



Beach Management Funding Assistance Program
Local Government Funding Request
Fiscal Year 2022/2023
Beach Projects Application

PART I: GENERAL INFORMATION

Local Sponsor

Federal ID Number (FEID)

Primary Contact Name Title

Mailing Address Line 1

Mailing Address Line 2

City Zip Code Telephone Number

Email Address

Additional Contact Information

Please Cc: Paula Berntson Paula.Berntson@brevardfl.gov on email communications.

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 Date



Beach Management Funding Assistance Program
Local Government Funding Request
Fiscal Year 2022/2023
Beach Projects Application

PART III: EVALUATION CRITERIA

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

Brevard County Shore Protection Project Mid Reach

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

This project consists of beach restoration along the 7.8 mile Mid Reach of the Atlantic Ocean shoreline in Brevard County. The project is authorized by Congress as the Brevard County Federal Shore Protection Project. The Mid Reach segment (R75.4-R118.3) is fully authorized by Congress after final approval of the General Reevaluation Report (GRR) in September 2014. The Project's 50 year Project Partnership Agreement with the US Army Corps was executed on August 31, 2016. The Mid Reach commences at R-75.4, at the southern boundary of Patrick Air Force Base, and extends 7.8 miles to R-118.3, abutting the northern end of the South Reach federal shore protection project.

The Mid Reach was nourished under emergency CCCL permits in 2005 restoring much of the damage from Hurricanes Charlie, Francis and Jeanne primarily with FDEP funds but supplemented with a combination of county and FEMA funding. This project constructed a recreational beach seaward of the dune as authorized by FDEP permit. The Mid Reach was renourished in early 2008 with funding assistance from FDEP using a CCCL permit, and again with category G funding from FEMA in 2009. In 2013-14 the Mid Reach was renourished with funding assistance from FDEP using a CCCL permit. In 2018 the Mid Reach was again renourished with funding assistance from FEMA and FDEP. In total, Brevard County has placed 970,843 of fill in the Mid Reach between 2005 and 2017 prior to initiation of sand placement through the federal Shore Protection Project.

A larger federal project for the Mid Reach shoreline was determined to be feasible by the US Army Corps of Engineers (Corps) through approval of a General Re-evaluation Report (GRR) in September 2014. In 2016 the Project Partnership Agreement (PPA) was executed by Brevard County and the Department of the Army allowing construction of the Mid Reach Federal Shore Protection Project to begin. After execution of the PPA the Army Corps awarded a contract for construction of the required mitigation reef. Reef construction began in the summer of 2017 and was substantially completed in June 2019. The County was successful in 2019 securing additional federal appropriations to complete construction of Army Corps Coastal Flood Control Project, Mid Reach sand placement phase. The Mid Reach initial USACE nourishment began in the fourth quarter of 2019 under a contract with Dutra Dredging and was completed in early May 2020 placing 397,335 CY of sand.

In order to minimize impact to near shore rock habitat the Mid Reach project uses a narrow beach berm and associated 3-year renourishment interval. The initial renourishment for the project is scheduled to begin in 2022.



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Local Government Funding Request
Fiscal Year 2022/2023
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.

In the Design Task requested funding will be used for pre-construction engineering and design of the coming 2022 renourishment, permit renewal, as well as legal and engineering expenses associated with easement acquisition, and financial settlement with property owners once value of five remaining easements is determined. Brevard County successfully obtained approximately 200 of the required easement through voluntary donation by property owners, while the owners of the final five parcels would not provide voluntary easements. Brevard successfully obtained these easements through the condemnation process, allowing initial construction of the project to proceed in 2019. Since that time landowners have successfully appealed the condemnation and Brevard County is working with the USACE to find alternate easement and/or PCA language that will allow a second condemnation effort to be successful. Based on the Courts decision and guidance, Brevard is confident of success in the second condemnation but the case and settlement require funding.

In the Construction Task Brevard is seeking funds to proceed with the first renourishment of the Mid Reach. Based on the planned three year nourishment interval, and discussion with the USACE, we expect the Corps to begin contracting the work in late 2021 or 2022 with sand placement completed by 2023. The amount requested accounts for that construction funding which remains in active grants. Construction funding will also be used to fund required monitoring during the construction year and one year following.

Requested Monitoring funds will be used for the third year of post construction monitoring associated with initial nourishment completed in 2020.

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 2020) that are enclosed or intersected by the buffer. The 2020 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).

