

Established in 1983, Taylor Engineering, Inc. provides specialized technical services in water resources and coastal engineering and the environmental sciences through five operational groups:

- Coastal Engineering
- Environmental Sciences
- GIS
- Hydrology and Hydraulics
- Waterfront Engineering

Within these service areas, specific expertise includes

- Flood risk analysis and floodplain management
- Coastal engineering, hydraulics, planning, and management
- Shore protection, including coastal structures and beach nourishment
- Navigation, including dredging and dredged material management
- Marine structure planning, permitting, and design
- GIS development and programming
- Disaster assessment and emergency response
- Sediment and water quality monitoring and modeling
- Ecosystem restoration
- Environmental impact studies
- Port engineering and marina design
- Stormwater management

Taylor Engineering has completed projects throughout the United States, Caribbean Basin, and South America for public and private sector clients.

Dredging & DREDGED MATERIAL MANAGEMENT

Cover: DU-9, one of 54 Dredged Material Management Areas (DMMA's) located along Florida's east coast, provides space to dewater and store material dredged from the Atlantic Intracoastal Waterway (ICWW) navigation channel.

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TAYLOR ENGINEERING, INC.

Navigation channels, harbors, and port berthing areas typically require dredging to establish and maintain adequate depth. In recent years, dredging has grown in importance as a tool for environmental restoration. Whether the goal is improved navigation or restored environment, an effective dredging operation begins with a sound plan that addresses technical engineering questions and equally important issues such as economic and environmental constraints. We feel justifiably proud of our specialized ability to lead dredging and dredged material management projects from concept through construction.



MSA 434, one of 54 Dredged Material Management Areas (DMMAs) located along Florida's east coast, provides space to dewater and store material dredged from the Atlantic Intracoastal Waterway (ICWW) navigation channel.

Dredging & DREDGED MATERIAL MANAGEMENT

Within this area of expertise, we apply the following specialized services:

- Alternative and beneficial uses of dredged material and management strategies, including beach placement
- Automated tracking and reporting of dredging and disposal operations
- Dredging and dredged material management design
- Dredged material dewatering and handling design
- Dredged material disposal area site design
- Dredging operations efficiency evaluations
- Identification and design of shoaling reduction alternatives
- Identification, inspection, evaluation, and selection of dredged material placement sites
- Litigation assistance and expert witness
- Maintenance dredging design
- Navigation analysis and channel design
- Open-water capping of contaminated sediments
- Regulatory permitting and submerged land issues
- Sedimentation and shoaling studies
- Structural alternative design to dredging



*Sebastian Inlet dredged channel design provides safe navigation through the flood shoal to the ICWW.
Photo courtesy of St. Johns River Water Management District.*