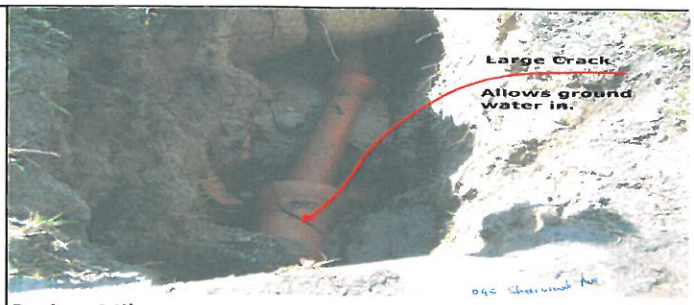
Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 3,061,299

Project Description

Relining of gravity lines and grouting of laterals in this service area. May be procured from state or other cooperative agreement.



Project Milestones

Sykes Wastewater
Ongoing Project

Service Impact

Rehabilitation reduces Inflow and Infiltration which reduces pumping expense, overflows and returns capacity to the treatment plant.

Start Date: 10/01/14 **End Date:** 09/30/21

Project Manager: Brian Sorensen

Funded Program: 6981207

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 3,061,299	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,061,299
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 3,061,299	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,061,299

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ 961,294	$ 600,005	$ 700,000	$ 300,000	$ 250,000	$ 250,000	$ -	$ 3,061,299
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ 961,294	$ 600,005	$ 700,000	$ 300,000	$ 250,000	$ 250,000	$ -	$ 3,061,299

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

SYKES CREEK PARKWAY FORCE MAIN REPLACEMENT

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 868,225

Project Description

Replacement of approximately 3500 linear feet of 14 inch diameter sewer force main on Sykes Creek Parkway. This project was identified in the Utilities Services Division Infrastructure Asset Evaluation conducted in 2013 and recommended for replacement in FY 2021. However, the pipe has failed and required emergency repair twice within the last two years and Staff recommends moving the project up to reduce future failures. May be procured from state or other cooperative agreement.

Service Impact

Replacement of force main will eliminate sewer spills due to pipe failure in this area and the potential associated impacts to Sykes Creek.

Project Milestones

Sykes Wastewater
Project complete September 2018

Start Date: 10/01/15 **End Date:** 09/30/18

Project Manager: Craig Helpling

Funded Program: 6985217

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 868,225	$ -	$ -	$ -	$ -	$ -	$ -	$ 868,225
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 868,225	$ -	$ -	$ -	$ -	$ -	$ -	$ 868,225

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ 53,125	$ 15,100	$ -	$ -	$ -	$ -	$ -	$ 68,225
Construction	$ -	$ -	$ 800,000	$ -	$ -	$ -	$ -	$ 800,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ 53,125	$ 15,100	$ 800,000	$ -	$ -	$ -	$ -	$ 868,225

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

SYKES CREEK WASTEWATER TREATMENT PLANT IMPROVEMENTS (HEADWORKS)

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 5,518,267

Project Description

Replacement of failed headworks structures and equipment, RAS/WAS Pump Station Rehabilitation and construction of Vactor Truck Dumping Bed. May be procured from state or other cooperative agreement.

Project Milestones

Sykes Wastewater
Facilities Project
Project complete September 2019

Service Impact

The headworks structure was installed in 1987 and deteriorated to the point where the building had to be demolished. This current project builds a new headworks structure using modern equipment.

Start Date: 10/01/14 **End Date:** 09/30/19

Project Manager: Craig Helpling

Funded Program: 6540203

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 5,518,267	$ -	$ -	$ -	$ -	$ -	$ -	$ 5,518,267
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 5,518,267	$ -	$ -	$ -	$ -	$ -	$ -	$ 5,518,267

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ 131,001	$ 117,266	$ -	$ -	$ -	$ -	$ -	$ 248,267
Construction	$ -	$ -	$ 5,200,000	$ 70,000	$ -	$ -	$ -	$ 5,270,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ 131,001	$ 117,266	$ 5,200,000	$ 70,000	$ -	$ -	$ -	$ 5,518,267

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

SYKES CREEK WASTEWATER TREATMENT PLANT WINDOW REPLACEMENT

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 222,000

Project Description

Replace windows in the operations building at the Sykes Creek Wastewater Treatment Plant. May be procured from state or other cooperative agreement.

Project Milestones

Sykes Wastewater
Facilities Project
Project complete September 2018

Service Impact

Facilities highly recommends that the windows in the operations building be replaced. Facilities has attempted to repair the windows but been determined replacement is necessary. The windows no longer seal, creating the possibility of mold and floors become wet creating a safety issue.

Start Date: 10/01/17 **End Date:** 09/30/18

Project Manager: Brian Sorensen

Funded Program: 514981

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 222,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 222,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 222,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 222,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ 222,000	$ -	$ -	$ -	$ -	$ 222,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ 222,000	$ -	$ -	$ -	$ -	$ 222,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

SYKES LIFT STATIONS

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 8,596,027

Project Description

Replacement or Rehabilitation of aged, detiorating lift stations C01, C12, C14, C18, V08, V10, M08, M12, M16, M18, F01, F03, and F04 in current and upcoming fiscal years or others as conditions necessitate.

Project Milestones

Sykes Wastewater

Ongoing project

Service Impact

Rehabilitation or replacement of a lift station will make it more economical and will reduce repairs and maintenance costs. It will also minimalize overflows and add safety features such as a safety grate for the wet well.

