

**FY2025/2026 Local Government Funding Request**  
**Final Beach Project Assessment**

|               |                                  |
|---------------|----------------------------------|
| Project Name  | Bonita Beach Nourishment Project |
| Local Sponsor | Lee County                       |

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

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Project Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| The Bonita Beach Nourishment Project is located between DEP monuments R226 and R230 in Lee County. The beach restoration was first completed in December 1995 with subsequent nourishments in 2004 and 2014. The project was impacted by Hurricane Ian in 2022 and several additional tropical cyclones. The next nourishment is planned for FY2024/2025. The requested funds are for construction and post-construction monitoring. Staff have determined that 74.5% of the project is eligible for state cost sharing. |

|                                                                                                              |
|--------------------------------------------------------------------------------------------------------------|
| <b>Funds will be used for (list project phase, specify which phase is reimbursement, if applicable)</b>      |
| Construction (FY24/25 reimbursement) and post-construction monitoring (1 year current FY25/26 reimbursement) |

|                    |        |
|--------------------|--------|
| State cost share % | 37.25% |
|--------------------|--------|

| Project Budget Table       |         |               |                       |                       |                       |
|----------------------------|---------|---------------|-----------------------|-----------------------|-----------------------|
|                            | State % | Federal       | State                 | Local                 | Total                 |
| Feasibility                | 0.00%   | \$0.00        | \$0.00                | \$0.00                | \$0.00                |
| Design                     | 0.00%   | \$0.00        | \$0.00                | \$0.00                | \$0.00                |
| Construction               | 37.25%  | \$0.00        | \$1,167,581.51        | \$1,966,865.49        | \$3,134,447.00        |
| Year 1 Monitoring          | 37.25%  | \$0.00        | \$22,350.00           | \$37,650.00           | \$60,000.00           |
| Year 2+ Monitoring         | 0.00%   | \$0.00        | \$0.00                | \$0.00                | \$0.00                |
| <b>Total Project Costs</b> |         | <b>\$0.00</b> | <b>\$1,189,931.51</b> | <b>\$2,004,515.49</b> | <b>\$3,194,447.00</b> |

|                      |       |
|----------------------|-------|
| Federal cost share % | 0.00% |
|----------------------|-------|

|                                |  |
|--------------------------------|--|
| Federal agency and description |  |
|--------------------------------|--|

|                                         |      |
|-----------------------------------------|------|
| <b>TOTAL PROJECT SCORE (100 points)</b> | 48.2 |
|-----------------------------------------|------|

|               |
|---------------|
| <b>Tier 1</b> |
|---------------|

| Tourism-related impacts          |       |     |
|----------------------------------|-------|-----|
| Return on investment (10 points) | Score | 6.8 |

Local Sponsor:

Project is requesting construction funds.

Department:

**Construction + Year 1 Monitoring Cost:**

\$1,189,931.51

**Value:**

122.5

|                                    |              |     |
|------------------------------------|--------------|-----|
| <b>Economic impact (10 points)</b> | <b>Score</b> | 5.9 |
|------------------------------------|--------------|-----|

**Local Sponsor:**

N/A

**Department:**

Lee County, most current complete calendar data. Tourism-related sales tax data = \$145,777,633.49. County sales tax collections = \$1,340,193,047.00

**Value:**

10.88

## Tier 2

### Federal involvement

|                                         |              |   |
|-----------------------------------------|--------------|---|
| <b>Federal authorization (5 points)</b> | <b>Score</b> | 0 |
|-----------------------------------------|--------------|---|

**Local Sponsor:**

No

**Department:**

Verified

|                                      |              |   |
|--------------------------------------|--------------|---|
| <b>Federal cost share (5 points)</b> | <b>Score</b> | 0 |
|--------------------------------------|--------------|---|

**Local Sponsor:**

No

**Department:**

Verified

|                                           |              |   |
|-------------------------------------------|--------------|---|
| <b>Federal funds available (5 points)</b> | <b>Score</b> | 0 |
|-------------------------------------------|--------------|---|

**Local Sponsor:**

No

**Department:**

Verified

### Storm damage reduction benefits

|                                      |              |     |
|--------------------------------------|--------------|-----|
| <b>Current conditions (8 points)</b> | <b>Score</b> | 7.3 |
|--------------------------------------|--------------|-----|

**Local Sponsor:**

Attached assessment reports were submitted with the application.

**Department:**

Beach nourishment was completed in September 2014 with the latest survey received by the Department in May 2023. 87.9% of the 57,777.9 of advanced nourishment was lost over this interval for a total score of  $-\log(1-0.879) \times 8 = 7.3$

**CEG calculated value:**

7.3

|                                                |              |   |
|------------------------------------------------|--------------|---|
| <b>Threat to upland development (2 points)</b> | <b>Score</b> | 2 |
|------------------------------------------------|--------------|---|

**Local Sponsor:**

N/A

**Department:**

The SBEACH model was run using May 2023 survey profiles for the 25-year return interval storm conditions for the beach segments. The model results were overlaid on aerial imagery and showed 1,721.43 feet of unarmored property was threatened. This equates to 41.9% of the project length. Hence, the value for threat to upland development is 4.2 points.

