



DAUPHIN ISLAND WEST END NOURISHMENT PROJECT

Public Informational Meeting
6-8pm, October 16th, 2024
Dauphin Island
Community Center



Sunset Capital of Alabama™

Sept. 15, 2023
(photo courtesy of Sam St. John, Fly the Coast)



Introductions



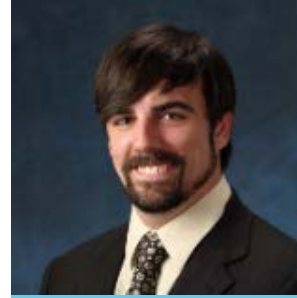
Patrick
Dungan &
Nash
Campbell
*Town
Attorneys*



Honorable
Mayor
Collier



Councilman
Gene Fox



Beau
Buhring,
PE
*South Coast
Engineers*



Meg
Goecker
*Moffatt &
Nichol*



Mary Beth
Sullivan, PE
USACE



Agenda

1

Engineering & Design

NFWF GEBF and GOMESA funded

4

Alabama Beach Act

Designated Mean High Tide Line

2

Permitting

USACE/ADEM Joint Standard Individual Permit

5

Construction & Monitoring Easement

Private Property Roles in Project

3

Funding Opportunities for Construction

Potential Sources

6

USACE Partnership

Future Sustainability



1

ENGINEERING & DESIGN



Project Goals

- **Restore beach and dune habitat along the Gulf of Mexico beaches and protect infrastructure with beach nourishment, sand dunes, and vegetation**
 - Introduce beach sands back into the littoral drift of the northern Gulf of Mexico barrier islands
 - Restore mainland protective functionality of our barrier island system
 - Improve and restore the West End beach and dune habitat including Gulf-front foraging and nesting habitats for seabirds, shorebirds, neotropical migratory birds, and sea turtles
- Engineering and Design funded by:
 - National Fish and Wildlife Foundation Gulf Environmental Benefit Fund (NFWF GEBF)
 - Gulf of Mexico Energy Security Act (GOMESA)





Project Design

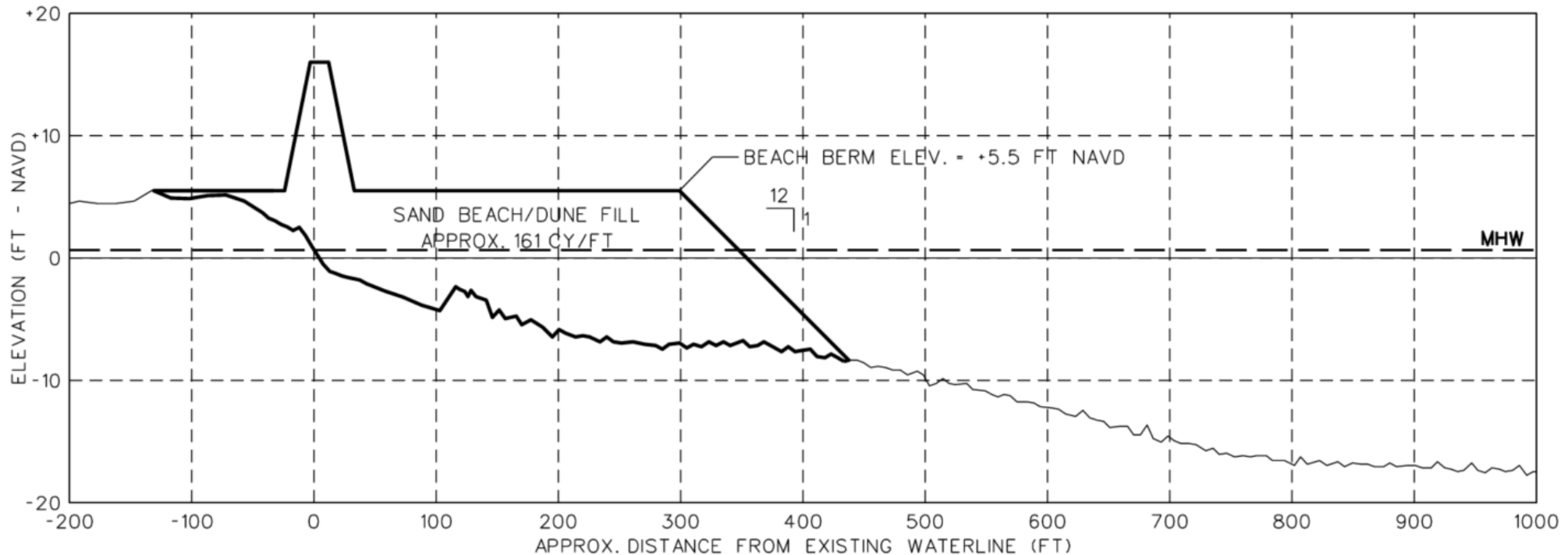
- Placement of 2.4M+ cubic yards of sand extending 3.5 miles
- Initial construction will increase beach width from 170 to 590 feet
- Restore ~40 ac of dune habitat and ~200 ac of beach habitat