Start Date: 10/01/13 **End Date:** 09/30/22

Project Manager: Craig Helpling

Funded Program: 6300238

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 8,596,027	$ -	$ -	$ -	$ -	$ -	$ -	$ 8,596,027
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 8,596,027	$ -	$ -	$ -	$ -	$ -	$ -	$ 8,596,027

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ 57,171	$ 513,000	$ 572,000	$ 392,000	$ 110,000	$ -	$ 1,644,171
Construction	$ -	$ 285,856	$ 662,000	$ 3,102,000	$ 1,942,000	$ 600,000	$ 360,000	$ 6,951,856
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ 343,027	$ 1,175,000	$ 3,674,000	$ 2,334,000	$ 710,000	$ 360,000	$ 8,596,027

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

WEST COCOA SEWER IMPROVEMENTS

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 10,750,041

Project Description

Replace certain lift stations and rehabilitate others to bring them into a standard condition. Upgrade pumps in certain lift stations to manage the pressures in the existing force mains. Remove and replace asbestos cement force mains with PVC or HDPE. Replace gravity sewers where necessary to provide sufficient slopes. May be procured from state or other cooperative agreement.

Project Milestones

West Cocoa Wastewater
Project complete September 2021
Pursue State Revolving Fund (SRF) loan or grant to finance construction.

Service Impact

Many of the lift stations are sub-standard in that they are merely manholes with pumps in them. There is a history of high maintenance and sewage overflows. Asbestos cement force mains are brittle and prone to break. Pumping rates should be standardized to allow the various pumping stations to operate as a system to increase efficiency and limit overflows.

Start Date: 05/01/16 **End Date:** 09/30/21

Project Manager: Craig Helpling

Funded Program: 6300127

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 750,041	$ -	$ -	$ -	$ -	$ -	$ -	$ 750,041
Other Financing Sources	$ -	$ -	$ 10,000,000	$ -	$ -	$ -	$ -	$ 10,000,000
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 750,041	$ -	$ 10,000,000	$ -	$ -	$ -	$ -	$ 10,750,041

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ 50,041	$ 700,000	$ -	$ -	$ -	$ -	$ 750,041
Construction	$ -	$ -	$ -	$ 2,000,000	$ 2,700,000	$ 5,300,000	$ -	$ 10,000,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ 50,041	$ 700,000	$ 2,000,000	$ 2,700,000	$ 5,300,000	$ -	$ 10,750,041

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

CONSTRUCT 300,000-GALLON WATER STORAGE TANK AND DEMOLISH EXISTING TANK

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 680,000

Project Description

Construct a 300,000-gallon water storage tank on the site of the Barefoot Bay Water Treatment Plant to replace the existing tank.

Project Milestones

Barefoot Bay Water

Project complete September 2018

Service Impact

The existing water storage tank has corroded to the point of failure. Rehabilitation of the existing tank is not a reliable option due to the unknown strength of the tank sidewalls. The cost of investigation and rehabilitation rivals that of replacement.

Start Date: 10/01/16 **End Date:** 09/30/18

Project Manager: Craig Helpling

Funded Program: 6984314

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 680,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 680,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 680,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 680,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ 80,000	$ -	$ -	$ -	$ -	$ -	$ 80,000
Construction	$ -	$ -	$ 600,000	$ -	$ -	$ -	$ -	$ 600,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ 80,000	$ 600,000	$ -	$ -	$ -	$ -	$ 680,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

BAREFOOT BAY INFLOW & INFILTRATION REDUCTION

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 1,005,000

Project Description

Relining of gravity lines and grouting service laterals.

Project Milestones

Barefoot Bay Wastewater
Ongoing Project

Service Impact

Rehabilitation reduces inflow and infiltration which reduces pumping expense, overflows and returns capacity to the plant.

Start Date: 10/01/17 **End Date:** 09/30/27

Project Manager: Brian Sorensen

Funded Program: 6981308

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ 105,000	$ 100,000	$ 100,000	$ 100,000	$ 600,000	$ 1,005,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ 105,000	$ 100,000	$ 100,000	$ 100,000	$ 600,000	$ 1,005,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ 105,000	$ 100,000	$ 100,000	$ 100,000	$ 600,000	$ 1,005,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ 105,000	$ 100,000	$ 100,000	$ 100,000	$ 600,000	$ 1,005,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

LIFT STATION X15 REHABILITATION

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 100,000

Project Description
Rehabilitation of lift station X15.

Project Milestones
Barefoot Bay Wastewater
Project complete September 2019

Service Impact
Lift station X15 was installed in 1997 and is in need of rehabilitation.

Start Date: **End Date:** 09/30/19

Project Manager: Craig Helpling

Funded Program: 6982305

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 100,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 100,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 100,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 100,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ 100,000	$ -	$ -	$ -	$ -	$ 100,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ 100,000	$ -	$ -	$ -	$ -	$ 100,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

MODIFY AIR PIPING AND RELOCATE BLOWERS

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 725,000

Project Description

Relocate blowers out of air-conditioned space and replace air pipeline with above-ground stainless steel

Project Milestones

Barefoot Bay Wastewater

Project complete September 2019

Service Impact

Blowers generate a lot of heat and should not be enclosed within air conditioned spaces. The air piping is underground and the gaskets have deteriorated causing air leaks. The deterioration of this system has resulted in high energy costs.

Start Date: 10/01/16 **End Date:** 09/30/19

Project Manager: Craig Helpling

Funded Program: 6540311

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 725,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 725,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 725,000	$ -	$ -	$ -	$ -	$ -	$ -	$ 725,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ 75,000	$ 25,000	$ -	$ -	$ -	$ -	$ 100,000
Construction	$ -	$ -	$ 575,000	$ 50,000	$ -	$ -	$ -	$ 625,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ 75,000	$ 600,000	$ 50,000	$ -	$ -	$ -	$ 725,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

REDUNDANT MOTOR CONTROL CENTER (MCC) FOR CLASS 1 RELIABILITY

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 675,000

Project Description

Install a second Motor Control Center (MCC) to feed half of the equipment at the Mims water plant for Class 1 reliability. May be procured from state or other cooperative agreement.

