



TAYLOR
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Maintaining Momentum: Utilizing Proactive Approaches When Project Delays Hit

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OUTLINE



Fort Pierce Beach During Construction 2025 (Taylor Engineering)



Fort Pierce Beach During Construction 2023 (Taylor Engineering)



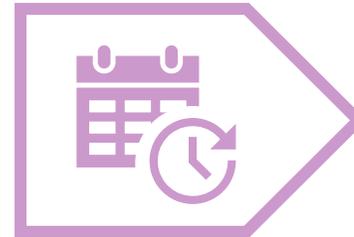
Background



Recent Events



Lessons Learned & Proactive Project Management



Looking Forward & Final Thoughts



Questions

BACKGROUND



Location

- Fort Pierce Beach in St. Lucie County
- Immediately south of the Fort Pierce Inlet south jetty
- **Project area-** R-34 to R-41
- **Control area-** R-41 to R-46



Project Background

- Originally authorized by the Rivers and Harbors Act of 1965
- Initial construction completed in 1971
 - 718,000 cy
 - 5-year nourishment interval
- Section 934 Reevaluation Report in 1995 → extended federal participation
- Limited Reevaluation Report in 2006 → **move nourishment interval to 2 yrs**
- General Reevaluation Report/Section 203 Study in-progress → add structures?

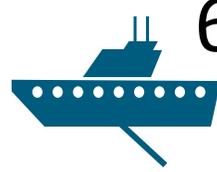


Project Background

- Fort Pierce by the numbers:


7,600,000 cy
 volume placed since
 initial construction

= ~140,000 cy per year


6,700,000 cy
 Federal dredging events


900,000 cy
 other events

- truck haul
- BU from channel/AIWW and Fort Pierce Harbor

Year	Nourishment Type
2018	Dredge (Federal)
2020	Truck Haul (County)
2021	Dredge (Federal)
2023	Dredge (Federal)
2025	Truck Haul (County)
2026	<i>Dredge (Federal)</i>

= ~240,000 cy per year



RECENT EVENTS



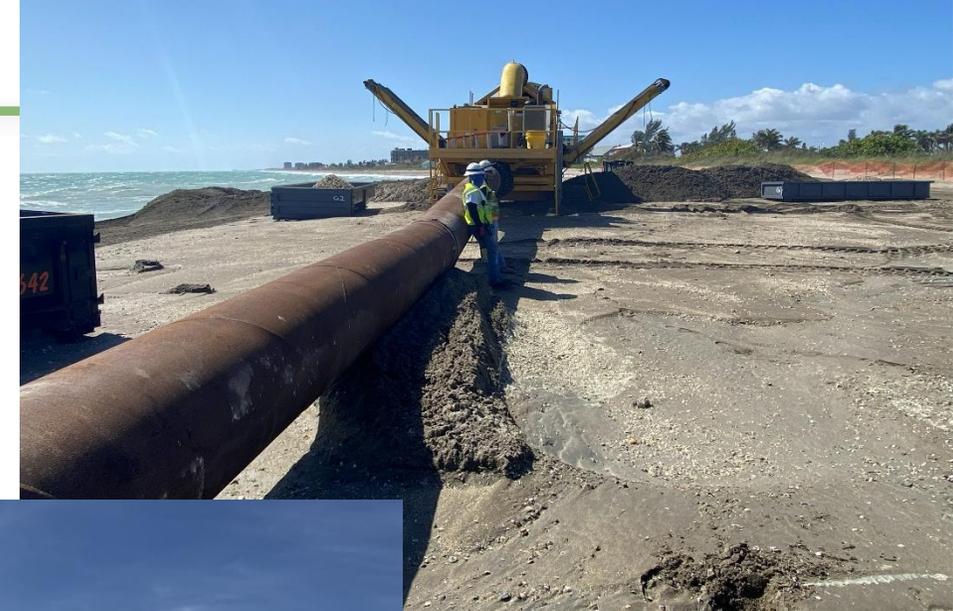
2023 Federal Nourishment

- March – May 2023
- Placed ~490,000 cy between R-34 and R-41

Fort Pierce Beach Pre-Construction Condition 2023 (Taylor Engineering)



Fort Pierce Beach During Construction 2023 (Taylor Engineering)



Fort Pierce Beach Post-Construction Condition 2023 (Taylor Engineering)

2025 Federal Nourishment

- Planned 2025 USACE nourishment
 - First solicitation (October 2024)– no bids received
 - Second solicitation (January 2025)– bids 2x government estimate
- Project postponed 1 year
- **Erosion too close for comfort going into hurricane season!!**

Fort Pierce Beach February 2025 Condition (Taylor Engineering)



Fort Pierce Beach February 2025 Condition (Taylor Engineering)

