



Beach Management Funding Assistance Program
Local Government Funding Request
Fiscal Year 2022/2023
Beach Projects Application
Non-Federal Beaches

PART I: GENERAL INFORMATION

Local Sponsor **Manatee County**

Federal ID Number (FEID) **59-6000727**

Primary Contact Name **Charlie Hunsicker**

Title **Director**

Mailing Address Line 1 **Parks & Natural Resources Department**

Mailing Address Line 2 **5502 33rd Avenue Drive West**

City **Bradenton**

Zip Code **34209**

Telephone Number **941-737-4765**

Email Address **charlie.hunsicker@mymanatee.org**

Additional Contact Information

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 **Charlie Hunsicker**

Date



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PART III: EVALUATION CRITERIA

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

Anna Maria Island Beach Nourishment (Projects not covered under Federal authorization)

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

The Anna Maria Island shoreline extends between Florida Department of Environmental Protection (FDEP) monument R-1 (at the north end of the island) and R-41 (at the south end of the island). The non-federal project area includes the Coquina Beach renourishment between FDEP monuments R-33 and R-41.5 (and associated artificial reefs constructed as mitigation), the Longboat Pass jetty and associated geotextile tube at the south end of the island, and the Cortez Groins that were removed and re-constructed in 2016.

The federally authorized Manatee County Shore Protection Project area (also referred to as the Central Beach Nourishment Project) extends between R-12 and R-36. The USACE renourishment of the federal Shore Protection Project began in July 2020 using the Passage Key Inlet ebb shoal as the sand source. The federal portion of the project (R-12 to R-36) was completed on October 15, 2020. At the request of Manatee County, the USACE added the Coquina Beach nourishment as 'Additional Work' onto the construction project and contract. The costs for the Coquina Beach portion are 100% non-federal. The Coquina Beach 'Additional Work' portion was complete in December 2020.

Following the USACE construction, Manatee County completed the FEMA funded Coquina Beach Storm Damage Restoration Project between February and March 2021 to replace the combined damages of Hurricane Hermine and Hurricane Irma. This project utilized Longboat Pass as its sand source. The next Coquina Beach nourishment from the Passage Key sand source is planned for 2030/2031. This is slightly beyond the 8-year nourishment interval; however, for planning purposes, the project is aligned with the federal project nourishment to consider constructing the projects consecutively for cost savings. Physical and environmental monitoring of the current project will continue until then. Design, engineering and permitting for the next project will occur in the years prior to the 2030-2031 construction event.

The County is currently planning for three structural projects to be built in 2022/2023: Coquina Beach Stabilization, the Longboat Pass Jetty Rehabilitation, and an additional mitigative artificial reef. Future investigation of the borrow source and application for a new Coquina Beach Nourishment DEP permit is delegated to the years following the structural projects.

The Coquina Beach Shoreline Stabilization and Longboat Pass Jetty Reconstruction Feasibility Study is nearly complete and next the County is moving into final design and permitting for these structures and the artificial reef project. The County is considering simultaneously bidding and constructing these three structural projects to save mobilization and material costs. This will be evaluated as the feasibility study is finalized. The projects are further described below.



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1. Coquina Beach Stabilization

The existing Coquina Beach structures include 18 groins approximately 90 feet in length between R-36 and R-41. The groins serve to retain the beach fronting Gulf Drive south of 13th Street South. The present condition of the existing groins is poor; the structures are degrading and pose a hazard to the beach going community. The County is developing a feasibility study to rehabilitate, remove, and/or replace the Coquina Beach groins and verify alternative solutions suitable for the area in consideration of ongoing coastal processes, beach stabilization, and public use. The feasibility study is being conducted in combination with the Longboat Pass Jetty feasibility study described below due to their proximity and need to consider the potential for combined effects of the structures on the coastal system.

The Coquina Beach feasibility study is near completion and the report is being developed for FDEP review. The feasibility study considers the results of numerical modeling for the protection and performance of the shoreline as well as the County's public use and beach safety priorities. The County has worked closely with the beach lifeguards to evaluate the public safety and access to nearshore waters by emergency personnel as it pertains to the alternatives evaluation.

The preliminary alternatives screening suggests that removal of the existing groins and installation of a modest nearshore breakwater field along approximately the northern half of Coquina Beach may be a viable alternative. If feasible, the stone from the existing groins may be repurposed as core stone in the replacement structures and/or utilized as part of the Longboat Pass jetty rehabilitation.

