

MEMORANDUM

TO: Governing Board Members

FROM: Deena Reppen, Deputy Executive Director, Regulatory and Public Affairs

DATE: October 14, 2010

SUBJECT: City of Marco Island -Alternative Water Supply Projects FY11 -
Contract No. 4600002214

Background:

Project 1: Reclaimed Water Production Facility Expansion - Phase III

The City of Marco Island plans to increase the production of its reclaimed water production facility (RWPF). The expansion will allow the City to provide a more reliable supply of irrigation water to existing customers, while reducing the demand on potable water for irrigation. In 2006, the City of Marco Island began the Septic Tank Replacement Program (STRP), with the goal of extending the sewer service to the entire island over a period of 7 years. In conjunction with the STRP efforts, the City began to expand the RWPF to a capacity of 5.0 MGD to accommodate flows from the expanded sewer system and additional development of the island. The expansion of the RWPF is being implemented in 5 phases. Phase III will address Odor Control, Collection/Distribution Operations Facility, Operations Buildings, Equalization Tank and Electrical System. The estimated cost of the project is \$10 million.

Project 2: Finished Water Storage Tank for Reverse Osmosis (RO) Plant Expansion

The City of Marco Island South Water Treatment Plant is an RO plant that has a production capacity of 6 MGD from 16 brackish groundwater wells. The finished water storage tank is a critical component since the existing available capacity of the finished water storage system is not sufficient. The purpose of the project is to construct a storage tank that will store a combination of treated surface water, captured during the wet season and stored in ASR wells, and RO treated brackish water for potable use. The project includes the construction of a 3 million gallon storage tank with the appropriate piping modifications and connections to the existing distribution system at Winterberry Drive. The estimated cost for this project is \$2 million.

Total FY11 costs are approximately \$12 million. In FY11, the District has budgeted \$700,000 in dedicated BCB funds.

How this helps meet the District's 10-year Strategic Plan: The projects support the District's water supply efforts to develop alternative water supply sources, as identified in the Lower West Coast Water Supply Plan.

Funding Source: The total cost of the projects is \$12,000,000, of which the District's contribution is not to exceed \$700,000, for which dedicated funds (Big Cypress Basin) are budgeted for FY11.

This Board item impacts what areas of the District, both resource areas and geography: The project benefits the City of Marco Island.

What concerns could this Board item raise? The Board may be concerned about the City's ability to complete this contract within the fiscal year. Individual projects were identified, scoped and budgeted to fit within the coming fiscal year. The Big Cypress Basin staff is confident that these projects will be completed within FY11.

Why should the Governing Board approve this item? Approval of this contract will help achieve the goals of the Lower West Coast Water Supply Plan to utilize alternative water supplies, and fosters partnership with the City of Marco Island. The item was reviewed and recommended for approval by the Big Cypress Basin Board on August 27, 2010.

If you have any questions, please do not hesitate to call me at ext. 6232.