

# COASTAL ENGINEERING PROJECT

## BEACH RENOURISHMENT PROJECTS & ASSOCIATED INLET MAINTENANCE DREDGING

### Owner:

- ▶ US Army Corps of Engineers -  
Wilmington District

### Locations:

- ▶ Wrightsville Beach, NC
- ▶ Carolina Beach, NC
- ▶ Masonboro Island, NC
- ▶ Masonboro Inlet
- ▶ Carolina Beach Inlet

### Cost:

- ▶ \$3,400,000 (estimated)

### Project Highlights:

- ▶ Inlet Maintenance Dredging
- ▶ Beach Renourishment for  
USACE's Storm Damage reduc-  
tion Projects.
- ▶ 1,409,000 cubic yards of  
dredge material for  
Wrightsville Beach/Masonboro  
Island renourishment
- ▶ 1,038,000 cubic yards of  
dredge material for Carolina  
Beach renourishment.



**US Army Corps  
of Engineers®**



Carolina Beach Inlet  
North end of Carolina Beach



Masonboro Inlet  
Masonboro Island  
South end of Wrightsville Beach

**CRISER • TROUTMAN • TANNER** provided complete engineering design services for the USACE - Wilmington District to produce contract documents, plans and specifications for beach renourishment & maintenance dredging of Masonboro Inlet (between Wrightsville Beach and Masonboro Island) and Carolina Beach Inlet (between Masonboro Island and Carolina Beach), primarily to obtain borrow material for renourishment projects. Dredge material from each of the inlets was used for beach renourishment projects consisting of a sand bypassing project on the northern end of Masonboro Island, replacement of the eroded beach berm and dune as part of the USACE's storm damage reduction projects on the southern end of Wrightsville Beach and the northern end of Carolina Beach.

Design services included analysis and quantity computations of pre- and post-dredging depths, dredge volumes, beach volumes & profiles, engineering design, cost estimates for maintenance dredging, preparation of technical specifications and contract documents, and meetings the USACE.