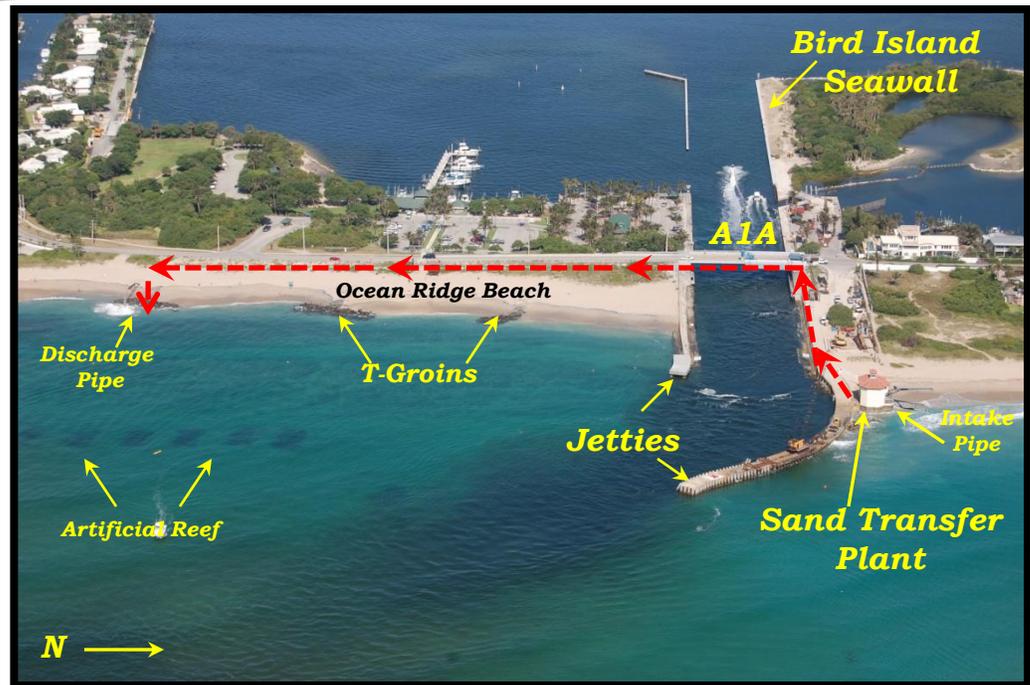


South Lake Worth Inlet Project

Sand Transfer Plant
Construction

North & South Jetty
Rehabilitation

Bird Island Seawall
Construction



Project Overview

North and South Jetties

- The original jetties were installed to keep the natural longshore movement of sand from entering the inlet.
- Current improvements include installation of:
 - 200 concrete piles to support the new north jetty.
 - New decking, handrails, and sheetpile walls on both jetties.
 - Monofilament recycling containers.

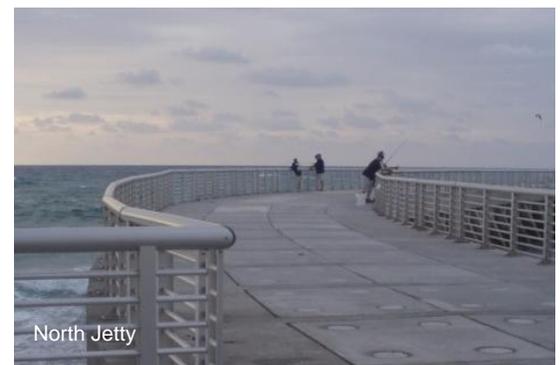
Sand Transfer Plant

- The sand transfer plant moves sand that builds up on the north side of the inlet to the sand starved beach on the south side.
- Current improvements include:
 - New 450 horsepower electric engine replaced the old diesel engine.
 - Marine doors, impact windows, and 18" thick poured concrete walls to protect the plant from the harsh marine environment.

Bird Island (formerly Beer Can Island)

- The new seawall was constructed in front of the old one, reinforcing the south side of the island.
- Current improvements include:
 - Relocation of cabbage palms and seagrape trees from work area to other areas on site.
 - Installation of over 20,000 salt-tolerant native plants within the work area.

The entire South Lake Worth Inlet Project was completed in May 2011.



North Jetty

Project Partners

Palm Beach County and Florida Department of Environmental Protection



Palm Beach County Board of County Commissioners
Department of Environmental Resources Management
2300 North Jog Road - Fourth Floor, West Palm Beach, FL 33411-2743
Phone: 561-233-2400 <http://www.co.palm-beach.fl.us/erm/coastal/shoreline/>

May 2011

Inlet History

- Excavated in 1925 to allow flushing of Lake Worth Lagoon.
- Jetties constructed in 1927 to keep sand from entering the inlet.
- First fixed sand transfer plant in the world installed in 1937 to offset shoreline erosion.
- North jetty extended in 1967.
- Bird Island restored in the 1990s including a least tern rookery created by Bird Island Trust.

Project Location

- Between the towns of Manalapan and Ocean Ridge.
- Connects the Atlantic Ocean with Lake Worth Lagoon.

The Challenge

- Jetties constructed to keep the inlet open were in need of repair.
- Sand transfer plant was last replaced in 1967 and no longer repairable.
- Bird Island seawall was failing.

The Solution

- Build new jetties atop the existing structures.
- Build a new sand transfer plant reinforced for maritime conditions.
- Build a new seawall along Bird Island.

The Benefits

- Assure efficient sand transfer.
- Provide structurally sound jetties for recreational use.
- Secure the southern side of Bird Island from the erosive effects of waves.