Project Milestones

Mims Water

Project complete September 2022

Service Impact

There is one main motor control center (MCC) controlling the entire Mims water treatment plant. If this MCC were to fail or be damaged the plant would be out of service. This second MCC will feed half of the plant equipment as a backup.

Start Date: 10/01/19 **End Date:** 09/30/22

Project Manager: Craig Helpling

Funded Program: 6540104

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ -	$ 675,000	$ -	$ -	$ -	$ 675,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ -	$ 675,000	$ -	$ -	$ -	$ 675,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ 67,500	$ -	$ -	$ 67,500
Construction	$ -	$ -	$ -	$ -	$ -	$ 382,500	$ 225,000	$ 607,500
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ -	$ -	$ 67,500	$ 382,500	$ 225,000	$ 675,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

EFFLUENT TRANSFER PUMPING SYSTEM IMPROVEMENTS

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 147,000

Project Description

Replace the effluent transfer pump system. May be procured from state or other cooperative agreement.

Project Milestones

North Brevard Wastewater
Project complete September 2020

Service Impact

Ensure continuity of plant operations, improve efficiency, maintain Florida Department of Environmental Protection (FDEP) Permit compliance.

Start Date: 10/01/19 **End Date:** 09/30/20

Project Manager: Craig Helpling

Funded Program: 6540113

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ -	$ 147,000	$ -	$ -	$ -	$ 147,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ -	$ 147,000	$ -	$ -	$ -	$ 147,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ -	$ -	$ 147,000	$ -	$ -	$ 147,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ -	$ -	$ 147,000	$ -	$ -	$ 147,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

DISINFECTION SYSTEM IMPROVEMENTS

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 170,000

Project Description

Replace disinfection system components at the North Brevard Wastewater Treatment Plant. May be procured from state or other cooperative agreement.

Project Milestones

North Brevard Wastewater
Project complete September 2020

Service Impact

Replace disinfection system components that have been in service since 1986.

Start Date: 10/01/19 **End Date:** 09/30/20

Project Manager: Craig Helpling

Funded Program: 6540109

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ -	$ 170,000	$ -	$ -	$ -	$ 170,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ -	$ 170,000	$ -	$ -	$ -	$ 170,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ -	$ -	$ 170,000	$ -	$ -	$ 170,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ -	$ -	$ 170,000	$ -	$ -	$ 170,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

RECLAIMED WATER PUMPING SYSTEM IMPROVEMENTS

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 131,000

Project Description

Add a second 100-horsepower reclaimed water pump and inverter duty motor for variable frequency drive. May be procured from state or other cooperative agreement.

Project Milestones

North Brevard Wastewater

Project complete September 2020

Service Impact

A second reclaimed water pump is necessary as a redundant backup for the reclaimed water system.

Start Date: 10/01/19 **End Date:** 09/30/20

Project Manager: Craig Helpling

Funded Program: 6984107

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ -	$ 131,000	$ -	$ -	$ -	$ 131,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ -	$ 131,000	$ -	$ -	$ -	$ 131,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ -	$ -	$ 131,000	$ -	$ -	$ 131,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ -	$ -	$ 131,000	$ -	$ -	$ 131,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

FILTRATION SYSTEM EVALUATION, IMPROVEMENT, AND PROCESS CONTROL

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 291,000

Project Description

Replace existing filter control panel and control valves. May be procured from state or other cooperative agreement.

Project Milestones

North Brevard Wastewater
Project complete September 2022

Service Impact

The existing system was installed in 1986 and has reached the end of its useful life. Replacement parts are no longer available and newer filtration system would provide increased reliability and efficiency.

Start Date: 10/01/20 **End Date:** 09/30/22

Project Manager: Craig Helpling

Funded Program: 6540108

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ -	$ -	$ 291,000	$ -	$ -	$ 291,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ -	$ -	$ 291,000	$ -	$ -	$ 291,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ 38,000	$ -	$ 38,000
Construction	$ -	$ -	$ -	$ -	$ -	$ -	$ 253,000	$ 253,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ -	$ -	$ -	$ 38,000	$ 253,000	$ 291,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

GRIT WASHER AND CONVEYOR REPLACEMENT

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 100,000

Project Description

Replace grit washer with grit removal equipment at the South Beach Wastewater Treatment Plant. May be procured from state or other cooperative agreement.

Project Milestones

South Beach Wastewater
Project complete September 2020

Service Impact

The existing grit system is a old, pieced together system that is not efficient in removing grit. The replacement system would be much more efficient and effective.

Start Date: 10/01/18 **End Date:** 09/30/20

Project Manager: Craig Helpling

Funded Program: 6540309

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ -	$ 100,000	$ -	$ -	$ -	$ 100,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ -	$ 100,000	$ -	$ -	$ -	$ 100,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ -	$ -	$ 100,000	$ -	$ -	$ 100,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ -	$ -	$ 100,000	$ -	$ -	$ 100,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

MANUAL BAR SCREEN REPLACEMENT

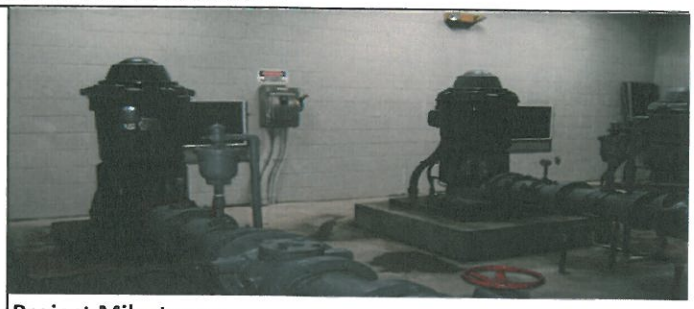
Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 50,000

Project Description

Replace manual bar screen. May be procured from state or other cooperative agreement.



