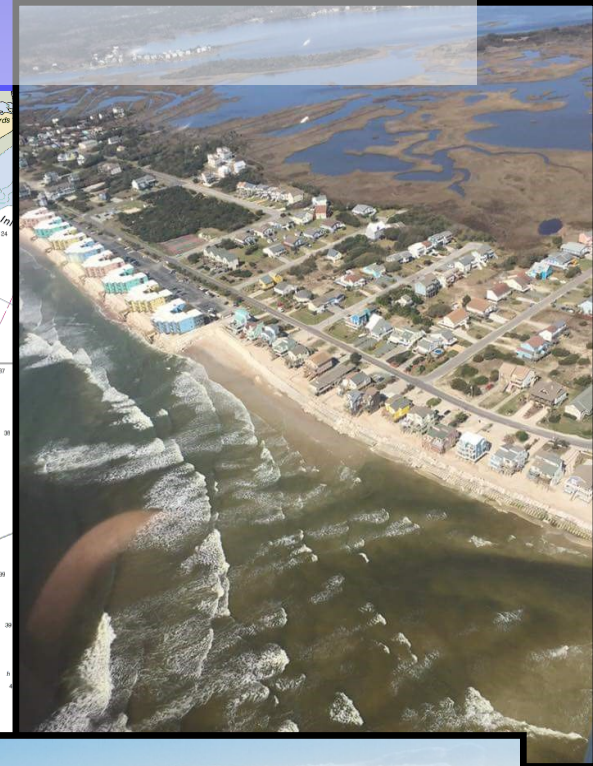
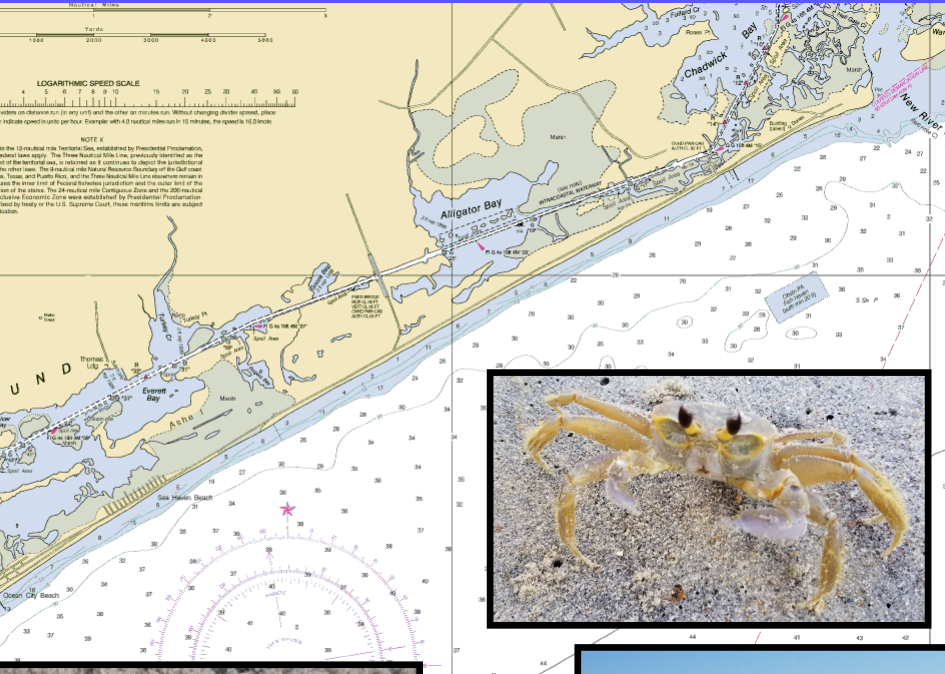