Project Design

- Dunes to prevent overwash
- Wide beach to protect the dune
- Native dune vegetation





October 2, 2024





Dauphin Island Beach Nourishment Engineering & Design





Dauphin Island West End Nourishment Project Engineering & Design



October 9, 2024



October 2, 2024



Borrow Area





Borrow Area



October 2, 2024



2

PERMITTING

USACE/ADEM
Standard Individual
Permit

Public Comment Period
– End of
2024/Beginning of 2025



FUNDING OPPORTUNITIES FOR CONSTRUCTION

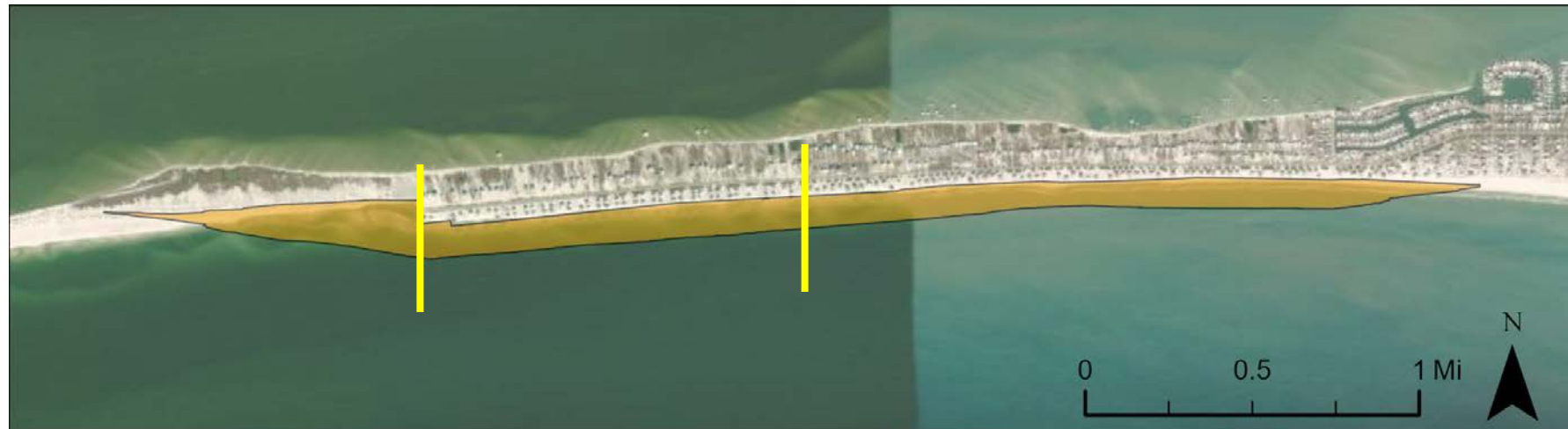
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Funding Opportunities



- Construction funding may require a **SEGMENTED** approach
 - Federal funding
 - RESTORE Act FPL 4 funding proposal application submitted, per Federal stipulations
 - Public Comment Period in Fall 2025 ★
 - Other Opportunities
 - GOMESA
 - Congressional appropriations
 - Local Funding





4

ALABAMA BEACH ACT


Town of Dauphin Island
Due Diligence
Requirements



Application for Beach Nourishment Project



The Town of Dauphin Island requirements to apply for a beach renourishment project:

1. A detailed description of location, dimensions, and design features of the proposed beach project.
2. The location of the **designated mean high tide line** and project limits (landward and seaward extent of the proposed beach project) relative to the designated mean high tide line and the construction control line.
 - This must be presented and adopted through a **public hearing** by both the Town and ADCNR. 
3. Adequate engineering, geological or other scientific data concerning shoreline topography, stability, and potential impacts.
4. A description of the quantities of sand from public water bottoms of the State of Alabama.



