

RESOLUTION NO. 2016- 333

**A RESOLUTION BY THE BOARD OF COUNTY COMMISSIONERS OF ST. JOHNS COUNTY, FLORIDA, APPROVING THE TERMS AND AUTHORIZING THE COUNTY ADMINISTRATOR, OR DESIGNEE, TO SUBMIT A LONG RANGE BEACH EROSION CONTROL BUDGET PLAN WITH THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, BUREAU OF BEACHES AND COASTAL SYSTEMS.**

**WHEREAS**, St. Johns County is currently working with the Army Corps of Engineers and the State Department of Environmental Protection on the St. Augustine Beach erosion control monitoring and maintenance of the constructed project and design of the next nourishment for the portion of beaches between ACOE markers R-137 and R-151; and,

**WHEREAS**, the Army Corps of Engineers (ACOE) is expected to appropriate funds for this project in the next fiscal year; and,

**WHEREAS**, St. Johns County also anticipates sharing costs with the State of Florida under a State DEP Beaches and Coastal Systems grant; and,

**WHEREAS**, the State Department of Environmental Protection has begun a new grant cycle which will require submitting an annual application along with a ten-year budget plan; and,

**WHEREAS**, St. Johns County will continue to provide local cost share funding from the Category III Tourist Development Tax Budget, and

**WHEREAS**, St. Johns County will continue to serve as the local sponsor; and,

**WHEREAS**, the Florida Department of Environmental Protection Bureau of Beaches and Coastal Systems requires an annual contract for its local share, contingent upon annual appropriations by the legislature.

**NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF ST. JOHNS COUNTY, FLORIDA, AS FOLLOWS:**

Section 1. The above Recitals are incorporated by reference into the body of this Resolution and such Recitals are adopted as findings of fact.

Section 2. A suggested 10-year budget plan for funding the State's portion of a beach nourishment project for the St. Augustine Beaches project shall be filed with the Florida Department of Environmental Protection, Bureau of Beaches and Coastal Systems (the "Department").

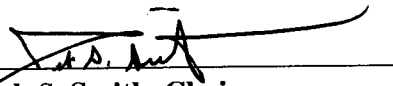
Section 3. The County Administrator, or designee, is hereby authorized to submit a proposed 10-year State budget plan to the Department and to execute any necessary agreements concerning the beach projects with the Department; and,

Section 4. The County Administrator's, or designee's, submission of any budget plan is subject to, and contingent upon, an annual budget appropriation by the Board of County Commissioners.

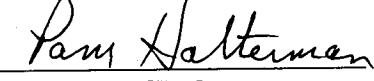
Section 5. To the extent that there are typographical and/or administrative errors and/or omissions that do not change the tone, tenor, or content of this Resolution, then this Resolution may be revised without subsequent approval of the Board of County Commissioners.

**PASSED AND ADOPTED** by the Board of County Commissioners of St. Johns County, State of Florida, this   1<sup>st</sup>   day of November 2016.

**BOARD OF COUNTY COMMISSIONERS  
OF ST. JOHNS COUNTY, FLORIDA**

By:   
Jeb S. Smith, Chair

**ATTEST:** Hunter S. Conrad, Clerk

By:   
Deputy Clerk

**RENDITION DATE**   11/3/16  



**FY 2017/18 Local Government Funding Request  
Beach Management Project  
Application Supplement**

**Project Name (Same as previous phase):** St. Johns County Shore Protection Program; St. Johns County R-137 through R-151

**Project Description: (Should be consistent year to year with annual updates. Include county, location with reference to range monuments, brief project history, and upcoming activities.):** The project consists of a multi-year federal commitment to design, construct and monitor beach restoration of the severely eroded beaches of Anastasia State Park and St. Augustine Beach. The scope focuses on the FDEP-designated critical erosion areas between R137 and R151 at the center of the County and just South of the St Augustine Inlet. The project is part of a 50-year commitment to the U.S. Army Corps of Engineers to nourish this segment of beach. The third phase of sand placement was constructed in 2012, and the fourth phase is planned to begin during FY2017/2018. Year 5 post-construction monitoring of the 2012 nourishment project is planned for summer 2015.

The initial nourishment (referred to as the 2003 project) of the St. Johns County SPP, completed in January 2003, extended 2.9 mi from approximately 600 feet (ft) north of FDEP monument R-137A (2.7 mi south of St. Augustine Inlet in Anastasia State Park) south to approximately 600 ft south of FDEP monument R-151 in the City of St. Augustine Beach in St. Johns County, Florida (Figure 2.1). The state of Florida, piggybacking the federal nourishment project, extended the beach nourishment project approximately 0.9 mi north into Anastasia State Park to FDEP monument T-132.

The 2003 project construction occurred as follows. The initial nourishment of the St. Johns County SPP began in 2001 before funding difficulties interrupted construction. Between September and October 2001, the USACE placed sand approximately 1.1 mi from R-145 south to R-151 on St. Augustine Beach. Project construction resumed in April 2002 and finished in January 2003. The project extended from the state portion's northern limit at T-132 to the federal portion's southern limit at R-151. In all, the 2003 project placed approximately 4.2 million cubic yards (Mcy).

The first nourishment (referred to as the 2005 project) extended approximately 2.9 mi from Monuments R-137A to R-151. The 2004 hurricane season resulted in the need to nourish the project before the anticipated nourishment interval. Congress appropriated emergency funds in response to the storms. Taylor Engineering applied for and received from the FDEP a one year extension to the existing five year, 2003 FDEP permit. Construction began in June and concluded in December 2005 with placement of 2.8 Mcy.

