

FACT SHEET "The Outer Harbor Phase" Section 933 Project - Phase I Bogue Banks, Carteret County

PROJECT DESIGN - Phase I of the Morehead City Harbor Section 933 Project will utilize beach-quality sand that resides as shoal material in the Outer Harbor for beach nourishment. Sand was obtained from the Outer Harbor utilizing a self-contained hopper dredge that subsequently steamed to the offshore environment near Indian Beach and pumped the material from the dredge to the shorelines of Indian Beach, Salter Path, and Pine Knoll Shores. The beach nourishment template included a "30-foot design berm" comprised of two fundamental elements; (1) The construction of a sand berm at an elevation of approximately 7 feet above sea level, and (2) A seaward extension from the berm to the ocean at a 1 vertical to 25 horizontal slope. During construction, the berm was extended by approximately 170 feet and is expected to equilibrate to the 30-foot design. There was no dune construction planned for the Project.

CONSTRUCTION SUMMARY - FY 2004

Total Length of Beach:

Pine Knoll Shores (Section 933 Project - Phase I)	2,200 feet	0.42 miles
Indian Beach/Salter Path (Section 933 Project - Phase I)	13,400 feet	2.54 miles
TOTAL	15,600 feet	2.95 miles

Verified Sand Sources for Phase I:

Outer Harbor Maintenance Dredging (2004)	699,282 cubic yards
TOTAL	699,282 cubic yards

Distribution of Sand in Cubic Yards:

Pine Knoll Shores (Section 933 Project - Phase I)	69,189 cubic yards
Indian Beach/Salter Path (Section 933 Project - Phase I)	630,094 cubic yards
TOTAL	699,282 cubic yards

Cubic Yards per Linear Foot (cy/ft):

Pine Knoll Shores (Section 933 Project - Phase I)	31 cy/ft
Indian Beach/Salter Path (Section 933 Project - Phase I)	47 cy/ft
AVERAGE	45 cy/ft

FISCAL SUMMARY - FY 2004

Funding Requirements:

Federal Share

Base Disposal Costs (100%)	\$1,880,800
Section 933 Project - Phase I (65%)	\$2,934,100
Subtotal	\$4,814,900

State Share

Base Disposal Costs (0%)	\$0
Section 933 Project - Phase I (26.25%)	\$1,184,925
Subtotal	\$1,184,925

Local Share

Base Disposal Costs (0%)	\$0
Pine Knoll Shores Section 933 costs (1.47%)	\$66,542
Indian Beach Section 933 costs (7.28%)	\$328,433
Subtotal	\$394,975

TOTAL	\$6,394,800
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Relative Costs:

Cost per Linear Foot (\$ 2004)	\$410
Cost per Mile (\$ 2004)	\$2,164,394