# North Topsail Beach Coastal Update

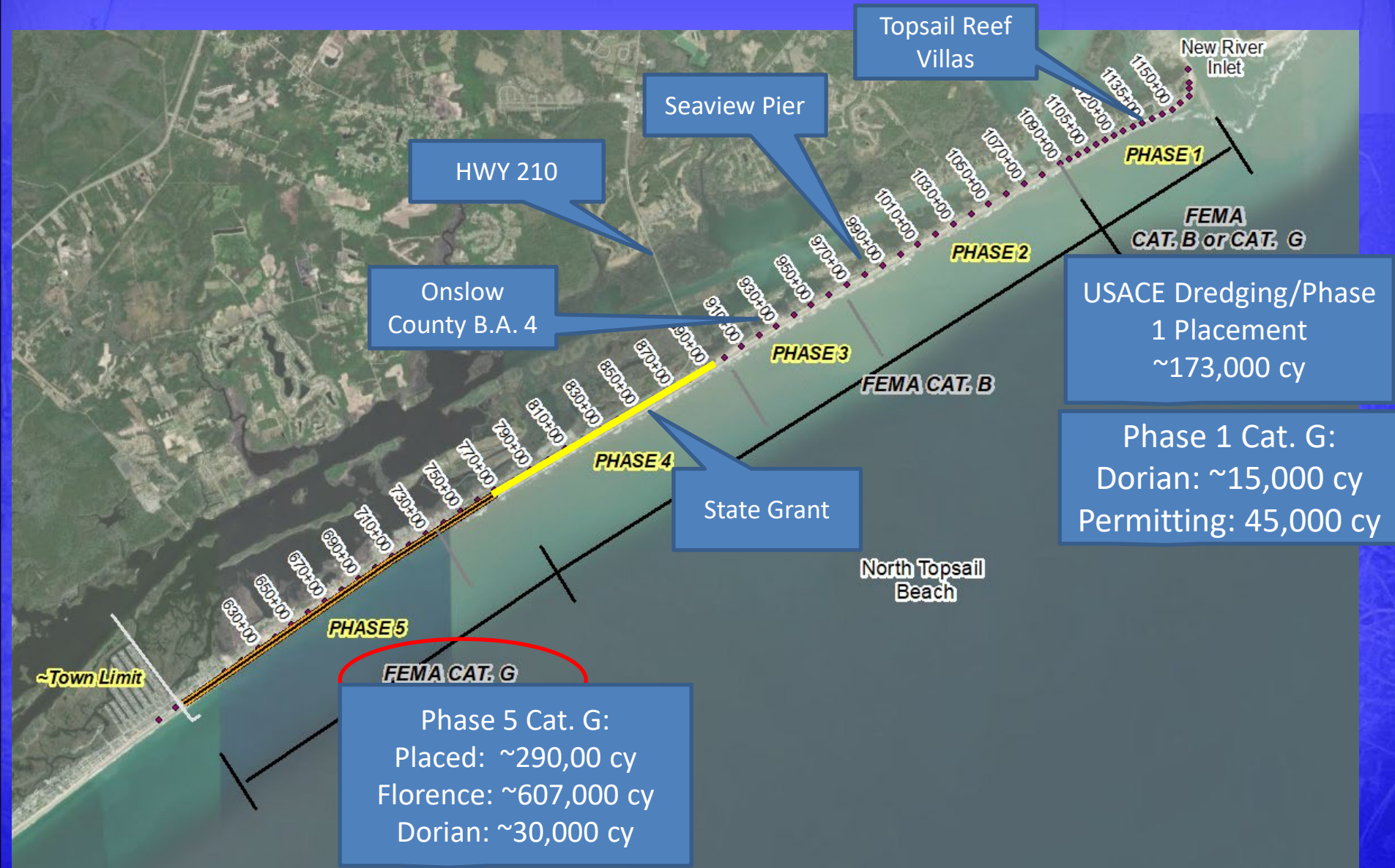
## March 2023



Marina, Coastal, Environmental  
& Water Resources Engineers

# Ongoing and Upcoming Projects Overview

## State Grant, Dorian and Florence FEMA Category G., USACE



# USACE (Corps) AIWW/Channel Dredging.



Phase 1  
Beach  
Placement

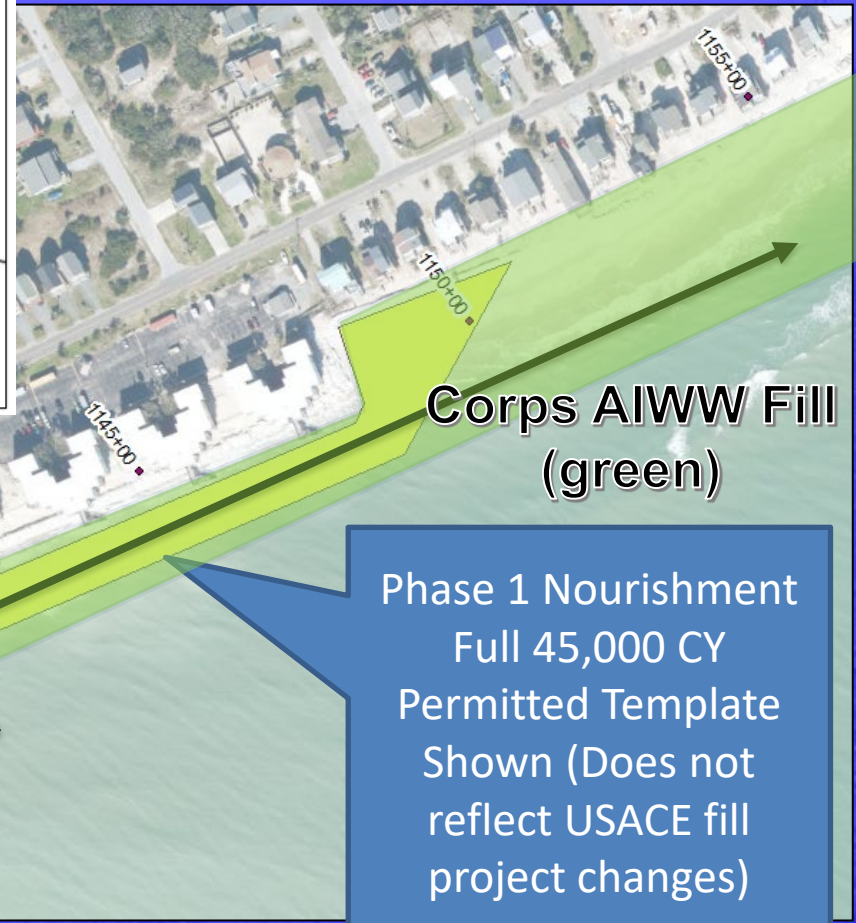
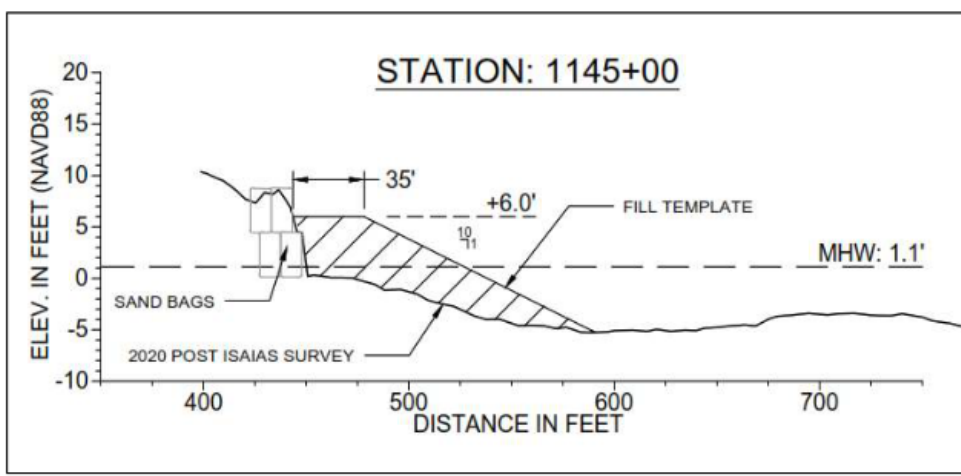
APPROXIMATE LIMITS OF BEACH PLACEMENT AREA  
FILL MATERIAL SHALL BE PLACED AT TYPICAL BEACH PLACEMENT SECTION UNTIL MATERIAL TO BE DREDGED IS EXHAUSTED.  
WIDTH OF TYPICAL BEACH PLACEMENT SECTION MAY BE ADJUSTED AT THE DISCRETION OF THE C.O.R. TO ASSURE MATERIAL PLACEMENT WITHIN THE LIMITS INDICATED. PLACEMENT FOR TANGENT 1 AND TANGENT 2 STATION 0+00 - 30+00.



- 2. VERTICAL DATUM NAVD83. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING HORIZONTAL AND VERTICAL CONTROL PRIOR TO PLACEMENT OF DREDGED MATERIAL IN THE DESIGNATED PLACEMENT AREA.