“Designated” Mean High Tide Line

- Required by State Law - Alabama Code Title 9. Conservation and Natural Resources § 9-15-56
- **Natural MHT Line:** Boundary between upland property owners and the state generally shifts with the natural changes in the shore.
- **“Designated” MHT Line:** Sets boundary between State and property owners.
- What this means to you as a property owner....
 - Gulf-fronting landowners still retain all “statutory and common-law riparian or littoral rights of access” to the new restored beach lands
 - Designated MHT line is there forever, unlike the natural MHT line that moves
 - Land restored south of the designated MHT line will be owned by State of Alabama for the people of Alabama
 - Engineered beach allows for FEMA claim after declared storms to ensure sustainability
 - Results in cost-share for renourishment



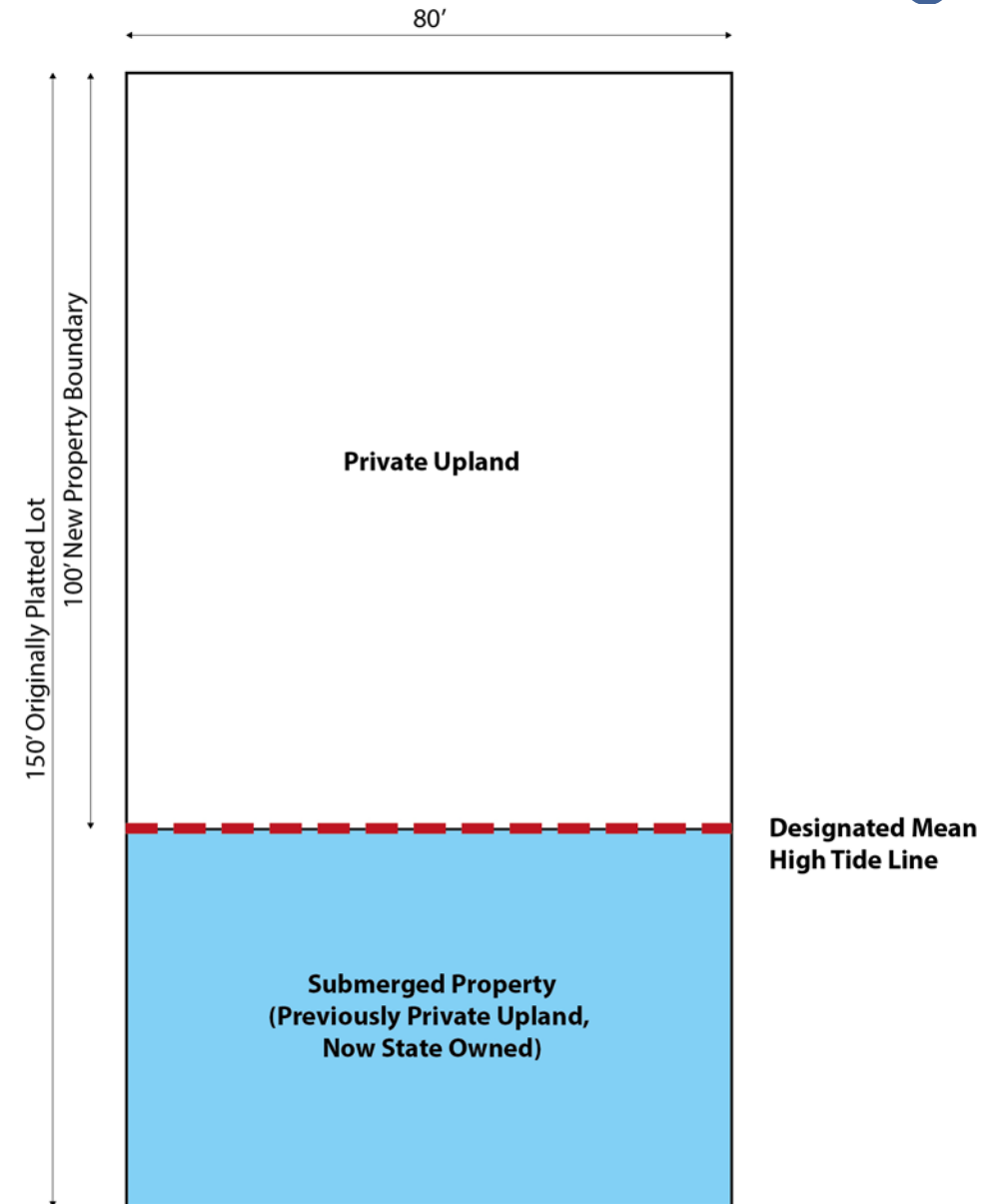
Natural Mean High Tide Line





Determining the “Designated” Mean High Tide Line

- How the proposed line was determined:
 - Costs
 - Maintenance costs to Town
 - State and Town Council Input
 - Coastal Processes

