RESOLUTION NO. 2008-<u>259</u>

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 ACOE and FDEP on a multi-year federal feasibility of beach restoration in Vilano Beach (ACOE markers R-110 to R-117); and the Summer Haven area (R-197 to R-209); and at South Ponte Vedra Beach (R-84 to R94) 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 matching 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). That a suggested 10-year budget plan for funding the State's portion of a Federal Feasibility Study for St Johns County Beaches project be filed with the Florida Department of Environmental Protection, Bureau of Beaches and Coastal Systems (the "Department"), and

Section (3). That 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). That 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.

PASSED AND ADOPTED by the Board of County Commissioners of St. Johns County,
State of Florida, this ______ day of September, 2008.

BOARD OF COUNTY COMMISSIONERS OF

ST. JOHNS COUNTY, FLORIDA

ATTEST: Cheryl Strickland, Clerk

Deputy Clerk

RENDITION DATE 9/19/08

St. Johns County Annual Funding Request (FY2009 - 2010) and Local Long-Range Budget Plan for Participation in the FDEP Beach Management Funding Assistance Program

August, 2008

Prepared by:

St Johns County, Florida Public Works Department Engineering Division 2740 Industry Center Road St. Augustine, FL 32804 (904) 209-0110 The St. Johns County Annual Funding Request and Local Long-Range Budget Request to the Florida Department of Environmental Protection (FDEP) consists of the following elements:

- 1. South Ponte Vedra Beach/Vilano Beach/Summer Haven Beach Restoration
- 2. St. Johns County Shore Protection Project, and
- 3. South Ponte Vedra/Vilano Beach Restoration

Figure 1 presents the project locations throughout St. Johns County. Table 1 presents schedules and cost shares for each of the elements. The county's long-range budget request submitted for fiscal year (FY) 2008 – 09 presented maps showing shoreline commercial/recreational land use, public beach accesses, parking, and related information for the above projects.

Table 1 Summary of Project Costs and Schedules (1 of 4)

SOUTH PONTE VEDRA BEACH, VILANO BEACH, SUMMERHAVEN BEACH RESTORATION

Phase	Location		2009	-2010	
Phase	Location	Federal	State	Local	Total
Feasibility	R84-R94, R110-R117, R197-R209	\$452,000	\$226,000	\$226,000	\$904,000
Design	R84-R94, R110-R117, R197-R209	\$0	\$0	\$0	\$0
Constructio					
n	R84-R94, R110-R117, R197-R209	\$0	\$0	\$0	\$0
Monitoring	R84-R94, R110-R117, R197-R209	\$0	\$0	\$0	\$0
Total	R84-R94, R110-R117, R197-R209	\$452,000	\$226,000	\$226,000	\$904,000

ST JOHNS COUNTY SHORE PROTECTION PROJECT

Phase	Location		2009	-2010	
Filase	Location	Federal	State	Local	Total
Feasibility	R137-R151	\$0	\$0	\$0	\$0
Design	R137-R151	\$700,000	\$57,000	\$87,000	\$844,000
Construction	R137-R151	\$0	\$0	\$0	\$0
Monitoring*	R137-R151	\$0	\$62,000	\$93,000	\$155,000
Total	R137-R151	\$700,000	\$119,000	\$180,000	\$999,000

^{*} Note: Monitoring includes biological and physical monitoring and beach tilling and scarp removal

South Ponte Vedra Beach, Vilano Beach, Home Owners Restoration Study

Dhana	Location		20	09-2010	
Phase	Location	Federal	State	Local	Total
Feasibility	R84-R94, R110-R117	\$0	\$0	\$0	\$0
Design	R84-R94, R110-R117	\$0	\$600,000	\$600,000	\$1,200,000
Construction	R84-R94, R110-R117	\$0	\$0	\$0	\$0
Monitoring	R84-R94, R110-R117	\$0	\$0	\$0	\$0
Total	R84-R94, R110-R117	\$0	\$600,000	\$600,000	\$1,200,000

Table 1 Summary of Project Costs and Schedules (2 of 4)

