



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

HARBOR INFRASTRUCTURE INVENTORIES Bayfield Harbor, Wisconsin



Harbor Location: Bayfield Harbor is located on the south shore of Lake Superior about 85 miles east of Duluth, MN.

Authority: River & Harbor Act of 17 May 1950.

Project Description: Bayfield Harbor is a shallow draft recreational harbor with Federal breakwaters that are extensions of city piers by approximately 103 feet and 139 feet with two foot high parapets.

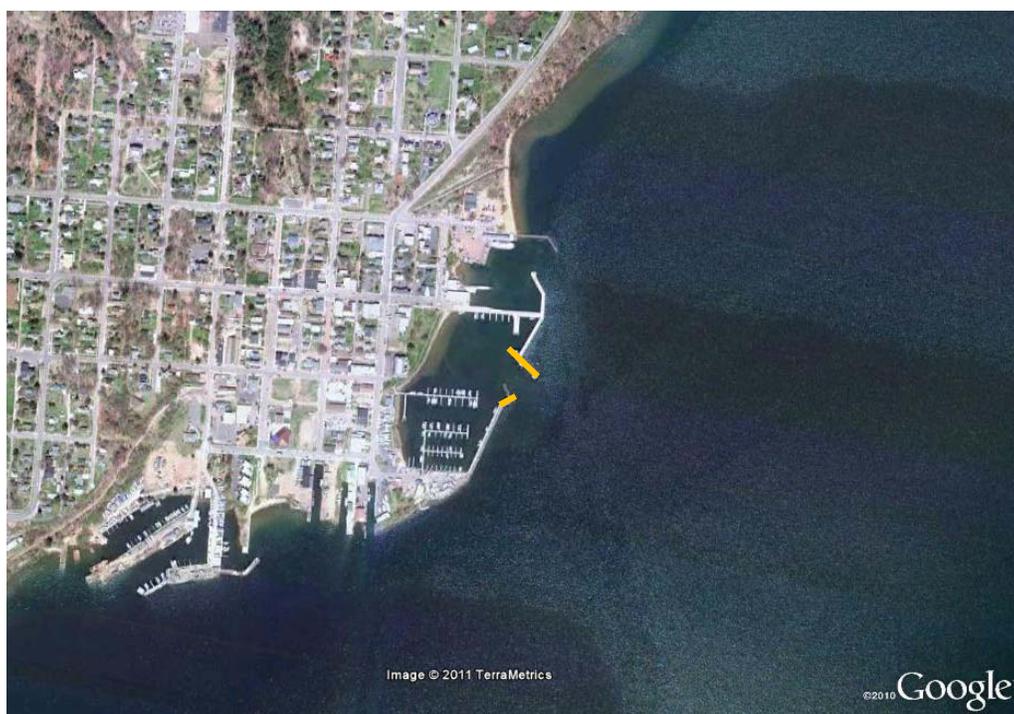
Traffic: No commerce reported

Transportation Importance: This project serves as an important Harbor of Refuge, 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 which includes a local ferry service daily for commuting to Madeline Island.

Congressional Interest:

- Representative Sean Duffy R-WI-7
- Senator Ron Johnson R-WI
- Senator Tammy Baldwin D-WI

Current Condition Assessment: **B**



Date of Site Visit: 1 November 2010

Summary of Impact: Prevailing waves come from the north-northeast direction. Waves overtopping the breakwater could have an immediate impact on the Apostle Islands Marina and the city dock. The wave activity associated with the overtopping could cause dangerous currents for boat launching at the marina as well as damage vessels moored at the marina and city docks. Presently, both the marina and city are sufficiently protected, but could be exposed to greater wave heights under the right conditions. In both cases, an increased wave climate could result in damage to docked vessels and the docks themselves.

Examples of Protected Infrastructure:



1. Apostle Island Marina: The marina consists of floating docks with 100 seasonal slips and 20 transient slips. The marina is open daily from 8 am to 6 pm. Daily dockage rates range from \$25 to \$75. Amenities at the marina include water, electricity, restrooms, showers, gasoline, diesel, pump out, ice, boat launch, hoist, long-term parking, day-use dock and a playground with picnic tables and grills.



2. Madeline Island Ferry Line: The ferry provides passenger, bicycle and car transportation between the towns of La Pointe and Bayfield. The 25-minute trip provides spectacular views of Lake Superior and several of the 22 Apostle Islands.



3. Apostle Islands Cruise Service: The service is open daily from May 15 to October 10. The cruises take you on scenic tours of historic lighthouses, standing rocks, extensive sea caves around Lake Superior and the Apostle Islands.



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.

