

FY2022/2023 Local Government Funding Request

Final Inlet Project Assessment

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

Initial Assessment	8/18/2021
Group Assessment	8/25/2021
Draft Assessment	8/31/2021
Final Review	10/5/2021

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 the sand trap has been dredged 19 times since IMP adoption. Sand dredged from the inlet and sand trap is placed south of the inlet, between R13 and R19. 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, Construction, and Monitoring (FY22/23 and reimbursement for FY21/22)

State cost share %	50.00%
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Project Budget Table					
	State %	Federal	State	Local	Total
Feasibility	0.00%	\$0	\$0	\$0	\$0
Design	50.00%	\$0	\$20,216	\$20,216	\$40,432
Construction	50.00%	\$0	\$395,554	\$395,554	\$791,108
Year 1 Monitoring	50.00%	\$0	\$52,890	\$52,890	\$105,780
Year 2+ Monitoring	50.00%	\$0	\$7,808	\$7,808	\$15,616
Total Project Costs		\$0	\$476,468	\$476,468	\$952,936

TOTAL PROJECT SCORE (80 points)	41.8
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The design and construction costs associated with the north and south jetty maintenance have been removed from the funding request as they are not eligible for state cost share pursuant to Chapter 161.101(13)(i), Florida Statutes.
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Sand reaching the inlet (10 points)	Score	10
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Local Sponsor: 230,000 cy

Department: The volume of sand reaching the updrift boundary of the inlet is 230,000 cy/yr (application and verified in Mehta et al, 1992).

Volume of sand: 230,000

Severity of erosion (10 points)	Score	7.5
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Local Sponsor: Annual bypassing objective: 75,000 cy from IMP

Department: The annual target bypassing is 75,000 cy to the south

Target bypassing volume: 75,000

Balancing the sediment budget (10 points)	Score	10
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Local Sponsor: 70,567 cy average annualized bypassed material negating years without a bypass dredging event; 1997 IMP adopted by DEP minimum annual bypass 75,000 cy/yr

Local Sponsor: Request the inclusion of the sand dredged from the AIWW as it is placed on beaches to the south and contributes to the IMP goals to mitigate erosion caused by the inlet.

Department: The annual target bypassing is 75,000 cy to the south. For the 24 year period from adoption of the IMP in October 1997 through 2021, the inlet has bypassed on average 59,648 cy, or 79.53% of this target.

Department: The Department agrees to include the AIWW bypassing quantities in the calculation. The annual target bypassing is 75,000 cy to the south. For the 24-year period from the adoption of the IMP in October 1997 through 2021 the inlet has bypassed 76,897 cy or 102.53% of this target.

CEG calculated value: 59,648 cy

CEG calculated value: 76,897 cy

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. Not a proposed major initial construction event.

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

CEG calculated value: 0

Cost-effectiveness of using inlet sand (10 points)	Score	0
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Local Sponsor: N/A

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: Annualized beach nourishment volume 71,600 cy
Project shoreline. Of this, 1,950,334 cy of sand has been sourced from the inlet or AIWW, making up 54% of the total fill placed at the Jupiter Carlin Project.

Department: Since the 1997 IMP adoption there has been 3,058,202 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 1,368,302 cy of this amount which is 44.7% of the total fill amount.

Department: Since the 1997 IMP there has been 3,535,136 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 1,845,236 cy of this amount which is 52.2% of the total fill amount.

CEG calculated value: 44.70%

CEG calculated value: 52.20%

Criteria in 161.101(14) applicable to inlets

Active permits (1 point)	Score	1
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Local Sponsor: Yes, FDEP 0134395-001-JC exp 3/26/2026 & USACE SAJ-1989-0056(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	1.1
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Local Sponsor: N/A

Department: Fiscal year 2012/2013 through 2021/2022

Total funds: \$1,518,525.00

Secured local funds (2 points)	Score	2
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Local Sponsor: Yes, draft Resolution submitted with application. Received signed Resolution on 8.30.2021.

Department: Verified