Sou	South Ponte Vedra Beach, Vilano Beach, Summer Haven Beach	10 Beach, Su	mmer Ha	ven Beach	_																
	Resto	Restoration																			
Phase	Location		2008-2009	600			2009-2010	010			2010-2011	1011			2011-2012	2012			2012-2013	113	
			2009-2010	010			2010-2011	911			2011-2012	012			2012-2013	2013			2013-2014	114	
Phase	Location	Fede	-	Loca		Feder												Feder			
		Ē	State	_	Total		State	Local	Total	Federal	State	Local	Total	Federal	State	Local	Total	-	State	Local	Total
Feasibil	R84-R94, R110-R117,	\$452,	\$226,	\$226,	\$904,											,					
ity	R197-R209	000	000	000	000	20	\$0	20	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	S S	ος (2)	\$0
	R84-R94, R110-R117,					\$700,	\$350,	\$350,	\$1,400	\$600,00	\$300,0	\$300,0	\$1,200,								
Design	R197-R209	20	20	05	S	000	000	000	00,	0		00	000	\$0	\$0	\$0	\$0	\$0	<u>\$</u>	2 0	30
Constru	R84-R94, R110-R117,													\$8,000,	\$4,000	\$4,000,	\$16,000,				
ction	R197-R209	80	S	\$0	O\$	%	20	20	20	\$0	\$0	\$0	\$0	000	,000	000	000	œ	S	\$0	%
Monitor	R84-R94, R110-R117,							<u> </u>											\$70,0	\$160,	\$230,
ing	R197-R209	\$	S,	80	%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	20	\$0	3 0	20	8	8	000
	R84-R94, R110-R117.	\$452.	\$226.	\$226.	\$904.	\$700,	_	_	\$1,400	\$600,000	\$300,0	\$300,0	\$1,200,	\$8,000,	\$4,000	\$4,000,	\$16,000,		\$70,0	\$160,	\$230,
Total	R197-R209	000	000	000	000	000	000	000	_			00	000	000	,000 ,	000	000	\$0	8	000	000

	_						_		_	_	
Total		ę	20		\$0		\$0	\$230,	000	\$230,	000
Local	1000	•	\$0		\$0		\$0	\$160,	000	\$160,	000
State	State	•	\$0		\$0		\$0	\$70,0	00	\$70,0	8
Feder		ě	\$0		\$0		\$0		\$0		20
Total	-0181	į	\$0		\$0	\$16,000,	000		\$0	\$16,000,	000
1	Local	į	\$0		80	\$4,000,	000		0\$	\$4,000,	000
State	State		\$0		\$0	\$4,000	000,		\$0	\$4,000	000
Fodorn	LCCC		\$0		\$0	\$8,000,	000		\$0	\$8,000,	000
Total	TOTAL		\$0	\$1,400,	000		\$0	\$230,00	0	\$1,630,	000
1000	FOC		\$0	\$350,0	8		\$0	\$160,0	8	\$510,0	00
2,043	State		\$0	\$350,0	8		%	\$70,00	0	\$420,0	8
Voderel	reneral		\$0	\$700,00	0		\$		%	\$700,00	0
Total	10131		\$0		20		\$0		\$0		20
1 000	LANCAL		\$0		\$		80	\$160,	000	\$160,	000
3	State		S S		20		\$	\$70,0	8	\$70,0	S
Feder	Ę.		20		2		S		20		95
Į.	10(3)		20		8		8	\$230.	8	\$230,	000
Loca	-				20		20		000	\$160.	000
3	SIRIC							\$70.0		\$70,0	8
Fede	Ē		\$0		20		\$		\$		Ş
Location		R84-R94, R110-R117,	R197-R209	R84-R94, R110-R117,	R197-R209	R84-R94, R110-R117,	R197-R209	R84-R94, R110-R117.	R197-R209	R84-R94, R110-R117.	B197.8709
Phase		Feasibil	ity		Design	Constru	ction	Monitor	ing	,	
	Loca Loca Reder Control Total al State Local	Location Fede Loca Rotal Total al State Local Total Federal State Local Total Formal State Local Total Total Total	Location Fede Loca State Local Total al State Local Total Federal State Local Total Federal State Local Total Tota	Location Federal State Local Local Federal State Local Local Local Federal State Local Local Local Red-Fragation State Federal Local Local Red-Fragation State Federal Red-Fragat	Location Federal State Local Local Federal State Local Local Local Total all State Local Local Local Local Total all State Federal Local Loca	Location Federal Federal Folial State Local Local Federal Local Included and State RRAFRSH. Included and State Included and State Included and State Included and	Location Federal Feder	Location Federal State Local and Every Representation Free Representa	Location Feder Local Total Federal State State <th< th=""><th>Location Federal State Location Federal State Federal</th><th>Location Feder Locat Incation Feder Feder Locat Total Federal State Locat Total Federal State Locat Total Federal Federal Federal State Locat Total Federal F</th></th<>	Location Federal State Federal	Location Feder Locat Incation Feder Feder Locat Total Federal State Locat Total Federal State Locat Total Federal Federal Federal State Locat Total Federal F

