

RESTORE Act Ecosystem Restoration Project Proposals
for consideration in the Gulf Coast Ecosystem Restoration Council's Comprehensive Plan
2012

Contact Information: Christopher Cole, Sarasota County Environmental Utilities, cbcole@scgov.net , (941) 232-5952					Date of Submittal: 1-7-13		
Name of Project: Siesta Key Master Pump Station and Force Main					Org and Rank: Sarasota County #4		
Project Description: This project consists of design, permitting and construction of a master pump station and transmission force main to allow the decommissioning of the county's Siesta Key Wastewater Treatment Plant (WWTP). This WWTP's effluent is permitted for surface water discharge to Sarasota Bay. Once the new infrastructure is installed the plant will be decommissioned and the wastewater flows will be diverted to the mainland and treated at one of the county's regional wastewater reclamation facilities. The 1.5 million gallons per day of contributing flow from the Siesta Key service area will then be treated and beneficially reused in the county's reclaimed water system. This project will lower the amount of nutrients entering Sarasota Bay. Further, the increase in availability of reclaimed water will reduce the need for groundwater withdrawals to meet irrigation needs on the mainland.							
Project Location: Sarasota County, Siesta Key, Lat. and Long.: 27.27099677, -82.54108129							
Responsible Party: Sarasota County				Partners:			
NEP: Sarasota Bay		Project Cost: \$9,000,000			Dollars Needed: \$5,400,000		
Start: This 3-phase project started in 2009				Completion: 2016			
Status of Project Design and Permitting: An alternatives analysis was completed on 01/05/09. Permitting for phase 1 of the project is 90% complete. Construction for phase 1 is scheduled to begin in May 2013. Design for phase 2 is underway and design of phase 3 will start later this year.							
What Date or Year could Construction Feasibly Begin: May 2013							
Your Proposed Timing of Funding (given permits, phasing, staging, etc.)							
FY	12/13	13/14	14/15	15/16	16/17	17/18	Total
				\$5,200,00			\$5,200,00
Quantify Environmental Results and How to Measure Them: Removal of this point source will have an immediate reduction of nutrients (nitrogen and phosphorous) into Sarasota Bay.							
Economic Benefits (including ecosystem services): The Siesta Key Wastewater Treatment Plant is permitted with a direct surface water discharge into the Grand Canal which feeds into Sarasota Bay and ultimately to the Gulf of Mexico. The project will also increase the amount of beneficially used reclaimed water (1.5 mgd), and will reduce the amount of groundwater withdrawals used for irrigation in the region.							
Estimated number of Jobs Created or Preserved: Current positions will be reassigned to other parts of utility operations due to the plant decommissioning.							

How much Habitat will be restored and conserved?: The project will enhanced water quality, and will contribute to reductions in chlorophyll levels within Sarasota Bay which in turn will promote sea grass growth.
Quantify pollutant reductions: The decommissioning of the Siesta Key plant is estimated to remove 5,800 Lbs of Nitrogen and 2,000 Lbs of Phosphorous per year from Sarasota Bay.
What living coastal/marine resources will be improved and by how much?: Providing clearer water in Sarasota Bay will promote sea grass growth which will enhance native habitat for small fish and bivalves.
How will community resilience be enhanced? Moving key wastewater infrastructure off a barrier island and away from a storm surge area will improve the utility systems resiliency.
Additional Justification:

Add any photos or maps that explain project:

Forcemain Route



Plant Site

