



**US Army Corps
of Engineers** ®
Detroit District

HARBOR INFRASTRUCTURE INVENTORIES Leland Harbor, Michigan



Harbor Location: Leland Harbor is located on the east shore of Lake Michigan at the mouth of the Carp River, about 40 miles north of Frankfort, MI and 40 miles southwest of Charlevoix, MI.

Authority: River & Harbor Act of 30 Aug 1935, 23 Oct 1962.

Project Description: Leland Harbor is a shallow draft recreational harbor with over 4 acres of maintained Federal channel, over than 1,200 feet of breakwaters, and approximately 470 feet of piers.

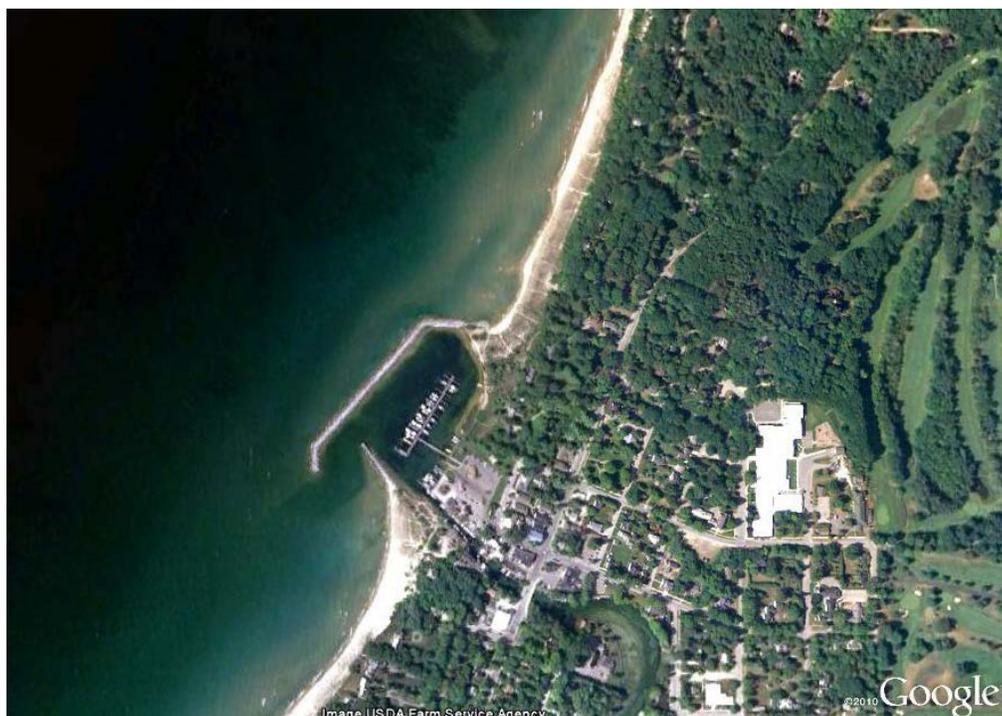
Traffic: No commerce reported

Transportation Importance: This project serves as an important Harbor of Refuge and supports charter fishing and recreational navigation interests. The local community has established a significant infrastructure around the harbor facilities that generates income from harbor users and visitors to the area. Supports local ferry service that transits north to Empire Point twice daily from 1 June through 18 October.

Congressional Interest:

- Representative Dan Benishek R-MI-1
- Senator Carl Levin D-MI
- Senator Debbie Stabenow D-MI

Current Condition Assessment: **B**



Date of Site Visit: 30 August 2010

Summary of Impact: The most significant impact of a failure or breach in the federal structure would be to the Leland Harbor Marina. Damage could occur to the docks and boats in the marina. The Fisherman's village would be impacted by increased erosion from increased wave action.

Examples of Protected Infrastructure:



1. Leland Harbor Marina: Leland Harbor Marina is a municipally owned marina that has approximately 69 slips. It also houses a spot for the Manitou Island Ferry, which transports people to Manitou Island. All the slips are floating wood docks.



2. Fisherman's Village: Behind the Leland Harbor breakwaters is the Fisherman's Village. The village houses several small businesses that are typically retail sales and some service businesses. The village is on the north side of the Carp River.



Potential Impact Area: The following graphic displays property parcels that could be impacted within various zones defined by different setbacks from the shoreline behind existing Federal coastal structures. Values are based on real property tax assessments from these parcels, and don't reflect any detailed coastal zone damage assessments. Figures simply reflect property values at various setbacks.