Project Milestones

South Beach Wastewater
Project complete September 2019

Service Impact

The manual bar screen is used to screen the influent when the mechanical bar screen is out-of-service for maintenance.

Start Date: 10/01/18 **End Date:** 09/30/19

Project Manager: Brian Sorensen

Funded Program: 513875

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ 50,000	$ -	$ -	$ -	$ -	$ 50,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ 50,000	$ -	$ -	$ -	$ -	$ 50,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ -	$ 50,000	$ -	$ -	$ -	$ 50,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ -	$ 50,000	$ -	$ -	$ -	$ 50,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

CHLORINE CONTACT CHAMBER

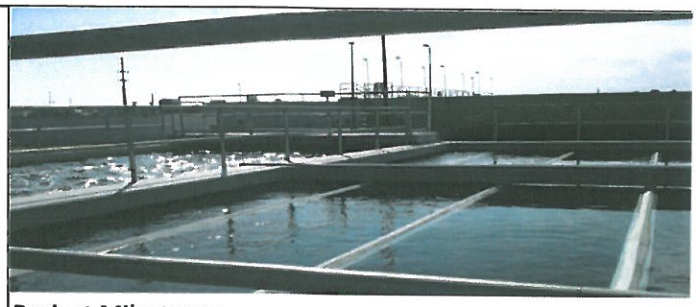
Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 1,000,000

Project Description

Build another chlorine contact chamber for disinfection for reclaimed water. May be procured from state or other cooperative agreement.



Project Milestones

South Beach Wastewater
Project complete September 2020

Service Impact

To provide redundant disinfection chambers to maintain reclaimed production during high flow situations.

Start Date: 10/01/19 **End Date:** 09/30/20

Project Manager: Craig Helpling

Funded Program: 6984312

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ -	$ 1,000,000	$ -	$ -	$ -	$ 1,000,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ -	$ 1,000,000	$ -	$ -	$ -	$ 1,000,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ -	$ -	$ 1,000,000	$ -	$ -	$ 1,000,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ -	$ -	$ 1,000,000	$ -	$ -	$ 1,000,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

CLARIFIER REHABILITATION (6 MGD PROCESS TRAIN. 100 FT)

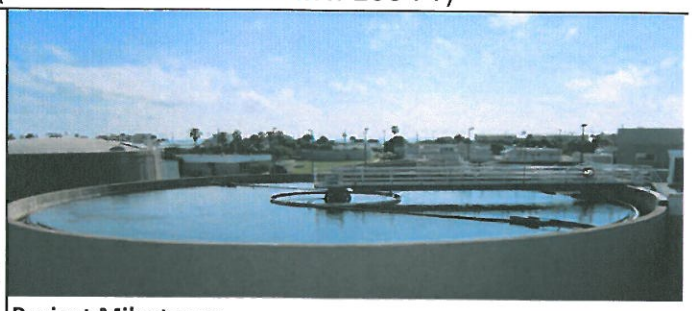
Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 700,000

Project Description

Rehabilitation of clarifier, including replacing drive motor and gear, stilling well replacement, sandblast and coat submerged mechanism, and coat interior concrete. May be procured from state or other cooperative agreement.



Project Milestones

South Beach Wastewater
Project complete September 2020

Service Impact

Clarifier is in need of refurbishment to retain its structural integrity.

Start Date: 10/01/19 **End Date:** 09/30/20

Project Manager: Brian Sorensen

Funded Program: 6984310

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ -	$ 700,000	$ -	$ -	$ -	$ 700,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ -	$ 700,000	$ -	$ -	$ -	$ 700,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ -	$ -	$ 700,000	$ -	$ -	$ 700,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ -	$ -	$ 700,000	$ -	$ -	$ 700,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

RECLAIMED WATER GROUND STORAGE TANK

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 1,000,000

Project Description

Construct a 2 million gallon (MG) ground storage tank for the reclaimed water (reuse) system. May be procured from state or other cooperative agreement.

Project Milestones

South Beach Wastewater
Project complete September 2020

Service Impact

Additional storage capacity will increase reuse distribution reliability and capacity.

Start Date: 10/01/19 **End Date:** 09/30/20

Project Manager: Craig Helpling

Funded Program: 6984311

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ -	$ 1,000,000	$ -	$ -	$ -	$ 1,000,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ -	$ 1,000,000	$ -	$ -	$ -	$ 1,000,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ -	$ -	$ 1,000,000	$ -	$ -	$ 1,000,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ -	$ -	$ 1,000,000	$ -	$ -	$ 1,000,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

DEEP WELL STRUCTURE REHABILITATION

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 100,000

Project Description

Rehabilitate the deep well structure. May be procured from state or other cooperative agreement.

Project Milestones

South Beach Wastewater
Project complete September 2021

Service Impact

The deep well building is in need of rehabilitation to retain its structural integrity.

Start Date: 10/01/20 **End Date:** 09/30/21

Project Manager: Brian Sorensen

Funded Program: 6520304

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ -	$ -	$ 100,000	$ -	$ -	$ 100,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ -	$ -	$ 100,000	$ -	$ -	$ 100,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ -	$ -	$ -	$ 100,000	$ -	$ 100,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ -	$ -	$ -	$ 100,000	$ -	$ 100,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

BELT PRESS REHABILITATION

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 600,000

Project Description

Replacement of all major operating components of two presses. Work will include replacement of rollers, bearings, belts and electrical control system. May be procured from state or other cooperative agreement.

