

FY2025/2026 Local Government Funding Request

Final Beach Project Assessment

Project Name	Broward County Shore Protection Project - Segment II
Local Sponsor	Broward County

Initial Assessment	8/23/2024
Group Assessment	8/26/2024
Draft Assessment	9/3/2024
Final Review	10/8/2024

Project Description
The federally-authorized Broward County Shore Protection Project is located between DEP monuments R36 to R41.3 and R51 to R72 in Broward County. The 11.3 mile long shoreline falls between R25 (Hillsboro Inlet) and R85 (Port Everglades Inlet). Segment II encompasses 4.9 miles of this shoreline. Authorization of the project was granted by Section 301 of the 1965 River and Harbor Act, Public Law 89-298. The first restoration took place in 1970 and was followed by at least three nourishments in 1983, 2016 and 2021-2022. Segment II erosional conditions were more fully addressed through an authorized federal Flood Control and Coastal Emergency (FCCE) project, implemented between November 2013 and February 2014. A total of 20,088 reef mitigation modules were installed between 2020-2023. Construction delays led to the FDEP permit granting permission to finish the project using boulders. Mitigation reef construction is anticipated to finish by 2025. April 2022 was the last completed nourishment. The requested funds are for construction of artificial mitigation reef and post-construction monitoring. Staff have determined that 95.0% of the project is eligible for state cost sharing.

Funds will be used for (list project phase, specify which phase is reimbursement, if applicable)
Construction (Mitigation Reef- Current) and Monitoring (Yr 1-3 Post-Con Monitoring- Current & cost reimbursement for FY22/23, FY 23/24, and FY24/25)

State cost share %	47.50%
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Project Budget Table					
	State %	Federal	State	Local	Total
Feasibility	0.00%	\$0	\$0	\$0	\$0
Design	0.00%	\$0	\$0	\$0	\$0
Construction	47.50%	\$1,102,782.51	\$426,852.88	\$471,784.76	\$2,001,420.15
Year 1 Monitoring	47.50%	\$192,902.35	\$74,666.51	\$82,526.14	\$350,095.00
Year 2+ Monitoring	47.50%	\$400,846.44	\$155,155.22	\$171,487.34	\$727,489.00
Total Project Costs		\$1,696,531.30	\$656,674.60	\$725,798.25	\$3,079,004.15

Federal cost share %	55.10%
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Federal agency and description	USACE Authorization and FCCE Authorization
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TOTAL PROJECT SCORE (100 points)	54
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Tier 1

Tourism-related impacts

Return on investment (10 points)	Score	9.5
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Local Sponsor: Project is requesting construction funds.

Department: Only projects requesting construction funds are eligible for the point

Construction + Year 1 Monitoring Cost: \$501,519.39
Value: 571.3

Economic impact (10 points)	Score	5
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Local Sponsor: N/A

Department: Broward County, most current complete calendar data. Tourism-related sales tax data = \$286,502,931.28. County sales tax collections = \$3,068,174,022.00
Value: 9.34

Tier 2

Federal involvement

Federal authorization (5 points)	Score	5
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Local Sponsor: Yes

Department: Verified

Federal cost share (5 points)	Score	4.2
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Local Sponsor: Yes 55.1%

Department: Verified

Federal funds available (5 points)	Score	5
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Local Sponsor: USACE - Congressional Appropriations, Executed USACE project agreement

Department: Project includes partner agreement with federal cost share. Eligible for award of 5 points.

Storm damage reduction benefits

Current conditions (8 points)	Score	5.1
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Local Sponsor: N/A

Department: Beach nourishment was completed in April 2022 with the latest survey received by the Department in May 2024. 77.19% of the 1,309,427.7 cy of advanced nourishment was lost over this interval for a total score of $-\log(1-0.7719) \times 8 = 5.1$.
CEG calculated value: 5.1

Threat to upland development (2 points)	Score	0.2
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Local Sponsor: N/A

Department: The SBEACH model was run using October 2019 survey profiles for the 25-year return interval storm conditions for the beach segments. The model results were overlaid on aerial imagery and showed 779.52 feet of unarmored property was threatened. This equates to 1.7% of the project length. Hence, the value for threat to upland development is 0.2 points.

