

## FY2022/2023 Local Government Funding Request

### Final Beach Project Assessment

|               |                                     |
|---------------|-------------------------------------|
| Project Name  | Coral Cove Dune Nourishment Project |
| Local Sponsor | Palm Beach County                   |

|                    |           |
|--------------------|-----------|
| Initial Assessment | 8/11/2021 |
| Group Assessment   | 8/25/2021 |
| Draft Assessment   | 8/31/2021 |
| Final Review       | 10/5/2021 |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Project Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| The Coral Cove Dune Nourishment Project consists of the nourishment and maintenance of 1 mile of dunes between DEP monuments R1.1 to R7.6 in Palm Beach County. Since 1989, five dune nourishments have been completed and will continue under Coastal Construction Control Line permitting on a 4-5 year basis. The most recent nourishment was completed in 2014 and the next is scheduled for 2021/2022. The requested funds are for the design, construction, and year 1 post-construction monitoring of the 2021/2022 nourishment. Staff have determined that 100% 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, Construction and Monitoring                                                              |

|                    |        |
|--------------------|--------|
| State cost share % | 50.00% |
|--------------------|--------|

| Project Budget Table       |         |            |                  |                  |                    |
|----------------------------|---------|------------|------------------|------------------|--------------------|
|                            | State % | Federal    | State            | Local            | Total              |
| Feasibility                | 0.00%   | \$0        | \$0              | \$0              | \$0                |
| Design                     | 50.00%  | \$0        | \$15,000         | \$15,000         | \$30,000           |
| Construction               | 50.00%  | \$0        | \$600,000        | \$600,000        | \$1,200,000        |
| Year 1 Monitoring          | 50.00%  | \$0        | \$40,000         | \$40,000         | \$80,000           |
| Year 2+ Monitoring         | 0.00%   | \$0        | \$0              | \$0              | \$0                |
| <b>Total Project Costs</b> |         | <b>\$0</b> | <b>\$655,000</b> | <b>\$655,000</b> | <b>\$1,310,000</b> |

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

|                                |     |
|--------------------------------|-----|
| Federal agency and description | N/A |
|--------------------------------|-----|

|                                         |      |
|-----------------------------------------|------|
| <b>TOTAL PROJECT SCORE (100 points)</b> | 38.1 |
|-----------------------------------------|------|

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| <b>Tier 1</b> |
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| Tourism-related impacts          |       |     |  |
|----------------------------------|-------|-----|--|
| Return on investment (10 points) | Score | 9.3 |  |

**Local Sponsor:** Project is requesting construction funds.

**Department:** Verified

**Construction + Year 1 Monitoring Cost:** \$640,000.00

**Value:** 154.2

|                                    |              |   |
|------------------------------------|--------------|---|
| <b>Economic impact (10 points)</b> | <b>Score</b> | 4 |
|------------------------------------|--------------|---|

**Local Sponsor:** N/A

**Department:** Palm Beach County, 2020 data. Tourism-related sales tax data = \$98,702,867.75. County sales tax collections = \$1,651,762,761.64

**Value:** 5.98

## 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:** N/A

**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> | 8 |
|--------------------------------------|--------------|---|

**Local Sponsor:** N/A

**Department:** The last dune restoration was completed in 2014. As this project is dune restoration rather than beach nourishment, all fill material is considered advanced nourishment. To determine volume of advanced nourishment lost, a pre-construction survey of 2012, a post-construction survey of 2014, and the survey of October 2019 were utilized for monuments R-2 to R-7 within the project boundary. Calculations showed more than 100% have been lost above MHW.

**CEG calculated value:** 100%

|                                                |              |   |
|------------------------------------------------|--------------|---|
| <b>Threat to upland development (2 points)</b> | <b>Score</b> | 0 |
|------------------------------------------------|--------------|---|

**Local Sponsor:** N/A

**Department:** The Department applied the SBEACH model for the 25-year storm conditions, using profiles from the October-2019 SDI survey for R-1 to R-8. The only property threatened is protected by armoring, therefore no award of points.

**CEG calculated value:** 0

|                                            |              |            |
|--------------------------------------------|--------------|------------|
| <b>Value of upland property (5 points)</b> | <b>Score</b> | <b>1.3</b> |
|--------------------------------------------|--------------|------------|

**Local Sponsor:** \$486,470,297

**Department:** Calculated by Department GIS staff with 2020 data.  
**Total value:** \$485,785,735.00

#### **Cost-effectiveness**

|                                          |              |          |
|------------------------------------------|--------------|----------|
| <b>Cost/volume/mile/year (10 points)</b> | <b>Score</b> | <b>5</b> |
|------------------------------------------|--------------|----------|

**Local Sponsor:** Proposed sand placement 42,200 cy; 8 yr nourishment interval

**Department:** Construction cost = \$1,200,000; volume = 42,200 cy; project length = 1.02 miles; nourishment interval = 11 yrs  
**Value:** \$2.53

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

**Local Sponsor:** Dune addition and Regionalization. Regionalization: Palm Beach County collaborated with the Town of Jupiter Island to allow construction access to their Blowing Rocks dune restoration project through Coral Cove Park. The County secured easements and conducted joint community outreach with property owners and Town staff.