Project Milestones

South Central Wastewater
Project complete September 2019

Service Impact

Extend the useful life of the presses to ensure uninterrupted operation of sludge dewatering system.

Start Date: 10/01/17 **End Date:** 09/30/19

Project Manager: Brian Sorensen

Funded Program: 6540413

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ 600,000	$ -	$ -	$ -	$ -	$ 600,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ 600,000	$ -	$ -	$ -	$ -	$ 600,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ -	$ 600,000	$ -	$ -	$ -	$ 600,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ -	$ 600,000	$ -	$ -	$ -	$ 600,000

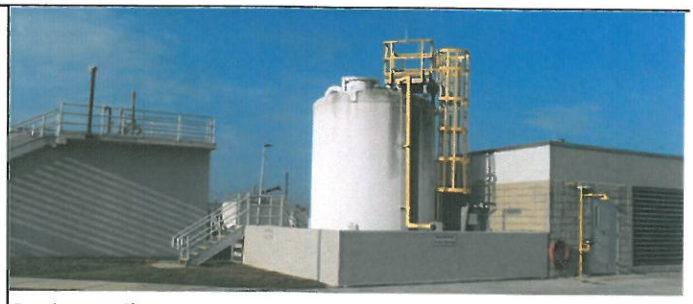
Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

ALUM TANK REPLACEMENT

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 150,000



Project Description

Replace existing Aluminum Sulfate (Alum) storage tank originally installed in 1998. The tank is Fiberglass Reinforced Plastic (FRP) and is nearing the end of its useful life. May be procured from state or other cooperative agreement.

Project Milestones

South Central Wastewater
Project complete September 2020

Service Impact

New tank will provide continued service to facility in order to maintain uninterrupted service.

Start Date: 10/01/17 **End Date:** 09/30/20

Project Manager: Brian Sorensen

Funded Program: 6540411

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ -	$ 150,000	$ -	$ -	$ -	$ 150,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ -	$ 150,000	$ -	$ -	$ -	$ 150,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ -	$ -	$ 150,000	$ -	$ -	$ 150,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ -	$ -	$ 150,000	$ -	$ -	$ 150,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

CHLORINE TANK AND PUMPS SYSTEM REHABILITATION

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 380,000

Project Description

Replace two (2) existing storage tanks originally installed in 2005/2006. Replace chlorine pump system installed in 2012. May be procured from state or other cooperative agreement.

Project Milestones

South Central Wastewater
Project complete September 2021

Service Impact

Ensure continuity of plant operation to avoid down time and to maintain Florida Department of Environmental Protection (FDEP) permit compliance.

Start Date: 10/01/20 **End Date:** 09/30/21

Project Manager: Craig Helpling

Funded Program: 6540410

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ -	$ 380,000	$ -	$ -	$ -	$ 380,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ -	$ 380,000	$ -	$ -	$ -	$ 380,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ 80,000	$ -	$ -	$ 80,000
Construction	$ -	$ -	$ -	$ -	$ -	$ 300,000	$ -	$ 300,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ -	$ -	$ 80,000	$ 300,000	$ -	$ 380,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

OXIDATION DITCHES WALKWAY EXTENSION

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 280,000

Project Description

Extend oxidation ditch walkways and relocation of oxygen sensors. May be procured from state or other cooperative agreement.

Project Milestones

South Central Wastewater
Project complete September 2021

Service Impact

Relocate oxygen sensors in oxidation ditches and extend walkways to access oxygen sensors to provide more accurate data for improved operational control.

Start Date: 10/01/19 **End Date:** 09/30/21

Project Manager: Craig Helpling

Funded Program: 6540408

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ -	$ 280,000	$ -	$ -	$ -	$ 280,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ -	$ 280,000	$ -	$ -	$ -	$ 280,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ 80,000	$ -	$ -	$ 80,000
Construction	$ -	$ -	$ -	$ -	$ -	$ 200,000	$ -	$ 200,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ -	$ -	$ 80,000	$ 200,000	$ -	$ 280,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

PAVE PLANT ROADWAYS

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 70,000

Project Description

Rehabilitate plant roadways and pave dirt roadways. May be procured from state or other cooperative agreement.

Project Milestones

South Central Wastewater
Project complete September 2021

Service Impact

This project will pave the roadways within the treatment plant. There are dirt roads within the plant site which need to be paved and the existing paved roadways need to be rehabilitated.

Start Date: 10/01/19 **End Date:** 09/30/21

Project Manager: Craig Helpling

Funded Program: 6570407

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ -	$ 70,000	$ -	$ -	$ -	$ 70,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ -	$ 70,000	$ -	$ -	$ -	$ 70,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ 14,000	$ -	$ -	$ 14,000
Construction	$ -	$ -	$ -	$ -	$ 36,000	$ 20,000	$ -	$ 56,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ -	$ -	$ 50,000	$ 20,000	$ -	$ 70,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

REPLACE RAS AND WAS CONTROLS

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 350,000

Project Description

Replace current electrical Motor Control System (MCC) in order to modernize system. Includes replacement of Variable Frequency Drivee (VFD). Existing VFD's are out of production and parts are difficult to find. May be procured from state or other cooperative agreement.

Project Milestones

South Central Wastewater
Project complete September 2020

Service Impact

Modernize system to latest technology and ensure availability of replacement parts and components.

