

Dredging Impact Studies in Support of an Environmental Impact Statement for Marine Container Terminal Development ***South Carolina State Ports Authority, Port of Charleston***

Services Rendered

- Prepared Tier I Sediment Quality Evaluation
- Prepared Tier II Sampling and Analysis Plan
- Conducted Sediment and Background Water Quality Sampling and Analyses
- Prepared Sediment Quality Screening Report
- Evaluated Contained Disposal Facility (CDF) Effluent Quality Evaluation

Project Summary

The South Carolina State Ports Authority (SCSPA) submitted an application to construct a marine container terminal at the southern end of the former Naval Station Charleston (now referred to as the Charleston Naval Complex or CNC). The US Army Corps of Engineers, Charleston District determined that the proposed project's environmental impacts would likely be of a magnitude to warrant completion of an Environmental Impact Statement as prescribed by the National Environmental Policy Act.

The proposed berthing and turning basin areas would require the dredging of approximately 5.3 million cubic yards of sediments and the placement of fill material within the waters of the United States, hence the dredging part of the overall project was subject to Section 404 of the Clean Water Act (CWA) and would require State of South Carolina Department of Health and Environmental Control CWA Section 401 water quality certification. ATM conducted all necessary sediment quality tiered evaluations required for placement of dredged material within an existing CDF. The sediment quality evaluation consisted of completion of Tier I and Tier II tasks, as well as analytical and numerical modeling of predicted CDF effluent quality using the Automated Dredge Disposal and Management System (ADDAMS) EFQUAL module and numerical modeling of predicted CDF performance using the ADDAMS CDFATE and SETTLE modules.

