FY 2011-12 Local Government Funding Request

Project Name (Same as previous phase):					Smathers Beach Renourishment			
Project Desc	riptio	n: (Sl	hould be con	sistent	year to year wi	ith annual update	es. Include	
county, locat	tion v	vith re	ference to ra	nge m	<u>onuments, brie</u>	f project history	and upcoming	
beach activit	ties.)]	The project co	nsists	of restoration an	d nourishment of i	3,000 feet of	
critically eroo	ded A	tlantic	shoreline loc	ated in	Key West, Mor	nroe County. Initia	al restoration of the	
project was in	n 200	0 with	the placemen	t of 23	,600 CY of sand	d. The remainder o	of the project	
length (4,600	CY)	and th	e rebuilding o	of the 4	groins was com	npleted in 2001.Th	ne next	
						the total 3,000 foo		
						00 cubic yards of s		
The sand sou	rce is	the El	R Jahna, Orto	na Mir	e in Moore Hav	en, Florida and is	trucked to Key	
						turtle nesting and	_	
						also be used if app		
permitting ag	-					**		
			,		D			
			nalize with th	e State	Division of Par	ks & Recreation f	or beach	
renourishmer	it pro	ects.						
Use of Requ	ested	Progr	am Funds:	Fund	s requested for F	FY 2011-12 will be	e used for	
					ection and engine		<u>c asca for</u>	
<u> </u>	0110111			<u></u>	out and out girl	<u> </u>		
Local Gover	nmer	t Sup	<u>port</u>					
		have d	edicated supp	ort sta	ff whose sole pr	iority is to manage	e beach erosion	
control activi	ties?						<u>yes</u>	
Name Title		Email	Percent					
Name		Tiue			Ellian		Commitment	
Janet Muccino Proje		Proje	ect Manager		jmuccino@keywestcity.com		50%	
Address 1: P.O.		P.O.	1409		Phone: 305 80			
Address 2:		Key '	West, FL 330	41	Fax: 305 809-3			
			,			<u>: </u>		
Quarterly R	eport	Com	pliance:					
2010-2011		Date	Report Sent	Con	pliant			
Qtr 1 (Sept)	9/30		1/05/10	yes	•			
Qtr 2 (Dec)		1/09	1/05/10	yes				
Qtr 3 (Mar)	3/31		3/30/10	yes				
Qtr4 (June)	6/30		8/04/10	yes				
Zu i (Julio)	0/50	, 10	0,01,10	1 503				
Revenue for	the le	ocal co	ost share will	be pr	ovided by: The	e City of Key Wes	t and the Monroe	
County Tour								

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

yes

- Willingness to serve as the Local Sponsor
- Ability to provide the full Local Cost Share
- Funding Source

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

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?	<u>no</u>
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/	Monitoring/permit	Performance	\$100,000	0.00	\$50,000	\$50,000
2012	requirements/DEP Permit	environmental,	+,		400,000	400,000
2012/	Renourishment/Monitoring/permit	Performance	\$300,000	0.00	\$150,000	\$150,000
2013	requirements	,environmental	\$300,000 0.00		\$150,000	\$150,000
2013/	Monitoring/permit requirements	Performance	\$50,000	0.00	\$25,000	\$25,000
2014		,environmental	\$50,000			
2014/	Renourishment/Monitoring/permit	Performance	\$300,000	0.00	\$150,000	\$150,000
2015	requirements	,environmental	\$500,000	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/	Renourishment/Monitoring/permit	Performance				
2018	requirements	,environmental				
2018/	Monitoring/permit	Performance				
2019	requirements/DEP Permit	,environmental				
2019/	Renourishment/Monitoring/permit	Performance				
2020	requirements	,environmental				
2020/	Monitoring/permit	Performance				
2021	requirements/DEP Permit	,environmental				

Mapping- Maps are provided as attachments. Maps should be to scale at a minimum of 1"=200' Mapping elements include: □ Project Boundary with Critically Eroded Shoreline: see attached aerial □ Range Monuments: n/a								
□ Beach Access and Parking- Primary and Secondary, including access widths. Smathers Beach has parking for the public along the south side of South Roosevelt Boulevard and additional parking in the bridle path on the north side of South Roosevelt Blvd. The beach is 100 percent open for public access.								
□ Public Lodging Establishments- locations and length of property boundaries along project Shoreline:. <u>n/a</u>								
OBJECTIVE 5-1	□ Comprehensive Plan designations of Commercial and Recreational Facilities and associated property boundaries along the project shoreline. OBJECTIVE 5-1.9: ACCESS TO PUBLIC BEACH, SHORELINE AND SCENIC VISTAS.							
The City shall maintain land use policies which promote continuance of the nineteen activity centers for shoreline access and water dependent and related activities described on pages 5-1 through 5-6 of the Coastal Management Element data inventory and analysis. The City of Key West is a waterfront oriented community with a highly accessible shoreline as documented in the Coastal Management data inventory and analysis. Beaches as well as scenic vistas of the shoreline and tidal waters shall remain unobstructed and, to the extent lawful, no barriers shall be erected which prevent pedestrian access along the shoreline. The City shall enforce the standards below directed in Policy 5-1.9.1 and 5-1.9.2. Currently the City has over twenty-three (23) acres of public beach. Considering the City's projected permanent and seasonal population (41,617 and the standard for beach access cited in Policy 5-1.9.1), the City has sufficient beach access to satisfy beach access needs through the year 2011 (41.6 2 = 20.8 acres). Policy 5-1.9.1: Standard for Public Beach Access. The City shall continue to implement the State DNR standard for public beach access of one-half (½) acre per one thousand (1,000) population.								
Policy 5-1.9.2: Public Access to Renourished Beaches. The standard for public access to renourished beaches shall be a minimum of one (1) access point per one-half (½) mile of natural and/or renourished beach. The City shall support the Monroe County Beach Restoration								
Management Plan (1990) characterized in the Comprehensive Data Inventory and Analysis, page 5-23 through 5-28.								
Length of Project Boundary in Feet:3,000								
Length of commercial or recreational property fronting the project shoreline: $3,000$								
Percentage of project shoreline designated as commercial or recreational property 100% Eligibility: Access Points and Public Lodging Establishments:								
Location/Name	Address	R- Mon	Type of Access	Width of Access/	Total units or	No. Public	Eligible shoreline	
		141011	1100035	Frontage	parking spaces	1 done	SHOTCHIIC	
n/a								

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?	<u>yes</u>
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.

<u>Project Benefits:</u> 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.

<u>Use of Innovative Applications of existing technologies:</u> 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