

## MEMORANDUM

**TO:** Governing Board Members

**FROM:** Kenneth G. Ammon, P.E., Deputy Executive Director,  
Everglades Restoration Resource Area 

**DATE:** March 11, 2009

**SUBJECT:** C-51 Canal Sediment Management Project – Contract Number  
CP060614-A02 / 3600000543-A02

**Background:** In 2006, the District entered into an Interlocal Agreement with Palm Beach County and the City of West Palm Beach. The agreement allowed the District to cost share the construction and monitoring of a sediment trap in the C-51 canal, upstream of the S-155 structure. The District's contribution to the project was originally \$1,000,000, and it remains unchanged. Following execution of the original agreement, Palm Beach County applied for and received \$500,000 in legislative pass-through funding, which was added to the contract under amendment one in September 2007. The County has continued with design and construction of the project that to date has removed approximately 101,500 cubic yards of muck along a 3,500 foot section of the C-51 canal and created a sediment trap approximately 1,300 feet long by 300 feet wide and 26 feet deep. Additionally, the County has developed a monitoring plan, in compliance with the contract, that will allow for the collection of post-construction bathymetric surveys and analysis of accumulation and erosion rates along sections of the survey area. The survey results will help evaluate deposition rates and provide information relative to developing a maintenance dredging schedule of the sediment trap.

Subsequent to the 2007 amendment one, the County received an additional \$250,000 from the legislature for this project. The funding is included in the District's FY09 budget. This amendment two under contract CP060614 / 3600000543 incorporates these additional funds as well as Palm Beach County's added commitment of \$850,000 into the contract and modifies the scope of work to include sediment capping within Lake Worth Lagoon.

The total cost of the project will increase from \$3,000,000 (the initial \$1,000,000 from the District, \$500,000 from the legislature and \$1,500,000 from the County) to \$4,100,000. The additional funding includes \$850,000 from the County's budget or in-kind services plus the \$250,000 received from the legislature. The \$250,000 is included in the District's budget as State Appropriation or Community Interest Budget Request (CIBR) funds. No additional District funds are being added to the contract as a result of this amendment two.

**How this helps meet the District's 10-Year Strategic Plan:**

The North Palm Beach County (NPBC) Part 1 CERP planning effort includes recommendations and alternatives for improvements to the Lake Worth Lagoon. In addition to providing for methodologies to reduce discharges through the S-155 structure, several projects involving the capping of muck sediments have been identified in the NPBC – Part 1 Lake Worth Lagoon Memorandum and Alternative Formulations report (12/31/2007). This project will aid in evaluating the feasibility of additional sediment capping efforts and their benefits to the Lake Worth Lagoon.

**Funding Source:** This is amendment two to contract CP060614 / 3600000543 with the City of West Palm Beach and Palm Beach County for the C-51 Canal Sediment Management Project to increase the contract amount by \$1,100,000 of which dedicated funds (State Appropriations) in the amount of \$250,000 are budgeted and the remaining \$850,000 are Palm Beach County funds and in-kind services.

**This Board item impacts what areas of the District, both resource areas and geography:** This project will have impacts in the Lake Worth Lagoon, immediately downstream of the S-155 discharge structure. It is expected to provide water quality benefits to the lagoon by capping sediments with clean sand, thus minimizing or eliminating the resuspension of fine sediments into the water column. The District's Everglades Restoration Planning Department staff will be assigned to review reports, project recommendations and project invoicing to ensure reimbursements are consistent with the legislative grant.

**What concerns could this Board item raise?**

This amendment two will provide an evaluation and assessment of sediment removal and capping methodologies. These evaluations could result in recommendations and requests from project partners to expand the project in the future for additional benefits, subject to additional funding approvals.

**Why should the Governing Board approve this item?**

This contract amendment two should be approved to allow for the additional expenditure of monies designated by the legislature for improvements to the Lake Worth Lagoon. Approving this item also will continue to foster a good working relationship between Palm Beach County, the City of West Palm Beach and the District.