The completion of the feasibility study is anticipated for 2021. Construction funding from the County is available for FY 2021/2022 with cost savings projected based on the assumption of combining construction of multiple structural projects.

The following is our understanding of the funding status of the task associated with this project:

- The design and permitting phase for the Coquina Beach Stabilization Structures was funded in Agreement 20ME2.
- The next phases for plans, specifications, bidding, construction, and construction administration are included in the request for FY 2022/2023.



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2. Longboat Pass Jetty

The Longboat Pass Jetty is located at the south end of Coquina Beach on Anna Maria Island, near R-41. The jetty has deteriorated since installation in 1957 and is semipermeable in its current condition.

The County is currently preparing a feasibility study to repair and sand tighten the structure. The feasibility study is being conducted in combination with the Coquina Beach Stabilization Structures feasibility study described above due to their proximity and need to consider the combined effects of the structures on Coquina Beach. The study is currently in the alternatives development phase, and the model calibration is being finalized.

Site observations of the structure have been conducted to evaluate the current condition as a basis for alternatives development. The seaward end of the crib structure has gradually collapsed, allowing the boulders to spread and piles to become exposed and damaged. Three temporary geotextile tubes were installed in a linear fashion immediately adjacent along the north side of the jetty in 2012. The tubes demonstrated the effectiveness at sand tightening the structure along the 300-ft section adjacent to the jetty but have been susceptible to degradation over the years. For example, the seaward portion has experienced damage and partial deflation from weather and wave action. The landward portion remains intact, but the UV protective coating has degraded.

The alternatives analysis is underway. Preliminary screening indicates that maintaining/repairing the geotextile tube structure and rehabilitating the damaged seaward end of the jetty is a viable alternative with a straightforward approach to extend the life of the existing structure. For example, the rehabilitation of the jetty structure could include leaving the existing crib in place, reworking existing displaced stones into the footprint/core of the structure, and placing additional armor stones to re-establish the original structure dimensions, intent, and integrity.

The County will not pursue an extension to the length of the jetty and the rehabilitation will be generally within the same footprint as the existing jetty. This alternative achieves the conceptual screening criteria of maintaining the shoreline position, sand placement demands, and sand transport into Longboat Pass. The feasibility study will consider the results of the modeling for further evaluation of the protection and performance of the shoreline for refinement of the proposed alternatives.

The completion of the feasibility study is anticipated for 2021 and the rehabilitation of the existing jetty is scheduled for construction planned in FY2022/2023.



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The following is our understanding of the funding status of the task associated with this project:

- **The County is presently completing the feasibility study for the rehabilitation of the Longboat Pass Jetty.**
- **The next phases for design, permitting, construction, and construction administration are included in the request for FY 2022/2023.**
- **At the request of the FDEP, funds related to the construction of this project are being requested in this application for non-federal beaches instead of an inlet application since the jetty serves to stabilize Coquina Beach.**

3. Artificial Reef

Funds related to the construction of this project are included in an existing Agreement (20ME1). The survey phase to map the sediment thickness, including seismic data and jet probe collection, has been completed and is being used to design the boundary or boundaries of rock placement within the surveyed area to proceed with permitting, plans, and specifications. The area is immediately adjacent to the 2011 Artificial Reef in similar water depths. The County intends to construct the artificial reef offshore of Anna Maria Island in conjunction with construction of the Coquina Beach structures and Longboat Pass jetty in FY2022/2023.

The following is our understanding of the funding status of the tasks associated with this project:

- **The design, permitting, construction, immediate post-construction delineation, and 1-year post-construction biological monitoring phases for the artificial reef were funded in Agreement 20ME1.**
- **Continued monitoring will be included in future funding requests.**

Environmental monitoring (Sea turtles and Shorebirds) occurs for the first 3 summers after construction of the Coquina Beach project and turtle monitoring is required every year that the Cortez Groins remain in place. Environmental monitoring for the federal project (R-12 to R-36) is included in the federal LGFR application. The non-federal shoreline includes approximately 39% of the island. Funding through Year 1 has been provided in 20ME2 and funds are being requested for additional years of monitoring. Environmental funds approved for previous monitoring years may need to be divided between federal and non-federal agreements. Environmental monitoring for the non-federal beach projects is planned for:

- **Summer 2021 – Year 1 (FY2020/2021 Funded)**
- **Summer 2022 – Year 2 (FY2021/2022 Funded)**
- **Summer 2023 – Year 3 (FY2022/2023 Funding requested)**



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As stated in the separate LGFR application for the federal project, the County is planning to coordinate with DEP on preparing a comprehensive island-wide Physical Monitoring Plan to satisfy monitoring for all federal and non-federal projects. The physical monitoring for the entire island is included in the separate federal application, and therefore no physical monitoring is shown in the schedule and budget herein. Hardbottom biological monitoring is also included in the federal LGFR application.

