



Beach Management Funding Assistance Program
Local Government Funding Request
Fiscal Year 2023/2024
Beach Projects Application

PART I: GENERAL INFORMATION

Local Sponsor St. Lucie County Erosion District

Federal ID Number (FEID) 59-6000835

Primary Contact Name Joshua Revord

Title Sr. Coastal Engineer

Mailing Address Line 1 3071 Oleander Ave.

Mailing Address Line 2

City Fort Pierce, Florida

Zip Code 34982

Telephone Number 772-462-1269

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Additional Contact Information

N/A

PART II: CERTIFICATION

I hereby certify that all information provided with this application is true and complete to the best of my knowledge.

Signature of Local Sponsor

Electronic or scanned signatures accepted.

Printed Name

Joshua Revord

Date 7/29/2022



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PART III: EVALUATION CRITERIA

1. Project Name: (as listed in the Strategic Beach Management Plan)

South St. Lucie County Beach Nourishment

2. Project Description: Include county, location with reference to DEP range monuments, brief project history, and description of proposed activities.

Protection of the upland development along the southern Atlantic shoreline of St. Lucie County is critical due to the historical and continuing erosion. Beach erosion has been exasperated by the high frequency of storms and recent hurricane activity. The erosional impacts due to the Ft. Pierce Inlet may also have some far-reaching effects in this area.

In November 2002, the U.S. Army Corps of Engineers (Corps) completed a "Section 905(b) analysis for a "St. Lucie County, Florida – Hurricane and Storm Damage Reduction Study" including the Study Area - from just south of Blind Creek (R-77) to the Martin County Line (R-115). This reconnaissance report recommended that the "study proceed into the feasibility phase." In 2004, the Corps initiated a Federal Feasibility Study of the Study Area. Shortly afterwards, the Corps re-scoped the Federal project and approved it as part of their 3x3x3 plan; receiving federal funding to move the study forward. The South St. Lucie, Florida Storm Risk Management Project Feasibility Study was then completed, received a signed Chief's Report on December 15, 2017, and ultimately federal Congressional authorization in the 2018 WRDA Bill.

While in the feasibility phase, interim storm events impacted South County Beaches requiring the County to address its beach erosion. Responding to the immediate needs, St. Lucie County, with support from the State of Florida and local stakeholders, initiated construction of a one-time non-federal restoration project in April 2013. The project consisted of the nourishment of 3.4-miles of FDEP designated "critically eroded" Atlantic shoreline from FDEP monument R-98 to the Martin County line (R-115). The project included placement of 635,164 cubic yards (pay quantity) of beach compatible sand from St. Lucie Shoal. A near-shore limestone boulder mitigation reef was completed in the summer of 2015 to offset permitted Project impacts.

In October 2016 Hurricane Matthew impacted St. Lucie County and a claim for the damaged beach was filed and eventually dismissed by FEMA, with the exception of some sea oat replacement. Subsequently, Hurricane Irma impacted St. Lucie County in September/October of 2017, when approximately 374,000 cubic yards of sand was documented to have been lost from the active profile adjacent to the 2013 project area. As a result, the County worked with FEMA representatives to develop a draft Project Worksheet (RFI: PA-04-FL-4337-PW-00567 / 25105 - Beach Erosion) for restoring the beach at an estimated cost of \$12,672,087. The draft PW was submitted to FEMA on January 22, 2018, where after further review it was obligated and then subsequently de-obligated (due to a perceived duplication of Federal Benefits - 2018 USACE Federal Project Authorization). The County has since completed initial construction of the federal St. Lucie County, Florida Coastal Storm Risk Management project (May of 2022). FDEP Grant 20SL3 includes state funding for (Year 1) post-construction physical and biological monitoring (summer 2023). FDEP assistance is now being pursued for Year 2 post-construction physical and biological monitoring (Summer 2024).



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3. Use of Requested Program Funds: Provide a brief description of tasks to be completed in each requested phase (Feasibility, Design, Construction, Monitoring, or USACE Multiphase). Indicate which tasks are cost reimbursement from previous fiscal years.

New Funding Request (Monitoring): Annual post-construction physical and biological monitoring (2024 event - Year 2), including tilling and escarpment removal which are required by permit.

4. Map: Provide as an attachment. The map(s) of the project area must be formatted at a minimum of 1" = 200' scale and include a compass rose and legend.

