

New Sand for the Grand Strand: Federal Sand for the 2008 Beach Project

*Atlantic OCS Sand Management Working Group
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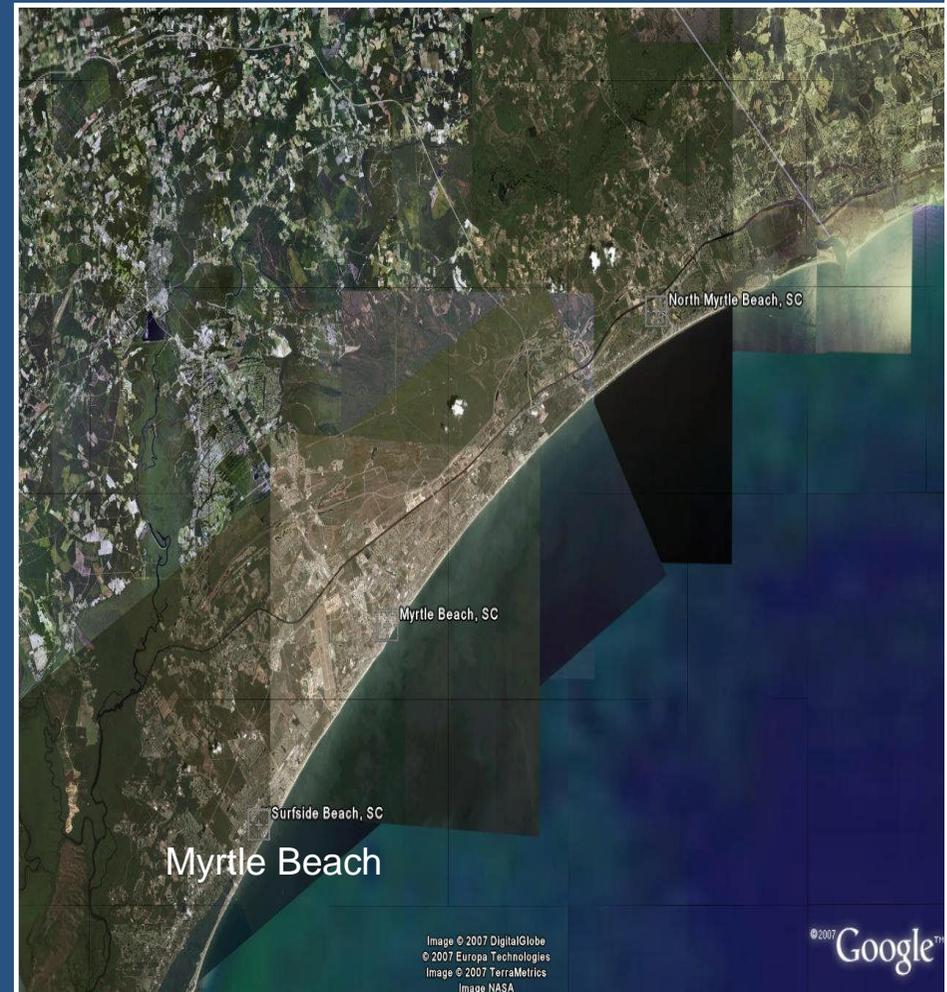
<http://www.mms.gov/offshore/leasing.htm>