Start Date: 10/01/19 **End Date:** 09/30/20

Project Manager: Craig Helpling

Funded Program: 6540414

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ -	$ 350,000	$ -	$ -	$ -	$ 350,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ -	$ 350,000	$ -	$ -	$ -	$ 350,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ -	$ -	$ 350,000	$ -	$ -	$ 350,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ -	$ -	$ 350,000	$ -	$ -	$ 350,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

REPLACE RAS AND WAS PUMPS

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 300,000

Project Description

Replace return activated sludge (RAS) pumps and waste activated sludge (WAS) pumps. May be procured from state or other cooperative agreement.

Project Milestones

South Central Wastewater
Project complete September 2020

Service Impact

Existing RAS and WAS pumps will be reaching the end of their useful life.

Start Date: 10/01/19 **End Date:** 09/30/20

Project Manager: Craig Helpling

Funded Program: 6572401

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ -	$ 300,000	$ -	$ -	$ -	$ 300,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ -	$ 300,000	$ -	$ -	$ -	$ 300,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ -	$ -	$ 300,000	$ -	$ -	$ 300,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ -	$ -	$ 300,000	$ -	$ -	$ 300,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

WASTEWATER TREATMENT PLANT BLOWER REPLACEMENT

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 475,000

Project Description

Replace centrifugal blowers with high efficiency turbo blowers. May be procured from state or other cooperative agreement.

Project Milestones

South Central Wastewater
Project complete September 2022

Service Impact

Reduced maintenance requirements and lower electrical power costs.

Start Date: 10/01/20 **End Date:** 09/30/22

Project Manager: Craig Helpling

Funded Program: 514408

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ -	$ -	$ 475,000	$ -	$ -	$ 475,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ -	$ -	$ 475,000	$ -	$ -	$ 475,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ 75,000	$ -	$ 75,000
Construction	$ -	$ -	$ -	$ -	$ -	$ -	$ 400,000	$ 400,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ -	$ -	$ -	$ 75,000	$ 400,000	$ 475,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

FORCE MAIN C07 ON SKYLINE BLVD. REPLACEMENT

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 116,000

Project Description

Remove and replace approx. 1665 LF of 6" AC FM along Skyline Blvd. May be procured from state or other cooperative agreement.

Project Milestones

Sykes Wastewater

Project complete September 2020

Service Impact

This force main has reached the end of its useful life and is in need of replacement. It is constructed of asbestos cement pipe which is an older material that is no longer used. This material becomes fragile, subject to leaks and is difficult and dangerous to repair.

Start Date: 10/01/18 **End Date:** 09/30/20

Project Manager: Craig Helpling

Funded Program: 6985212

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ 116,000	$ -	$ -	$ -	$ -	$ 116,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ 116,000	$ -	$ -	$ -	$ -	$ 116,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ 39,000	$ -	$ -	$ -	$ 39,000
Construction	$ -	$ -	$ -	$ -	$ 77,000	$ -	$ -	$ 77,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ -	$ 39,000	$ 77,000	$ -	$ -	$ 116,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

FORCE MAIN M11 ON MERRITT AVENUE REPLACEMENT

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 135,000

Project Description

Remove and replace approx. 1000 linear feet of 8" asbestos cement force main along E. Merritt Ave. May be procured from state or other cooperative agreement.

Project Milestones

Sykes Wastewater

Project Complete - September 2020

Service Impact

The existing asbestos cement force main is brittle and has a history of breaking.

Start Date: 10/01/19 **End Date:** 09/30/20

Project Manager: Craig Helpling

Funded Program: 6985208

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ -	$ 135,000	$ -	$ -	$ -	$ 135,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ -	$ 135,000	$ -	$ -	$ -	$ 135,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ -	$ -	$ 135,000	$ -	$ -	$ 135,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ -	$ -	$ 135,000	$ -	$ -	$ 135,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

SLUDGE DEWATERING SYSTEM IMPROVEMENTS

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 1,131,000

Project Description

Add a second centrifuge and rehabilitate the dewatering structure. May be procured from state or other cooperative agreement.

Project Milestones

Sykes Wastewater

Project complete September 2020

Service Impact

There is currently one centrifuge on site and this would install another as backup so one can be taken out of serve for maintenance or repair. The building needs rehabilitation also.

Start Date: 10/01/19 **End Date:** 09/30/20

Project Manager: Craig Helpling

Funded Program: 6520203

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ -	$ 1,131,000	$ -	$ -	$ -	$ 1,131,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ -	$ 1,131,000	$ -	$ -	$ -	$ 1,131,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ 131,000	$ -	$ -	$ 131,000
Construction	$ -	$ -	$ -	$ -	$ 1,000,000	$ -	$ -	$ 1,000,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ -	$ -	$ 1,131,000	$ -	$ -	$ 1,131,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

FORCE MAIN C08 REPLACEMENT

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 360,000

Project Description

Remove and replace approx. 3500 LF of 6" AC FM in the back yards along the west side of Sykes Creek Dr. May be procured from state or other cooperative agreement.

Project Milestones

Sykes Wastewater

Project complete September 2022

Service Impact

The existing asbestos cement force main is brittle and has a history of breaking.

Start Date: 10/01/20 **End Date:** 09/30/22

Project Manager: Craig Helpling

Funded Program: 6985209

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ -	$ -	$ 360,000	$ -	$ -	$ 360,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ -	$ -	$ 360,000	$ -	$ -	$ 360,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ 60,000	$ -	$ 60,000
Construction	$ -	$ -	$ -	$ -	$ -	$ -	$ 300,000	$ 300,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ -	$ -	$ -	$ 60,000	$ 300,000	$ 360,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

INSTALL SOFT STARTERS ON BFB BOOSTER PUMPS

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 677,010

Project Description

These pumps are located at the Barefoot Bay wastewater plant but are for the Barefoot Bay water plant distribution system.

Project Milestones

Barefoot Bay Water

Project complete September 2020

Service Impact

This will improve plant operations, pump efficiency and maintenance costs.