Table 1 Summary of Project Costs and Schedules (3 of 4)

St. Johns County Shore Protection Project

	Locatio		2009-2010	2010			2010-2011	2011			2011	2011-2012			2012-2013	2013			2013-2014	2014	
	=	Feder												Feder				Feder			
		Te .	State	Local	Total	Federal	State	Local	Total	Federal	State	Local	Total	7	State	Local	Total	=	State	Local	Total
Feasibilit	R137-									_											
_	R151	\$0	\$0	\$0	%	20	20	\$0	20	20	20	20	\$0	20	\$0	20	\$0	9	⊗	\$0	20
H	R137-	\$700,0	857,00 \$87,00	\$87,00	\$844,0																
Design	R151	00	0	0	8	0\$	\$0	\$0	0\$	\$0	9	\$0	\$0	80	\$0	\$0	\$0	20	%	\$0	8
Construct	R137-					\$12,800,	\$1,294,	\$1,986,	080'91\$												
	R151	200	\$0	20	20	000	000	000	000	\$0	20	20	\$0	\$0	0\$	\$0	\$0	<u>\$</u>	80	\$0	\$
Monitori	R137-		\$62,00	\$93,00	0,551\$						\$62,00				\$62,00	\$93,00	\$155,0		\$62,00	\$93,00	\$155,0
_	R151	\$0	0	0	00	80	\$0	\$0	0\$	\$0	0	\$93,000	\$155,000	80	0	0	8	9	0	0	8
	R137-	\$700,0	0,611\$	\$180,0	0'666\$	\$12,800,	\$1,294,	\$1,986,	\$16,080,		\$62,00				\$62,00	\$93,00	\$155,0		\$62,00	\$93,00	\$155,0
	R151	8	8	8	8	000	000	000	000	\$0	0	\$93,000	\$155,000	\$0	0	0	8	\$0	0	0	8

i	Locatio		2014-2015	2015			2015-2016	9103			2016	2016-2017			2017-2018	018			2018-2019	610	
rnase	•	Feder	State	Local	Total	Federal	State	Local	Total	Federal	State	Local	Total	Feder	State	Local	Total	Feder	State	Local	Total
Feasibilit	R137-																				
Y	R151	\$0	20	S	\$0	\$0	%	\$0	20	\$0	\$0	0\$	80	0\$	\$0	\$0	0\$	20	0\$	\$0	S
	R137-	\$700,0	\$57,00	\$87,00	\$844,0																
Design	R151	00	0	0	00	\$0	\$0	\$0	20	\$0	\$0	\$0	80	O\$	\$0	\$0	20	\$0	\$0	\$0	80
Construct	R137-					\$12,800,	\$1,294,	\$1,986,	\$16,080,												
	R151	\$0	\$0	\$0	80	000	000	000	000	\$0	80	\$0	80	90	\$0	\$0	80	%	\$	\$0	\$0
Monitori	R137-		\$62,00	\$93,00	0,551\$						\$62,00				\$62,00	\$93,00	\$155,0		\$62,00	\$93,00	\$155,0
gu	R151	\$0	0	0	00	80	05	\$0	20	\$0	0	\$93,000	\$155,000	20	0	0	8	\$0	0	0	8
	R137-	\$700,0	\$700,0 \$119,0	0,666\$ 0,081\$		\$12,800,	\$1,294,	\$1,986,	\$16,080,		\$62,00				\$62,00	\$93,00	\$155,0		\$62,00	\$93,00	\$155,0
Total	R151	8	00	8	8	000	000	000	000	%	0	\$93,000	\$155,000	\$0	0	0	8	\$0	0	0	00

Note: Monitoring includes biological and physical monitoring and beach tilling and scarp removal

