FACT SHEET
Post-Ophelia Sand Replenishment Project
Bogue Banks, Carteret County

PROJECT DESIGN - The Post-*Ophelia* Sand Replenishment Project will place ~1.1 million cubic yards of sand along 10.4 of the ~18 miles of oceanfront shoreline encompassing Emerald Isle, Indian Beach/Salter Path, and Pine Knoll Shores. The total placement volume is the exact quantity lost to *Ophelia* in 2005 and the beachfill will be placed in five discrete reaches based upon surveyed, post-storm beach conditions. The project qualifies for FEMA reimbursement. The beach nourishment template includes two fundamental elements; (1) The construction of a sand berm at an elevation of approximately 7 feet above sea level extending seaward from the existing berm, and (2) A seaward extension from the berm to the ocean at a natural slope. During construction, the berm will be extended by approximately 60 feet and is expected to equilibrate. There is no dune construction planned for the Project.

CONSTRUCTION SUMMARY (2007)

Total Length of Beach:		**feet**	**miles**
Reach I (Emerald Isle)		13,604	2.6
Reach II (Emerald Isle)		14,059	2.7
Reach III (Indian Beach/Salter Path)		13,389	2.5
Reach IV (Pine Knoll Shores)		3,487	0.7
Reach V (Pine Knoll Shores)		10,128	1.9
	Total	54,667	10.4

Volume of Beachfil:		**cubic yards (cy)**	**cy / linear foot**
Reach I (Emerald Isle)		262,080	19.3
Reach II (Emerald Isle)		307,080	21.8
Reach III (Indian Beach/Salter Path)		298,604	22.3
Reach IV (Pine Knoll Shores)		59,560	17.1
Reach V (Pine Knoll Shores)		180,236	17.8
	Total	1,107,560	20.3

FISCAL SUMMARY (2007)

Mobilization / Demobilization:		
Emerald Isle		$940,000.00
Indian Beach/Salter Path		$940,000.00
Pine Knoll Shores		$940,000.00
	Subtotal	$2,820,000.00

Dredging / Beachfill:		
Emerald Isle		$5,628,992.40
Indian Beach/Salter Path		$2,953,193.56
Pine Knoll Shores		$2,371,582.44
	Subtotal	$10,953,768.40

Totals:		
Emerald Isle		$6,568,992.40
Indian Beach/Salter Path		$3,893,193.56
Pine Knoll Shores		$3,311,582.44
	Total	$13,773,768.40

Relative Costs:	
Cost per Linear Foot ($ 2007)	$54,667
Cost per Mile ($ 2007)	$1,330,336