

FY2023/2024 Local Government Funding Request

Final Inlet Project Assessment

Project Name	Jupiter Inlet Management Plan Implementation
Local Sponsor	Jupiter Inlet District

Initial Assessment	8/9/2022
Group Assessment	9/1/2022
Draft Assessment	9/14/2022
Final Review	10/20/2022

Project Description
Jupiter Inlet is located between DEP monuments R12 and R13 in Palm Beach County and is maintained by the Jupiter Inlet District (JID). The sand bypassing project involves periodic maintenance dredging of approximately 60,000 cy/yr of sand from the 6.58 acre sand trap. The IMP was adopted in 1997 and has been dredged 21 times since IMP adoption. Sand from the inlet and sand trap are placed south of the inlet, between R13 and R19. The most recent inlet dredging event was completed in April of 2022, and placed 71,330 cy of material between FDEP reference monuments R-13 and R-16. The requested funds are for design, construction, and environmental monitoring associated with maintenance dredging of approximately 60,000 cy of sand by hydraulic cutter section dredge from the sand trap inside Jupiter Inlet and beach placement. Staff have determined that the project is eligible for a 50% state cost share.

Funds will be used for (list project phase, specify which phase is reimbursement, if applicable)
Design (current & reimbursement for FY 21/22) and construction (current & reimbursement for FY 20/21, FY 21/22).

State cost share %	50.00%
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Project Budget Table					
	State %	Federal	State	Local	Total
Feasibility	0.00%	\$0	\$0.00	\$0.00	\$0.00
Design	50.00%	\$0	\$44,739.00	\$44,739.00	\$89,478.00
Construction	50.00%	\$0	\$1,106,885.70	\$1,106,885.70	\$2,213,771.40
Year 1 Monitoring	0.00%	\$0	\$0.00	\$0.00	\$0.00
Year 2+ Monitoring	0.00%	\$0	\$0.00	\$0.00	\$0.00
Total Project Costs		\$0	\$1,151,624.70	\$1,151,624.70	\$2,303,249.40

Costs associated with jetty design and repair have been removed as not eligible for state cost-share, and requested monitoring funds have been moved to the construction task as they are during construction monitoring tasks.

TOTAL PROJECT SCORE (80 points)	43.5
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Sand reaching the inlet (10 points)	Score	10
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Local Sponsor:

230,000 cy/yr

Department: Value obtained from Jupiter IMP sediment budget (1997)
Volume of sand: 230,000 cy/yr

Severity of erosion (10 points)	Score	7.5
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Local Sponsor: 75,000 cy/yr

Department: Value obtained from the Annual Inlet Report
Target bypassing volume: 75000 cy/yr

Balancing the sediment budget (10 points)	Score	10
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Local Sponsor:

79,605 cy average annualized bypassed material negating years without a bypass dredging event; 1997 IMP adopted by DEP minimum annual bypass 75,000 cy/yr.

Department: The annual target bypassing is 75,000 cy/yr to the south. For the 25 year period from adoption of the IMP in 1997 through 2022, the inlet has bypassed on average 79,605 cy, or 106.1% of this target.

CEG calculated value: 106.1%

Increased bypassing improvements (10 points)	Score	0
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Local Sponsor: No estimated increase in annual bypassing at this time. No shortfall of annual bypassing.

Department: Increased bypassing has not been proposed therefore not eligible for the award of points.

CEG calculated value: N/A

Cost-effectiveness of using inlet sand (10 points)	Score	0
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Local Sponsor: Not a proposed major inlet management component.

Department: Proposed project does not include the construction of an initial major inlet management project and is therefore not eligible for the award of points.

Inlet Management Plans

Existing IMP (5 points)	Score	5
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Local Sponsor: Existing IMP - adopted 1997

Department: Verified

Updated IMP (5 points)	Score	0
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Local Sponsor: No

Department: Verified

New IMP (10 points)	Score	0
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Local Sponsor: No

Department:

Verified

Enhanced longevity of proximate beach projects (10 points)	Score	5.2
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Local Sponsor: 79,605 cy on average placed annually in the Jupiter-Carlin Beach Project area south of the inlet since IMP adoption (1,990,124 cy placed in total).

Department: Since the 1997 IMP there has been 3,827,392 cy placed on the Jupiter- Carlin Beach Project to the south of the inlet. The bypass amount from the sand trap and AIWW dredging is 1,990,124 cy of this amount which is 52.0% of the total fill amount.

CEG calculated value: 52.0%

Criteria in 161.101(14) applicable to inlets

Active permits (1 point)	Score	1
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Local Sponsor: 0134395-001-JC (exp 3/26/2026)

Local Sponsor: SAJ-1989-00506 (SP-JKA) (exp 12/11/2025)

Department:

Verified

Federal funds available (3 points)	Score	0
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Local Sponsor:

No

Department:

Verified

Total amount of previous state funding (4 points)	Score	2.8
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Local Sponsor:

N/A

Department:

Fiscal year 2013/2014 through 2022/2023

Total funds:

\$1,987,185.00

Secured local funds (2 points)	Score	2
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Local Sponsor:

Yes. Draft resolution was submitted with application.

Department:

Verified - Draft Resolution submitted with application.