Table 1 Summary of Project Costs and Schedules (4 of 4)

South Ponte Vedra Beach, Vilano Beach, Home Owners Restoration Study

			2005	2009-2010			2010-2011	2011			2011-2012	2012			2012-2013	9013			2013-2014	2014	
Phase	Location	Fed		Loca		Federa								Fede		Loca		Fede		Loca	
		eral	State	_	Total	_	State	Local	Total	Federal	State	Local	Total	ral	State	_	Total	ē	State	_	Total
Feasibili	R84-R94,																				
	R110-R117	\$0	\$0	2	S S	င္တ	S S	\$0	0\$	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<u> </u>	R84-R94		\$600	\$600,	\$1,200												-				
Design	R110-R117	\$0	000	8	8	0\$	0\$	\$	0\$	\$0	\$0	Ç\$	ဇ္	\$0	\$0	Ş	Q S	င္တ	0¢	\$	8
Г	R84-R94,						\$16,00	\$16,00	\$32,00												
	R110-R117	တ္တ	Ç,	\$	ဇ္တ	\$0	0,000	0,000	000'0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$
Monitori	R84-R94,										\$100,0	\$100,0	\$200,0		\$100,	\$100,	\$200,		\$100,	\$100,	\$200,
	R110-R117	Ç\$	\$0	8	90	\$	O\$	ÇÇ	8	\$0	8	8	8	\$0	000	000	000	င္တ	8	8	8
	R84-R94		\$600	\$600,	\$1,200		\$16,00	\$16,00	\$32,00		\$100,0	\$100,0	\$200,0		\$100,	\$100,	\$200,		\$100,	\$100,	\$200,
Total	R110-R117	80	000	8	8	S S	000'0	000'0	000'0	0\$	8	8	8	\$	000	000	000	0\$	8	8	8

_						_	_
	Total	0\$	0\$	0\$	\$200,	\$200,	6
2018-2019	l Loca	0\$	0\$	0\$	\$100, 000	\$100,	٤
2018	State	0\$	0\$	0\$	\$100, 000	\$100,	٥
	Fede ral	0\$	0\$	0\$	0\$		Ç
	Total	0\$	0\$	0\$	\$200, 000	\$200,	٤
2017-2018	Loca	\$0	S\$	\$0	\$100, 000	\$100,	9
2017	State	0\$	Ç\$	\$0	\$100, 000		
	Fede ral	0\$	S\$	9	0\$		¥
	Total	0\$	0\$	\$32,00		\$32,00	
2016-2017	Local	0\$	S S	\$16,00 0,000	0\$	\$16,00	000
2016	State	\$0	\$0	\$16,00	0\$	\$16,00	000
	Federai	\$0	S\$	0 \$	0\$		Ş
	Total	0\$	\$1,200, 000	0\$	\$200,0 00	\$1,400,	6
2015-2016	Local	\$0	\$600,0 00	0\$	\$100,0 00	\$700,0	٤
2015	State	Q\$	\$600,0 00	0\$	\$100,0 00	\$700,0	8
	Federa	\$0	0\$	0\$	0\$		Ş
	Total	0\$	0\$	0\$	\$200,0	\$200,0	5
2014-2015	Loca	OŞ	Ç	S	\$100 000	\$100,	2
201	State	\$0	O \$	S _s	\$100, 000		
	Federal	OS	တ္တ	္အ	0\$		ç
-	Location	R84-R94, R110-R117	R84-R94, R110-R117	R84-R94, R110-R117	R84-R94, R110-R117	R84-R94,	0110 0117
	Luase	Feasibili ty		Constru	Monitori		-

SOUTH PONTE VEDRA BEACH/VILANO BEACH/SUMMER HAVEN BEACH RESTORATION

PROJECT DESCRIPTION: The project consists of a multi-year federal study to determine the feasibility of beach restoration in South Ponte Vedra Beach, Vilano Beach, and Summer Haven. Though generally countywide in scope, it primarily focuses on three FDEP-designated critical erosion areas: the R-84 through R-94 beach segment that lies in South Ponte Vedra Beach, the R-109 through R-117 beach segment that lies in Vilano Beach north of St. Augustine Inlet, and the R-197 through R-209 beach segment that lies in Summer Haven at the south end of the county. The study will identify areas requiring beach management; conduct engineering, environmental, and economic analyses; and design feasible shore protection projects.