Island-wide physical monitoring costs are provided within Manatee County's federal LGFR since the monitoring is required by the permit for that project; however, costs associated with report preparation for the non-federal projects (i.e., Coquina Beach) are included in this non-federal LGFR. The physical monitoring report costs for non-federal projects included in the schedule and budget assumes the following:

- Monitoring will be conducted post-construction in odd-years (1, 3, 5 etc.).
- The County anticipates that Year 1 annual island-wide monitoring for all projects under the forthcoming comprehensive Physical Monitoring Plan will begin in summer 2022 (Funded 20ME2).
- Even-year monitoring (2, 4, 6, etc.) is not required based on the current PMP. Year 2 is Summer 2023 (FY2022/2023), so no funding is requested in this LGFR.
- Year 3 funding will be requested next year.

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.

- Coquina Beach Stabilization (Structures) - Plans, Specs, Bidding, Construction and Construction Phase Services
- Longboat Pass Jetty Reconstruction - Plans, Specs, Bidding, Construction and Construction Phase Services
- Artificial Reef Plans - Monitoring Phase Services
- Environmental Monitoring (sea turtles and shorebirds) for non-federal projects

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



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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.

Project maps and list of property values are attached. Just Values calculated based on the Florida 2020 Department of Revenue Tax Roll Data.

The calculation according to the FDOR 2020 data provided a total of \$75,672,359 Just Value.

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

The entire Anna Maria Island shoreline is critically eroded. The Coquina Beach Project Area extends from R-33 to R-41.5 (7,791 feet = 1.476 miles).

6. **Eligibility:** Required for all beach projects pursuant to Chapter 62B-36.007, F.A.C. Provide as a separate attachment, if needed.
 - 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.

See Attachment 6.



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7. Schedule and Budget:

Year	Proposed Phase	Description	Total Estimated Cost	Federal Cost Share	State Cost Share	Local Cost Share
22/23	Construction	Coquina Beach Stabilization (Structures) Plans, Specs, Bidding, Construction and Construction Phase Services	\$ 2,750,000	\$ -	\$ 1,375,000	\$ 1,375,000
	Construction	Longboat Pass Jetty Reconstruction Plans, Specs, Bidding, Construction and Construction Phase Services	\$ 1,600,000	\$ -	\$ 800,000	\$ 800,000
	Monitoring	Environmental Monitoring (Sea Turtles and Shorebirds) (Year 2 Coquina - Passage Key and Longboat Pass Sources)	\$ 25,200	\$ -	\$ 12,600	\$ 12,600
23/24	Monitoring	Physical Monitoring Non-Federal (Report Only) Year 3	\$ 50,000	\$ -	\$ 25,000	\$ 25,000
	Monitoring	Environmental Monitoring (Sea Turtles and Shorebirds) (Year 3 Coquina - Passage Key and Longboat Pass Sources)	\$ 25,900	\$ -	\$ 12,950	\$ 12,950
	Monitoring	Physical Monitoring - Coquina Beach Stabilization Year 1	\$ 12,000	\$ -	\$ 6,000	\$ 6,000
	Monitoring	Turtle Monitoring - Coquina Beach Stabilization Year 1	\$ 7,300	\$ -	\$ 3,650	\$ 3,650
24/25	Monitoring	Biological Monitoring - Artificial Reef Year 2	\$ 50,000	\$ -	\$ 25,750	\$ 25,750
	Monitoring	Physical Monitoring - Coquina Beach Stabilization Year 2	\$ 12,400	\$ -	\$ 6,200	\$ 6,200
	Monitoring	Turtle Monitoring - Coquina Beach Stabilization Year 2	\$ 7,500	\$ -	\$ 3,750	\$ 3,750
25/26	Monitoring	Biological Monitoring - Artificial Reef Year 3	\$ 51,500	\$ -	TBD	TBD
	Monitoring	Physical Monitoring Non-Federal (Report Only) Year 5	\$ 53,000	\$ -	\$ 26,500	\$ 26,500
	Monitoring	Physical Monitoring - Coquina Beach Stabilization Year 3	\$ 12,800	\$ -	\$ 6,400	\$ 6,400
	Monitoring	Turtle Monitoring - Coquina Beach Stabilization Year 3	\$ 7,700	\$ -	\$ 3,850	\$ 3,850
26/27	Monitoring	Biological Monitoring - Artificial Reef	TBD	\$ -	TBD	TBD
	Monitoring	Physical Monitoring - Coquina Beach Stabilization	TBD	\$ -	TBD	TBD
	Monitoring	Environmental Monitoring (Sea Turtles and Shorebirds)	TBD	\$ -	TBD	TBD



