



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



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

PART III: EVALUATION CRITERIA

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

Ft. Pierce Shore Protection Project

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

The Ft. Pierce Shore Protection Project is an extension of a federally authorized project and consists of the restoration and maintenance of 2.3 miles of Atlantic shoreline in Ft. Pierce, St. Lucie County (R-34 through R-46). Initial restoration of the project area began in 1971 with the construction (718,000 cubic yards) of a 1.3-mile segment (R-34 through R-41) immediately south of the Ft. Pierce Inlet. Prior to the expiration of the federal project life (1985), a second restoration (346,000 c.y.) was completed in 1981. Later, Congress reauthorized (WRDA, 1996) the project life to the year 2020. Subsequently, WRDA 2018 provided for a six (6) year project life extension through November 2026. Since 1999, fifteen (15) shoreline nourishments were undertaken that included placement of approximately 5.6 million c.y. of beach compatible material. Eleven (11) of these events (5.15 million c.y.) included sand from an offshore shoal (Capron), one (1) event with sand (164,000 cy) from federal inlet maintenance dredging, two (2) emergency truck haul event with sand (62,700 c.y. (2011) and 81,000 c.y. (2020)) from upland sand sources, and one (1) event with beneficially used, beach quality sand (74,326 c.y.) dredged from the Atlantic Intracoastal Waterway (2017 F.I.N.D. Project). St. Lucie County currently anticipates the next Federal nourishments in the spring of 2023. The present long-term management plan for restoration of the entire 2.3-mile shoreline (R-34 through R-46) consists of sand placement in the original northern 1.3-mile segment, creating a natural feeder beach for the southerly one-mile extension.

The 2014 federal WRDA Bill provided local sponsors the ability to undertake various federal studies on their own. This is the case for the Ft. Pierce General Re-evaluation Report (GRR), which the County had taken full control of in order to expedite the completion. The draft GRR was submitted to the ASA's Office (Civil Works) in March of 2017 with the intent on providing justification for 1) a new 50-year federal project life and 2) shoreline structures along the northern segment of the beach to combat the high erosion rate. After multiple RAI's, meetings, and discussions regarding the project, it was determined that the final version of the GRR report was to be approved as a new (modified) project under Section 203 of the Water Resources Development Act (WRDA) of 1986, as amended by Section 1014(a) of the Water Resources Reform and Development Act (WRRDA) of 2014 (33 U.S.C. § 2231). The final Section 203/GRR report was submitted to the Assistant Secretary of the Army (Civil Works) on June 7, 2018. This report then went on to be conditionally approved by Congress in WRDA 2020. Currently, the County is waiting for USACE funding to transition the report into the Planning, Engineering, and Design (PED) phase. We anticipate a future cost share agreement with the USACE to transition the study into full Corps control.

The Fort Pierce Inlet Sand Trap (Phase I) project has been completed and the County will begin implementing physical monitoring protocols to document its effectiveness over time.

Annual physical and biological monitoring events are required to maintain permitted general and specific conditions.



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

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), 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).

7,045 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]



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

- 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						
21/22	N/A	N/A				
21/22	N/A	N/A				
21/22						
22/23						
22/23	N/A	N/A				
22/23	N/A	N/A				
23/24	Monitoring	2024 Annual Physical and Biological Monitoring	0	150,000	150,000	300,000
23/24						
23/24	N/A	N/A				
24/25	Monitoring	2025 Annual Physical and Biological Monitoring	0	150,000	150,000	300,000
24/25	Construction	Construction Administration and USACE Design Assistance	0	40,000	40,000	80,000
24/25	USACE Multi-Phase	2025 Federal Shore Protection Project	9,331,200	1,334,400	1,334,400	12,000,000



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

Fiscal Year	Project Phase	Description	Federal Cost	State Cost	Local Cost	Total Cost
25/26	Monitoring	2026 Annual Physical and Biological Monitoring	0	150,000	150,000	300,000
25/26						
25/26						
26/27	Monitoring	2027 Annual Physical and Biological Monitoring	0	175,000	175,000	350,000
26/27	Construction	Construction Administration and USACE Design Assistance	0	50,000	50,000	100,000
26/27	USACE Multi-Phase	2026/2027 Federal Shore Protection Project and Coastal T-Groin Structures (Section 203)	16,619,200	5,690,400	5,690,400	28,000,000
27/28	Monitoring	2028 Annual Physical and Biological Monitoring	0	175,000	175,000	350,000
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):



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

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



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

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?



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

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



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

Provide additional information and comments below or attach supporting documents.

N/A; Monitoring Only