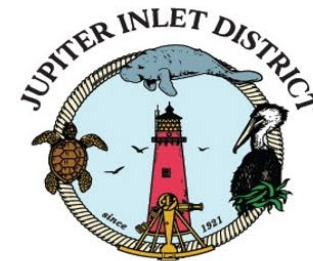




# Jupiter Inlet District Workshop Meeting March 25, 2026



**JOSEPH B. CHAISON, P.E.**  
Executive Director

**JUPITER INLET DISTRICT**  
400 N. Delaware Blvd.  
Jupiter, FL 33458

(561) 746-2223 (office)

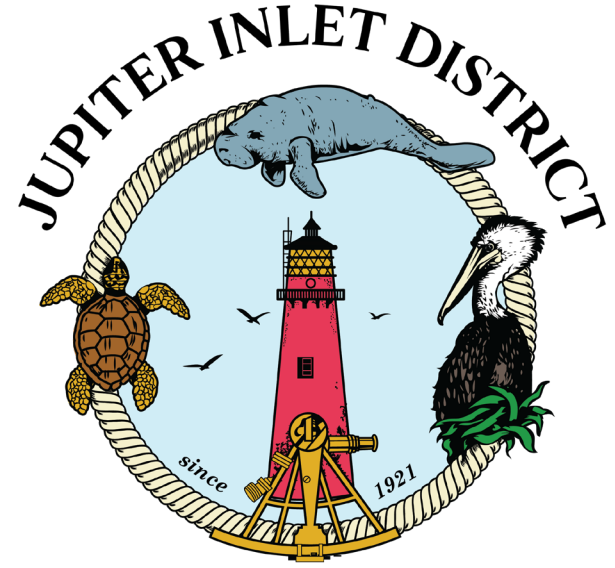
(561) 797-2003 (cell)