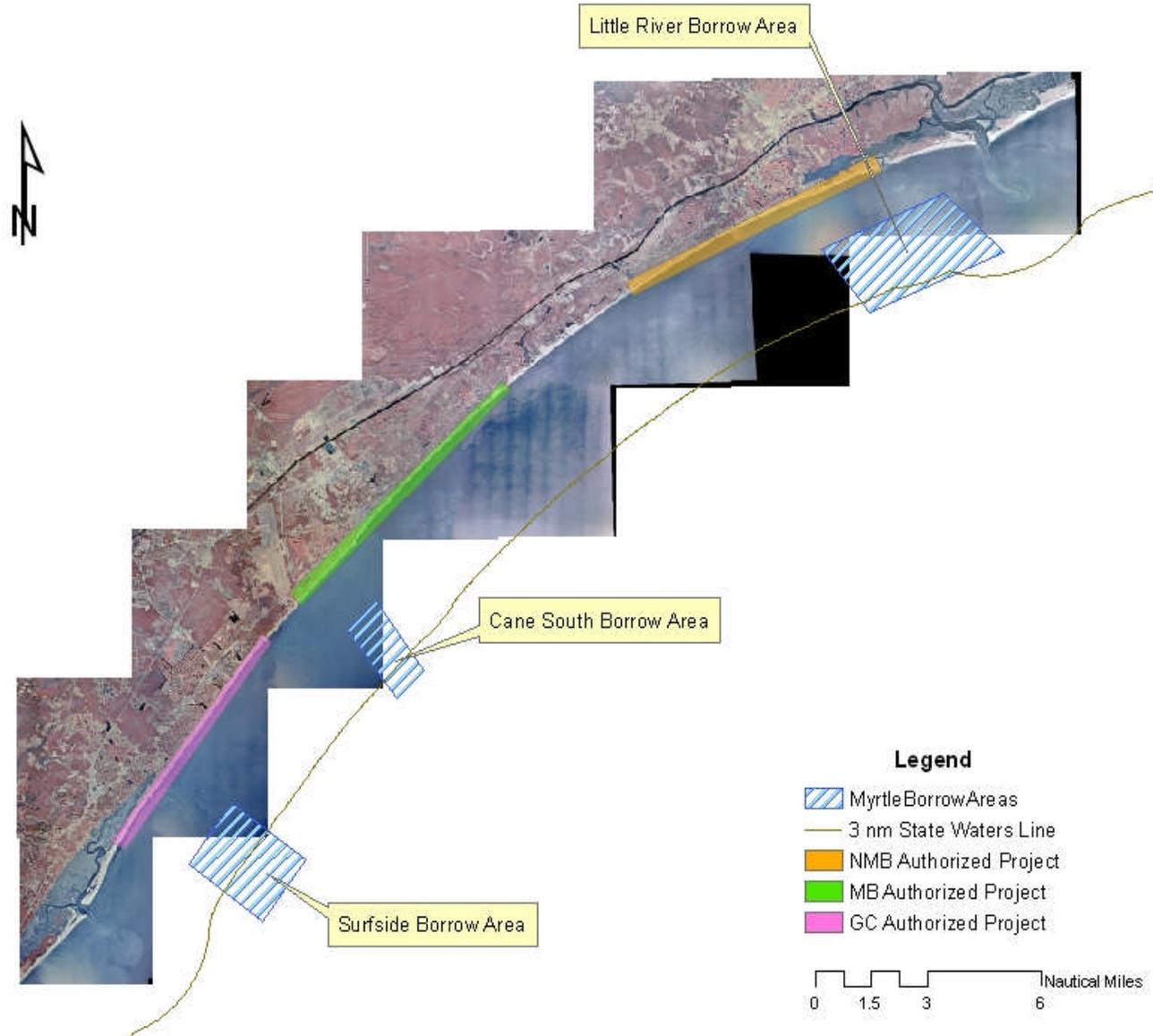
2007 Requests for OCS Sand from 3 South Carolina communities

- *City of Myrtle Beach*
- *City of North Myrtle Beach*
- *Surfside and Garden City Beaches, Horry County*