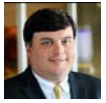




Proposed Designated Mean High Tide Line

Detailed maps provided on Town website





Alabama Beach Act Process

■ Legal Steps for Designated MHT Line

- Town will hold a formal Public Hearing – TBD, end of 2024 ★
- Alabama Department of Conservation and Natural Resources will hold a formal Public Hearing – TBD, early 2025 ★
- Town Resolution to accept designated MHT line
- Designated Mean High Tide Line will be recorded in office of the judge of probate for Mobile County





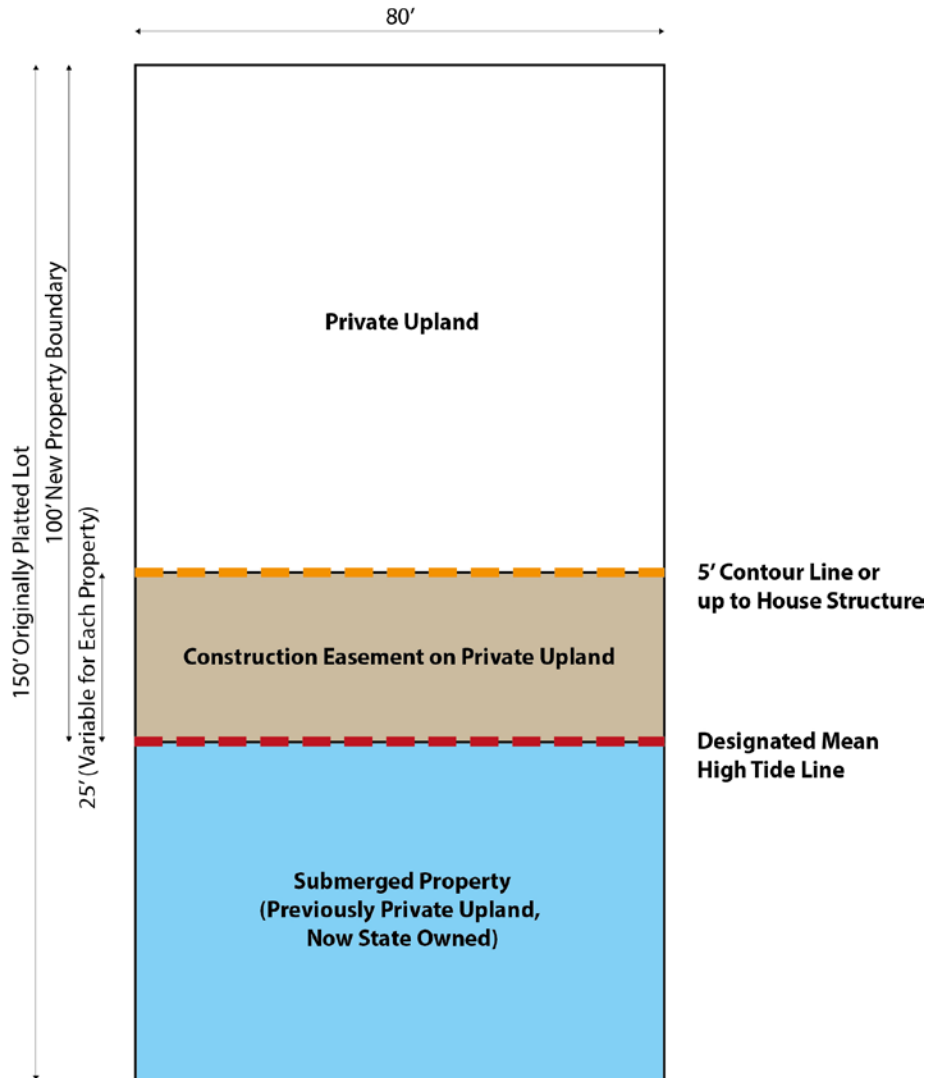
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CONSTRUCTION & MONITORING EASEMENT

