

FY2025/2026 Local Government Funding Request

Final Beach Project Assessment

Project Name	Collier County Beach Nourishment Project
Local Sponsor	Collier County

Initial Assessment	8/23/2024
Group Assessment	8/27/2024
Draft Assessment	9/2/2024
Final Review	10/8/2024

Project Description
The Collier County Beach Nourishment Project is located between DEP monuments R22+300' and R37, between R42 and R54+400', and between R58A and R79 in Collier County. This includes three reaches: Vanderbilt Beach, Park Shore, and Naples. A restoration project was completed in 1996. Subsequent nourishments have been completed for this project between 2006 and 2022. Due to Hurricane Ian in 2022, an emergency berm project restored portions of the beach in 2023. The most recent renourishment was completed in 2024 at Park Shore beaches. The requested funds are for design, construction, and monitoring. Staff have determined that 84.76% of the project is eligible for state cost sharing.

Funds will be used for (list project phase, specify which phase is reimbursement, if applicable)
Design(FY24/25 & FY25/26), construction (FY24/25 & FY25/26), and monitoring (yearly monitoring FY25/26).

State cost share %	42.38%
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Project Budget Table					
	State %	Federal	State	Local	Total
Feasibility	0.00%	\$0.00	\$0.00	\$0.00	\$0.00
Design	42.38%	\$0.00	\$382,317.61	\$519,800.39	\$902,118.00
Construction	42.38%	\$0.00	\$3,195,399.45	\$4,344,476.55	\$7,539,876.00
Year 1 Monitoring	0.00%	\$0.00	\$0.00	\$0.00	\$0.00
Year 2+ Monitoring	42.38%	\$0.00	\$194,948.00	\$265,052.00	\$460,000.00
Total Project Costs		\$0.00	\$3,772,665.06	\$5,129,328.94	\$8,901,994.00

Federal cost share %	0.00%
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Federal agency and description	
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TOTAL PROJECT SCORE (100 points)	50.8
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Tier 1

Tourism-related impacts		
Return on investment (10 points)	Score	3.6

Local Sponsor: Project is requesting construction funds.

Department:

Construction + Year 1 Monitoring Cost: \$3,195,399.45

Value: 39.3

Economic impact (10 points)	Score	8.4
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Local Sponsor: N/A

Department: Collier County, most current complete calendar data. Tourism-related sales tax data = \$125,722,838.59. County sales tax collections = \$837,026,969.00

Value: 15.02

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: No

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	8
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Local Sponsor: 0.61ft /yr

Department: Beach nourishment was completed in 2021/2022 with the latest survey received by the Department in January 2024. 148.72% of the 57,012.4 cy of advanced nourishment was lost over this interval for a total score of 8

CEG calculated value: 8

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

Department: The SBEACH model was run using January 2024 survey profiles for the 25-year return interval storm conditions for the beach segments. The model results were overlaid on aerial imagery and showed 12,476.55 feet of unarmored property was threatened. This equates to 26.8% of the project length. Hence, the value for threat to upland development is 2.7 points.

CEG calculated value: 2.7

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

Department: Calculated by GIS with 2023 data.

Total value: \$21,052,474,974.00

Cost-effectiveness

Cost/volume/mile/year (10 points)	Score	3.8
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Local Sponsor: No proposed construction volume listed, nourishment int. = 3 years

Department: Construction cost = \$9,922,476.00, volume = 100,000 cy, length = 5.95 mi,
nourishment interval = 6 yrs

Value: 2.77\$/cy/mi/yr

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

Department: 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	2.4
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Local Sponsor: N/A

Department: Fiscal year 2015/2016 through 2024/2025

Total funds: \$17,864,685.04

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	1.0
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Local Sponsor: Vanderbilt: R22+300 to R37, Park Shore: R42 to R54+400, Naples: R58A to R79, South Naples: R79 to R89

Department: Calculated by CEG/GIS

Total area: 1,641,019 ft²

Recreational benefits (3 points)	Score	1.1
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Local Sponsor: Vanderbilt: 1,866 ft, 12%, Park Shore: 2,544 ft, 20%, Naples: 929 ft, 5%

Department: Vanderbilt: La Playa Resort (600'), Recreational (292'), Ritz Carlton (730'). Total 1,622/14,985 = 11%
Park Shore: Recreation/Commercial (2,580'). Total 2,580/12,976 = 20%
Naples: Edgewater Beach Hotel (265'), Four Seasons Hotel (939'). Total 1,204/19,103 = 6.3%

Percentage: 37.30%

Mitigation of inlet effects (5 points)	Score	5.0
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Local Sponsor: Approximately 37,600 cy were dredged from Doctors Pass and bypassed south with nearshore disposal of Naples Beach in 2018. Utilizing volumes from the Department's Annual Inlet Report (2023) the volume of inlet sandbypassing between 1997 and 2023 has been approximately 7,335 cy/yr. Supplemental nourishment is achieved by Collier County via beach nourishment sand placement events to mitigate for the bypassing deficit.

Department: Computation is based on Doctor's Pass.
The project is within the influence of Doctors Pass. Since the IMP adoption in 1997, 273.5% of the bypassing objective has been supplied by construction. .2735 x 5 =

CEG calculated value: 13.67

Volume/mile/year (5 points)	Score	0.5
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Local Sponsor: N/A

Department: volume = 100,000 cy, length = 31,458 ft
nourishment interval = 6 years

CEG calculated value: 2,797.38 cy/mi/yr

Tier 4		
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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	3
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Local Sponsor: The project is not within a designated critical habitat area that is subject to extensive shoreline armoring. The project proposes a dune addition.

Department: The project boundary intersects critical habitat area. The shoreline is 10.8% armored with the threat to upland structures being 26.84% the total percentage is 37.6% which is greater than the 30% threshold. Therefore, the project is eligible for 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 an additional point

Active permits (1 point)	Score	1
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Local Sponsor: State: 0331817-001-JC (10/2/2030)
Federal: SAJ-2003-12405 (4/6/2031)

Department: Verified

Easements acquired (1 point)	Score	1
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Local Sponsor: Yes

Department: Verified

Local funds secured (1 point)	Score	0
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Local Sponsor: Yes

Department: Signed Resolution was not submitted by application deadline.

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

Department: Verified