# Permitted Nourishment NON-COBRA Areas in Phase 1 Beach (not Dune) Truck Haul Nourishment



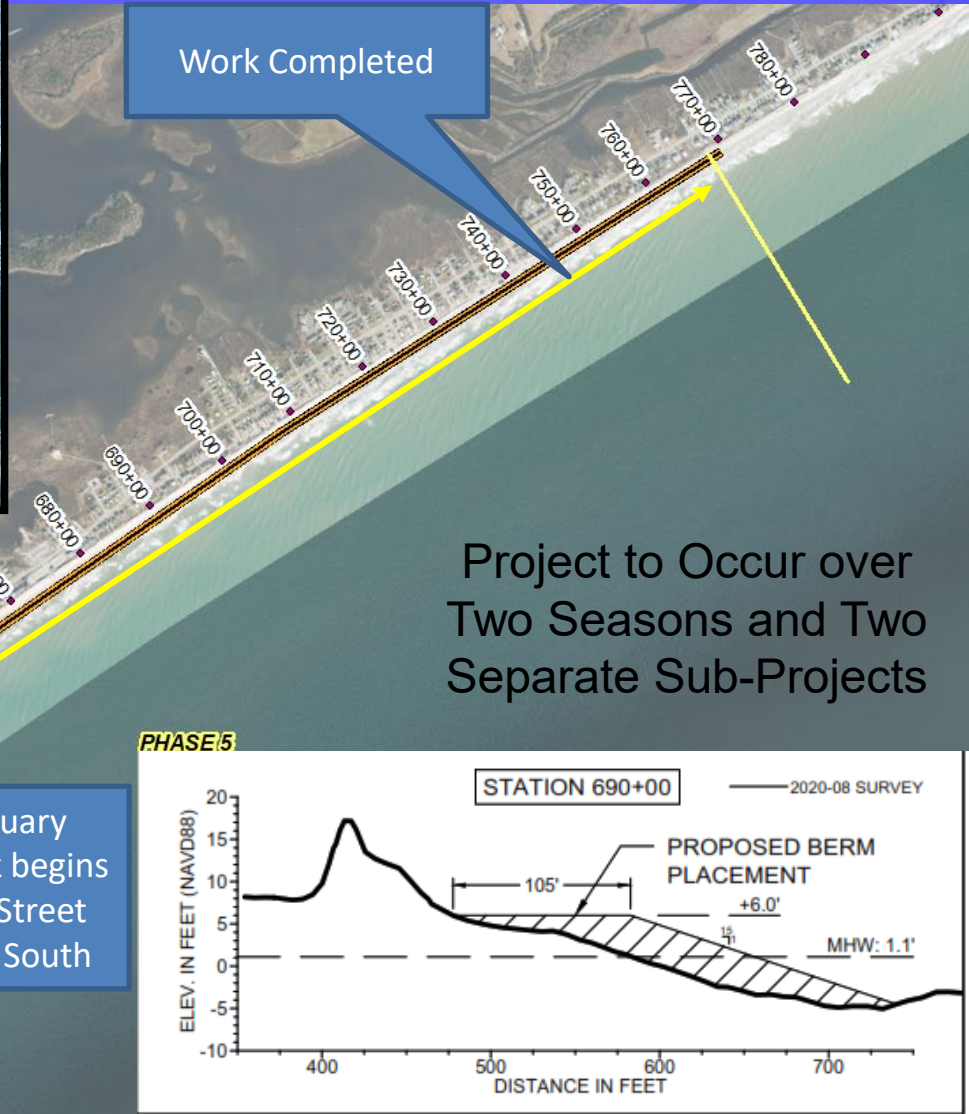
Phase 1 Truck Haul Nourishment  
(yellow)  
To Augment USACE Nourishment

Phase 1 Nourishment  
Full 45,000 CY  
Permitted Template  
Shown (Does not  
reflect USACE fill  
project changes)

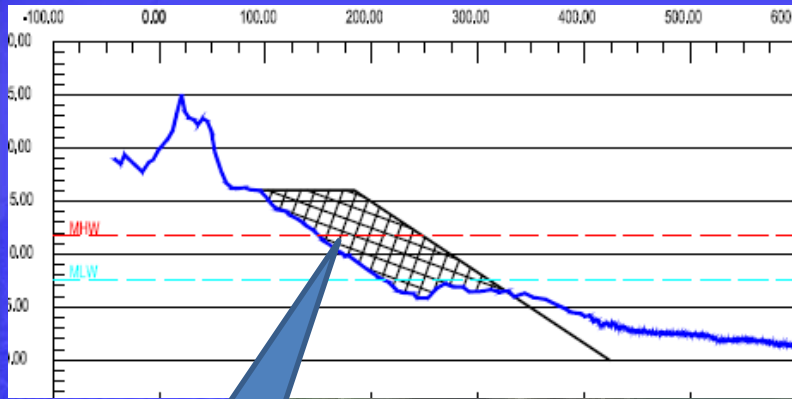
USFWS Coastal  
Barrier  
Resources Act Unit

