

FY2022/2023 Local Government Funding Request

Final Inlet Project Assessment

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

Initial Assessment	8/6/2021
Group Assessment	8/18/2021
Draft Assessment	8/31/2021
Final Review	9/29/2021

Project Description
The Sebastian Inlet is located between DEP monument R219 in Brevard County and R1 in Indian River County. The Inlet Management Plan (IMP) was adopted in 2000 and includes the shoreline from R215 to R219 in Brevard County and R1 to R17 in Indian River County. The inlet channel, sand trap, and associated structures are managed by the Sebastian Inlet District (District). In 2011, the Dredged Material Management Area (DMMA) was constructed, which allows the District to store more than 30,000 cubic yards of beach-compatible sand for placement on downdrift beaches. Between 2013 and 2021, four nourishment events have been completed using sand from the DMMA. The requested funds are for a feasibility study to update the IMP and year 2 post-construction monitoring from the 2021 construction event. Staff have determined 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)
Feasibility and Monitoring

State cost share %	50.00%
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Project Budget Table					
	State %	Federal	State	Local	Total
Feasibility	50.00%	\$0	\$75,000	\$75,000	\$150,000
Design	0.00%	\$0	\$0	\$0	\$0
Construction	0.00%	\$0	\$0	\$0	\$0
Year 1 Monitoring	0.00%	\$0	\$0	\$0	\$0
Year 2+ Monitoring	50.00%	\$0	\$157,500	\$157,500	\$315,000
Total Project Costs		\$0	\$232,500	\$232,500	\$465,000

TOTAL PROJECT SCORE (80 points)	43.4
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Sand reaching the inlet (10 points)	Score	7.5
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Local Sponsor: 150,000 cubic yards

Department:

Volume changes for each inlet reservoir was determined according to the methods described in the net topographic changes section and input into the Sediment Budget Analysis System (S.B.A.S) program, provided by the Coastal Inlet Research Program. Details of these procedures can be found in the technical report by Rosati et al. 2001. Based on super regional sediment budget calculations described in Zarillo et al, 2007, an initial input value (Qsource) of 150,000 cy/yr. was chosen.

Volume of sand: 150,000

Severity of erosion (10 points)	Score	9
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Local Sponsor: Annual bypassing objective: 70,000 cubic yards

Department: The annual target bypassing is 90,000 cy to the south
Target bypassing volume: 90,000

Balancing the sediment budget (10 points)	Score	6.5
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Local Sponsor: Annual average bypassing since IMP adoption: 50,720 cubic yards

Department: Since the revised bypassing objective of 90,000 cy/yr was established in 2008, there has been an annual bypass volume of 58,916 cy/yr through 2021. Therefore, the bypass rate is 65.46%.
CEG calculated value: 58,916

Increased bypassing improvements (10 points)	Score	0
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Local Sponsor: No increase proposed and no average annual shortfall of bypassing.

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: Proposed project is not requesting construction funds for major inlet management project 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: Yes

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	10
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Local Sponsor: N/A

Department: The Ambersand Project area (R3 to R17) has received 100% of the fill material from inlet bypassing since the 2008 adoption of the bypass objective for the maximum 10 points.

CEG calculated value: 100%

Criteria in 161.101(14) applicable to inlets

Active permits (1 point)	Score	0
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Local Sponsor: Active state, but not active federal permit (in renewal process)

Department: Verified. Not eligible for the award of points.

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	3.4
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Local Sponsor: N/A

Department: Fiscal year 2012/2013 through 2021/2022

Total funds: \$5,311,695.00

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

Department: Draft Resolution was submitted by application deadline.

Department: Signed Resolution submitted for the award of two points.