Private Property
Due-diligence
Requirements



Construction & Monitoring Easement

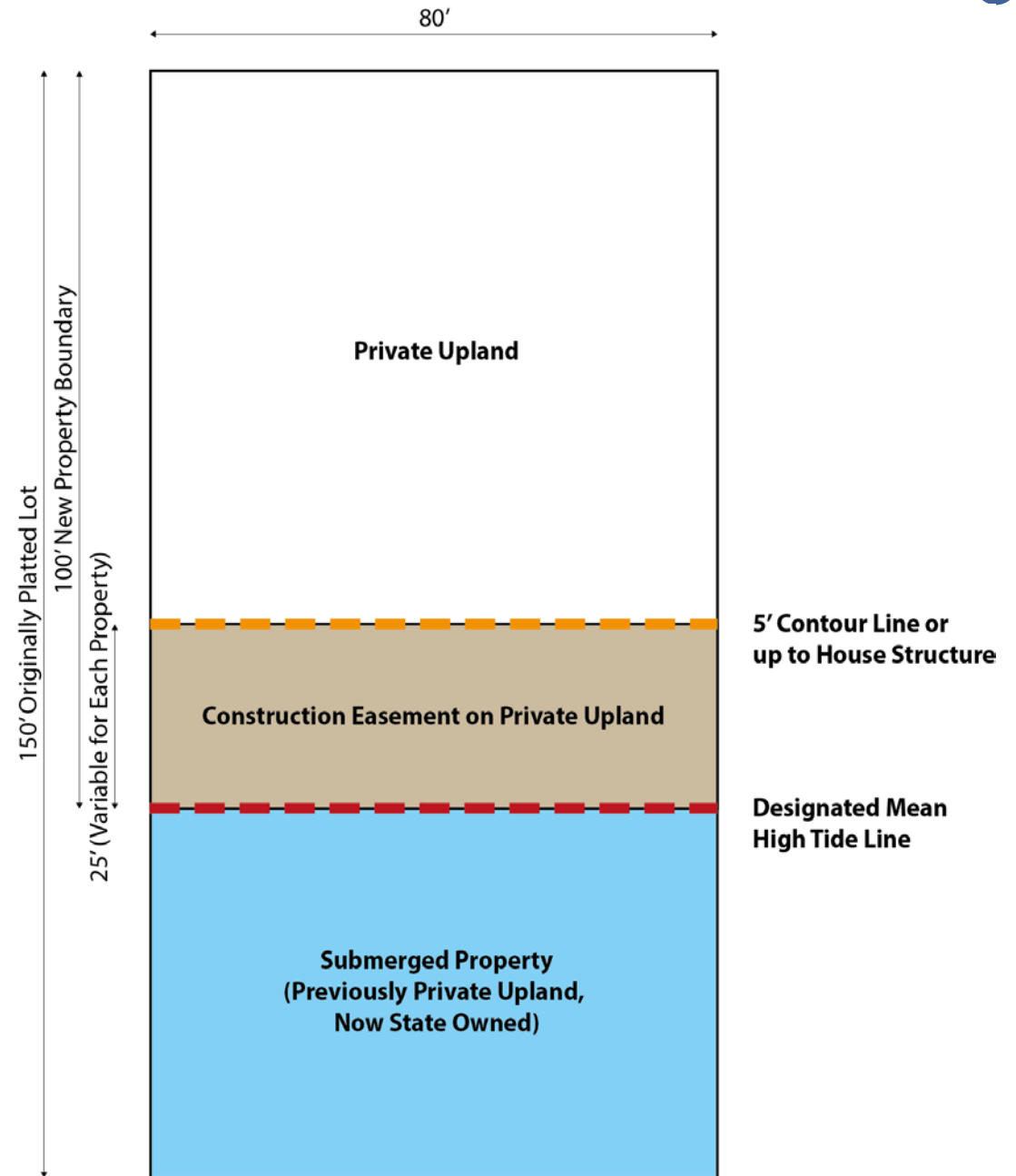


- Legal document that provides access for construction and monitoring of the project.
- Monitoring activities assists in making FEMA Claims after major storm events.
- Must be provided (signed) by all gulf-fronting property owners impacted by the project.
- An exhibit will be provided to show each individual property easement.
- Will be recorded in office of the judge of probate for Mobile County.



What rights does the Easement give the Grantor

- Conveys to the Town of Dauphin Island the right to access the Easement area to build, monitor, and maintain the project in perpetuity. This includes:
 - Sand placement for project and for further nourishment
 - Vegetation plantings
 - Equipment on easement area, as needed, to build and maintain the project