40656



- **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 2022/2023
Beach Projects Application

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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 19/20, 20/21, and 21/22). 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
19/20						
19/20						
19/20						
20/21						
20/21						
20/21						
21/22						
21/22						
21/22						
22/23	Design	PED, permit renewal, and final easement acquisition settlement		800,000	800,000	1,600,000
22/23	Construction	Renourishment of the Mid Reach and associated construction monitoring and QAQC	8,000,000	4,000,000	4,000,000	16,000,000
22/23	Monitoring	required monitoring for 2019 nourishment		200,000	200,000	400,000
23/24	Monitoring	required monitoring for 2022 renourishment		300,000	300,000	600,000



Beach Management Funding Assistance Program
Local Government Funding Request
Fiscal Year 2022/2023
Beach Projects Application

Fiscal Year	Project Phase	Description	Federal Cost	State Cost	Local Cost	Total Cost
23/24						
23/24						
24/25	Monitoring	required monitoring for 2022 renourishment		300,000	300,000	600,000
24/25						
24/25						
25/26	Construction	Mid Reach Renourish	9,900,000	5,050,000	5,050,000	20,000,000
25/26	Monitoring	required monitoring for 2025 renourishment		300,000	300,000	600,000
25/26						
26/27	Monitoring	required monitoring for 2025 renourishment		300,000	300,000	600,000
26/27						
26/27						

8. Tourism-related impacts: Criteria is calculated by the Department using 2020 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

Brevard Tourism tax data is not as up to date on this website as some counties . Please assure no "zero" months (not reported yet) are included when determining revenue.



Beach Management Funding Assistance Program
Local Government Funding Request
Fiscal Year 2022/2023
Beach Projects Application

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):

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:

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.

For restoration projects, what is the historical erosion rate?

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)?

What is the nourishment interval (years)?

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



Beach Management Funding Assistance Program
Local Government Funding Request
Fiscal Year 2022/2023
Beach Projects Application

Additional comments for storm damage reduction benefits and cost effectiveness

The Mid Reach design incorporates a dune to allow maximum sand placement volume while minimizing impact to nearshore rock. This was deemed the most cost effective way to build the project since dune placement does not incur an associated mitigation cost yet still provides the necessary shore protection benefit.

12. Previous state commitment

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

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

Additional comments

The state has a long history of funding assistance to develop and construct the Mid Reach Federal Shore Protection Project.

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

Design Profile MHWL to the edge of dune vegetation or + 14' contour. Nearshore rock forces a narrow berm but easements assure public access from MHWL to the +14' contour or edge of vegetation.

Provide the project boundaries (R-monuments)

75.4 to 118.3

Provide citations of reference sources

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.

39.5%



Beach Management Funding Assistance Program
Local Government Funding Request
Fiscal Year 2022/2023
Beach Projects Application

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

Additional comments

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?

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?

Yes

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?

Yes

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

The Brevard County Mid Reach is considered critical habitat for Loggerhead (threatened) and Green (endangered) sea turtles. The county hosts world renowned numbers of sea turtle nests. Brevard County insisted on a turtle friendly berm slope in the Mid Reach as we have on other projects. The Mid Reach currently has 4550 feet of armored shoreline, and only active sand placement since 2005 has kept the length of armor from increasing. Continued maintenance of the shoreline through sand placement is the only tool available to avoid additional armor in the future.

The projects mitigation reef structure was also specifically designed to accommodate use by marine turtles and has proven highly successful in this regard.

18. Readiness to construct

Does the project have an active state permit?

Yes

Does the project have an active federal permit?

N/A

Permit number

0254479-001-JC

Permit number

federal project so no permit required

Authorization date

December 30, 2009

Authorization date

Expiration date

December 30, 2024

Expiration date

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



Beach Management Funding Assistance Program
Local Government Funding Request
Fiscal Year 2022/2023
Beach Projects Application

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 September 21, 2021.

Yes

Is an Erosion Control Line established along the project length?

Yes

Additional
comments for
readiness to
construct

All 200+ required easements were obtained in 2019, five through condemnation. Since that time the five condemned easement were lost to a successful appeal. The County is working with the Corps to address conflicting Corps' language that allowed the successful appeal and will re-file a condemnation case in coming months to successfully obtain the easements again prior to the coming construction. Failing this, the project may be constructed by skipping these non-easement parcels that are isolated at the south end, until condemnation is completed.

Provide additional information and comments below or attach supporting documents.



Beach Management Funding Assistance Program
Local Government Funding Request
Fiscal Year 2022/2023
Beach Projects Application