



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

HARBOR INFRASTRUCTURE INVENTORIES Mackinac Island Harbor, Michigan



Harbor Location: Mackinac Island Harbor is located on the southeast side of Mackinac Island, which lies just east of the Straits of Mackinac, the connecting waterway between Lakes Michigan and Huron.

Authority: River & Harbor Acts of 25 Jun 1910, 17 August 1966.

Project Description: Mackinac Island Harbor is a shallow draft recreational harbor with approximately 1,860 feet of rubble mound breakwaters originally constructed in 1914 and rehabilitated in 1987.

Traffic: 18,609 Tons (5-Year average, 2006-2010)

Transportation Importance: This project receives three ferry lines that serve Mackinaw City and St. Ignace. Approximately 560,000 passengers use the ferries on an annual basis. The harbor also supports approximately 76 recreational boat slips.

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: 5 August 2013

Summary of Impact: Waves overtopping the breakwaters could roll into the harbor and have an immediate impact on the MDNRE Marina and the private slips in the harbor. The wave activity associated with the overtopping could cause dangerous currents for boat launching at the MDNRE site, damage vessels moored at the marina and have an impact on the passenger and freight services operating out of the harbor. Presently, these facilities are sufficiently protected, but could be exposed to greater wave heights under the right conditions. In both cases, an increased wave climate would likely result in damage to docked vessels and the docks themselves. If the structures are damaged and/or destroyed during a storm event, the MDNRE Marina and the private interests within the harbor would likely be impacted.

Examples of Protected Infrastructure:



1. Mackinac Island State Harbor: The marina is open from May 15 to October 18. The facility has 63 transient and 13 seasonal slips. Amenities include: water, electricity, restrooms, showers, gasoline, pump-out, grills, dog run, and immigration station.



2. Private Ferry Operations providing passenger and freight services



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.