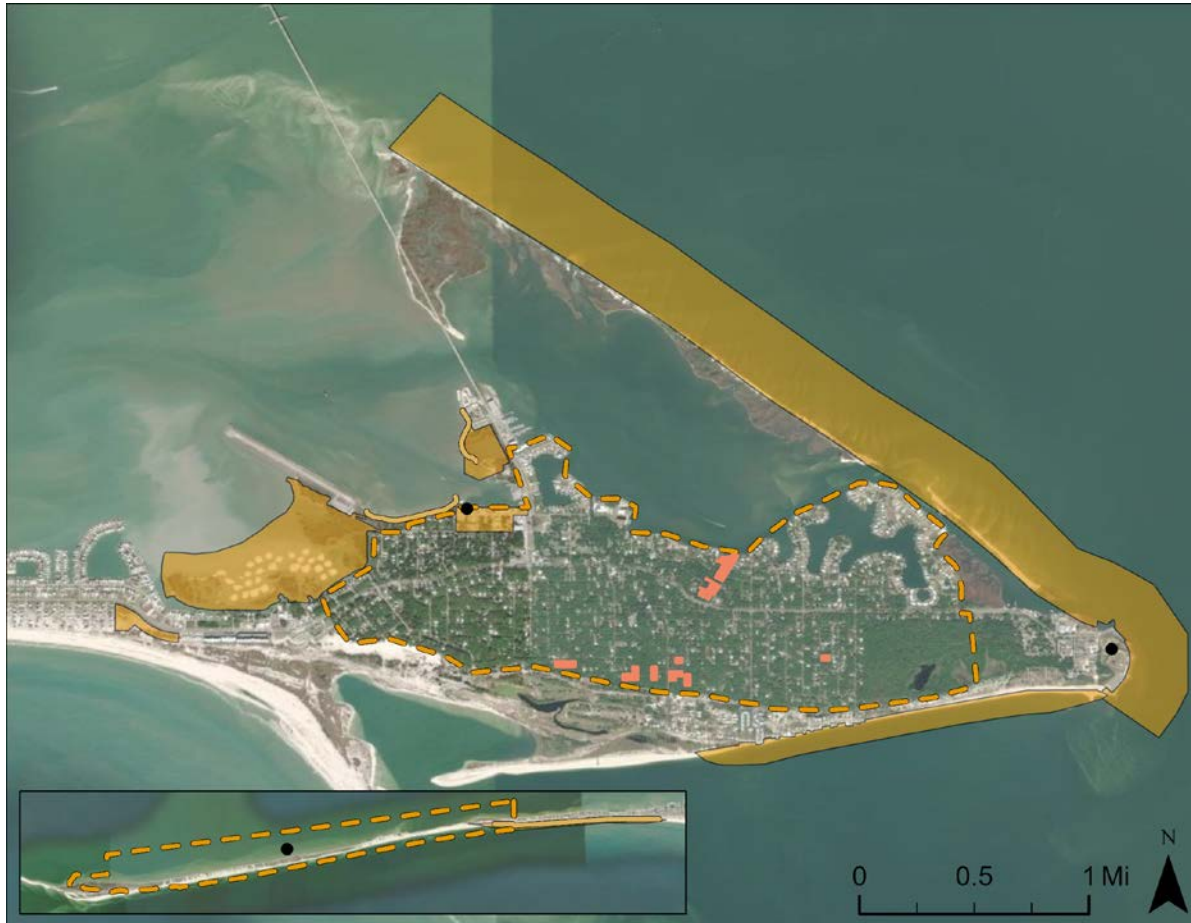
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USACE PARTNERSHIP

Future Sustainability



Alabama Barrier Island Restoration Assessment



- ALBIRA 2019 → 2025
 - Accomplished majority of these projects!
- Projects Constructed as of 2024
 - ✓ East End Beach and Dune
 - ✓ Graveline Bay Marsh Creation
 - ✓ Land Acquisitions
- Projects to be constructed in 2025
 - ✓ Aloe Bay Marsh Restoration and Breakwater
 - ✓ Pelican Island SE Nourishment
 - ✓ Little Dauphin Island Restoration
- Remaining Project (tentatively 2026)
 - West End Beach and Dune



USACE Sand Placement in SIBUA

Year	Dredge Location	Placement Location	Start	Finish	Placement Volume (cubic yds)
2020	Mobile Bar	SIBUA	07/14/20	09/07/20	378,300
	Emergency Mobile Bar	SIBUA	09/18/20	10/05/20	444,500
	Mobile Bar	SIBUA	10/14/20	11/14/20	641,900
2021	Mobile Bay/Bar	SIBUA	12/06/20	01/08/21	498,100
	Mobile Bar	SIBUA	09/14/21	12/24/21	748,400
2022	SIBUA*	SIBUA	08/15/22	09/23/22	1,014,500
	Mobile Bar	SIBUA	09/24/22	10/18/22	628,400
	Mobile Bar	SIBUA	11/10/22	11/20/22	326,600
2023	Mobile Bar	SIBUA	01/11/23	07/21/23	537,800
	Mobile Bar	SIBUA	11/08/23	11/09/23	6,800
2024	Mobile Bar	SIBUA	02/02/24	03/31/24	222,900
	Mobile Bar	SIBUA	05/02/24	06/24/24	666,300