Start Date: 10/01/18 **End Date:** 09/30/20

Project Manager: Craig Helpling

Funded Program: 513869

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ 677,010	$ -	$ -	$ -	$ -	$ 677,010
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ 677,010	$ -	$ -	$ -	$ -	$ 677,010

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ 60,000	$ -	$ -	$ -	$ 60,000
Construction	$ -	$ -	$ -	$ -	$ 617,010	$ -	$ -	$ 617,010
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ -	$ 60,000	$ 617,010	$ -	$ -	$ 677,010

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

REPLACE BOOSTER PIPE & VALVES

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 43,900

Project Description

Replacing the booster piping and valves at the booster station for Barefoot Bay Water and is located at the Barefoot Bay Wastewater plant.

Project Milestones

Barefoot Bay Water

Project complete September 2019

Service Impact

This will greatly improve efficiency. Pumps and motors are obsolete and difficult to find replacement parts.

Start Date: 10/01/18 **End Date:** 09/30/19

Project Manager: Brian Sorensen

Funded Program:

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ 43,900	$ -	$ -	$ -	$ -	$ 43,900
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ 43,900	$ -	$ -	$ -	$ -	$ 43,900

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ -	$ 43,900	$ -	$ -	$ -	$ 43,900
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ -	$ 43,900	$ -	$ -	$ -	$ 43,900

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

BOOSTER STATION CHLORINE PUMPS

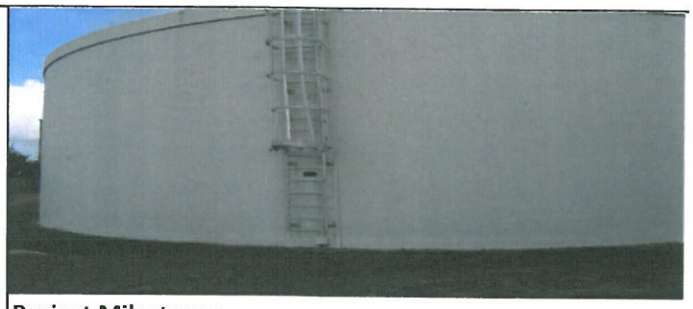
Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 150,000

Project Description

Place new chlorine pumps at the Barefoot Bay booster station. These pumps are located at the Barefoot Bay wastewater plant, but are for the Barefoot Bay water distribution system.



Project Milestones

Barefoot Bay Water

Project complete September 2022

Service Impact

This will help resolve chlorine residual problems further into the distribution system and keep the water plant in compliance with Department of Environmental Protection regulations and increase storage capacity.

Start Date: 10/01/19 **End Date:** 09/30/22

Project Manager: Craig Helpling

Funded Program: 513868

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ -	$ -	$ 150,000	$ -	$ -	$ 150,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ -	$ -	$ 150,000	$ -	$ -	$ 150,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ -	$ -	$ -	$ 75,000	$ 75,000	$ 150,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ -	$ -	$ -	$ 75,000	$ 75,000	$ 150,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

BFB ALUM TANK PERMANENT CONTAINMENT / CANOPY

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 154,600

Project Description

Construct a permanent containment structure and canopy for the Barefoot Bay Water bulk alum storage tank.

Project Milestones

Barefoot Bay Water

Project complete September 2022

Service Impact

Extend the life of the tank, avoid evaporation, and overflow.

Start Date: 10/01/20 **End Date:** 09/30/22

Project Manager: Craig Helpling

Funded Program:

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ -	$ 154,600	$ -	$ -	$ -	$ 154,600
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ -	$ 154,600	$ -	$ -	$ -	$ 154,600

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ 25,000	$ -	$ 25,000
Construction	$ -	$ -	$ -	$ -	$ -	$ -	$ 129,600	$ 129,600
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ -	$ -	$ -	$ 25,000	$ 129,600	$ 154,600

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

INSTALL CARBON DIOXIDE BULK TANK

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 465,211

Project Description

The treatment plant uses several 400 liter tanks to supply carbon dioxide gas for use within the treatment process to lower the pH level following the lime softening process. The plant desires to install a bulk carbon dioxide tank to replace the multiple carbon dioxide small tanks currently on site.

Service Impact

It is expected the use of the bulk tank will reduce the carbon dioxide chemical costs for the facility and will decrease the number of truck deliveries to the plant.

Project Milestones

Barefoot Bay Water

Project complete September 2023

Start Date: 10/01/21 **End Date:** 09/30/23

Project Manager: Craig Helpling

Funded Program:

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ -	$ -	$ 465,211	$ -	$ -	$ 465,211
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ -	$ -	$ 465,211	$ -	$ -	$ 465,211

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ 46,521	$ -	$ 46,521
Construction	$ -	$ -	$ -	$ -	$ -	$ -	$ 418,690	$ 418,690
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ -	$ -	$ -	$ 46,521	$ 418,690	$ 465,211

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

REPLACE SAND FILTERS MEDIA

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 138,000

Project Description

Replacing media in the Sand Filters to improve wastewater process and keep the plant in compliance with Department of Environmental Protection regulations.

Project Milestones

Barefoot Bay Wastewater
Project complete September 2019

Service Impact

This will greatly improve the plant process and will keep plant in compliance with Department of Environmental Protection regulations.