LOCATION: St. Johns County — R-84 through R-94, R-109 through R-117, and R-197 through R-209

PROJECT EVALUATION:

Severity of Erosion: This project will determine the severity of erosion. In general, the project will seek to mitigate damage caused by continual erosion and damage from frequent storms. According to Dean et al. (1998) (Dean, R.G., Cheng, J., and Malakar, S. 1998. Characteristics of the Shore Change Along Sandy Reaches of the State of Florida: An Atlas. Florida Sea Grant), the average rate of erosion from 1970 to 1992 equals -2.1 ft/year for R-109 - R-117, and -2.4 ft/year for R-197 - R-209. Notably, recent northeaster storm and hurricane activity have caused severe erosion to occur in the South Ponte Vedra Beach area that threatens private development and State Road A1A.

<u>Benefits:</u> Upland property owners will receive storm damage protection; all county residents will receive economic benefits through tourism. The coastal highway (Scenic AIA) will continue to serve as an evacuation route.

Public beach access within the project areas consists of the beach, access points at North Beach Park and walkover, the Ft. Matanzas National Monument park beach driving ramp, and beach access south of the Matanzas Inlet Bridge. The FY2008 – 09 budget request provided a map which identifies public beach access points with associated parking, and drive-on ramps within the project areas; that map still proves valid and is attached in the appendix of this document. Threatened and endangered marine turtles

utilize the entire project areas for nesting purposes; however, they do not lie within a designated marine turtle refuge.

St. Johns County beaches are popular both for out of state tourists and inland state residents. Two distinct beach seasons exist. One season begins in fall/winter for out of state beachgoers and the other season begins in summer for in-state beachgoers escaping the heat of the central Florida region. With over 42 miles of beaches, St. Johns County provides an exceptional recreation benefit to the state and an outstanding economic benefit to the local communities.

Federal Funding: A federal reconnaissance study for the project, completed in 2004, justified the need for a feasibility study. The US. Congress and Senate are currently considering \$452,000 in federal appropriations for the federal feasibility study for FY2009 - 10.

Local Commitment: The County has signed a feasibility cost-sharing agreement with the U.S. Army Corps of Engineers (USACE). St. Johns County has retained the services of the coastal engineering firms Taylor Engineering. Inc. and PBS&J, Inc. to assist in project management, tracking, monitoring, and assistance with design and permitting and other related future activities. St. Johns County is obtaining local funding for the project from the Tourist Development Council, which provides a dedicated and scheduled funding source. The county includes funds necessary to construct and maintain the project in the county's capital improvement plan.

On recent projects, St. Johns County government has exhibited its professional capabilities to administer large-scale beach nourishment and shore protection projects.

With this funding request, St. Johns County has included a proposed resolution that states its support of the proposed project, willingness to serve as the local sponsor, and ability to provide the local cost share. The St. Johns County Board of County Commissioners (BCC) will consider this resolution in October 2008. St. Johns County will furnish a copy of the approved resolution to the FDEP.

State Commitment: The state earmarked for the feasibility study in FY-08 \$50,000 as its cost share on an anticipated \$100,000 federal commitment. Continuation of this federal project relies on annual commitments from the FDEP and St. Johns County (local sponsor). The FDEP recommends the project in its draft Strategic Beach Management Plan for St. Johns County beaches. In addition, the project areas lie within FDEP-designated critical erosion areas.

Project Performance: The county will optimize all projects for best performance.

<u>Use of Innovative Technology:</u> The USACE will utilize the newest and most innovative technologies available for this feasibility study.

USE OF PROGRAM FUNDS: St. Johns County will apply the funds requested for FY2009-10 to support the nonfederal cost share of the multi-year federal feasibility study.