**CEG calculated value:**

2

|                                            |              |     |
|--------------------------------------------|--------------|-----|
| <b>Value of upland property (5 points)</b> | <b>Score</b> | 0.5 |
|--------------------------------------------|--------------|-----|

**Local Sponsor:**

Department: Calculated by GIS with 2023 data.  
Total value: \$162,692,480.00

#### Cost-effectiveness

|                                   |       |     |
|-----------------------------------|-------|-----|
| Cost/volume/mile/year (10 points) | Score | 5.2 |
|-----------------------------------|-------|-----|

Local Sponsor: Sand placement vol. = 234,000, nourishment int. = 10 years

Construction cost = \$3,134,447.00, volume = 234,000 cy, length = .778 mi,  
nourishment interval = 10 yrs  
Department:  
Value: 1.722 \$/volume/mi/yr

|                                                                                          |       |   |
|------------------------------------------------------------------------------------------|-------|---|
| Enhanced longevity, dune addition, innovative technology, and regionalization (5 points) | Score | 3 |
|------------------------------------------------------------------------------------------|-------|---|

Local Sponsor: Enhanced longevity

Department: Dune addition are verified by the Department and awarded 3 points.

#### Tier 3

#### Previous state commitment

|                                    |       |   |
|------------------------------------|-------|---|
| Previously funded phases (1 point) | Score | 1 |
|------------------------------------|-------|---|

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 | 1.2 |
|---------------------------------------------|-------|-----|

Local Sponsor: N/A

Department: Fiscal year 2015/2016 through 2024/2025  
Total funds: \$3,328,438.00

|                                          |       |   |
|------------------------------------------|-------|---|
| Previous partial appropriation (1 point) | Score | 0 |
|------------------------------------------|-------|---|

Local Sponsor: Yes

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 | 0.2 |
|----------------------------------|-------|-----|

Local Sponsor: 292,500 ft<sup>2</sup>

Department: Calculated by CEG/GIS Staff  
Total area: 293,239 ft<sup>2</sup>

|                                  |       |     |
|----------------------------------|-------|-----|
| Recreational benefits (3 points) | Score | 0.6 |
|----------------------------------|-------|-----|

Local Sponsor: 18.20%

**Department:** Recreational =308' , Commercial 421'  
Total = 729/4,107.20 = 18.6  
**Percentage:** 18.60%

|                                        |       |   |
|----------------------------------------|-------|---|
| Mitigation of inlet effects (5 points) | Score | 0 |
|----------------------------------------|-------|---|

**Local Sponsor:** Project is within the AOI of Big Hickory Pass to the North, a regional inlet management study was just completed.

**Department:** There is not an adopted IMP for Big Hickory Pass, therefore not eligible for the award of points.

**CEG calculated value:** 0

|                             |       |     |
|-----------------------------|-------|-----|
| Volume/mile/year (5 points) | Score | 4.5 |
|-----------------------------|-------|-----|

**Local Sponsor:**

**Department:** Volume = 234,000 cy, Length = 4,107.2 ft,  
Nourishment Interval = 10 yrs

**CEG calculated value:** 30,081.81 cy/mi/yr

#### Tier 4

|                                         |       |   |
|-----------------------------------------|-------|---|
| Successive unfunded requests (5 points) | Score | 0 |
|-----------------------------------------|-------|---|

**Local Sponsor:** No

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

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|----------------------------------------------|-------|---|
| Environmental habitat enhancement (5 points) | Score | 5 |
|----------------------------------------------|-------|---|

**Local Sponsor:** This project is within a non-designated critical habitat area that is subject to extensive shoreline armoring.  
The project area is extensively armored and was without suitable nesting habitat for marine turtles prior to restoration. Enhancement of dune and turtle friendly slope will benefit marine turtle nesting habitat.

**Department:** The project boundary intersects critical habitat area. The shoreline is 53.5% armored which is greater than the 30% threshold. Therefore, the project is eligible for the award of 3 points.

**Department:** The dune enhancement is verified and eligible for the award of 2 additional points.

#### Overall readiness to proceed

|                                  |       |   |
|----------------------------------|-------|---|
| Readiness to construct (1 point) | Score | 1 |
|----------------------------------|-------|---|

**Local Sponsor:** N/A

**Department:** Eligible for the award of additional point.

|                          |       |   |
|--------------------------|-------|---|
| Active permits (1 point) | Score | 1 |
|--------------------------|-------|---|

**Local Sponsor:** State: 0311811-001-JC (6/24/2028)  
Federal: SAJ-2012-00198 (IP-MJD) (9/3/2028)

**Department:** Verified

|                              |       |   |
|------------------------------|-------|---|
| Easements acquired (1 point) | Score | 1 |
|------------------------------|-------|---|

Local Sponsor: Yes

Department: Verified

|                               |       |   |
|-------------------------------|-------|---|
| Local funds secured (1 point) | Score | 1 |
|-------------------------------|-------|---|

Local Sponsor: Yes

Department: Draft Resolution was submitted by application deadline.

|                                            |       |   |
|--------------------------------------------|-------|---|
| Erosion Control Line established (1 point) | Score | 1 |
|--------------------------------------------|-------|---|

Local Sponsor: Yes

Department: Verified