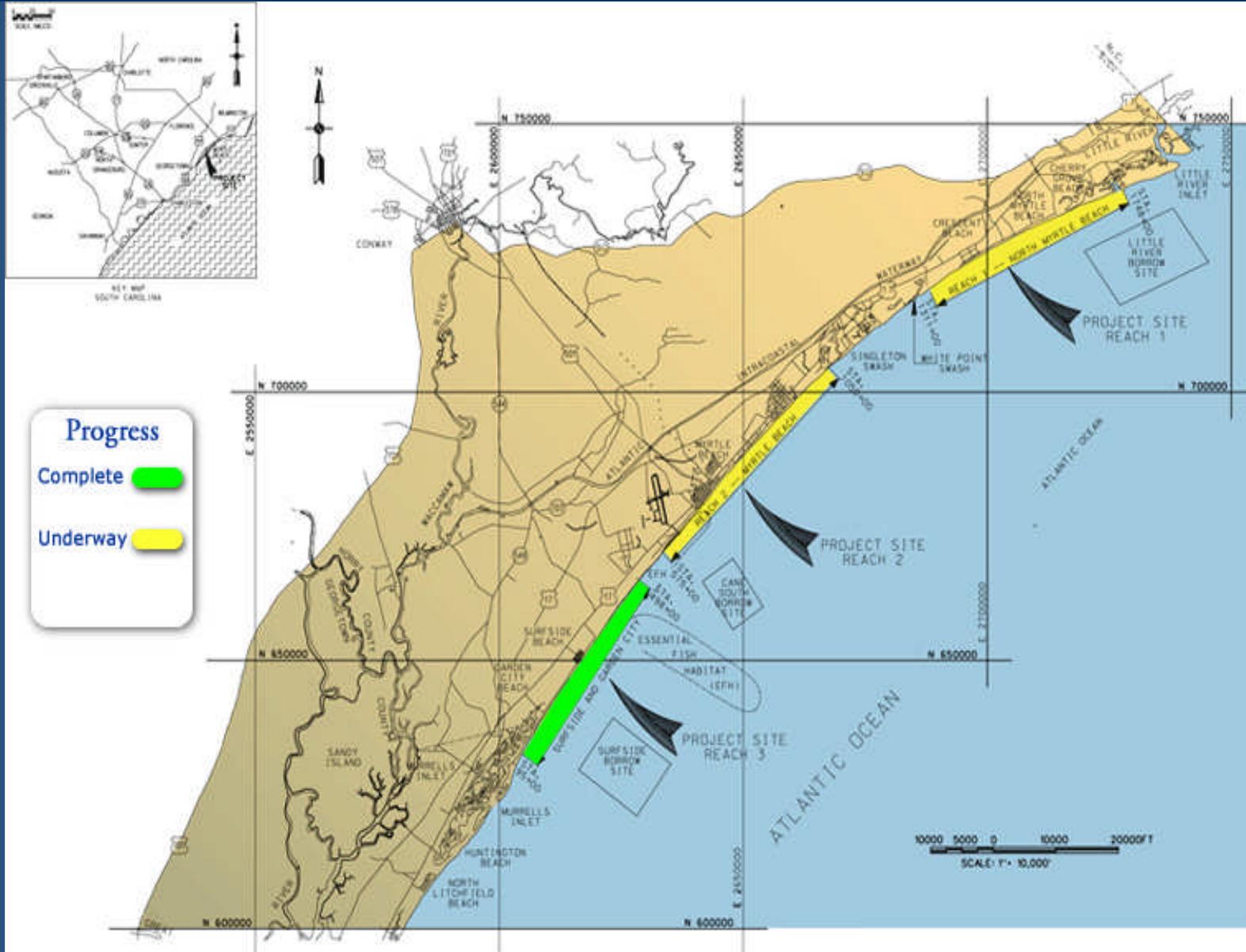
Total of 3 million yards
is required for the
renourishment of 25 miles
of the Grand Strand.
About 75% of the sand is
from State Waters