2025 Emergency Truck Haul

- Pivot from dredging project to **emergency truck haul project** before the summer season!
- Contractor mobilized one month after postponed project
- March – April 2025
- Placed ~95,000 cy between R-34 and R-35.5

Fort Pierce Beach Pre-Construction Condition 2025
(Taylor Engineering)



Fort Pierce Beach Post-Construction Condition 2025
(Taylor Engineering)



2026 Federal Nourishment

- USACE held Industry Day– *Consolidate projects? Bid all separately?*
- Anticipated mobilization end of March 2026
- Will place ~400,000 cy between R-34 and R-38

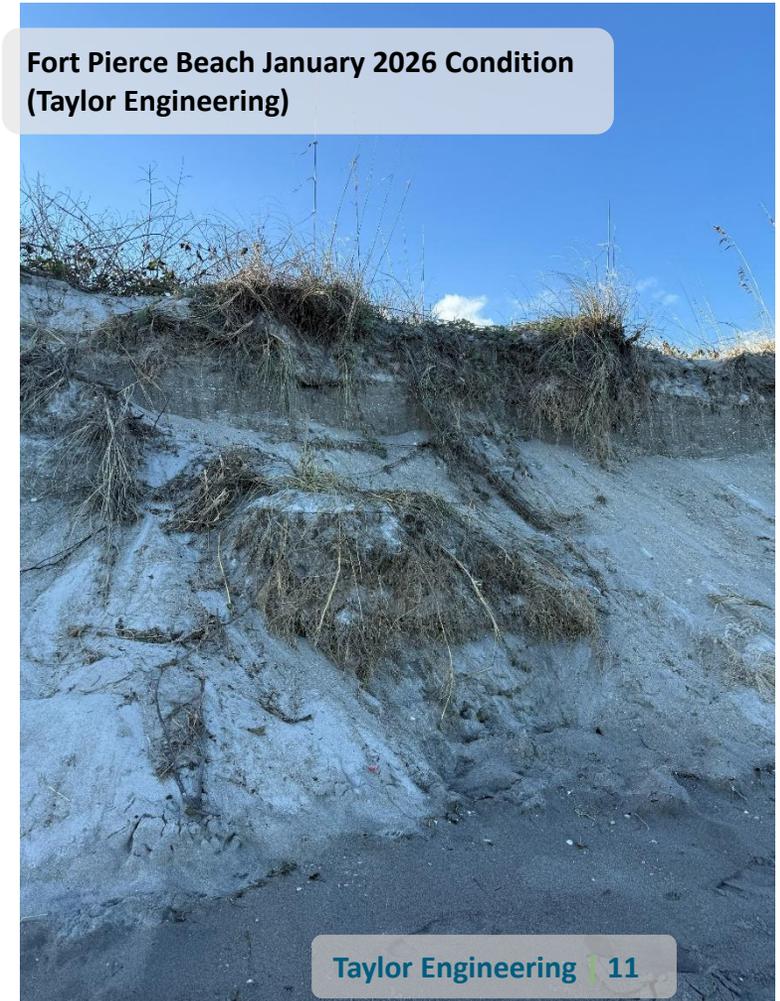
Fort Pierce Beach Closure Due to Erosion
(Taylor Engineering)



Fort Pierce Beach January 2026 Condition
(Taylor Engineering)



Fort Pierce Beach January 2026 Condition
(Taylor Engineering)



