

FY 2011-12 Local Government Funding Request

Project Name (Same as previous phase): Smathers Beach Renourishment

Project Description: (Should be consistent year to year with annual updates. Include county, location with reference to range monuments, brief project history and upcoming beach activities.) The project consists of restoration and nourishment of 3,000 feet of critically eroded Atlantic shoreline located in Key West, Monroe County. Initial restoration of the project was in 2000 with the placement of 23,600 CY of sand. The remainder of the project length (4,600 CY) and the rebuilding of the 4 groins was completed in 2001. The next renourishment is scheduled for FY2010 and will encompass the total 3,000 foot project length. The City is awaiting a permit from the USACE to place 12,800 cubic yards of sand on the beach

The sand source is the ER Jahna, Ortona Mine in Moore Haven, Florida and is trucked to Key West. The sand size is a permit condition and helps facilitate turtle nesting and seagrass proliferation. Any new sand sources from the Bahamas may also be used if approved by the permitting agencies.

The City intends to regionalize with the State Division of Parks & Recreation for beach renourishment projects.

Use of Requested Program Funds: Funds requested for FY 2011-12 will be used for permitting, construction & construction inspection and engineering

Local Government Support

Does this sponsor have dedicated support staff whose sole priority is to manage beach erosion control activities? yes

Name	Title	Email	Percent Commitment
Janet Muccino	Project Manager	jmuccino@keywestcity.com	50%
Address 1:	P.O. 1409	Phone: 305 809-3867	
Address 2:	Key West, FL 33041	Fax: 305 809-3739	

Quarterly Report Compliance:

2010-2011	End Date	Report Sent	Compliant
Qtr 1 (Sept)	9/30/09	1/05/10	yes
Qtr 2 (Dec)	12/31/09	1/05/10	yes
Qtr 3 (Mar)	3/31/10	3/30/10	yes
Qtr4 (June)	6/30/10	8/04/10	yes

Revenue for the local cost share will be provided by: The City of Key West and the Monroe County Tourist Development Council

Is the funding from a dedicated long term source for this project? yes

In order to acquire funding, a resolution from the local governmental entity must be provided by the application deadline which declares:

- Support from the Sponsor for the Proposed Project
- Willingness to serve as the Local Sponsor
- Ability to provide the full Local Cost Share
- Funding Source

Has the local sponsor resolution been attached to the application fulfilling all of these requirements? No, the resolution is expected to be approved at an October 2010 City Commission meeting

Previous State cost-share for a feasibility or design/permitting phase of this project:

The Department previously entered into a cost-share agreement for funding of the initial restoration in 1998 and in 2007 for the July 2009 truck haul and upcoming renourishment in 2010. The project is recommended in the Strategic Beach Management Plan and located in an area that has been designated as critically eroded shoreline by the Department.

Previous State Cost Share percentage 50%

10-Year Project Schedule and 5-Year Estimated Budget

Does this project have Congressional Authorization? no

Does this project have a Federal Project Cooperative Agreement? no

What is the end date of the Federal Authorization? n/a

Federal cost share available for this erosion control project: no

Schedule and Budget (Include estimated phases for 10 years and estimated project costs for 5 years.):

Year	Proposed Method	Description	Total Estimated Cost	Federal Cost Share	State Cost Share	Local Cost Share
2011/ 2012	Monitoring/permit requirements/DEP Permit	Performance ,environmental	\$100,000	0.00	\$50,000	\$50,000
2012/ 2013	Renourishment/Monitoring/permit requirements	Performance ,environmental	\$300,000	0.00	\$150,000	\$150,000
2013/ 2014	Monitoring/permit requirements	Performance ,environmental	\$50,000	0.00	\$25,000	\$25,000
2014/ 2015	Renourishment/Monitoring/permit requirements	Performance ,environmental	\$300,000	0.00	\$150,000	\$150,000
2015/ 2016	Permitting, construction, Management, monitoring monitoring	nourishment	\$500,000	0.00	\$250,000	\$250,000
2016/ 2017	Monitoring/permit requirements/DEP Permit	Performance ,environmental				
2017/ 2018	Renourishment/Monitoring/permit requirements	Performance ,environmental				
2018/ 2019	Monitoring/permit requirements/DEP Permit	Performance ,environmental				
2019/ 2020	Renourishment/Monitoring/permit requirements	Performance ,environmental				
2020/ 2021	Monitoring/permit requirements/DEP Permit	Performance ,environmental				

Additional Ranking Criteria

Will this project enhance or increase the longevity of a previously-constructed project? yes
Will this project nourish a previously restored shoreline? yes
Rate of Erosion as determined by the Bureau based on long term data (ft/yr) 2.8

Severity of erosion: Apart from erosion due to Hurricane events, the erosion/accretion trends for the projects since initial construction indicate that while much of the project area is stable, several segments have shown high rates of localized erosion, which require renourishment to maintain the project design dimensions.

Project Benefits: The renourishment benefits the local economy by attracting tourists and benefit locals by providing a beautiful beach. After beach renourishments there is an increase in sea turtle nesting.

Use of Innovative Applications of existing technologies: Smathers beach was specifically designed with four structures to maintain the entire 3,000 ft. span of beach area. Depending on the wave direction, wind direction, currents and flood, the beach was designed to act as a single system to provide protection. Sand is trucked in from an upland source to renourish the beach to the original design levels.

Nourishment Interval (years): 5

Project Performance: Smathers Beach was renourished in 2000 with approximately 23,600 cubic yards of sand and in 2001 the renourishment was completed with the placement of 4,643 cubic yards and the 4 groins were rebuilt. Approximately 875 CY of sand was placed on the beach in 2003. In January 2006 approximately 2,590 CY of sand was placed to rebuild berms damaged by the 2005 hurricane season. A survey of Smathers Beach in August 2007 the City survey determined 12,891 CY of sand was needed to maintain design dimensions. In July 2009, approximately 2,445 CY of sand was placed to replace sand lost as a result of the 2008 hurricane season. Apart from the damage the beach has sustained due to storms & hurricanes, Smathers Beach continues to lose sand on an annual basis.

Smathers Beach

Key West

