

SOUTH LAKE WORTH INLET

Sand Transfer Plant
Construction

North & South Jetty
Rehabilitation

Bird Island Seawall
Construction

Project Overview

Start Date: April 2009
End Date: February 2011

Inlet History

- Excavated in 1925.
- Sand Transfer Plant installed in 1937 (first of its kind in the world).
- Sand Transfer Plant last modified in 1967.
- North jetty extension completed in 1967.
- Bird Island (also referred to as Beer Can Island) restoration began in 1996.

Project Location

- Between the towns of Manalapan and Ocean Ridge.

The Problem

- Sand transfer plant is structurally unsound and losing efficiency.
- Jetty surfaces and crib structures need repair.
- Bird Island Seawall is failing.

The Solution- Beginning 2009

- Build a new sand transfer plant.
- Replace the north and south jetty surfaces and repair the crib structures.
- Build a new seawall along Bird Island.



- Note the wider beach on the north side of the jetty and the contrasting eroded shoreline to the south of the jetty. The shoreline erodes because the jetties block the natural movement of sand along the shore in a north to south direction.
- The sand transfer plant on the north side of the jetty pumps a sand slurry through a pipe along the bridge to the shoreline on the south side of the inlet and discharges the sand back into the littoral system.



- Demolition of the old sand transfer plant began June 1, 2009.



- A new seawall is being constructed in front of the old one at Bird Island (shown above) located inside the inlet on the north side.

Project Partners

Palm Beach County and Florida Department of Environmental Protection



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