SOUTH PONTE VEDRA BEACH, VILANO BEACH, SUMMERHAVEN BEACH RESTORATION

	Landina		2009	9-2010	
Phase	Location	Federal	State	Local	Total
Feasibility	R84-R94, R110-R117, R197-R209	\$452,000	\$226,000	\$226,000	\$904,000
Design	R84-R94, R110-R117, R197-R209	\$0	\$0	\$0	\$0
Construction	R84-R94, R110-R117, R197-R209	\$0	\$0	\$0	\$0
Monitoring	R84-R94, R110-R117, R197-R209	\$0	\$0	\$0	\$0
Total	R84-R94, R110-R117, R197-R209	\$452,000	\$226,000	\$226,000	\$904,000

	1 41		2010	0-2011	
Phase	Location	Federal	State	Local	Total
Feasibility	R84-R94, R110-R117, R197-R209	\$0	\$0	\$0	\$0
Design	R84-R94, R110-R117, R197-R209	\$700,000	\$350,000	\$350,000	\$1,400,000
Construction	R84-R94, R110-R117, R197-R209	\$0	\$0	\$0	\$0
Monitoring	R84-R94, R110-R117, R197-R209	\$0	\$0	\$0	\$0
Total	R84-R94, R110-R117, R197-R209	\$700,000	\$350,000	\$350,000	\$1,400,000

	1		201	1-2012	
Phase	Location	Federal	State	Local	Total
Feasibility	R84-R94, R110-R117, R197-R209	\$0	\$0	\$0	\$0
Design	R84-R94, R110-R117, R197-R209	\$600,000	\$300,000	\$300,000	\$1,200,000
Construction	R84-R94, R110-R117, R197-R209	\$0	\$0	\$0	\$0
Monitoring	R84-R94, R110-R117, R197-R209	\$0	\$0	\$0	\$0
Total	R84-R94, R110-R117, R197-R209	\$600,000	\$300,000	\$300,000	\$1,200,000

ST. JOHNS COUNTY SHORE PROTECTION PROJECT

PROJECT DESCRIPTION: 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 50

year commitment to the US Army Corps of Engineers to renourish this segment of Beach. The current

budget request covers costs for designing the next nourishment of the St. Johns County Shore Protection

Project. The US Congress and Senate are currently considering \$ 700,000 in appropriations for the Shore

Protection Project for FY2009 – 10.

LOCATION: St. Johns County — R-137 through R-151

PROJECT EVALUATION:

Severity of Erosion: This beach segment lies within the St. Augustine Inlet's area of influence. The

USACE authorized the St. Johns County Shore Protection Project in 1999 to mitigate for long-term erosion

caused by the inlet.

Benefits: Upland property owners receive storm damage protection. All county residents receive

economic benefits through tourism. The coastal highway (Scenic AIA) continues to serve as an

evacuation route.

Public beach access within the project areas consists of the beach access points at Anastasia State Park, Pope

Road, the St. Johns County Pier Park, and walkovers along the street ends at St. Augustine Beach. The FY

2008 - 09 budget request provided a map that identifies public beach access points with associated parking,

and drive-on ramps within the project area; that map still proves valid and is provided as part of the

Appendix. Threatened and endangered marine turtles utilize the entire project areas for nesting

purposes; however, they do not lie within a designated marine turtle refuge.

St. Johns County beaches are popular both for out of state tourists and inland state residents. Two

distinct beach seasons exist. One season begins in fall/winter for out of state beachgoers and the other

season begins in summer for in-state beachgoers escaping the heat of the central Florida region. With

over 42 miles of beaches, St. Johns County provides an exceptional recreation benefit to the state and an

outstanding economic benefit to the local communities.

10

<u>Federal Funding:</u> The USACE 1998 General Reevaluation Report (GRR) constitutes the authorization document for this project. The US Congress and Senate are currently considering \$ 700,000 in appropriations for the design of the Shore Protection Project for FY2009 - 10.

Local Commitment: The county has executed a project cost sharing agreement with the USACE for the 50-year project life. St. Johns County has retained the services of the coastal engineering firms Taylor Engineering. Inc. to assist in project management, tracking, monitoring, and assistance with design and permitting and other related future activities. St. Johns County is obtaining local funding for the project from the Tourist Development Council, which provides a dedicated and scheduled funding source. The county includes funds necessary to construct and maintain the project in the county's capital improvement plan.

On recent projects, St. Johns County government has exhibited its professional capabilities to administer large-scale beach nourishment and shore protection projects.

With this funding request, St. Johns County has included a proposed resolution that states its support of the proposed project, willingness to serve as the local sponsor, and ability to provide the local cost share. The St. Johns County BCC will consider this resolution in October 2008. St. Johns County will furnish a copy of the approved resolution to the FDEP.