JChaison@jupiterinletdistrict.org

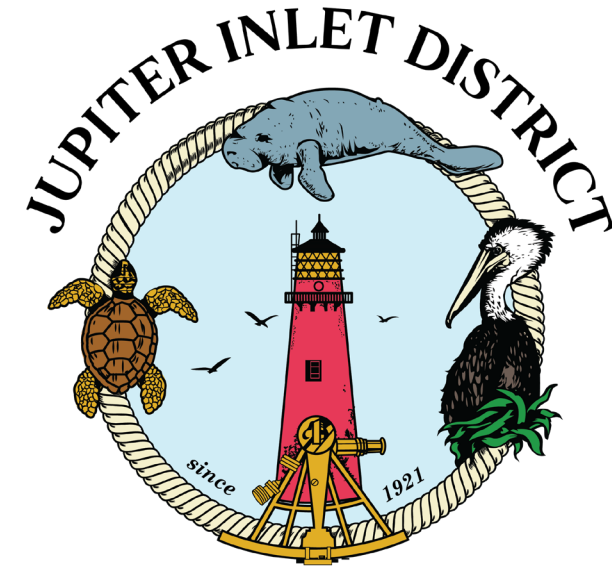
JupiterInletDistrict.org

# Jupiter Inlet Navigation

- Projected project cost
- Permitting recommendations



# Ebb shoal channel dredging – projected construction costs

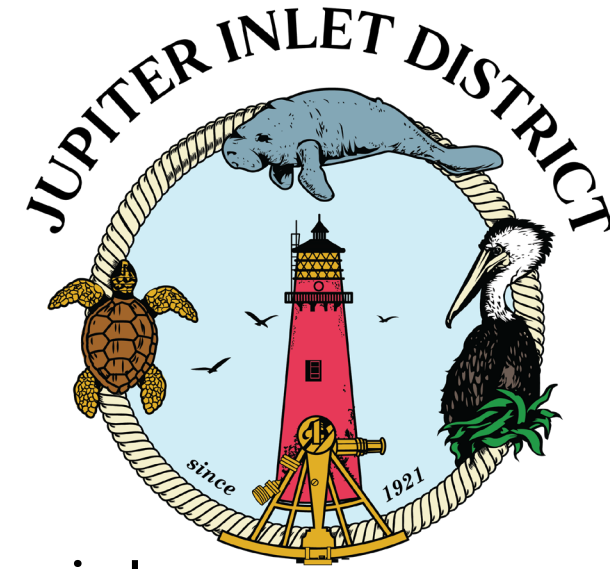


Depth (ft-MLLW)	Width (ft)	Volume (cy)	Mob/Demob \$\$	\$/CY	Dredging \$\$	Other \$\$	Total
-14	200	125,321	\$1,900,000	\$25	\$3,133,025	\$210,000	\$5,243,025
-14	300	191,535	\$1,900,000	\$25	\$4,788,375	\$210,000	\$6,898,375
-17	200	179,460	\$1,900,000	\$25	\$4,486,500	\$210,000	\$6,596,500
-17	300	272,153	\$1,900,000	\$25	\$6,803,825	\$210,000	\$8,913,825

Mob/Demob	\$ 1,900,000	adopts '23-'26 average + 1 Standard Deviation
Other	\$ 210,000	adopts '23-'26 average + 2 Standard Deviations due to ebb shoal complications
\$\$/CY	\$ 25.00	adopts '23-'26 max + 2 Standard Deviations due to ebb shoal complications

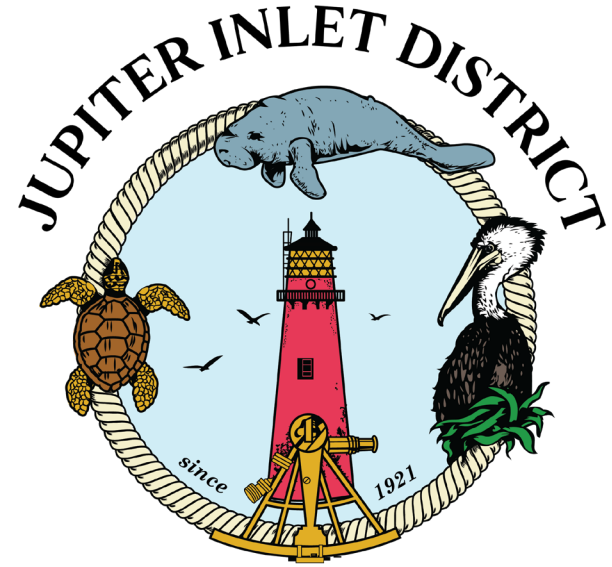
# Permitting recommendations

- Task 1: Pre-application meetings
- Task 2: Data collection and analyses (TBD)
- Task 3: Preliminary dredging design and dredged material management planning
- Task 4: Environmental permitting



