January 2002
Cost figures as of: May 2010

Grand Lake Shoreline Protection (ME-21)

Project Status

Approved Date: 2002
Project Area: 77 acres
Net Benefit After 20 Years: 45 acres
Project Type: Shoreline Protection
Cost: $4.38 M
Status Engineering and Design

Location

The project is located in the Mermentau Basin in Cameron Parish, Louisiana, on the south shore of Grand Lake.

Problems

A comparison of 1978-79 aerial photography to 1997-98 aerial photography indicates that shoreline erosion rates in this area vary from 11 to 32 feet per year.

Restoration Strategy

The project's objectives include stopping shoreline erosion from Superior Canal to Tebo Point and promoting accretion between the breakwater and the shore.

Approximately 39,000 feet of stone breakwater will be built in 2 feet of water in Grand Lake roughly 200 feet from the shoreline from Superior Canal to Tebo Point. The breakwater will rise 2 feet above sea level. Fish dips, gaps that allow fish to move across the breakwater barrier, will be built every 1000 feet. The fish dips, 46 feet wide at the top, will extend to the lake bottom and be lined with concrete aprons. A 6-foot deep flotation canal with a 1:4 side slope will be at least 35 feet from the centerline of the dike, and material from the flotation canal will be cast inside the breakwater. Minimal maintenance of the breakwater will be necessary.

Progress to Date

This project was selected for Phase I (engineering and design) funding at the January 2002 Breaux Act Task Force meeting.

This photo of Lake Salvador is representative of the shoreline protection work to be accomplished along Grand Lake from Superior Canal to Tebo Point in Cameron Parish. About 39,000 feet of stone breakwater will be built to protect the shoreline from further erosion and to promote accretion between the breakwater and the shore.

For more project information, please contact:

Federal Sponsor:
U.S. Army Corps of Engineers
New Orleans, LA
(504) 862-2502

Local Sponsor:
Louisiana Department of Natural Resources
Baton Rouge, LA
(225) 342-7308

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Proposed Breakwater

Project Boundary

USGS
science for a changing world

N

0.5 0 0.5 1 Miles

0.5 0 0.5 1 1.5 Kilometers

Map Produced By:
U.S. Department of the Interior
U.S. Geological Survey
National Wetlands Research Center
Coastal Restoration Field Station

Background Imagery:
1998 Digital Orthophoto Quarter Quadrangles

Map Date: March 10, 2002
Map ID: 2002-11-217