

SECTOR 3 BEACH NOURISHMENT

Client: Indian River County, FL



The “*Indian River County Beach Preservation Plan Update*” recommends nourishment of the County’s critically eroded beaches including Sector 3 on the barrier island. Previous Coastal Tech work included those tasks necessary to advance and complete the project area fill design and obtain permits from Florida Department of Environmental Protection (FDEP) and the U.S. Army Corps of Engineers (USACE) for the project in collaboration with County staff with periodic updates to the County’s Beach and Shore Preservation Advisory Committee.

Coastal Tech has also provided additional environmental and geological services to fulfill requirements posed by the FDEP during their review of the Joint Coastal Permit (JCP). The environmental services entailed field investigations and associated professional services to yield mapping and characterization of turtle abundance and hardbottom communities fronting the proposed *Project Area*. The geological services entailed engineering and geological assessments required by FDEP to generally provide greater reliability relative to assessment of potential impacts upon nearshore hardbottom, and greater assurances that proposed sand fill was beach-compatible.

Construction of Phase I began on February 9, 2010. Roughly 317,000 cubic yards of sand (about 18,650 dump truck loads) were placed. During the Phase I construction, Coastal Tech monitored the progress of construction and checked the sand that was placed in the project area to provide reasonable assurance that it was of consistent size and color to the existing beach sand. Coastal Tech also provided administrative oversight for permit reporting compliance during the construction process. When Phase I was completed, Coastal Tech prepared a post-construction monitoring report and provided the report to both state and federal agencies. Coastal Tech also reviewed the site to determine any impacts that were made to the nearshore hardbottom as a result of the construction. Phase II construction began in November 2010 and calls for 270,000 cubic yards (roughly 15,900 dump truck loads) to be placed in the Archie Carr National Wildlife Refuge.



Key Elements

- Beach Committee Meetings
- Preliminary Design
- Numerical Mike21 Modeling
- Final Design Plans & Specs
- FDEP Permit/ ECL Establishment
- USACE Permit/NEPA Compliance
- Construction Administration

Date: 2006 - Present

Fees: \$690,143.

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