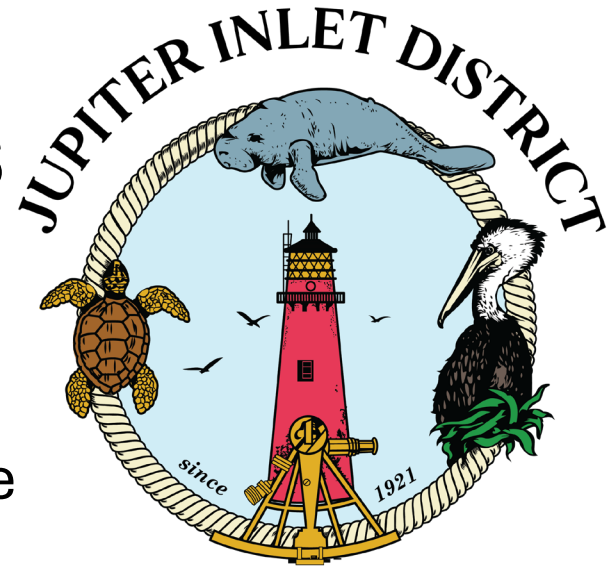
# Task 1: Preapplication meetings

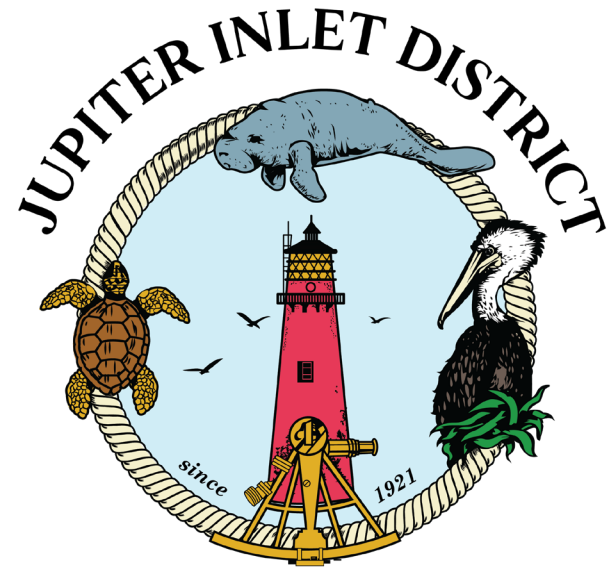
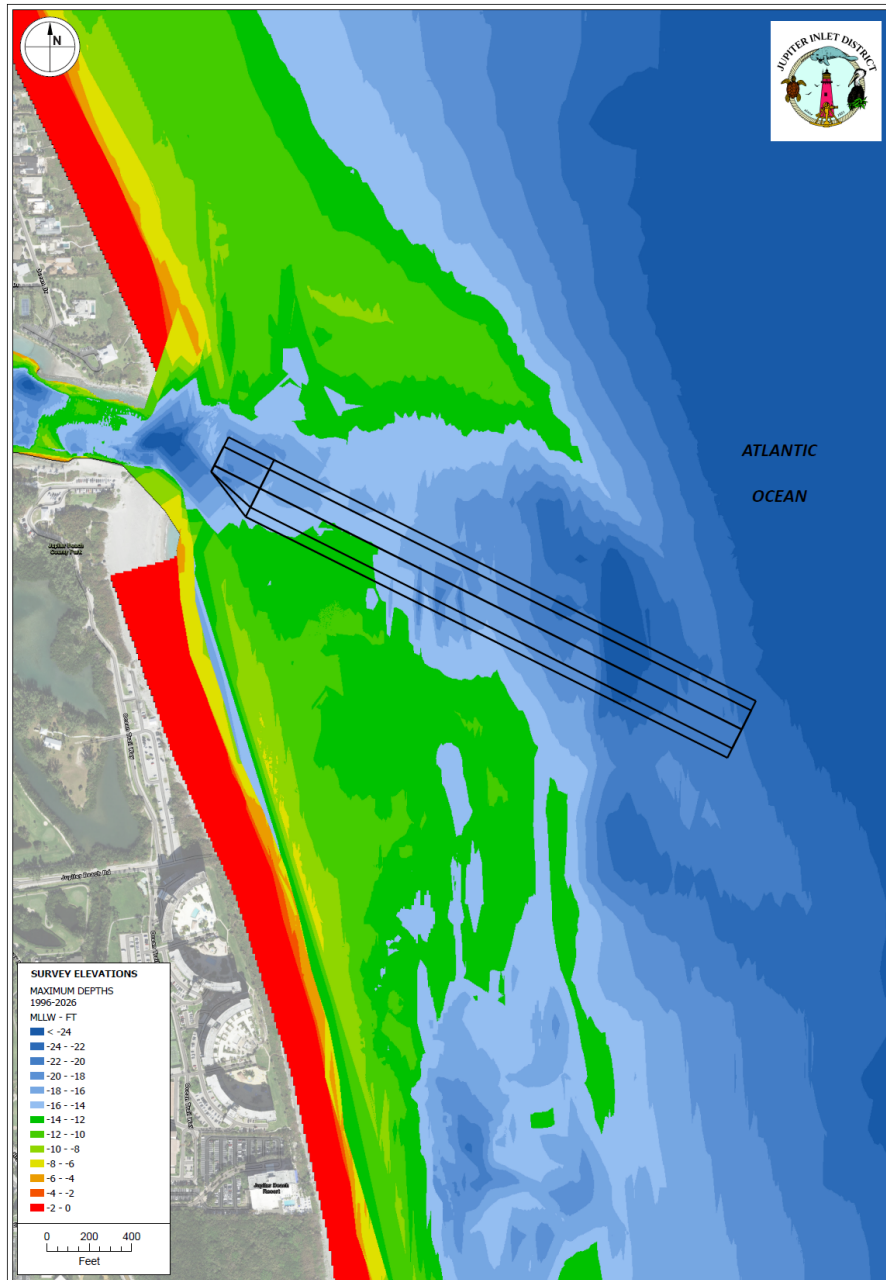
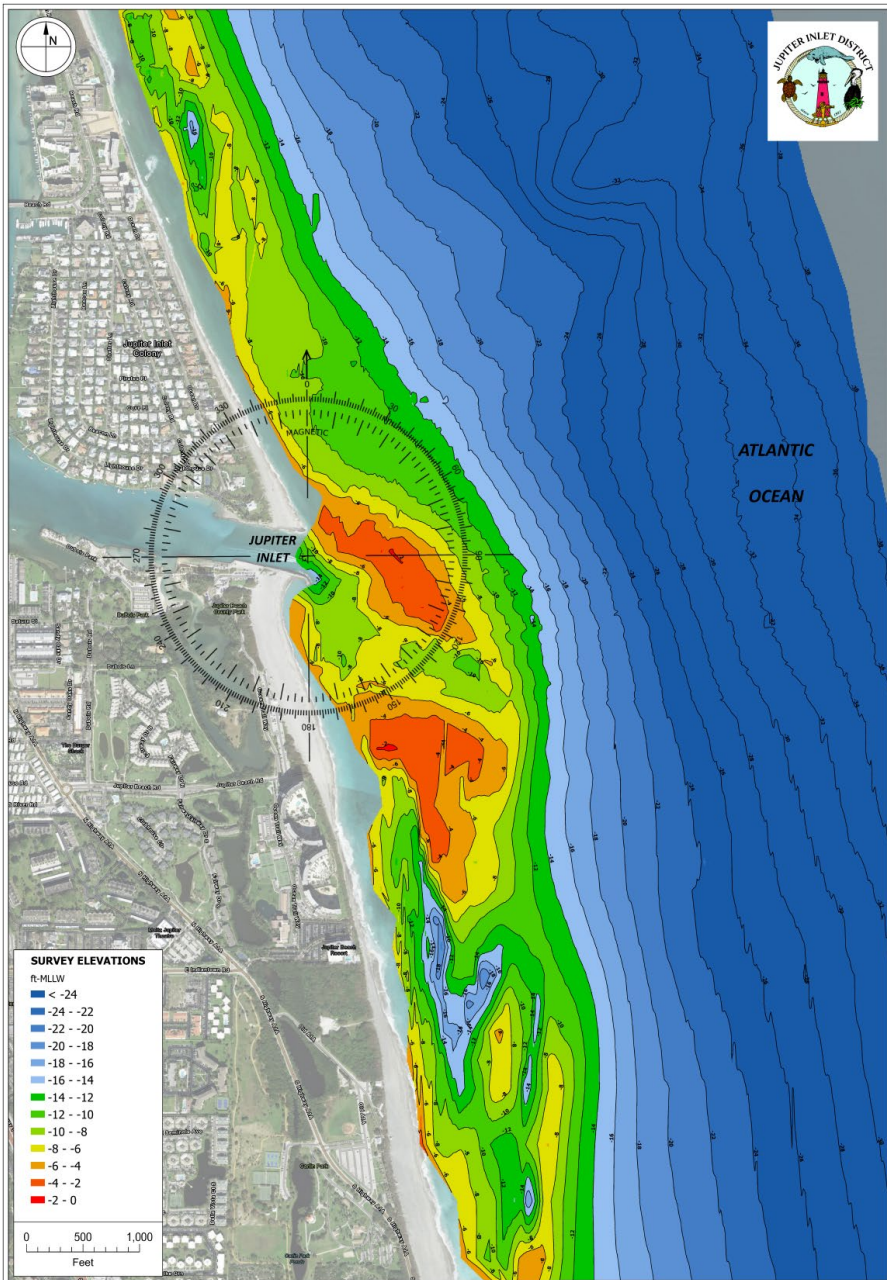
- USACE & FDEP staff + JID + Taylor + commenting agencies (if possible)
- Project summary documentation
  - Emphasize challenging navigation conditions
- Meeting(s)
- Resolve regulatory feedback/permitting vehicle
- Determine Task 2 scope