Map elements must include:

1. **Project boundary:** DEP reference monuments and shoreline designated as critically eroded
2. **Eligibility:** Indicate lengths of eligible shoreline based on criteria outlined in Chapter 62B-36.007, F.A.C.
 - a. Beach access locations: indicate primary or secondary access, and include the shoreline length, number and location of auto parking spaces, mass transit stops, bike parking spaces, and public restroom facilities within 1/4 mile walking distance of each access
 - b. Public lodging establishments: include the length fronting the project shoreline, and include the length of street-side frontage for lodging within 1/4 mile walking distance of a secondary beach access location
3. **Recreational benefits:** Comprehensive list of current land use designations of properties fronting the project shoreline
4. **Value of upland property:** Include one-quarter mile buffer and provide a comprehensive list of the values of properties (data from year 2021) that are enclosed or intersected by the buffer. The 2021 property value tax roll data and ArcGIS shapefiles can be obtained from the Department of Revenue website: https://floridarevenue.com/property/Pages/DataPortal_RequestAssessmentRollGISData.aspx. See Guidance Document for more information.

5. Project length: Total restored project length (in feet) of the critically eroded area (as listed in the Strategic Beach Management Plan).

17,741 Linear Feet



- **Location/Access Name:** Use the official name of the park or road that is associated with the public access.
- **DEP Reference Monument:** Use the DEP monument that is closest to the main public access location.
- **Type of Access:** Indicate Primary or Secondary beach access in accordance with the definitions in Chapter 62B-36, F.A.C.
- **Width of Access/Frontage:** The length of the legal boundary (in feet) of the public access or lodging along the beach project shoreline. For public lodging establishments that do not front the beach, indicate the street-side length of the legal property boundary (in feet) that is used as the main access to the establishment.
- **Number of Eligible Units:** A unit is defined as one automobile parking space, one rental unit in a public lodging establishment, one mass transit stop, or four bicycle parking spots.
- **Additional Width from Eligible Units:** Total distance (feet) added to the Width of Access/Frontage. If there are multiple types of eligibility units used for this calculation, show the calculation separately for each.
- **Total Eligible Shoreline:** Sum of the Width of Access/Frontage and Additional Width from Eligible Units columns. Eligible shorelines cannot overlap.
- **Website Link for DBPR License:** Provide the link to the Department of Business and Professional Regulation (DBPR) website for proof of licensure for any public lodging establishments used for eligibility or the Recreational Benefits ranking criteria.

[illegible]



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- 7. Schedule and Budget:** Provide as a separate attachment, if needed. Clearly indicate project phase: Feasibility (F), Design (D), Construction (C), Monitoring (M), or USACE Multiphase (USACE). Include the year of post-construction monitoring in the description.
- **Cost Reimbursement:** Specify eligible costs incurred during the three years prior to the current application's fiscal year that are not in a current DEP agreement and have not been reimbursed (this includes fiscal years 20/21, 21/22, and 22/23). Eligible costs will be added to the current funding request.
 - **Current and Future Costs:** Specify eligible costs for the current application's fiscal year that are not in a current DEP agreement and have not been reimbursed as well as the estimated costs for the next 4 years. Note: If Construction costs are requested in the current fiscal year, then the Year 1 Post-Construction Monitoring costs will be added to the current funding request.

Fiscal Year	Project Phase	Description	Federal Cost	State Cost	Local Cost	Total Cost
20/21	N/A	N/A				
20/21	N/A	N/A				
20/21	N/A	N/A				
21/22	N/A	N/A				
21/22	N/A	N/A				
21/22	N/A	N/A				
22/23	N/A	N/A				
22/23	N/A	N/A				
22/23	N/A	N/A				
23/24	Monitoring	Year 2 (2024) - Post-Construction Physical and Biological Monitoring (+ Tilling & Escarpment)	0	195,705	254,295	450,000
23/24	N/A	N/A				
23/24	N/A	N/A				
24/25	Monitoring	Year 3 (2025) - Post Construction Physical and Biological Monitoring (+ Tilling & Escarpment)	0	195,705	254,295	450,000
24/25	N/A	N/A				
24/25	N/A	N/A				



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Fiscal Year	Project Phase	Description	Federal Cost	State Cost	Local Cost	Total Cost
25/26	N/A	N/A				
25/26	N/A	N/A				
25/26	N/A	N/A				
26/27	Monitoring	Year 5 (2027) Physical Monitoring - Per Permit	0	19,571	25,430	45,000
26/27	N/A	N/A				
26/27	N/A	N/A				
27/28	N/A	N/A				
27/28	N/A	N/A				
27/28	N/A	N/A				

8. Tourism-related impacts: Criteria is calculated by the Department using 2021 data. For reference, tax data can be obtained from the Department of Revenue website: https://floridarevenue.com/taxes/pages/colls_from_7_2003.aspx. See Guidance Document for more information.

