



Beach Management Funding Assistance Program
Local Government Funding Request
Fiscal Year 2023/2024
Inlet Projects Application

PART I: GENERAL INFORMATION

Local Sponsor

Federal ID Number (FEID)

Primary Contact Name Title

Mailing Address Line 1

Mailing Address Line 2

City Zip Code Telephone Number

Email Address

Additional Contact Information

Facsimile 561-835-4691

PART II: CERTIFICATION

I hereby certify that all information provided with this application is true and complete to the best of my knowledge.

Signature of Local Sponsor

Electronic or scanned signatures accepted.

Printed Name

Date



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PART III: EVALUATION CRITERIA

1. Project Name: As listed in the Inlet Management Plan (IMP) or Strategic Beach Management Plan (SBMP)

Lake Worth Inlet Maintenance

2. Project Description: Include county, location with reference to DEP range monuments, brief project history, and description of proposed activities.

Lake Worth Inlet (also known as Palm Beach Inlet) is a federally-authorized and maintained inlet located between FDEP Range Monuments R-75 and R-76 in Palm Beach County, Florida. A fixed Sand Transfer Plant (STP) was constructed on the north jetty in 1958. It was not operational between May 1990 and May 1996. The Lake Worth Inlet Management Plan was adopted in 1996. A subsequent sediment budget study was completed in 2000, recommending an annual bypassing objective of 202,000 cubic yards. The STP was reconstructed in 2010, replacing the diesel-powered pump with an electric pump. Storm conditions and mechanical issues periodically inhibit sand bypassing activities. Federal maintenance dredging occurs every year to maintain required navigational clearances with placement of beach-compatible material on downdrift beaches when possible. Sand Forepassing of inlet-dredged sand to dunes between R-78 and R-82.2 in Reach 2 has been performed in 2022 with the recent dry beach placement of the Corps' inlet maintenance material. Annual physical, biological, and sea turtle nesting monitoring is conducted as required in the Beach Management Agreement throughout the Palm Beach Island cell.



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3. Use of Requested Program Funds: Provide a brief description of tasks to be completed in each requested phase (Feasibility, Design, Construction, or Monitoring). Indicate which tasks are cost reimbursement from previous fiscal years.

Funds requested for FY 2023/2024 will be used to reimburse the Town with eligible cost share funds (75%) with management of the Lake Worth Inlet.

Monitoring

The Town has agreed to conduct monitoring services pertaining to the Lake Worth Inlet Implementation Plan and the permit issued to the USACE as required by FDEP. The Town provides tilling services, escarpment removal services, and sea turtle nesting monitoring for the USACE, the permittee/authorized entity, for FDEP permit no. 0216012-025-JC.

Activities associated with the Lake Worth Inlet Maintenance Dredging project are also included in the Beach Management Agreement (BMA). As a BMA participant, the Town is required to perform annual biological and physical monitoring events. Annual BMA monitoring implementation occurs in the late summer months.

4. Map: Provide as an attachment.

- **Format:** The project area must be formatted at a minimum of 1" = 200' scale and include a compass rose and legend.
- **Required elements:** Project boundary, DEP reference monuments, shoreline designated as critically eroded, area of inlet influence, and permitted sand bypassing placement area

5. Project length: Total restored project boundary (in feet) as listed in the IMP or SBMP.

5,000 linear feet (R-76 to R-80+350)
(Extended area of 1,600 lf to R-82.2)

6. Schedule and Budget: Provide as a separate attachment, if needed. Clearly indicate project phase: Feasibility (F), Design (D), Construction (C), or Monitoring (M). Include the year of post-construction monitoring in the description.

- **Cost Reimbursement:** Specify eligible costs incurred during the three years prior to the current application's fiscal year that are not in a current DEP agreement and have not been reimbursed (this includes fiscal years 20/21, 21/22, and 22/23). Eligible costs will be added to the current funding request.
- **Current and Future Costs:** Specify eligible costs for the current application's fiscal year that are not in a current DEP agreement and have not been reimbursed as well as the estimated costs for the next 4 years. Note: If Construction costs are requested in the current fiscal year, then the Year 1 Post-Construction Monitoring costs will be added to the current funding request.

