rev. November 2012
Cost figures as of: March 2013

Grand Lake Shoreline Protection (ME-21)

Project Status

Approved Date: 2002 **Project Area:** 77 acres
Approved Funds: $10.0 M **Total Est. Cost:** $10.0 M
Net Benefit After 20 Years: 45 acres
Status: Engineering and Design
Project Type: Shoreline Protection
PPL #: 11

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 43,500 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

Approximately 38,700 feet of this project was constructed by the state utilizing CIAP funds. The remainder of the project, approximately 5,700 feet, is in engineering and design. Construction approval will be requested in 2013.

This project is on Priority Project List 11.

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 43,500 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:
Natural Resources Conservation Service
Alexandria, LA
(318) 473-7756

Local Sponsor:
Coastal Protection and Restoration Authority
Baton Rouge, LA
(225) 342-4736

Grand Lake Shoreline Protection (ME-21)

Shoreline Protection *

Shoreline Protection (ME-21 (EB))

Project Boundary

*denotes proposed features

USGS
science for a changing world

N

0.5 0 0.5 1 Kilometers

0.5 0 0.5 1 Miles

Map Produced by:
U.S. Department of the Interior
U.S. Geological Survey
National Wetlands Research Center
Coastal Restoration Assessment Branch
Baton Rouge, La.

Background Imagery:
2010 Digital Orthophoto Quarter Quadrangle

Map Date: November 09, 2012
Map ID: USGS-NWRC 2012-11-0005
Data accurate as of: August 27, 2012