# Task 2: Data Collection and Analyses

- Leverage as much existing information as possible
- Potential data requirements
  - Bathymetric survey - ongoing monitoring efforts should be adequate
  - Side scan, magnetometer, sub-bottom profile surveys
  - Benthic (e.g., seagrass, hardbottom, live bottom, etc.) survey
  - Species-specific (e.g., queen conch) surveys
  - Sediment sampling and analysis – vibracores / surface grabs
  - Numerical modeling
    - Hydrodynamic modeling
    - Sediment transport modeling
    - Salinity modeling





  
Taylor Engineering, Inc.  
10199 Southside Blvd.  
Suite 310  
Jacksonville, FL 32256

JUPITER INLET DISTRICT  
FEBRUARY 2026 EBB SHOAL SURVEY  
PALM BEACH COUNTY, FL

NOTES:  
1. BOATERS MUST USE CAUTION WHEN REVIEWING THE SURVEY AND UNDERSTAND THAT CONDITIONS CAN AND WILL CHANGE. THE PRUDENT MARINER SHOULD RELY ON MULTIPLE SOURCES OF INFORMATION TO ENSURE SAFE PASSAGE.  
2. SURVEYED ELEVATIONS INDICATE CONDITIONS AT THE TIME OF THE SURVEY AND REFERENCE MEAN LOWER LOW WATER.  
3. SURVEY CONDUCTED ON 02/13/2026 BY TERRAQUATIC, INC.

PROJECT: C2002-022  
DRAWN BY: PL  
SHEET: 1 OF 1  
DATE: 3/12/2026

  
Taylor Engineering, Inc.  
10199 Southside Blvd.  
Suite 310  
Jacksonville, FL 32256

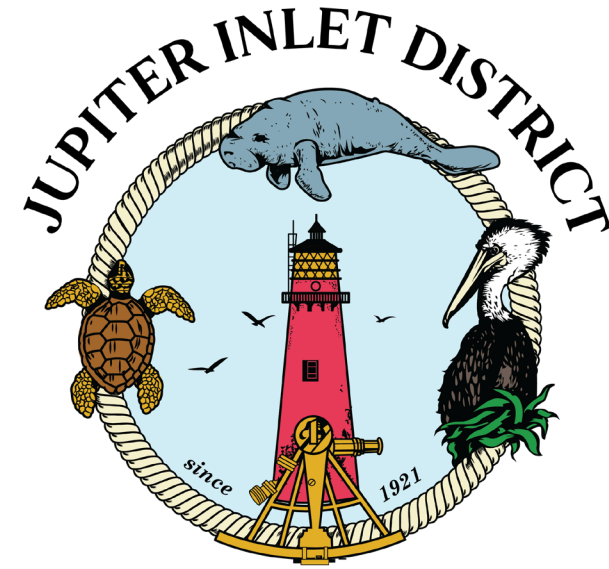
JUPITER INLET DISTRICT  
MAXIMUM DEPTHS 1996-2026  
PALM BEACH COUNTY, FL

NOTES:  
1. ELEVATIONS SHOWN ON THIS FIGURE ARE NOT FROM ONE SINGLE SURVEY. THEY ARE A COMPOSITE, CREATED BY TAKING THE MAXIMUM DEPTH FOUND AT EACH LOCATION FROM ALL SURVEYS CONDUCTED BETWEEN 1996 AND 2026.

PROJECT: C2002-022  
DRAWN BY: PL  
SHEET: 1 OF 1  
DATE: 3/20/2026

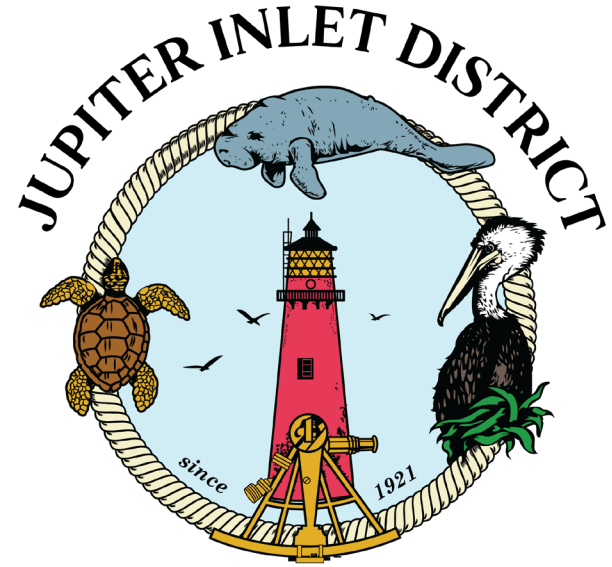
# Task 3: Preliminary design and dredged material management planning