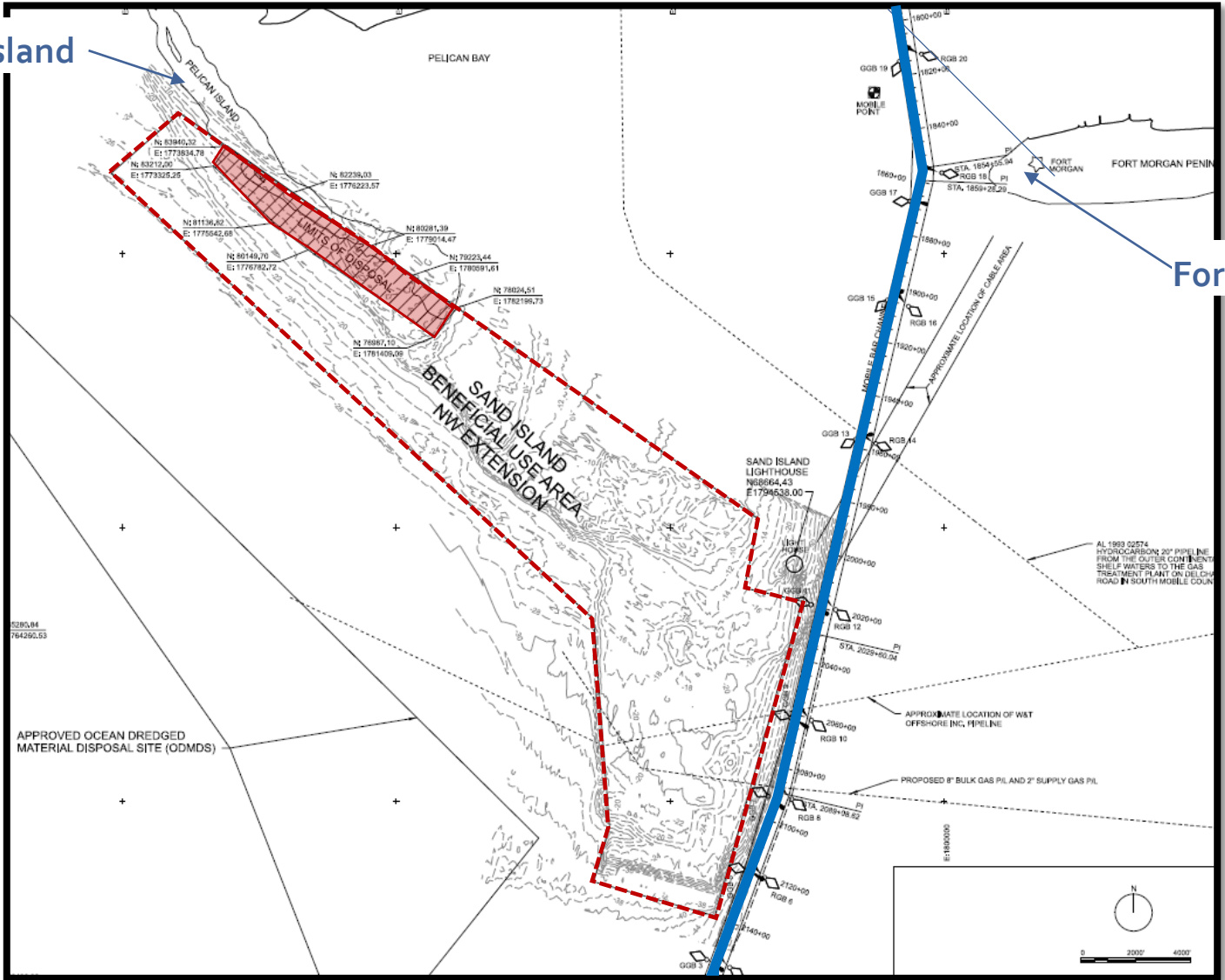
SIBUA Placement

- Maintenance material from the Bar Channel is placed in the Sand Island Beneficial Use Area (SIBUA)

* Material was managed within SIBUA to create additional capacity for hopper dredge placement.



