

MANATEE COUNTY GOVERNMENT

Capital Improvement Plan

FY2026 - FY2030

Category: Potable Water **Subcategory:** Potable Water Treatment
Project Title: Buffalo Creek Reverse Osmosis Water Treatment Plant
Department: Public Works Projects
Project Mgr: Paul Haas
Infra. Sales Tax: -
Project #: PJ6114070 **Status:** Existing



Comprehensive Plan Information

CIE Project: Yes
 LOS/Concurrency: Yes **Project Need:** Growth

Project Location

District 1 8450 69th St E., Palmetto

Description and Scope

This project is to design and construct a 5 million gallon per day (MGD) reverse osmosis water treatment plant (RO WTP) that will be expandable to 8 MGD. Also included are the associated wellfield, and concentrate disposal system at the Buffalo Creek site. The plant will treat brackish groundwater supplied by a combination of Upper Floridan and Intermediate aquifer wells. Concentrate disposal system to consist of concentrate pump station and piping to connect to Injection Well IW-2, which is located at the North Regional Water Reclamation Facility (NRWRF). Project includes preliminary design, test well drilling, pilot testing, final design, permitting, and construction. Final design activities will include the design for 5 MGD as well for the future expansion to 8 MGD.

Rationale

The Buffalo Creek RO WTP has long represented an important future water supply project for the County to meet growth needs. It was originally conceived nearly two decades ago and is included on the County's consolidated water use permit issued in 2012. Current demand projections indicate the need for this additional supply by 2030 with the plant built to 5 MGD. Early preliminary design phase will allow for submission to the Southwest Florida Water Management District (SWFWMD) for consideration for cooperative funding. Test well and pilot testing is necessary to confirm water quality conditions and inform final design.

Schedule of Activities				Annual Operating Budget Impacts					Funding Strategy	
Activity	Start	End	Amount	Category	Fiscal Year	Amount				
Design:	10/22	03/28	17,729,000	Personal:	-	-			Water Facility Investment Fees (FIFs), Debt - Rates	
Land:	-	-	-	Non-Personal:	-	-				
Construction:	10/23	03/31	157,197,000	Operating Capital:	-	-				
Equipment:	-	-	-	Operating Total:	-	-				
Project Mgt.:	10/22	03/31	13,922,860	Revenue:	-	-				
Total Budgetary Cost Estimate			188,848,860	Net:	-	-				
				Initial Year Costs:	-	-				
Programmed Funding										
Actual	Budget	FY2026	FY2027	FY2028	FY2029	FY2030	FY26 - 30 Total	Future	Grand Total	
2,335,194	7,550,000	13,178,000	168,120,860	-	-	-	181,298,860	-	188,848,860	

Means of Financing	
Funding Source	Amount
All Prior Funding	7,550,000
Debt Proceed Funds - Utilities	181,298,860
Total Funding:	188,848,860