- ☐ Current funding request includes construction and year one post-construction monitoring
- ☐ Project is managed by two or more counties

Additional comments

N/A; Monitoring Only

9. Federal involvement: The documentation to verify authorization, federal cost share percentage, and status of funding award must be provided with the application materials for the award of points.

Is the project Federally authorized by the USACE?

☐

Authorization Year:

Expiration Year:

Does this project have a signed USACE Chief's report or Civil Works Congressional authorization for the requested phase?

☐

USACE federal cost share percentage for this project (excluding FCCE):



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Select all that apply for the requested project phase(s) and include documentation with application materials.

- ☐ Executed USACE project agreement
- ☐ Included in USACE work plan
- ☐ Approved FEMA Project Worksheet
- ☐ Included in Congressional Appropriations Act
- ☐ Other documentation:

N/A; Monitoring Only

10. Storm damage reduction benefits: Criteria is calculated by the Department.

What is the volume (cy) of advanced nourishment lost since the last sand placement event of a beach restoration or nourishment project as measured above the Mean High Water contour? Data should be consistent with the annual post-construction monitoring reports.

N/A; Monitoring Only

For restoration projects, what is the historical erosion rate?

N/A; Monitoring Only

11. Cost effectiveness: Criteria is calculated by the Department. A project design analysis and supporting documentation must be provided with the application materials for the award of points. See Guidance Document for more information.

What is the proposed sand placement volume (cy)?

N/A; Monitoring Only

What is the nourishment interval (years)?

N/A; Monitoring Only

Select all that apply for the current project funding request:

- ☐ Enhanced longevity: Propose structural or design components that could extend the beach nourishment interval
- ☐ Dune addition: Incorporate new or enhanced dune structures or new or existing dune restoration and revegetation projects
- ☐ Innovative technology: Propose innovative technologies designed to reduce project costs
- ☐ Regionalization: Two or more local sponsors manage projects together or projects propose regional sediment management strategies to conserve sand resources or reduce project costs

Additional comments
for storm damage
reduction benefits and
cost effectiveness

N/A; Monitoring Only



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12. Previous state commitment

Has the Department previously reviewed, approved, and cost-shared on a feasibility or design phase for this project?

Has the current proposed project phase(s) received a partial state appropriation within 3 years of phase completion?

Additional comments N/A; Monitoring Only

13. Accessible beach area: Criteria is calculated by the Department. Provide additional information for consideration.

Describe the landward and seaward edge of the accessible beach width

N/A; Monitoring Only

Provide the project boundaries (R-monuments)

N/A; Monitoring Only

Provide citations of reference sources

N/A; Monitoring Only

14. Recreational benefits: Provide the percentage of linear footage within the project boundaries which is zoned recreational or open space; for commercial use; or to allow for public lodging establishment, or the equivalent. Provide additional documentation and DBPR website link in a separate attachment, if needed.

N/A; Monitoring Only

15. Mitigation of inlet effects: Criteria is calculated by the Department.

Additional comments N/A; Monitoring Only

16. Successive unfunded requests

Is the current proposed project phase(s) a successive, unfunded request? If so, how many years of successive request(s) is the current application?

Does the successive request add the construction phase?



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17. Environmental habitat enhancement: Criteria is calculated by the Department. See Guidance Document for more information.

Is the project within a designated critical habitat area for threatened or endangered species that is subject to extensive shoreline armoring?

Is the project within a non-designated area where extensive shoreline armoring threatens the habitat of threatened or endangered species?

If yes to either of the above, does the project exceed best management practices to incorporate turtle-friendly designs and management strategies to protect resources or benefit critical habitat preservation?

Provide an explanation and supporting documentation for the strategies which exceed best management practices

N/A; Monitoring Only

18. Readiness to construct

Does the project have an active state permit?

Does the project have an active federal permit?

Permit number

Permit number

Authorization date

Authorization date

Expiration date

Expiration date

Have all necessary easements been acquired for the upcoming or proposed construction phase?

Has the necessary local funding been secured for the proposed project? If so, provide a copy of the draft Resolution. The signed Resolution is due by October 5, 2022.

Is an Erosion Control Line established along the project length?

Additional comments for readiness to construct

N/A; Monitoring Only



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Provide additional information and comments below or attach supporting documents.

N/A; Monitoring Only