<u>State Commitment:</u> The state appropriated \$60,094 for project monitoring, beach tilling, and scarp removal last year as its cost share on an anticipated \$152,368.62 local sponsor commitment. Continuation of this federal project relies on the annual commitment from the FDEP and St. Johns County (local sponsor). The FDEP recommends the project in its draft Strategic Beach Management Plan for St. Johns County beaches. In addition, the project areas lie within FDEP-designated critical erosion areas.

<u>Project Performance:</u> The design renourishment interval is five years. The USACE renourished the beach in FY 2004-05. The renourishment occurred soon after the 2003 initial nourishment event to ameliorate the significant beach erosion the project experienced because of the effects of Hurricanes Frances and Jeanne in 2004.

Use of Innovative Technology:

The USACE and the county's consultants will utilize the newest and most innovative technologies

available for this project.

USE OF PROGRAM FUNDS: Funds requested for FY2009 – 10 will support the design phase of the next nourishment cycle of the project.

ST JOHNS COUNTY SHORE PROTECTION PROJECT

Phase	4	2009-2010				
	Location	Federal	State	Local	Total \$0 \$844,000	
Feasibility	R137-R151	\$0	\$0	\$0	\$0	
Design	R137-R151	\$700,000	\$57,000	\$87,000	\$844,000	
Construction	R137-R151	\$0	\$0	\$0	\$0	
Monitoring	R137-R151	\$0	\$62,000	\$93,000	\$155,000	
Total	R137-R151	\$700,000	\$119,000	\$180,000	\$999,000	

Phase		2010-2011				
	Location	Federal	State	Local	Total \$0 \$0 \$16,080,000 \$0	
Feasibility	R137-R151	\$0	\$0	\$0	\$0	
Design	R137-R151	\$0	\$0	\$0	\$0	
Construction	R137-R151	\$12,800,000	\$1,294,000	\$1,986,000	\$16,080,000	
Monitoring	R137-R151	\$0	\$0	\$0	\$0	
Total	R137-R151	\$12,800,000	\$1,294,000	\$1,986,000	\$16,080,000	

Phase		2011-2012				
	Location	Federal	State	Local	Total \$0 \$0 \$0	
Feasibility	R137-R151	\$0	\$0	\$0	\$0	
Design	R137-R151	\$0	\$0	\$0	\$0	
Construction	R137-R151	\$0	\$0	\$0	\$0	
Monitoring	R137-R151	\$0	\$62,000	\$93,000	\$155,000	
Total	R137-R151	\$0	\$62,000	\$93,000	\$155,000	

SOUTH PONTE VEDRA/VILANO BEACH RESTORATION PROJECT

PROJECT DESCRIPTION: The South Ponte Vedra and Vilano Beach region (R70 to R120) has

experienced long term beach erosion. Resolution 2007-160 was adopted by the St Johns County Board

of County Commissioners to act on behalf of the South Ponte Vedra Beach/Vilano Beach Restoration

Association (SPVBVBRA) as "Local Sponsor" to obtain funding from the Florida Department of

Environmental Protection (FDEP) to complete a Feasibility Study for the Beach frontage between R70

The study will identify areas requiring beach management; conduct engineering, to R120.

environmental, and economic analyses; and preliminary design feasible shore protection projects.

LOCATION: St. Johns County — R-84 through R-94 and R109 to R117

PROJECT EVALUATION:

Severity of Erosion: This project will determine the severity of erosion. In general, the project will seek

to mitigate damage caused by continual erosion and damage from frequent storms. According to

Dean et al. (1998) (Dean, R.G., Cheng, J., and Malakar, S. 1998. Characteristics of the Shore

Change Along Sandy Reaches of the State of Florida: An Atlas. Florida Sea Grant), the average rate

of erosion for R-84 - R-94 from 1970 to 1992 equals -0.6 ft/year and from 1993 to 2007 -3.6 ft/yr; and

for R-109 - R-117 from 1970 to 1992 equals -2.1 ft/yr and 1993 to 2007 equals -0.5 ft/year. Notably,

recent northeaster storm and hurricane activity have caused severe erosion to occur in the South Ponte

Vedra Beach area that threatens private development and State Road A1A.

Benefits: Upland property owners will receive storm damage protection; all county residents will

receive economic benefits through tourism. The coastal highway (Scenic AIA) will continue to serve as

an evacuation route.