Fiscal Year	Project Phase	Description	Federal Cost	State Cost	Local Cost	Total Cost
20/21						
20/21						
20/21						
21/22						
21/22						
21/22						



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Fiscal Year	Project Phase	Description	Federal Cost	State Cost	Local Cost	Total Cost
22/23						
22/23						
22/23						
23/24	Monitoring	IMP/BMA Physical, Sea Turtle, Bio., Tilling, and Escarpment Removal				697,000
23/24	Construction	Sand Forepassing				700,000
23/24						
24/25	Monitoring	IMP/BMA Physical, Sea Turtle, Bio., Tilling, and Escarpment Removal				708,000
24/25						
24/25						
25/26	Monitoring	IMP/BMA Physical, Sea Turtle, Bio., Tilling, and Escarpment Removal				719,000
25/26	Construction	Sand Forepassing				742,000
25/26						
26/27	Monitoring	IMP/BMA Physical, Sea Turtle, Bio., Tilling, and Escarpment Removal				769,000
26/27						
26/27						
27/28	Monitoring	IMP/BMA Physical, Sea Turtle, Bio., Tilling, and Escarpment Removal				781,000
27/28	Construction	Sand Forepassing				787,000
27/28						



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7. Sand reaching the inlet

Provide the estimated annual quantity (cubic yards) of beach quality sand reaching the updrift boundary of the improved jetty or inlet channel:

8. Severity of erosion

Provide the annual bypassing objective (cubic yards/year) adopted by the IMP or SBMP or as determined by a Department-approved study:

9. Balancing the sediment budget

Provide the current annual average of bypassed material (cubic yards) since the adoption of a bypass objective:

Provide a brief description of when the last sediment budget engineering analysis was completed for the inlet and area of inlet influence. Discuss any proposals to update the sediment budget.



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Historical bypassing volumes: In the table below, provide the annual bypassing volumes (cubic yards/year), for the previous ten years (from the last calendar year or the most recent calculation). Attach additional documentation as needed.

Year	Quantity Bypassed (cy) - Sand Transfer Plant	Quantity Bypassed (cy) - Dredging	Dredge Location	Placement or Disposal Area
2010	200100	17773		
2011	130800	144138		
2012	66400	69275		
2013	39500	424819		
2014	13300	0		
2015	93100	88724		
2016	61000	164816		
2017	132800	0		
2018	116300	339788		
2019	100400	0		
2020	50000	168026		
2021	173200	0		
Total per method	1176900	1417359		

Total bypass volume: 2594259

Years since IMP adoption: 26

Annual average bypass: 216188.25

Bypass objective: 202000

Percentage of bypass objective: 107%



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10. Increased bypassing and cost-effectiveness

Provide the estimated increase in annual bypassing of sand (cubic yards/year) proposed for the project:

100% of the bypassing objective is being and has been met.

Provide the estimated shortfall of annual bypassing of sand (cubic yards/year) within the inlet system:

100% of the bypassing objective is being and has been met.

Is the proposed project requesting construction phase funds for a major inlet management project component?

If yes, and for the award of points for the cost-effectiveness of using inlet sand criteria, provide an opinion of probable cost per unit volume of the inlet and all other sand sources, certified by a licensed professional engineer.

11. Inlet Management Plans

Select all that apply:

- ☒ **Existing IMP:** The proposed project has an existing IMP or completed Inlet Management Study that has been approved by the Department.
- ☐ **Updated IMP:** The Department has received and approved an update to an existing IMP in the form of a current Inlet Management Study/sediment budget analysis within the previous five years, or there is an update proposed to an existing IMP in the current application.
- ☐ **New IMP:** A new inlet management study is proposed for submission to the Department for an adoption in an IMP.

12. Enhanced longevity of proximate beach nourishment projects

Annualized beach nourishment volume of proximate beach nourishment project:

13. Active permits

Does the project have an active state permit?

Permit number:

Authorization date:

Expiration date:

Does the project have an active federal permit?

Permit number:

Authorization date:

Expiration date:



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14. Federal funds available

Does the proposed project have federal funds available? If so, provide supporting documentation.

Yes

15. Secured local funds

Has the necessary local funding been secured for the proposed project? If so, provide a copy of the draft Resolution. The signed Resolution is due by October 5, 2022.

Yes

Additional
comments

The Corps funds the dredging efforts within the Lake Worth Inlet. The Town funds the monitoring and Sand Forepassing efforts.