Grand Strand Project Overview



Grand Strand: Current Status

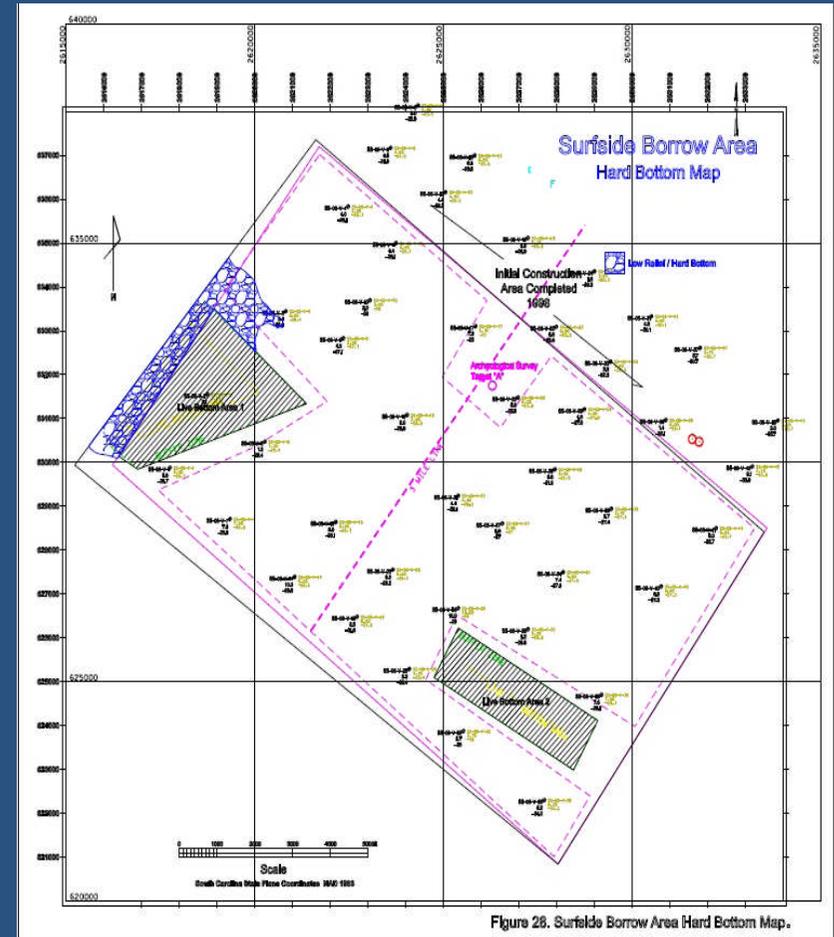


Surfside Beach, Horry County

Reach 3

Surfside and Garden City Beaches required 778,600 cubic yards of sand from the Surfside Borrow Area

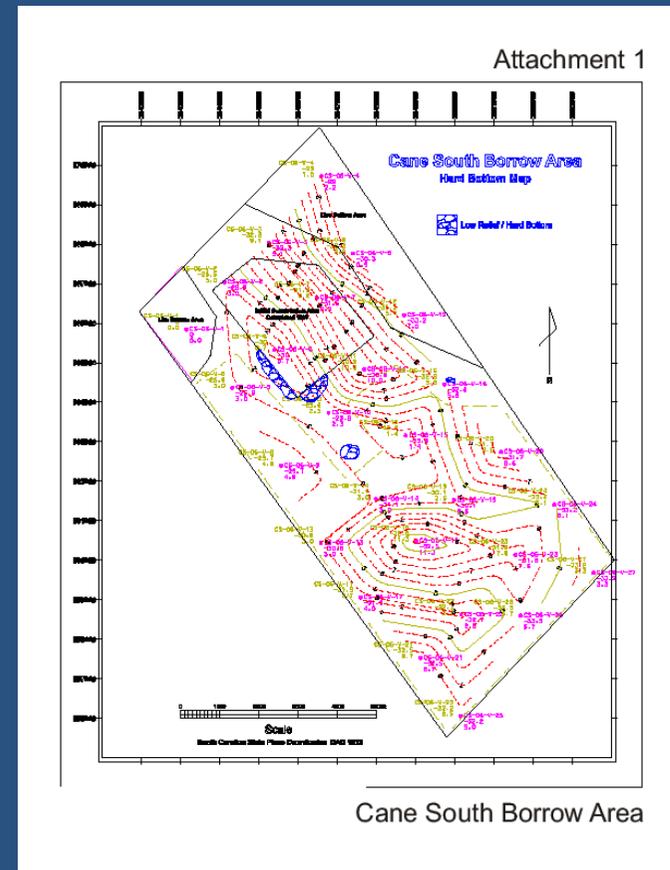
Area straddles the 3-mile line and includes 2 hard bottoms and one archaeology exclusion