CEG calculated value: 0.2

Value of upland property (5 points)	Score	4.8
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Local Sponsor:

Department: Calculated by GIS with 2023 data.

Total value: \$16,596,759,600

Cost-effectiveness

Cost/volume/mile/year (10 points)	Score	0
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Local Sponsor: N/A

Department: Construction of mitigation reef. Not eligible for award of points.

Value: 0

Enhanced longevity, dune addition, innovative technology, and regionalization (5 points)	Score	3
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Local Sponsor: None Proposed

Department: Dune addition have been verified by the Department and eligible for 3 points

Tier 3

Previous state commitment

Previously funded phases (1 point)	Score	1
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Local Sponsor: Yes

Department: The department has previously provided cost-share on an approved feasibility study or design phase for this project.

Total amount of previous funding (3 points)	Score	1.4
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Local Sponsor: N/A

Department: Fiscal year 2015/2016 through 2024/2025

Total funds: \$4,528,635.58

Previous partial appropriation (1 point)	Score	0
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Local Sponsor: No

Department: No partial appropriations in 3 previous fiscal year applications, not eligible for the award of point.

Recreational benefits

Accessible beach area (2 points)	Score	1.9
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Local Sponsor: Pompano Beach (R36 to R41.3), Lauderdale by-the-Sea to Fort Lauderdale (R52 to R72)

Department: Calculated by CEG/GIS Staff
Table 1, Summary Of Segment II Beach Nourishment Design Evolution; Broward County Tech Report 1995: States Design Section Width of 100 ft (R36-R43) & 25 ft (R51-R75) as measured from Erosion Control Line

Total area: 1,050,437 sq/ft

Recreational benefits (3 points)	Score	2
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Local Sponsor: 66.50%

Department: Oakland Park (3655 ft), Vista Park (892 ft), Loggerhead Park (1156 ft), Fort Lauderdale Beach (10240 ft), R39 Beach Access (1122 ft), LBTS Beach Access (100 ft). Total 17,165 ft/26,042 ft = 65.91%

Percentage: 65.9%

Mitigation of inlet effects (5 points)	Score	0.8
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Local Sponsor: The Hillsboro Inlet annual bypassing objective is 120,000 cy, and according to the 2020 Strategic Beach Management Plan this objective has been met; however the Broward-Segment II FY 20/21 LGFR funding request was awarded points in this category based on project mitigation for an annual bypassing estimate of 111,375 cy, as reported in 2018 Hillsboro Inlet Bypassing Report (CSI, 2019).

Department: The project is within the influence of the Hillsboro Inlet. Since the IMP adoption in 1997, 16.8% of the bypassing objective has been supplied by construction. $0.168 \times 5 = 0.84063$ points.

CEG calculated value: 0.84

Volume/mile/year (5 points)	Score	0
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Local Sponsor: N/A

Department: Construction funds only for mitigation reef. Not eligible for the award of points.

CEG calculated value: 0

Tier 4

Successive unfunded requests (5 points)	Score	0
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Local Sponsor: No

Department: Verified no successive unfunded requests. Not eligible for award of points.

Environmental habitat enhancement (5 points)	Score	0
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Local Sponsor: The project is within a designated critical habitat area that is subject to extensive shoreline armoring.

Department:

The project boundary intersects critical habitat area. The shoreline is 10.9% armored which is less than the 30% threshold. Therefore, the project is not eligible for the award of 3 points.

Overall readiness to proceed

Readiness to construct (1 point)	Score	1
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Local Sponsor:

N/A

Department:

Eligible for the award of additional point

Active permits (1 point)	Score	1
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Local Sponsor:

State: 0314535-001-JC (exp 01/31/2029)
Fed:SAJ-1999-05545-(8P-GGL) (exp 04/08/2027)

Department:

Verified

Easements acquired (1 point)	Score	1
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Local Sponsor:

Yes

Department:

Verified

Local funds secured (1 point)	Score	1
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Local Sponsor:

Yes

Department:

Signed Resolution was submitted by application deadline.

Erosion Control Line established (1 point)	Score	1
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Local Sponsor:

No

Department:

Verified