The second nourishment (referred to as the 2012 project) extended approximately 1.5 mi from monument R-139 to R-147. An agreement between the USACE and dissenting property owners limited the permitted beach fill volume to approximately 2.1 Mcy; this volume limitation inhibited construction of the full 2.8-mile permitted project. Project construction occurred from February – September 2012.

The three projects combined have placed approximately 9.1 Mcy on St. Augustine Beach and Anastasia State Park. All projects used portions of the St. Augustine Inlet ebb shoal and the federal navigation channel as their borrow areas. However, the updated 2014 Inlet Management Plan limits the quantity of sand that can be dredged from the inlet borrow areas. If historical

erosion rates persist at the beach, alternative borrow sources — potentially including offshore borrow sources — need to be identified, designed, and permitted to sustain the project long-term. To that end, the USACE is conducting a sand source investigation and preparing a Limited Reevaluation Report (LRR) to support the federal project modification. However, preliminary results indicate the sole use of an identified offshore borrow area may not be economically justified. Consequently, the USACE anticipates it needs to prepare a General Reevaluation Report (GRR) which would allow the USACE to consider and evaluate additional project modifications (template redesign, revised nourishment interval, coastal structures) which, in conjunction with offshore and other borrow sources, may be necessary to improve the project performance and maintain federal authorization. USACE plans to conduct the next nourishment project during FY2017/2018 using the inlet and ebb shoal borrow areas. Subsequent nourishments are expected to follow the revised project design developed in the GRR.

**Use of Requested Program Funds:** Funds requested for FY2017/18 will support Year 5 post-construction physical monitoring of the 2012 nourishment project and design and permitting work related to offshore borrow areas (LRR), additional project modifications to improve the project performance (GRR), and preparation of plans and specification for the upcoming nourishment project planned for 2017.

**Local Government Contact:**

Name	Title	Email
Greg Caldwell	Interim Engineering Manager	gcaldwell@sjcfl.us
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<b>Address 2:</b>	St Augustine, FL 32084	<b>Fax: 904-209-0118</b>

**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
2017/ 2018	Monitoring	Year 5 Physical monitoring	\$150,000	\$0	\$65,340	\$84,660
	Design and Permitting	LRR (FY16/17)	\$1,282,060	\$1,032,058	\$108,901	\$141,101
	Design and Permitting	GRR	\$1,300,000	\$1,046,500	\$110,425	\$143,075
	Design and Permitting	Plans and Specs	\$800,000	\$644,000	\$67,954	\$88,046
2018/ 2019	Monitoring	Year 1 Physical monitoring	\$200,000	\$0	\$87,120	\$112,880
2019/ 2020	Monitoring	Year 2 Physical monitoring	\$200,000	\$0	\$87,120	\$112,880
2020/ 2021	Monitoring	Year 3 Physical monitoring	\$200,000	\$0	\$87,120	\$112,880

	Design and Permitting	Permit Mod	\$200,000	\$0	\$87,120	\$112,880
2021/ 2022	-	-	-	-	-	-
2022/ 2023	Monitoring	Year 5 Physical monitoring				
	Construction	Nourishment				
2023/ 2024	Monitoring	Physical monitoring				
2024/ 2025	Monitoring	Physical monitoring				
2025/ 2026	Monitoring	Physical monitoring				
2026/ 2027	-	-				

**Local Sponsor Financial and Administrative Commitment:**

Please provide a copy of the local sponsor's signed resolution from the current fiscal year.

To be provided.

**Eligibility: Public Beach Access Points and Public Lodging Establishments:**

Location/Name	Address	R-Mon	Type of Access	Width of Access/ Frontage	Total units or parking spaces	Public Parking Spaces	Eligible shoreline (ft)
Anastasia State Park	E of Anastasia Park Rd A1A	R137-R141	Primary		350	350	2640
Pope Road		R141	Secondary			26	
St Augustine Beach Front Resort	300 A1A Beach Blvd	R141					
Pier Park		R142	Primary		201	201	2640
Hampton Inn	430 A1A Beach Blvd	R142					
16th Street						28	
15th Street						6	
14th Street						9	
13th Street						24	
12th Street						0	
11th Street						34	

10th Street						24	
9th Street						0	
8th Street						18	
7th Street						22	
6th Street						5	
5th Street		R145- R146	Secondary		56	56	1320
4th Street						0	
3rd Street						14	
2nd Street						4	
1st Street						22	
A Street		R146	Secondary		22	22	1320
The Beachcomber	2 A Street						
B Street						4	
House of Sun & Sea	2 B Street						
C Street						8	
D Street		R147				10	
E Street						8	
F Street		R148	Secondary		10	10	1056
La Fiesta Oceanside Inn & Suite	810 A1A Beach Blvd	R148					
Holiday Inn	860 A1A Beach Blvd	R149					
Maratea Beach Access	900 A1A Beach Blvd	R150	Secondary		20	20	1056

**Significance:**

What is the volume of advanced nourishment lost since the last sand placement event of a beach restoration or nourishment project as measured landward of the Mean High Water Line?

The last nourishment occurred February – September 2012. As of Aug 2015 (i.e., three years post-construction), the project area as a whole eroded -85,465 cy above the MHW elevation as reported in the Year 3 physical monitoring report. However, measured landward of the 2012 post-construction MHW position at each reference monument, the project area lost -242,151 cy; erosion landward of MHW occurred at monuments R-139 – R-145, whereas accretion occurred elsewhere due to longshore dispersion of fill.

Has the project eroded into the design template?

**YES**

As of Aug 2015 (i.e., three years post-construction), the berm crest at R-148, R-150, and R-151, which did not receive fill during the 2012 nourishment, remains landward of the design template.

If so, please list those R-monuments.

R-148, R-150, R-151

What is the proposed placement volume?

2 – 3 Mcy.

Based on the previous two nourishments, we expect the next nourishment will require 2 – 3 Mcy.