

BREVARD COUNTY, SOUTH REACH, FLORIDA

Client

USACE – Jacksonville District

Contract

Value: \$10,500,000

Type: Hopper

Dredge: *Liberty Island*

Pumpout Distance: up to 13,500 feet

Duration: January–April 2010



Description

This project involved renourishment of the 3.8 miles of shoreline in southern Brevard County. The material was mined from the Canaveral Shores borrow area 24 nautical miles north of the placement site.

MONMOUTH & SEABRIGHT BEACHES, NEW JERSEY

Client

New Jersey District,
U.S. Army Corps of Engineers



Description

Dredging of sand from offshore borrow areas for replenishment of 4.8 miles of coastline. Work was completed using the dredge *Liberty Island*. The project also included the construction of rock groins.

Dredging for Beach Fill: 2.1 million yd³

OCEAN CITY, MARYLAND

Client

Baltimore District,
U.S. Army Corps of Engineers



Description

This project entailed renourishment of a 200-ft-wide beach over an 8.3-mile stretch of shoreline, followed by the construction of a hurricane protection bund complete with pedestrian crossovers and grass plantings to stabilize the dune system.

Dredging for Beach Fill: 2.4 million yd³ by cutter suction and hopper dredge

Dredging for Dunes: 3.6 million yd³ by cutter suction and hopper dredge

Pumping Distances: Up to 43,000 ft

FIRE ISLAND, LONG ISLAND, NEW YORK

Client

New York District,
U.S. Army Corps of Engineers



Description

Maintenance dredging of Fire Island Inlet to the shallow depth of -16 ft with deposition of the dredged sand onto Gilgo Beach and Robert Moses State Park Beach.

Dredging for Beach Fill: 1,000,000 yd³ to Gilgo Beach
100,000 yd³ to Robert Moses Park Beach

Pumping Distances: Up to 30,000 ft

LIBERTY ISLAND

Dimensions

Breadth: 59 ft (18.0 m)
Length: 315 ft (96.0 m)
Depth: 28 ft (8.5 m)
Draft Loaded: 25.5 ft (7.8 m)

Operating Parameters

Dredging Depth To: 108 ft (32.9 m)
Suction Diameter: 31.5 in (800 mm)
Discharge Diameter: 30 in (762 mm)
Sailing Speed Light: 14.0 KT
Sailing Speed Loaded: 15.3 KT
Hopper Capacity: 6,540 yd³ (5,003 m³)

Machinery & Power

Total Installed Power: 16,566 hp (12,353 kW)





ILLINOIS

Dimensions

- Length: 220 ft (67.1 m)
- Breadth: 67 ft (20.4 m)
- Depth: 12.5 ft (3.8 m)
- Overall Length: 320 ft (97.5 m)
- Draft: 9 ft (2.7 m)

Operating Parameters

- Dig Depth Range: 11.5 to 75 ft (3.5 to 22.9 m)
- Suction Diameter: 34 in (864 mm)
- Discharge Diameter: 30 in (762 mm)
- Ladder Weight: 502 tons (455,407 kg)

Machinery & Power

- Fuel Capacity: 175,000 gal (662,445 L)