**Department:** Eligible for the award of points for dune addition. Additional documentation required to verify project cost savings to be eligible for regionalization points.

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| <b>Tier 3</b> |
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#### **Previous state commitment**

|                                           |              |          |
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| <b>Previously funded phases (1 point)</b> | <b>Score</b> | <b>1</b> |
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**Local Sponsor:** Yes

**Department:** Verified

|                                                    |              |            |
|----------------------------------------------------|--------------|------------|
| <b>Total amount of previous funding (3 points)</b> | <b>Score</b> | <b>0.6</b> |
|----------------------------------------------------|--------------|------------|

**Local Sponsor:** N/A

**Department:** Fiscal year 2012/2013 through 2021/2022

**Total funds:** \$639,358.00

|                                                 |              |          |
|-------------------------------------------------|--------------|----------|
| <b>Previous partial appropriation (1 point)</b> | <b>Score</b> | <b>0</b> |
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**Local Sponsor:** N/A

**Department:** Verified

**Recreational benefits**

|                                         |              |          |
|-----------------------------------------|--------------|----------|
| <b>Accessible beach area (2 points)</b> | <b>Score</b> | <b>0</b> |
|-----------------------------------------|--------------|----------|

**Local Sponsor:** N/A - Dune only project

**Department:** The proposed project only includes a dune and is therefore not eligible for the award of points.

**Total area:** N/A

|                                         |              |            |
|-----------------------------------------|--------------|------------|
| <b>Recreational benefits (3 points)</b> | <b>Score</b> | <b>1.6</b> |
|-----------------------------------------|--------------|------------|

**Local Sponsor:** 54.90%

**Department:** Verified

**Percentage:** 54.90%

|                                               |              |          |
|-----------------------------------------------|--------------|----------|
| <b>Mitigation of inlet effects (5 points)</b> | <b>Score</b> | <b>0</b> |
|-----------------------------------------------|--------------|----------|

**Local Sponsor:** N/A

**Department:** Proposed project is not within the influence of an inlet and therefore not eligible for the award of points.

**CEG calculated value:** 0

|                                    |              |            |
|------------------------------------|--------------|------------|
| <b>Volume/mile/year (5 points)</b> | <b>Score</b> | <b>1.3</b> |
|------------------------------------|--------------|------------|

**Local Sponsor:** N/A

**Department:** Dune maintenance events in Coral Cove that were not storm repairs have occurred in 1989, 1993, 2014, and 2022 (planned) for an 11 year average. The project length is 5,370 feet or 1.02 miles. The planned sand placement volume as stated in the application is 42,200 cy.

**CEG calculated value:** 3,761

**Tier 4**

|                                                |              |          |
|------------------------------------------------|--------------|----------|
| <b>Successive unfunded requests (5 points)</b> | <b>Score</b> | <b>0</b> |
|------------------------------------------------|--------------|----------|

**Local Sponsor:** N/A

**Department:** Verified

|                                                     |              |          |
|-----------------------------------------------------|--------------|----------|
| <b>Environmental habitat enhancement (5 points)</b> | <b>Score</b> | <b>0</b> |
|-----------------------------------------------------|--------------|----------|

**Local Sponsor:** No

**Department:** The project is within a designated critical habitat area, but only 0.06 miles or 5.9% of the shoreline is armored, which is below the 30% threshold to be considered extensive and eligible for points.

**Overall readiness to proceed**

|                                         |       |   |
|-----------------------------------------|-------|---|
| <b>Readiness to construct (1 point)</b> | Score | 0 |
|-----------------------------------------|-------|---|

**Local Sponsor:** N/A

**Department:** No ECL established, therefore not eligible for additional point for this metric.

|                                 |       |   |
|---------------------------------|-------|---|
| <b>Active permits (1 point)</b> | Score | 1 |
|---------------------------------|-------|---|

**Local Sponsor:** Yes, state permit is active. PB-1362 expires 6/29/2022. No federal permit required. A Federalized Dune Annual Construction Contract was executed April 2021 by PBC BOCC for use on this project.

**Department:** Verified

|                                     |       |   |
|-------------------------------------|-------|---|
| <b>Easements acquired (1 point)</b> | Score | 1 |
|-------------------------------------|-------|---|

**Local Sponsor:** Yes, included in application

**Department:** Verified

|                                      |       |   |
|--------------------------------------|-------|---|
| <b>Local funds secured (1 point)</b> | Score | 1 |
|--------------------------------------|-------|---|

**Local Sponsor:** Yes, Draft Resolution included in application

**Department:** Verified - Received signed Resolution 9.14.2021

|                                                   |       |   |
|---------------------------------------------------|-------|---|
| <b>Erosion Control Line established (1 point)</b> | Score | 0 |
|---------------------------------------------------|-------|---|

**Local Sponsor:** No

**Department:** Verified