Public beach access within the project areas consists of the beach, access points at GTM-NERR and

walkover, South Ponte Vedra Beach Recreation Area and walkover, and the North Beach Park and

walkover. The FY2009 - 10 budget request provides a map which identifies public beach access

points with associated parking, and drive-on ramps within the project areas and is attached in the

appendix of this document. Threatened and endangered marine turtles utilize the entire project areas

for nesting purposes; however, they do not lie within a designated marine turtle refuge.

13

St. Johns County beaches are popular both for out of state tourists and inland state residents. Two distinct beach seasons exist. One season begins in fall/winter for out of state beachgoers and the other season begins in summer for in-state beachgoers escaping the heat of the central Florida region. With over 42 miles of beaches, St. Johns County provides an exceptional recreation benefit to the state and an outstanding economic benefit to the local communities.

Federal Funding: Federal funding is not part of this project.

Local Commitment: St. Johns County has retained the services of the coastal engineering firms PBS&J, Inc. to assist in project management, tracking, monitoring, and assistance with design and permitting and other related future activities. St. Johns County is obtaining local funding for the project from SPVBVBRA, "Homeowners", and FDEP which provides a funding source to complete the scoped study.

On recent projects, St. Johns County government has exhibited its professional capabilities to administer large-scale beach nourishment and shore protection projects.

With this funding request, St. Johns County has included a proposed resolution that states its support of the proposed project, willingness to serve as the local sponsor, and ability to provide the local cost share. The St. Johns County Board of County Commissioners (BCC) will consider this resolution in October 2008. St. Johns County will furnish a copy of the approved resolution to the FDEP.

State Commitment: The state earmarked for the feasibility study last year \$140,000 as its cost share. Continuation of this project relies on annual commitments from the FDEP and SPVBVBRA with St. Johns County acting as its local sponsor. The FDEP recommends the project in its draft Strategic Beach Management Plan for St. Johns County beaches. In addition, the project areas lie within FDEP-designated critical erosion areas.

Project Performance: The county will optimize all projects for best performance.

<u>Use of Innovative Technology:</u> The USACE will utilize the newest and most innovative technologies available for this feasibility study.

USE OF PROGRAM FUNDS: St. Johns County will continue to seek reimbursement of the project funds to support the study.

South Ponte Vedra Beach, Vilano Beach, Home Owners Restoration Study

Phase		2009-2010				
	Location	Federal	State	Local	Total	
Feasibility	R84-R94, R110-R117	\$0	\$0	\$0	\$0	
Design	R84-R94, R110-R117	\$0	\$600,000	\$600,000	\$1,200,000	
Construction	R84-R94, R110-R117	\$0	\$0	\$0	\$0	
Monitoring	R84-R94, R110-R117	\$0	\$0	\$0	\$0	
Total	R84-R94, R110-R117	\$0	\$600,000	\$600,000	\$1,200,000	

Phase		2010-2011				
	Location	Federal	State	Local	Total	
Feasibility	R84-R94, R110-R117	\$0	\$0	\$0	\$0	
Design	R84-R94, R110-R117	\$0	\$0	\$0	\$0	
Construction	R84-R94, R110-R117	\$0	\$16,000,000	\$16,000,000	\$32,000,000	
Monitoring	R84-R94, R110-R117	\$0	\$0	\$0	\$0	
Total	R84-R94, R110-R117	\$0	\$16,000,000	\$16,000,000	\$32,000,000	

Phase		2011-2012				
	Location	Federal	State	Local	Total	
Feasibility	R84-R94, R110-R117	\$0	\$0	\$0	\$0	
Design	R84-R94, R110-R117	\$0	\$0	\$0	\$0	
Construction	R84-R94, R110-R117	\$0	\$0	\$0	\$0	
Monitoring	R84-R94, R110-R117	\$0	\$100,000	\$100,000	\$200,000	
Total	R84-R94, R110-R117	\$0	\$100,000	\$100,000	\$200,000	

APPENDIX A

South Ponte Vedra Beach/Vilano Beach/ Summer Haven Beach Restoration Data

APPENDIX B

St Johns County Shore Protection Project

APPENDIX C

South Ponte Vedra Beach/Vilano Beach HOMEOWNERS Restoration Data