LESSONS LEARNED & PROACTIVE PROJECT MANAGEMENT



Lessons Learned & Proactive Project Management

BUILD FLEXIBILITY INTO PERMITS

EMERGENCY SAND PLACEMENT CONTRACTS

PLAN AHEAD

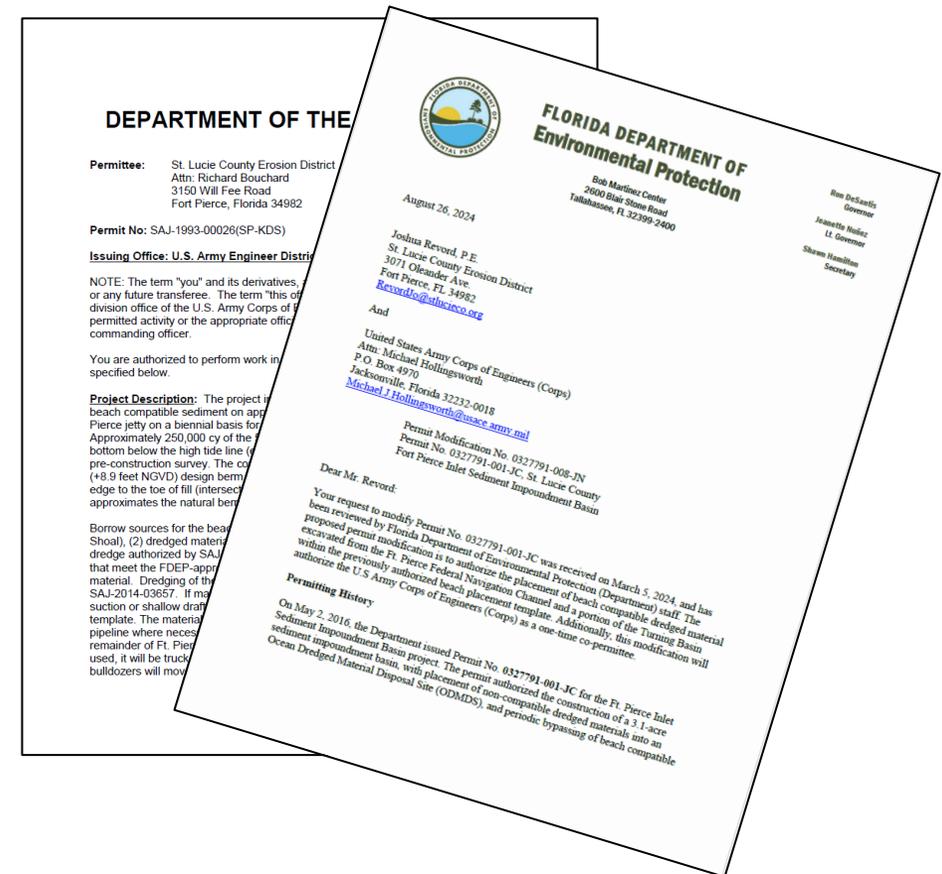
Lessons Learned & Proactive Project Management

BUILD FLEXIBILITY INTO PERMITS

- Sand sources
 - Borrow area
 - Upland sand mine
 - Channel/AIWW/Fort Pierce Harbor
 - Sand Trap
- Placement methods
 - Dredge
 - Truck Haul

EMERGENCY SAND PLACEMENT CONTRACTS

PLAN AHEAD



Lessons Learned & Proactive Project Management

BUILD FLEXIBILITY INTO PERMITS

EMERGENCY SAND PLACEMENT CONTRACTS

- Expedite contracting
- Contractor ready to mobilize **almost** immediately

PLAN AHEAD

- Permits, environmental timelines
- Industry availability
 - Industry day
 - Projects in the same region
 - Projects with similar means and methods



LOOKING FORWARD & FINAL THOUGHTS

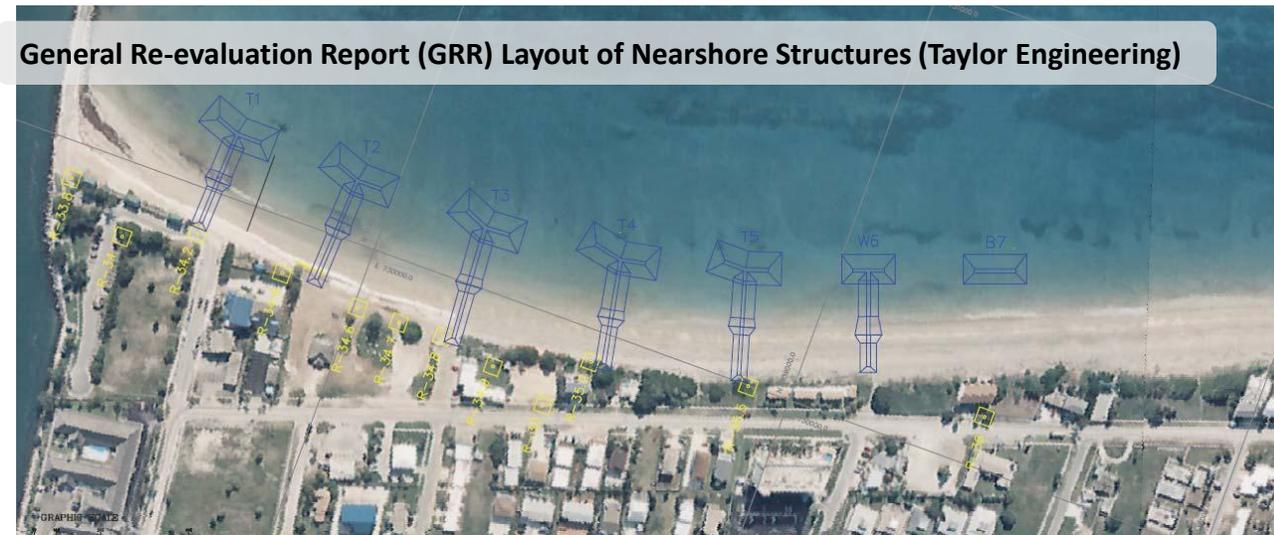


Looking Forward

- Sand trap constructed in 2022
- 2026 project construction underway soon
- USACE GRR/Section 203 Report
 - In review at ASA's office
 - Includes:
 - Nearshore structures
 - 4-year renourishment interval