Pelican Island



Fort Morgan

Pelican Island Complex

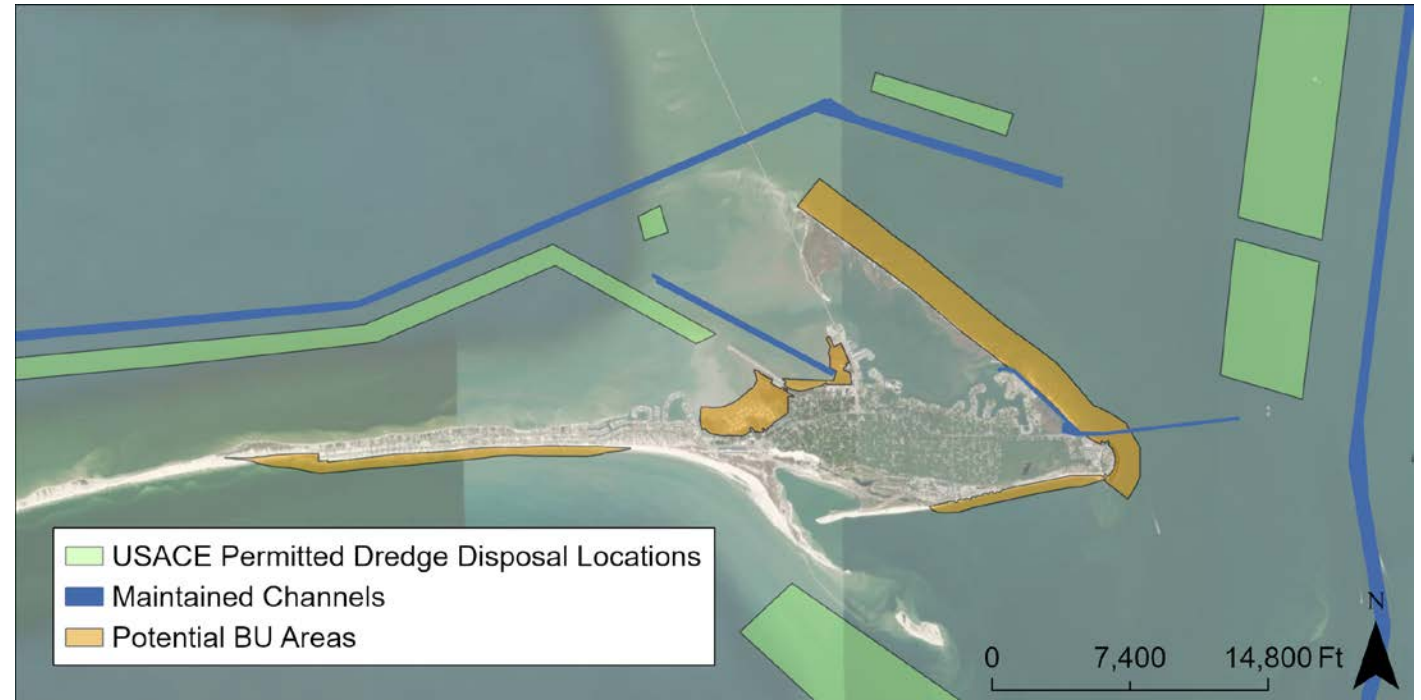
- Northwest Extension of SIBUA
- Beneficial Use of sediments from the widening and deepening of the Mobile Ship Channel
- 2.6 M Cubic Yards
- +4 ft. elevation tolerance
- Construction anticipated in December

— Mobile Ship Channel
 Mobile Harbor Phase 2a Placement Area
 Limits of SIBUA



Long-term Sustainability of Project(s)

- MOA underway with Town and USACE for long-term nourishment utilizing sediments from Federal Channels
- Programmatic Permit for future sustainability
 - GOMESA grant
 - Establish island area including West End for beneficial use of sediments from USACE sources
 - Sustain all our island projects





Dauphin Island West End Nourishment Project

OVERALL Schedule

		2024	2025			2026					
		Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer	Fall	
Permitting	USACE Permit Application Submittal	➔									
	USACE Permit Process	➔									
	Public Comment Period for USACE Permit	➔									
	AL Beach Act Permit – Public Hearing for DMHTL (Town)	➔									
	AL Beach Act Permit – Public Hearing for DMHTL (ADCNR)		➔								
	AL Beach Act Permit – Town Resolution for DMHTL			➔							
	Construction Easement – Individual Properties				➔						
Design	Final Design Completed	➔									
Funding	RESTORE Act Comment Period					➔					
	Funding Announced (Pending approval)							➔			
Const.	Construction (Pending Funding)								➔		

*Construction based on funding success; **Bold highlight** indicates opportunities for public comment; Exact dates of comment periods and public hearings to be determined*



Information

- Visit the website for maps and information:
<https://www.townofdauphinisland.org/westendnourishment>
- Email questions : westend@townofdauphinisland.org



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