- Phase 1 Nourishment – 15,000 cy FEMA funded

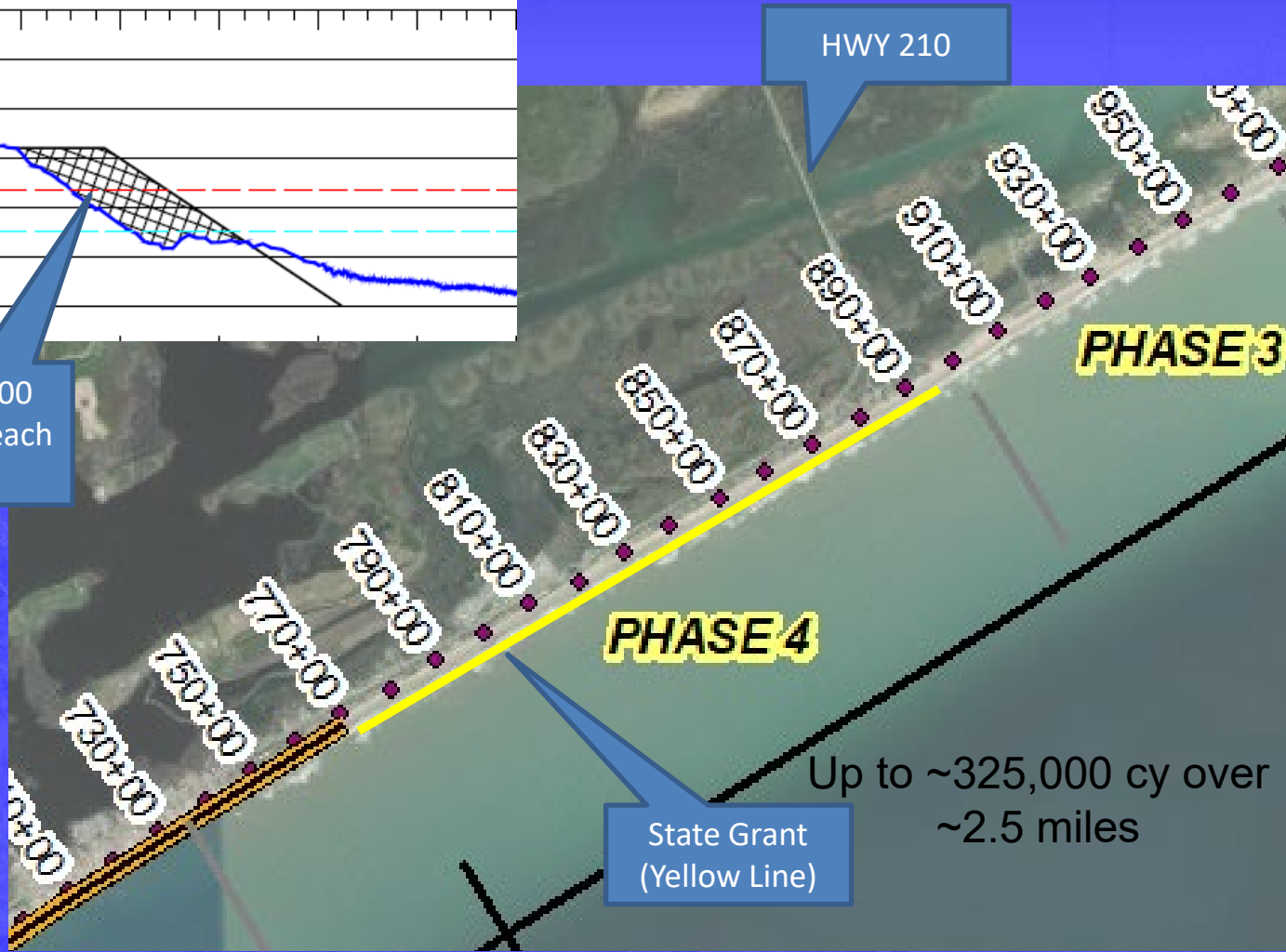
# Florence & Dorian Nourishment in Phase 5 Has Begun. Beach (not Dune) Nourishment



