

FY2025/2026 Local Government Funding Request

Final Beach Project Assessment

Project Name	Key Biscayne Beach Nourishment Project
Local Sponsor	Village of Key Biscayne

Initial Assessment	8/23/2024
Group Assessment	8/27/2024
Draft Assessment	9/3/2024
Final Review	10/8/2024

Project Description
The Key Biscayne Beach Nourishment Project is located between DEP monuments R101 and R108 in Miami-Dade County. The roughly 6,800 ft long project was initially restored in 1987 and has received six additional renourishments since. The renourishment interval occurs every 3-4 years. The shoreline has suffered significant erosion due to Hurricanes Ian and Nicole and multiple no name storms. The village is exploring new methods to protect the shoreline and upland infrastructure, including and offshore hybrid barrier reef. A hydrodynamic and sediment transport analysis of the shoreline will take place in FY25/26 in preparation. The most recent nourishment completed June 2024. The requested funds are for permit-required first and 2nd year post-construction monitoring and hydrodynamic and sediment transport analysis. Staff have determined that 91.46% of the project is eligible for state cost sharing.

Funds will be used for (list project phase, specify which phase is reimbursement, if applicable)
Feasibility (Hydrodynamic and Sediment Transport Analysis- Current) and Monitoring (Physical and Biological Monitoring- Current & cost reimbursement for FY24/25)

State cost share %	45.73%
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Project Budget Table					
	State %	Federal	State	Local	Total
Feasibility	45.73%	\$0	\$342,975	\$407,025	\$750,000
Design	0.00%	\$0	\$0	\$0	\$0
Construction	0.00%	\$0	\$0	\$0	\$0
Year 1 Monitoring	45.73%	\$0	\$45,730	\$54,270	\$100,000
Year 2+ Monitoring	45.73%	\$0	\$45,730	\$54,270	\$100,000
Total Project Costs		\$0	\$434,435	\$515,565	\$950,000

Federal cost share %	0.00%
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Federal agency and description	N/A
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TOTAL PROJECT SCORE (100 points)	14.8
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Tier 1

Tourism-related impacts

Return on investment (10 points)	Score	0
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Local Sponsor: Project is not requesting construction funds.

Department:

Only projects requesting construction funds are eligible for the point

Construction + Year 1 Monitoring Cost: \$0.00

Value: 0

Economic impact (10 points)	Score	4.6
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Local Sponsor: N/A

Department: Miami-Dade County, most current complete calendar data. Tourism-related sales tax data = \$411,957,261.01. County sales tax collections = \$4,533,110,134.00

Value: 9.09

Tier 2

Federal involvement

Federal authorization (5 points)	Score	0
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Local Sponsor: No

Department: Verified

Federal cost share (5 points)	Score	0
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Local Sponsor: N/A

Department: Verified

Federal funds available (5 points)	Score	0
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Local Sponsor: No

Department: Verified

Storm damage reduction benefits

Current conditions (8 points)	Score	0
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Local Sponsor: Historical erosion rate: 12,000 cy/yr

Department: Beach nourishment was completed in 2024 with no new survey received by the Department.

CEG calculated value: 0

Threat to upland development (2 points)	Score	0
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Local Sponsor: N/A

Department: CEG determined the project protects upland structures from a 25-year storm event.

CEG calculated value: 0

Value of upland property (5 points)	Score	1.3
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Local Sponsor:

Department: Calculated by GIS with 2023 data.

Total value: \$430,472,225

Cost-effectiveness

Cost/volume/mile/year (10 points)	Score	0
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Local Sponsor: Sand placement vol = N/A cy; nourishment int = 3 years

Department: Only projects requesting construction funds are eligible for the award of points.

Value: 0

Enhanced longevity, dune addition, innovative technology, and regionalization (5 points)	Score	3
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Local Sponsor: Enhanced Longevity, Dune Addition, Innovative Technology

Department: Proposed project does not qualify for enhanced longevity or innovative technology. Dune addition has 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	1.3
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Local Sponsor: N/A

Department: Fiscal year 2015/2016 through 2024/2025

Total funds: \$3,986,030.22

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	1.2
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Local Sponsor: R101+750 to R107+750

Department: Calculated by CEG/GIS Staff

Total area: 674,539 sq/ft

Recreational benefits (3 points)	Score	0.4
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Local Sponsor: Recreational: 2.26%, Public Lodging: 59.6%

Department: Silver Sands Hotel (300 ft), Ritz Carlton (586 ft), R105.5 public access area (80 ft). Total 966 ft/6927 ft = 13.9%

Percentage: 13.9%

Mitigation of inlet effects (5 points)	Score	0
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Local Sponsor: Key Biscayne beach is negatively affected by the updrift inlet at Government Cut. This inlet is a littoral barrier to Fisher Island, Virginia Key, and Key Biscayne. No mitigation is in process or has been approved. There is also no inlet management plan for Government Cut

Department: There is not adopted IMP for Government Cut or Bear Cut, therefore not eligible for the award of points.

CEG calculated value: 0

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

Department: Only projects requesting construction funds are eligible for the aware of points.

CEG calculated value: 0

Tier 4

Successive unfunded requests (5 points)	Score	0
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Local Sponsor: N/A

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 not within a designated critical habitat area that is subject to extensive shoreline armoring.

Department: The project boundary intersects critical habitat area. The shoreline is 1.5% 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	0
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Local Sponsor: N/A

Department: Ineligible for the award of additional point

Active permits (1 point)	Score	0
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Local Sponsor: No

Department: Verified

Easements acquired (1 point)	Score	0
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Local Sponsor: N/A

Department: Verified

Local funds secured (1 point)	Score	1
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Local Sponsor: Yes, draft resolution submitted with application.

Department: Signed Resolution was submitted by application deadline.

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

Department:

Verified