- Dredging template and dredge quantities
- Disposal location design
  - Beach placement
  - Nearshore placement
- Permit drawings



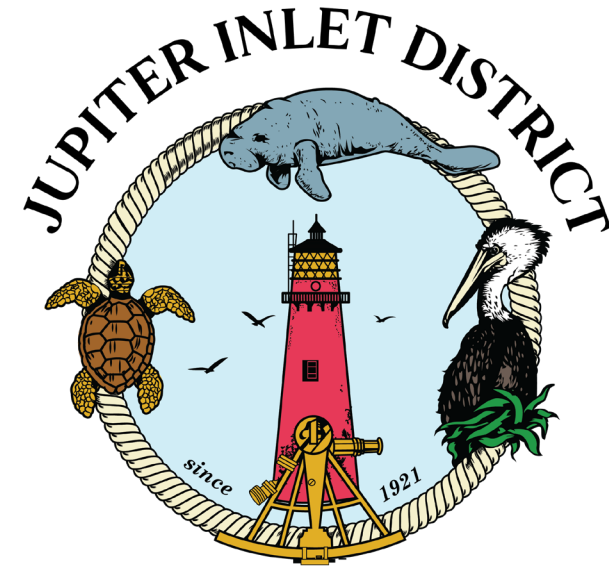
# Task 4: Environmental permitting

- FDEP – Joint Coastal Permit (required by USACE)
- USACE – Dredge and Fill Permit
- Application package
  - Permit drawings
  - Project narrative
    - Purpose and need
    - Public interest
    - Impact avoidance and minimization
    - Best management practices (BMPs)
    - Construction methodology & schedule
  - Alternatives analysis (if required)

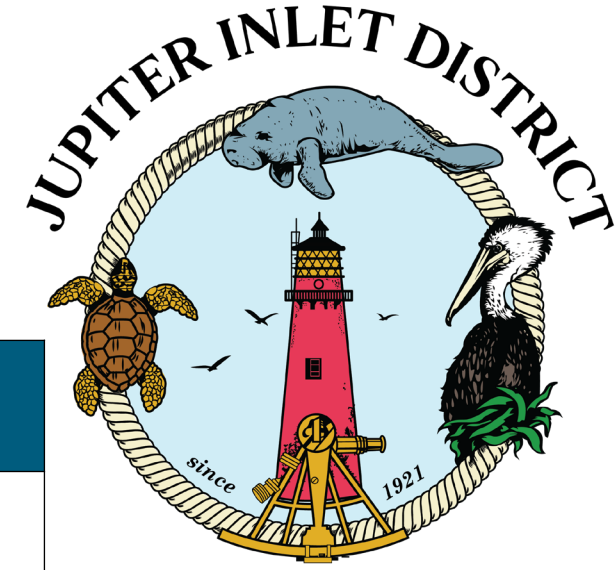


# Task 4: Environmental Permitting (cont'd)

- Agency coordination
  - FDEP
  - USACE
  - USFWS
  - FWC
  - NMFS
  - USCG
- Requests of Additional Information (RAIs)