# Successful State Grant in Phase 4. Beach (not Dune) Nourishment



~80 to 100 Feet of Beach Width



State Grant (Yellow Line)

Up to ~325,000 cy over ~2.5 miles

Project to Occur Next Season –  
Permitting Ongoing

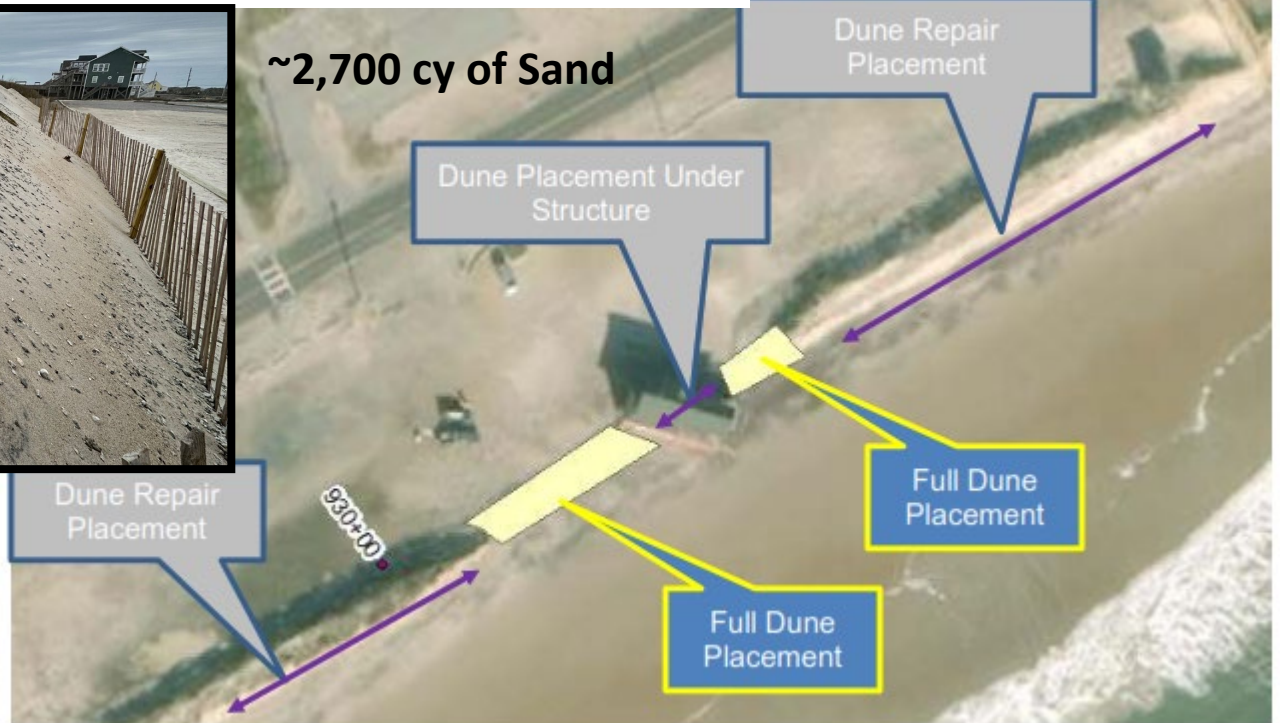
# County Beach Access Dune Rehabilitation



Figure 1: Dune Material Placement (photo taken February 3, 2021).



~859 cy of Gravelly Sand



~2,700 cy of Sand

Figure 2: Plan view dune placement schematic.

# Town Beach Projects Updates

- USACE AIWW/Channel Dredging and Phase 1 Placement
- Hurricane Dorian Phase 1 FEMA Category G (~15,000 cy) near Topsail Reef Villas and ~45,000 cy permitted (Nov 16, 2022, to April 1, 2023).
- New River Inlet Management Master Plan EIS: Continued EIS processing and meetings. Additional Modeling Completed.
- County Beach Access 4 – Gravelly Sand Mitigation
- State Grant Nourishment (Phase 4 and connects with Phase 5 Truck Haul)
- Phase 5 Beach Nourishment - ST Wooten working north. ~290,000 cy placed. Tranche 1 to be completed soon.
- Separate 2<sup>nd</sup> Tranche Truck Haul for Phase 5 - ~290,000 cy. Start at Gray Street and work south – Started Late February 2023
- Working with NTB Finance Officer and DEC Associates regarding funding for FEMA and State funded projects
- Permitting Coordination (all projects)