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Myrtle Beach – Reach 2

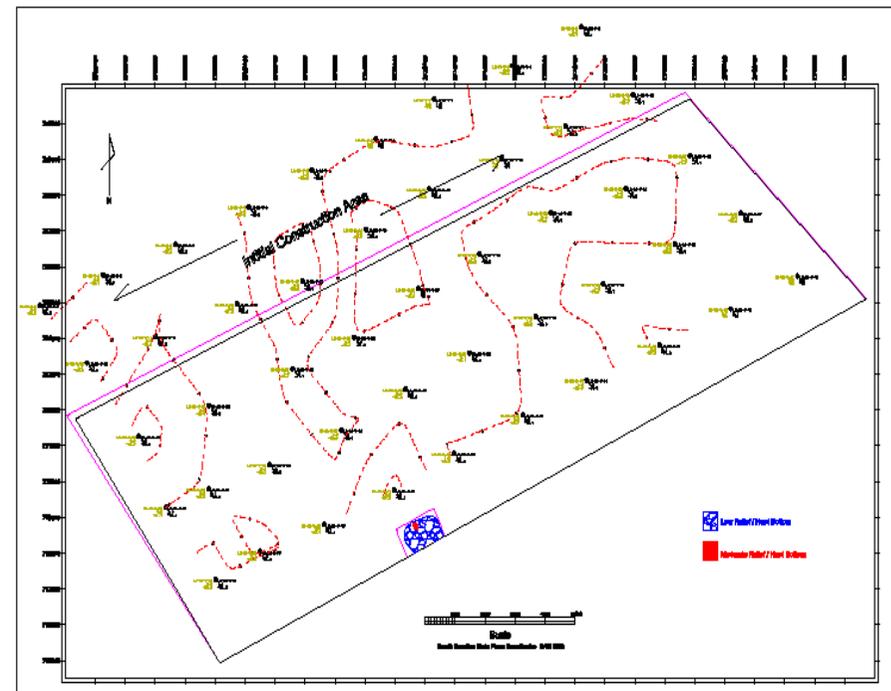
- Reach 2 required 1,442,500 cubic yards of sand
- Cane South Borrow Area is used, part of which was used in the 1997 beach nourishment
- 2/3 of Borrow Area is in State Waters
- Borrow Area contains 3 hard bottom areas of exclusion



North Myrtle Beach-Reach 1

- Reach 1 required
703,000 cubic yards of sand
from the Little River South
Borrow Area
- 95% of Borrow Area is in
State Waters
- Borrow Area contains
only one small hard ground

