

Isle of Palms Beach Management Update



COASTAL SCIENCE & ENGINEERING

Current Projects along IOP

- South End USACE Beneficial Use Project
- Shoal Management Project
- Large-Scale Nourishment Permitting
- Monitoring



Shoal Management Project Status

- Phase 1 work completed 22 May, 2025
- Total of 117,500 cy moved from shoal area
- ~80,000 cy at Beachwood
- ~38,000 cy at Ocean Club/Seascape
- Project limited by funds, tide conditions, and beach use



Early Construction



Shoal Harvesting



Completed Project



Completed Project



Completed Project



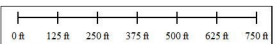
Completed Project



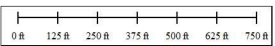
Gap at west end of
shoal is shrinking, but
still causing focused
waves



Nov 2024



Apr 2025



May 2025



May 28, 2025



May 28, 2025



Project Outcomes and Expectations

- Project restored a dry sand berm along both fill sections
- Access around stone revetment at Seagrove improved
- Project withstood multiple nor'easter events with no damage to structures
- Sand volume was lower at east fill area due to stability of the beach prior to the project – most of dry sand at Ocean Club has shifted but a wider intertidal beach remains
- Focused erosion is still ongoing at Beachwood, but reducing
- Western arm of shoal will likely merge with beach or other shoal in next ~6 months
- Eastern arm is attached and we should start seeing recovery shifting east soon
- Possible Phase 2 of initial project is possible in fall if necessary

USACE Project

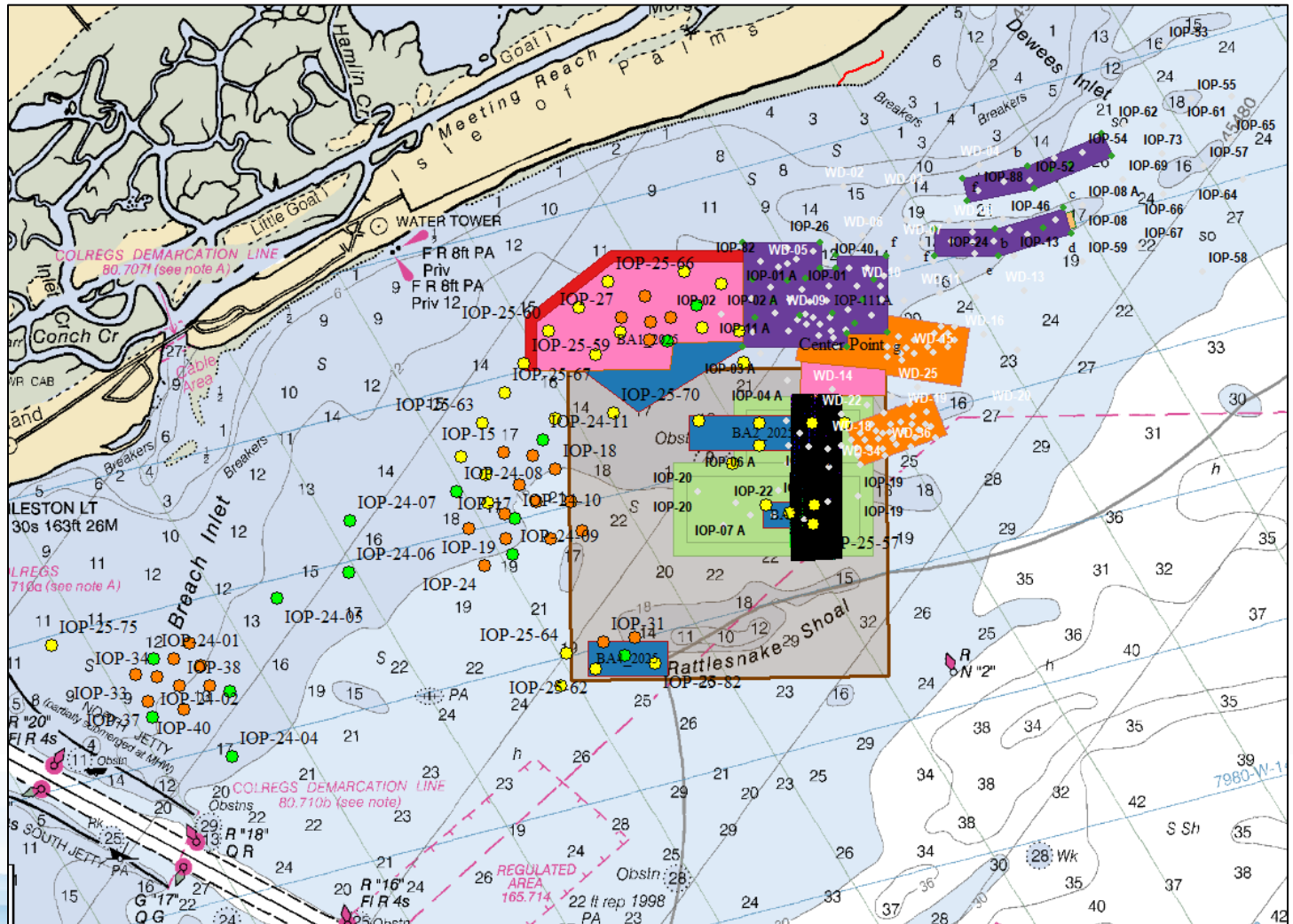
- Ongoing work along south end.
- All work to date has been south of 3rd Ave
- CSE requested USACE shift work further north
- Estimated ~150,000 cy have been placed to date (CSE rough est)
- IOP sponsored dune restoration relocated 35,000 cy of material into a new dune between Breach Inlet and 10th Ave.
- Dune has held up well through multiple spring tides >7.5 ft
- CSE recommends planting the dune in the early fall with dune veg

South End Dune



Large-scale Nourishment

- CSE is finalizing geotechnical investigations –
 - Collection, processing, and analysis of ~80 offshore borings
- Biological Assessment ~80% - pending final borrow area info
- Coordinating with SHPO for identification of suitable borrow area and geophysical data collection
- Will include recommendations from Beach Ad-hoc committee approved by council
- Permit submission by end of July 2025, issued by early-mid 2026
- First possible construction window Fall 2026/early 2027



Monitoring

- Annual survey scheduled for July 2025
- Feb 2025 survey shows continued erosion south of pier and dynamic east end
- Trend is positive for next 6 months