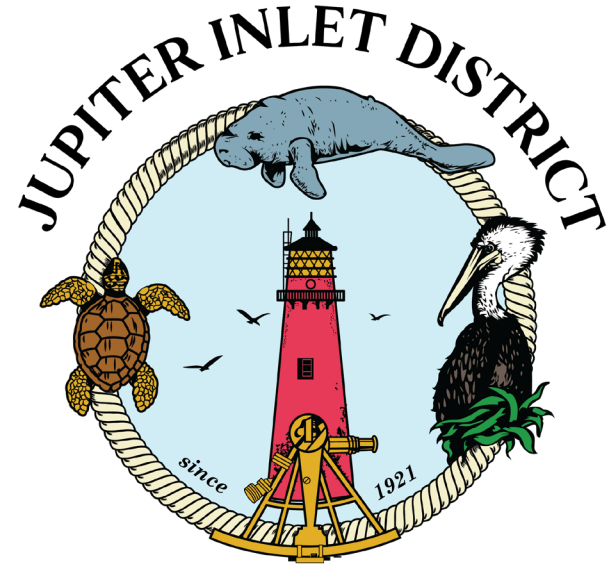
# Taylor Costs



Task	Task Name	Fee
1	Pre-Application Meetings	\$10,570.00
2	Data Collection and Analyses (TBD)	TBD
3	Preliminary Engineering Design and Dredged Material Management Planning	\$15,840.00
4	Environmental Permitting	\$58,260.00
<b>Total</b>		<b>\$84,670.00</b>

# Recommended Approach

- Authorize moving forward with Task 1
- Based on Task 1 results
  - Reassess and develop detailed scope/cost/schedule for Task 2
- Authorize Task 2
  - Reassess and move forward with Tasks 3 & 4

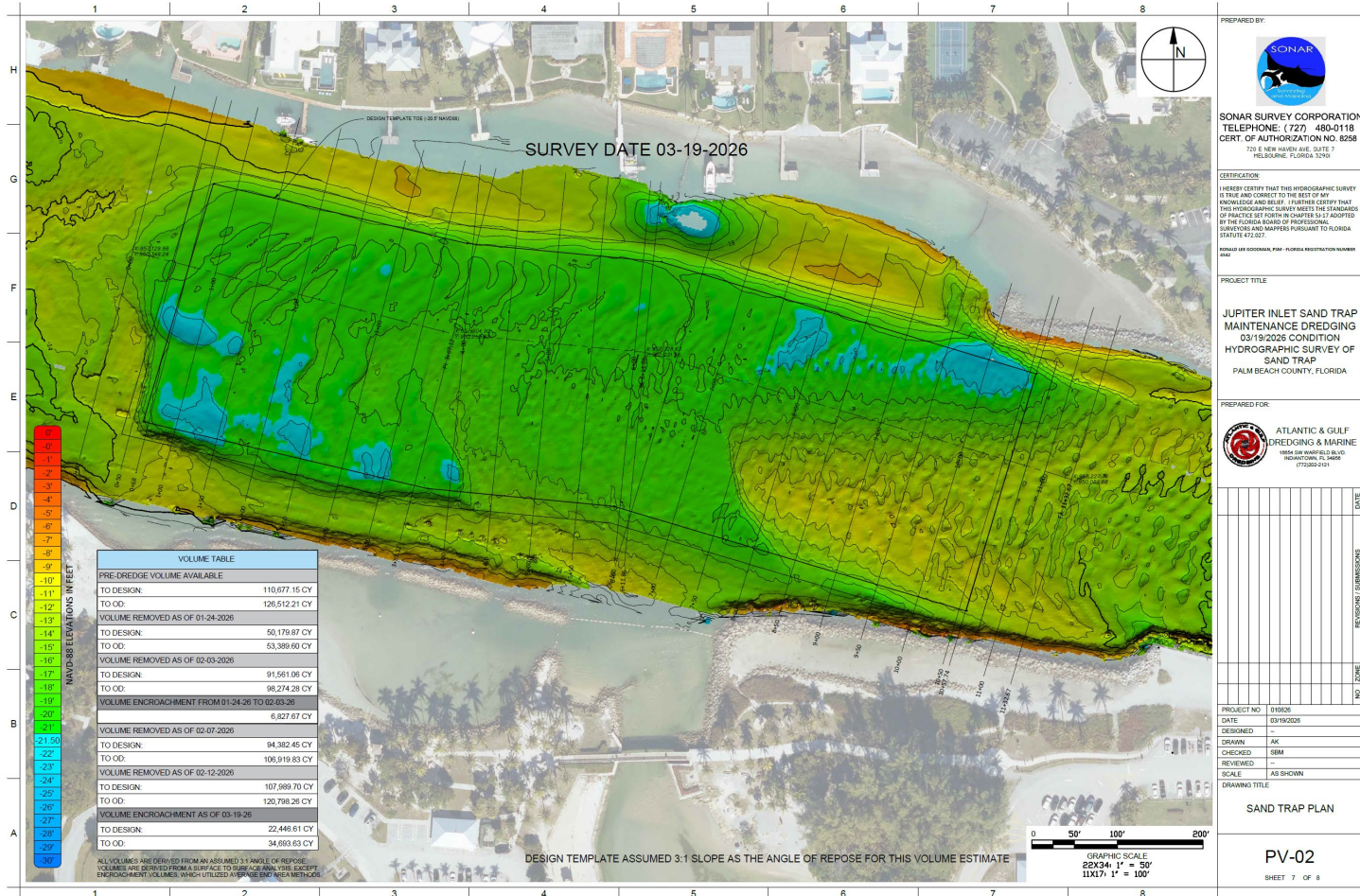
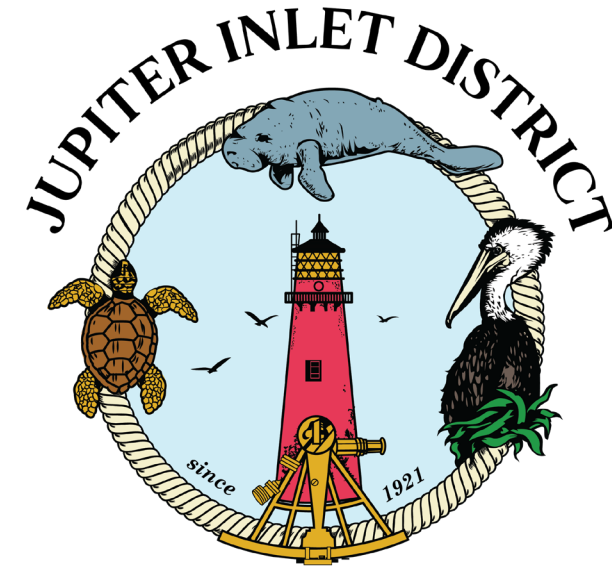