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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
Yes, for the following 2 projects to be constructed in 2022/2023: Coquina Beach Stabilization Structures and Longboat Pass Jetty Rehabilitation.

Additional comments

- **County-wide tourism-related sales tax revenue from July 2019 to June 2020 \$17,796,983.20.**
- **Tourist development tax from July 2019 to June 2020 \$14,218,870.**

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? **No**

Authorization Year:

Expiration Year:

Does this project have a signed USACE Chief's report or Civil Works Congressional authorization for the requested phase? **No**

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

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

X Approved FEMA Project Worksheet (For damages to Coquina Beach. The 2020/2021 Coquina Beach FEMA Repair Project is being constructed under the Longboat Pass Navigational Maintenance Dredging and Beach Nourishment permit).

Included in Congressional Appropriations Act

Other documentation:



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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.

Coquina Beach was nourished in 2020 and 2021. The latest annual monitoring report done was in 2021 and indicated that between September 2017 and January 2021 there was a -15,130 cy loss above MHW and between January 2020 and January 2021 there was a 100,811cy gain above MHW.

For restoration projects, what is the historical erosion rate? **1.9 feet/year**

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)?

Post-Construction Beach Volume:

January 2020 (Pre-Construction) to January 2021 (Post-Construction):

Central Beach (R-12 to R-33.5) = +495,048 cubic yards to DOC

Coquina Beach (R-33.5 to R-41.5) = +124,176 cubic yards to DOC

What is the nourishment interval (years)? **4.5 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

The Longboat Pass Jetty Rehabilitation Project and the Coquina Beach Stabilization Structures project enhance longevity of the Coquina Beach nourishment projects.

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



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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? **Yes**

Has the current proposed project phase(s) received a partial state appropriation within 3 years of phase completion? **No**

Additional comments

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

The total area between the 2019 MHW and the ECL is approximately 315,369 square feet.

Provide the project boundaries (R-monuments)

The Coquina Beach Project Area extends from R-33 to R-41+325. The Coquina Beach Stabilization Structures are located from R-36 to R-41. The Longboat Pass Jetty is located near R-41.

Provide citations of reference sources **FDEP Permit: JCP-298107-004-JC, Longboat Pass Navigational Maintenance Dredging and Beach Nourishment Project. Permitting has not begun for the Coquina Beach Stabilization Structures and Longboat Pass Jetty projects.**

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.

The Cortez Beach Groins area and Coquina Beach is 100% recreational.

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? **No**
If so, how many years of successive request(s) is the current application?

Does the successive request add the construction phase? **No**



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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? **No**

Is the project within a non-designated area where extensive shoreline armoring threatens the habitat of threatened or endangered species? **No**

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

18. **Readiness to construct**

Does the project have an active state permit? **Yes** Does the project have an active federal permit? **Yes**

Permit number **JCP-298107-004-JC**

Permit number **SAJ-2014-00606**

Authorization date **Mar 19, 2015**

Authorization date **Mar 21, 2016**

Expiration date **Mar 19, 2030**

Expiration date **Mar 21, 2031**

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

Has the necessary local funding been secured for the proposed project? **Yes**

If so, provide a copy of the draft Resolution. The signed Resolution is due by November 20, 2020.

Is an Erosion Control Line established along the project length? **Yes**

Additional comments

The above information is for the Coquina Beach FEMA Repair Project conducted under the Longboat Pass Navigational Maintenance and Beach Nourishment Permit.

The Coquina Beach Stabilization Structures and Longboat Pass jetty projects for which funds are requested do not have permits yet.

Provide additional information and comments below or attach separate documents.



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LGFR MAPS



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RESOLUTION