Attachment 1



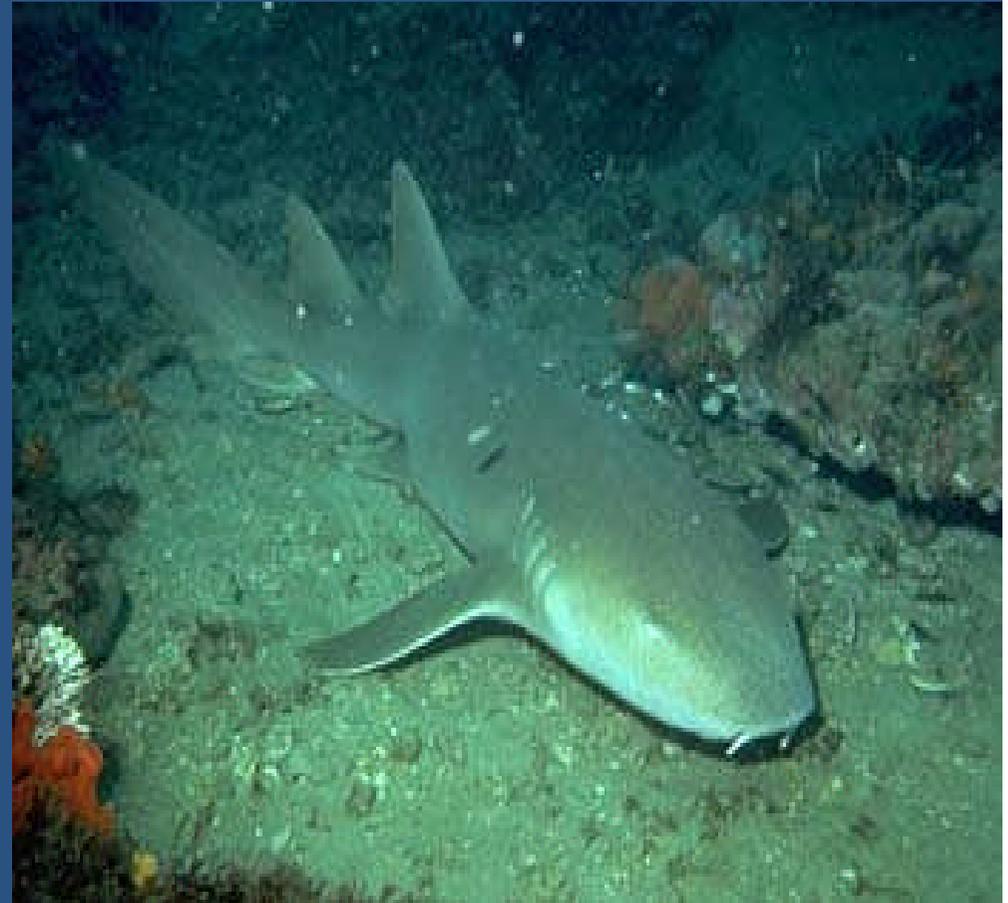
Little River Borrow Area

Environmental Issues of Concern to MMS

- Species protected under the Endangered Species Act (ESA) – Turtles (nesting and IT), Right Whales
- Essential Fish Habitat – Avoidance of Hurl Rocks, a Habitat Area of Particular Concern (HAPC)
- Other Hard Bottom Areas – 600-foot buffer zones
- Archaeological Resources
- CZMA consistency with State Plan
- Dredger's depth of cut and footprint
- Post-dredging monitoring

Essential Fish Habitat (EFH)

- Avoidance of Hurl Rocks HAPC
- 600-foot buffer for all hard bottom areas
- Post-dredging monitoring to be conducted by State DNR/Coastal Carolina University



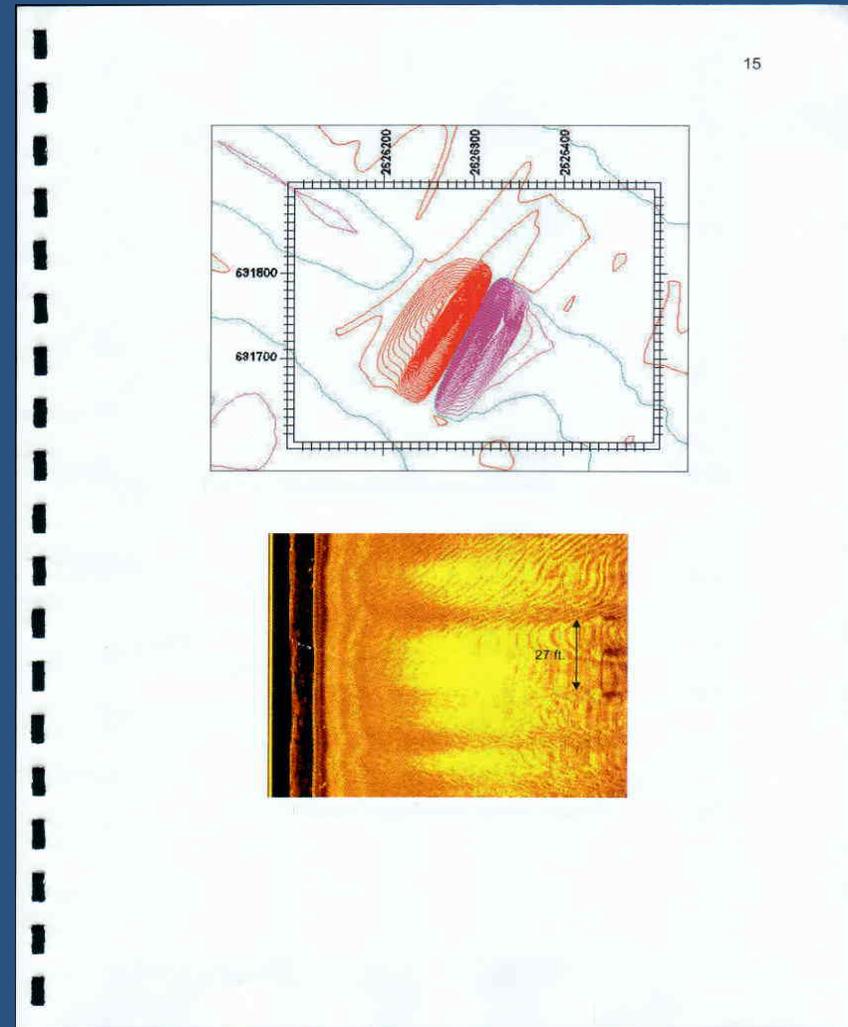
Endangered Species Act (ESA)