Start Date: 10/01/18 **End Date:** 09/30/19

Project Manager: Brian Sorensen

Funded Program:

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ 138,000	$ -	$ -	$ -	$ -	$ 138,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ 138,000	$ -	$ -	$ -	$ -	$ 138,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ -	$ 138,000	$ -	$ -	$ -	$ 138,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ -	$ 138,000	$ -	$ -	$ -	$ 138,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

SNUG HARBOR SCADA IMPROVEMENTS

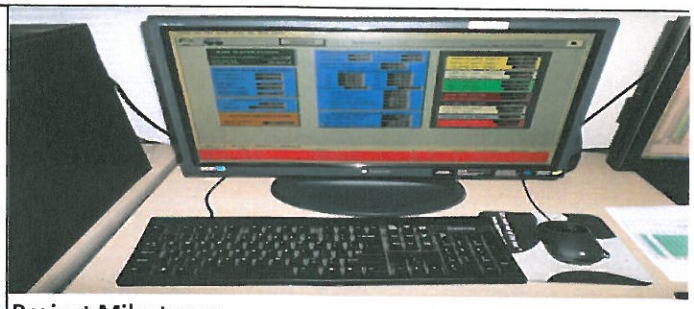
Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 45,000

Project Description

Snug Harbor SCADA improvement project will add SCADA to those lift stations without monitoring and update old, obsolete systems.



Project Milestones

Barefoot Bay Wastewater
Project complete September 2019

Service Impact

This will save money and time. Employees will not have to travel out to each site every day. This will also monitor stations 24/7 for any issues.

Start Date: 10/01/18 **End Date:** 09/30/19

Project Manager: Brian Sorensen

Funded Program:

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ 45,000	$ -	$ -	$ -	$ -	$ 45,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ 45,000	$ -	$ -	$ -	$ -	$ 45,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ -	$ 45,000	$ -	$ -	$ -	$ 45,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ -	$ 45,000	$ -	$ -	$ -	$ 45,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

RECOAT COMPONENTS OF WEST TREATMENT UNIT

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 100,000

Project Description

Recoat all components of the treatment plant.

Project Milestones

Barefoot Bay Wastewater

Project complete September 2020

Service Impact

This will preserve the plant for many years and help keep; the plant in compliance with Department of Environmental Protection regulations

Start Date: 10/01/19 **End Date:** 09/30/20

Project Manager: Brian Sorensen

Funded Program:

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ -	$ 100,000	$ -	$ -	$ -	$ 100,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ -	$ 100,000	$ -	$ -	$ -	$ 100,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ -	$ -	$ 100,000	$ -	$ -	$ 100,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ -	$ -	$ 100,000	$ -	$ -	$ 100,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

INSTALL FAN PRESS FOR SLUDGE DEWATERING

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 300,000

Project Description

Install a sludge fan press at the wastewater treatment plant. May be procured from state or other cooperative agreement.

Project Milestones

Barefoot Bay Wastewater
Project complete September 2021

Service Impact

A fan press is the most efficient method for dewatering sludge.

Start Date: 10/01/20 **End Date:** 09/30/21

Project Manager: Craig Helpling

Funded Program: 6540310

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ -	$ -	$ 300,000	$ -	$ -	$ 300,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ -	$ -	$ 300,000	$ -	$ -	$ 300,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ -	$ -	$ -	$ 300,000	$ -	$ 300,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ -	$ -	$ -	$ 300,000	$ -	$ 300,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

STORAGE BUILDING

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 100,000

Project Description

New building at Barefoot Bay Wastewater Treatment Plant for storage of maintenance supplies and equipment. May be procured from state or other cooperative agreement.

Project Milestones

Barefoot Bay Wastewater
Project complete September 2021

Service Impact

Provide covered storage of equipment currently stored outside. Covered storage will extend the life of equipment.

Start Date: 10/01/20 **End Date:** 09/30/21

Project Manager: Brian Sorensen

Funded Program: 6501309

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ -	$ -	$ -	$ -	$ 100,000	$ -	$ -	$ 100,000
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ -	$ -	$ -	$ -	$ 100,000	$ -	$ -	$ 100,000

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Construction	$ -	$ -	$ -	$ -	$ -	$ 100,000	$ -	$ 100,000
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ -	$ -	$ -	$ -	$ -	$ 100,000	$ -	$ 100,000

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -

WASTEWATER TREATMENT PLANT IMPROVEMENTS

Department: Utility Services Department

Program: Water/Wastewater

Project Total: $ 95,255

Project Description

Improvements include replace media in sand filters, upgrade of the internal recycle pumps, replace operations building roof, upgrade effluent transfer pump, evaluate sludge dewatering effectiveness, replace filter piping, install roof over sodium hypochlorite chemical tanks. May be procured from state or other cooperative agreement.

Service Impact

Replace or upgrade existing plant systems to improve operability, improve efficiency, and reduce operating and maintenance costs. Without these improvements plant operations will suffer due to reduced efficiency and higher maintenance costs.

Project Milestones

Barefoot Bay Wastewater

Project complete September 2021

Start Date: 10/01/15 **End Date:** 09/30/21

Project Manager: Craig Helpling

Funded Program: 513908

Projected Revenue	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Revenue
Charges for Services	$ 10,028	$ -	$ -	$ -	$ 85,227	$ -	$ -	$ 95,255
Permit/Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Bond/Referendum	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Grant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loans	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Revenue	$ 10,028	$ -	$ -	$ -	$ 85,227	$ -	$ -	$ 95,255

Projected Expenses	All Prior Fiscal Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Costs
Land	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Planning/Design	$ 10,028	$ -	$ -	$ -	$ -	$ -	$ -	$ 10,028
Construction	$ -	$ -	$ -	$ -	$ -	$ 85,227	$ -	$ 85,227
Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Expense	$ 10,028	$ -	$ -	$ -	$ -	$ 85,227	$ -	$ 95,255

Operating Expenditures (Savings)	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22 & Future	Total Impact
Personnel	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operating	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Impact	$ -	$ -	$ -	$ -	$ -	$ -	$ -