



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

HARBOR INFRASTRUCTURE INVENTORIES

Keweenaw Waterway Harbor, Michigan



Harbor Location: Keweenaw Waterway Harbor is located in the Keweenaw Peninsula of the upper peninsula of Michigan, between Keweenaw Bay and Lake Superior. The west, upper entrance is 169 miles east of Duluth, MN and the east, lower entrance is about 60 miles west of Marquette, MI.

Authority: River & Harbor Acts of 3 Mar 1865, 3 Jul 1866, 10 Apr 1869, 2 Mar 1871, 27 Mar 1872, 3 Mar 1873, 5 Aug 1886, 19 Sep 1890, 15 Mar 1898, 25 Jun 1910, 2 Mar 1919, 30 Aug 1935.

Project Description: Keweenaw Waterway Harbor is a deep draft commercial harbor with over 24,300 feet of structures including breakwaters, piers, and revetments and over 18 miles of maintained channels.

Traffic: No commerce reported.

Transportation Importance: In the past this project has been a locally significant receiving and shipping port and harbor of refuge on the Great Lakes. Commodities shipped or received include gasoline, and various other products.

Congressional Interest:

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

Current Condition Assessment: **C(West)/B(East)**



Date of Site Visit: 11 September 2013

Summary of Impact: Prevailing waves on Lake Superior at the Keweenaw Waterway upper entrance come from the north direction. Incoming waves could erode the shorelines on the north and south sides of the breakwaters and cause flanking and ultimate failure of the structures. Overtopping waves could propagate up the entrance channel and also cause flanking and failure of the existing piers on both sides of the channel. At the lower entrance on Keweenaw Bay similar conditions to those at the upper entrance could occur. Southerly winds off Keweenaw Bay could generate incoming waves that could erode the shorelines on the north and south sides of the breakwaters and cause flanking and ultimate failure of the structures and impact a small private marina adjacent to the U.S. Mooring Pier and residences along the west side of the channel.

Examples of Protected Infrastructure:



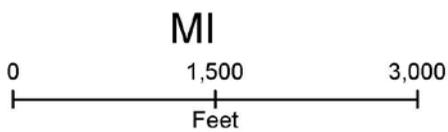
1. Residential area on west of channel.
2. Private Marina adjacent to U.S. Mooring Pier.

Potential Impact Area: The following graphics display areas that could be impacted within various zones defined by different setbacks from the shoreline behind existing Federal coastal structures.



KEWEENAW WATERWAY (WEST)

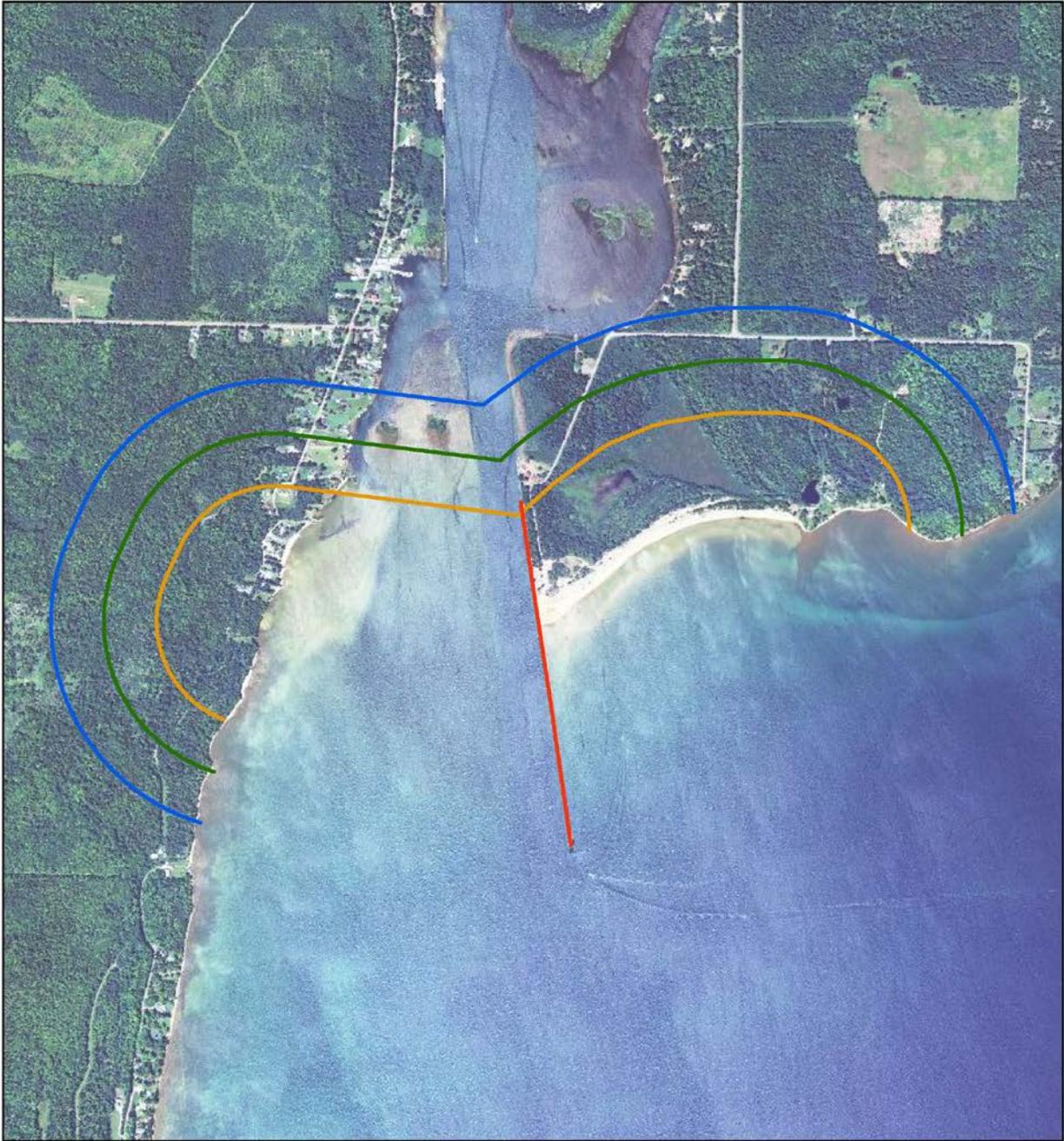
-  Federal Structure
-  Shoreline_1000_ft_buffer
-  Shoreline_1500_ft_buffer
-  Shoreline_2000_ft_buffer



Imagery Source- NAIP 2010

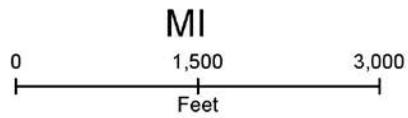


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KEWEENAW WATERWAY (EAST)

-  Federal Structure
-  Shoreline_1000_ft_buffer
-  Shoreline_1500_ft_buffer
-  Shoreline_2000_ft_buffer



Imagery Source- NAIP 2010



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