

**Application:** Large Sand Bags  
**Customer:** Private Owner, Outer Banks, NC  
**Product:** TitanBag®

### **BACKGROUND**

The North Carolina Outer Banks are a chain of sandbars or barrier islands, located along the Atlantic Coast. They are low and narrow with shifting sand dunes along the beaches. The waters off Cape Hatteras are called the Graveyard of the Atlantic because treacherous waters and shifting sandbars have caused many shipwrecks in the area. It is in this area that Blackbeard the pirate preyed.

### **THE PROBLEM**

Hurricanes and nor'easters had eroded underneath the house and loss of the house was imminent. North Carolina only allows the use of tan-colored sandbags measuring a maximum of 5' x 15'.

### **THE TEAM**

The homeowner selected Yogi Harper of Erosion Control Specialists of Nags Head, NC to provide and fill the large sandbags. Mr Harper opted to use the TitanBag® with its self-sealing port manufactured by Flint Industries Inc of Metter, GA.

### **THE DESIGN**

Erosion Control Specialists designed a 100 foot line of sandbags measuring 5' x 10'(flat) installed parallel to the beach. This line was placed under the structure (intermingled with the pilings) and was equipped with 40' sandbag "wings" at each end of the bag line. The tube line was placed on a scour sheet and trenched into the sand. The bags were oriented perpendicular to the beach and stacked 3 high.

### **THE RESULT**

Erosion was stabilized for the immediate future while beach nourishment and funding for the project is being debated.

**OWNER**  
Private Owner

**CONTRACTOR**  
Erosion Control Specialists

**MANUFACTURER**  
Flint Industries Inc