Sand Trap Construction in 2022 (Taylor Engineering)



General Re-evaluation Report (GRR) Layout of Nearshore Structures (Taylor Engineering)

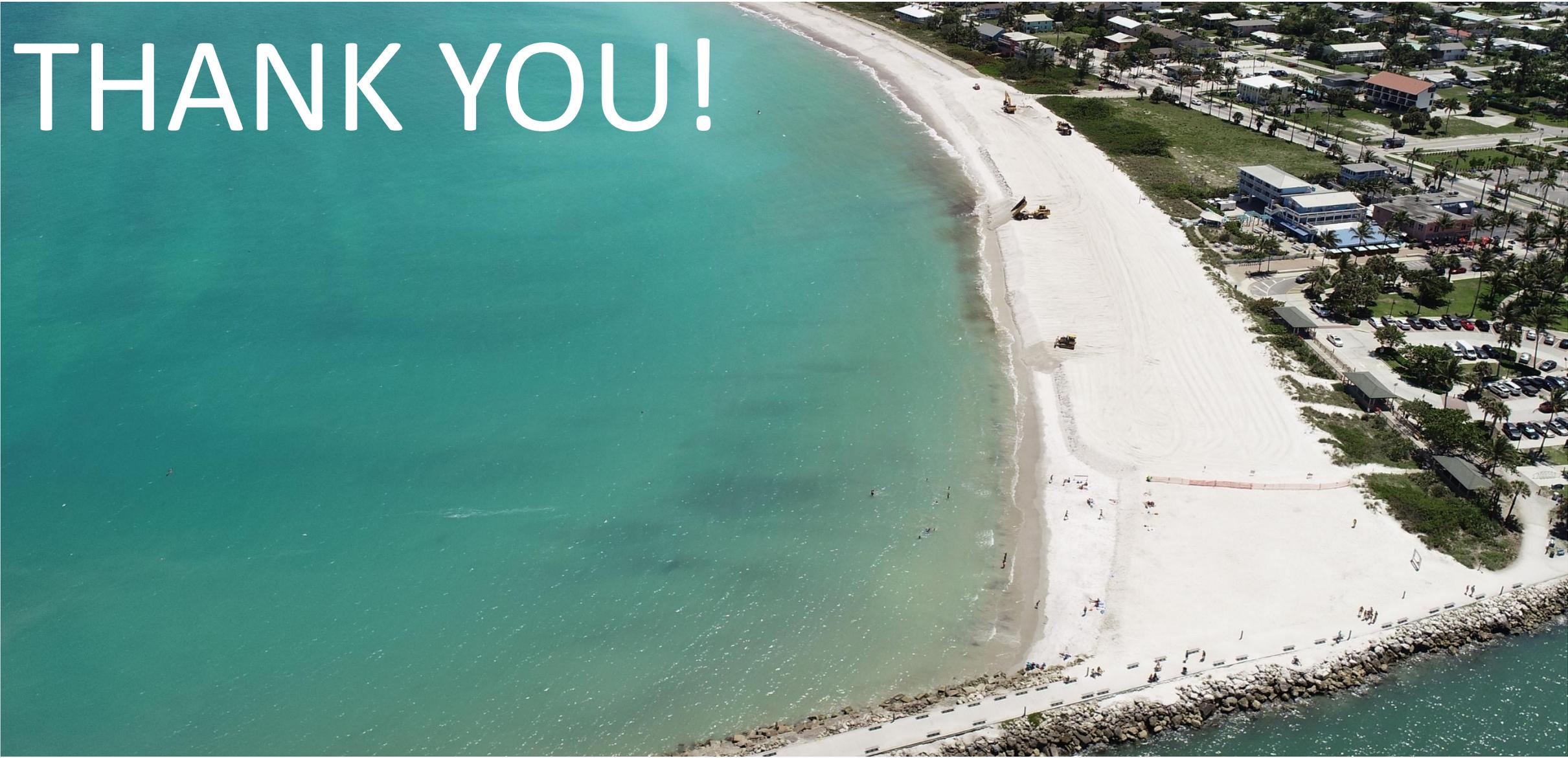
Final Thoughts

- History WILL unfortunately repeat itself
 - At least at Fort Pierce Beach
- Have permits in place
 - Permitting can make or break your project timeline
- Be aware of industry schedules
 - Dredge availability/locations
- Control what you can control



Fort Pierce Beach Post-Construction 2023 (Taylor Engineering)

THANK YOU!



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