- NMFS Biological Opinion listed IT's for Loggerhead, Kemp's ridley, Green sea, and Hawksbill turtles, Shortnose sturgeon, and Humpback and Right whales



Archaeological Survey

- Survey completed in fall 2006
- 4 magnetic anomalies
- 2 side-scan anomalies
- One was considered historically significant and given a 200-ft buffer zone



Air Quality Analysis

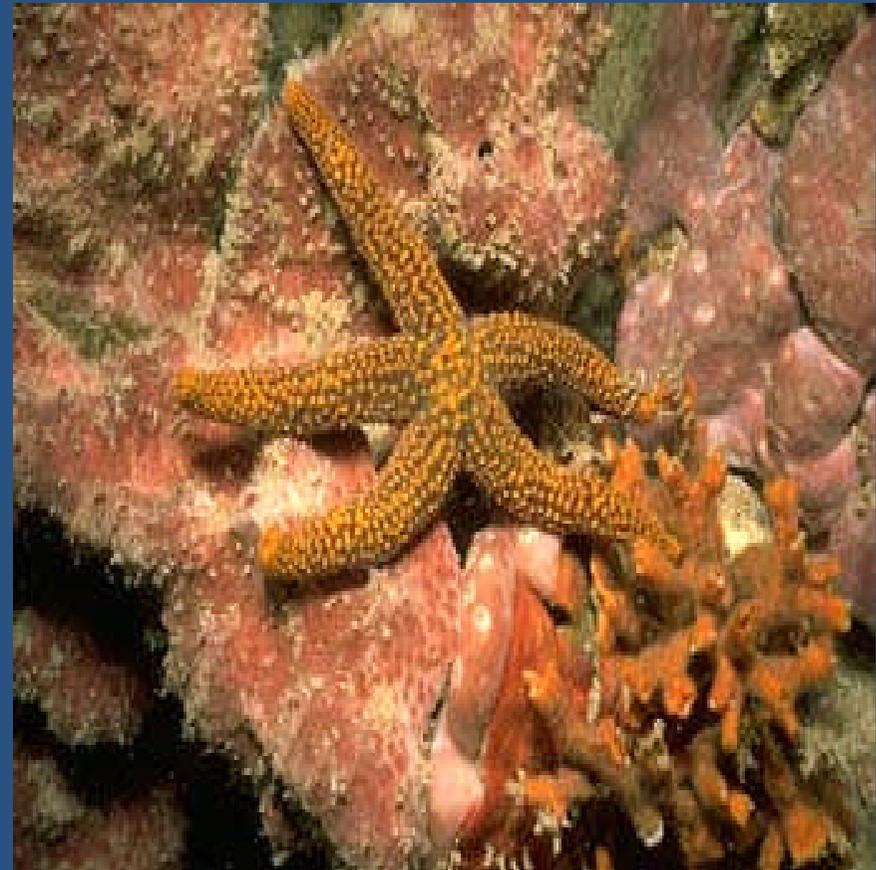
- Examine historical ambient air quality data (last three years)
- Determine attainment status:
- The Grand Strand is an EPA air quality attainment zone
- If nonattainment, assess need for conformity determination
- Obtain list of equipment, rated capacity, fuel requirements, number of hours of operation
- Estimate project emissions using appropriate emission factors

Coastal Zone Management Act Consistency

- State of South Carolina gave consistency to the first Horry County-Myrtle Beach nourishment project in 1992
- State reaffirmed consistency for the current project in July 2007

Hardgrounds/Live Bottoms

- State DNR and Coastal Carolina Univ. have extensive data on hardgrounds in the area
- Hurl Rocks (a Habitat of Particular Concern) is a large hardground area between Cane and Little River borrow sites
- A State program will monitor hardgrounds during and after dredging



Surfside-Garden City Results

Myrtle Beach Shore Protection Project – Reach 3 Garden City / Surfside Beach Renourishment 2007/2008

Before and after photos – D.Wall

Before (March 9, 2007)



After (February 21, 2008)



97+50 Looking South (Public Access No.26 - southern limits of project)



97+50 Looking North (Public Access No.26 - southern limits of project)



161+00 Looking South (Yucca Ave.)



Myrtle Beach Construction 2008















Questions ?



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