

## 5FY 2013-14 Local Government Funding Request

**Project Name:** Rest 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 the renourishment of 643 feet of critically eroded Atlantic shoreline located in Key West, Monroe County, with approximately 7,800 cubic yards of sand. The initial restoration of the project was in 1995 with the placement of sand from upland sources, removal of invasives and landscape improvements. A section of the adjacent pier was removed to allow seaweed to flow through that had previously piled up against the pier and rotted. The City is currently working to secure FDEP & USACE permits for renourishment which is scheduled for FY2012/13 and will encompass the total 643 foot project length with approximately 4500 CY of sand.

The City truck hauls sand from a source approved by all permitting agencies. The sand size is a permit condition which helps facilitate turtle nesting and seagrass proliferation.

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 2013-14 will be used for permit requirements, mitigation & monitoring.

### **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%
<b>Address 1:</b>	P.O. 1409	<b>Phone:</b> 305 809-3867	
<b>Address 2:</b>	Key West, FL 33041	<b>Fax:</b> 305 809-3739	

### **Quarterly Report Compliance:**

2010-2011	End Date	Report Sent	Compliant
Qtr 1 (Sept)	9/30/10	07/21/11	yes
Qtr 2 (Dec)	12/31/10	07/21/11	yes
Qtr 3 (Mar)	3/31/11	07/21/11	yes
Qtr4 (June)	6/30/11	07/21/11	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 in an October 2012 City Commission meeting

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

In 2008 the Department entered into a cost-share agreement for funding of the permitting, design and a feasibility study and design & permitting of Rest Beach. 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. The City has received final payment for the agreement.

**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
2013/ 2014	Mitigation/Monitoring/permit requirements	Performance ,environmental	\$200,000	0.00	\$100,000	\$100,000
2014/ 2015	Monitoring/permit requirements	Performance ,environmental	\$150,000	0.00	\$100,000	\$100,000
2015/ 2016	Monitoring/permit requirements	Performance ,environmental	\$100,000	0.00	\$50,000	\$50,000
2016/ 2017	Monitoring/permit requirements	Performance ,environmental	\$75,000	0.00	\$37,500	\$37,500
2017/ 2018	Periodic Renourishment Construction/ oversight/ mitigation/monitoring	Performance ,environmental nourishment	\$300,000	0.00	\$150,000	\$150,000
2018/ 2019	Monitoring/permit requirements	Performance ,environmental				
2019/ 2020	Monitoring/permit requirements	Performance ,environmental				
2020/ 2021	Monitoring/permit requirements	Performance ,environmental				
2021/ 2022	Monitoring/permit requirements	Performance ,environmental				
2022/ 2023	Permitting Renourishment/Monitoring/permit requirements	Performance ,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.  
Rest Beach has three handicap parking spaces between the bike path and the beach. There is additional parking for approximately fifty cars across Atlantic Blvd. at Indigenous Park and parking spaces on White St. The beach is 100 percent open for public access.
  
- ☐ Public Lodging Establishments- locations and length of property boundaries along project Shoreline:. n/a
  
- ☐ 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  $\square$  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 (1/2) 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 (1/2) 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:**

643'

**Length of commercial or recreational property fronting the project shoreline:**

643'

**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/ Frontage	Total units or parking spaces	No. Public	Eligible shoreline
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?**

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 the major erosion component is due to high wave action impacting on the beach face. Another component of erosion is caused by wind force action on the berm and beach face which once renourished will require periodic 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:** n/a

**Nourishment Interval (years):**

5

**Project Performance:**

The beach was improved in 1995 with the placement of approximately 2,600 cubic yards of sand from upland sources. After Hurricane Opal, Rest Beach was filled with approximately 944 tons of sand. Following damage by Hurricane Georges, the beach was nourished with approximately 1,604 tons of sand. After Hurricane Irene hit in 1999 the beach was nourished with 872 tons of sand. In January 2006 the berms were rebuilt following the 2005 hurricane season with approximately 654 tons. In November of 2009 approximately 682 tons of sand was placed on the berm to replace sand lost due to TS Faye in 2008; funded by FEMA. Apart from the damage the beach has sustained due to storms & hurricanes, Rest beach continues to lose sand on an annual basis. The City was issued an emergency field permit in 2012 to place 200cy of sand to help alleviate further erosion of the protective berm. Rest beach suffered major erosion from TS Isaac in August 2012

