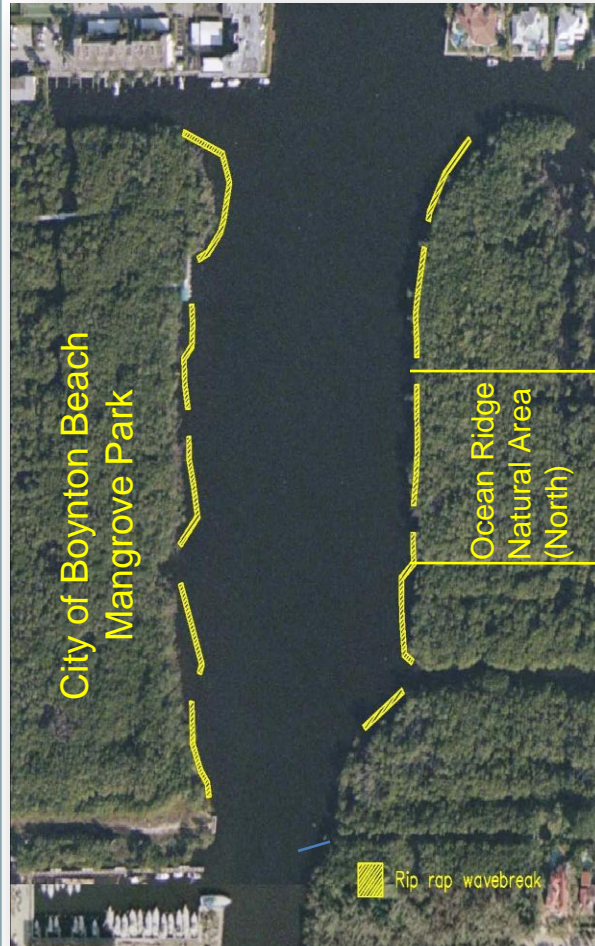




Boynton Beach/Ocean Ridge Mangrove Riprap

A Lake Worth Lagoon Restoration Project

Project Plan



Limestone boulders



Lake Worth Lagoon

- Largest estuary in Palm Beach County.
- 20 miles long, stretching from North Palm Beach to Ocean Ridge.
- Separated from the ocean by Singer Island and Palm Beach Island.
- Two permanent, man-made inlets.

Project Location

- At the south end of the Lagoon south of the Boynton Inlet and just north of Ocean Avenue.

The Problem

- Based on 1940 aerial photographs, shoreline in this area of the Lagoon have eroded as much as 80 feet due to wind and boat wake activity.

The Solution

- Install wavebreaks to stabilize the existing outer band of mangrove trees while providing additional habitat.

Benefits

- Preserve 35 acres of existing mangrove stands on either side of the Lagoon.
- Provide areas for additional mangrove, fishery, and oyster habitats in the south end of the Lagoon.

Shoreline with rip-rap stabilization



Project Overview

- Install 2,236 linear feet of 1-3 foot diameter limestone boulder riprap material along the shoreline to serve as a wave break.
- Construct wave breaks with approximately 4,000 tons of limestone rock.
- Leave gaps in the wave break at intervals to provide for adequate flushing of the mangroves.
- Create a mangrove planter behind the wave breaks to provide additional wetland mangrove habitat.
- Riprap will recruit oysters and, combined with the mangroves, provides fisheries habitat for species such as sheepshead, snapper, drums, snook, and sand perch.
- Estimated completion date for this project is June 2009.

Project Partners

PBC Department of Environmental Resources Management, Florida Department of Environmental Protection, City of Boynton Beach, Town of Ocean Ridge



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