# Jupiter Inlet Sand Trap Resweep

- March 19, 2026

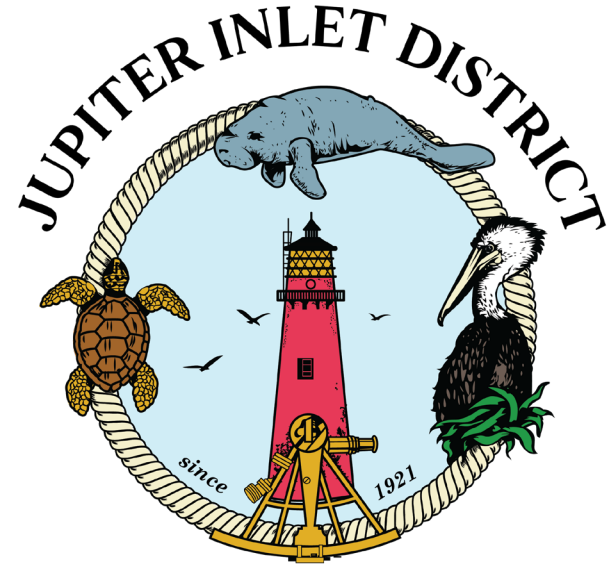


Volume remaining  
 +/- 22,500 CY (Design)  
 +/- 34,700 CY (OD)

# Jupiter Inlet Sand Trap Resweep

## Infilling rate

- February 12, 2026 to March 19, 2026
  - 35 days
- Design 3,000 cy to 22,500 cy
  - 19,500 cy
  - +/- 560 cy/day
- OD 6,000 cy to 34,700 cy
  - 28,700 cy
  - +/- 820 cy/day



# Jupiter Inlet Sand Trap Resweep

- Projected project cost

	Design	OD
	22,500 CY	34,700 CY
Mob/Demob	\$ 500,000	\$ 500,000
\$/cy	\$ 20.00	\$ 18.00
Dredging (OD)	\$ 450,000	\$ 624,600
Env/WQ/Survey	\$ 100,000	\$ 100,000
Total	\$ 1,050,000	\$ 1,224,600

