



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

HARBOR INFRASTRUCTURE INVENTORIES

Two Harbors, Minnesota



Harbor Location: Two Harbors is located on the north shore of Lake Superior about 27 miles northeast of Duluth, MN.

Authority: River & Harbor Act of 14 July 1960.

Project Description: Two Harbors was authorized as a deep draft commercial harbor. The project depths range between 28 and 30 feet. The project consisted of constructing two breakwaters, totaling approximately 2,500 feet in length. The west breakwater is 900 feet long and is comprised of timber cribs and a concrete cap resting on a stone fill. Two circular SSP cells, 54.0 feet in diameter, were placed at either end of the section. This section is not accessible from the shore. The east breakwater is roughly 1,628 feet long and is also comprised of timber cribs and a concrete cap resting on stone fill.

Traffic: Five year average (2006-2010) tonnage is 12.3M tons of material shipped and received

Transportation Importance: Two Harbors is a major shipping port on the Great Lakes. This project serves as an important Harbor of Refuge and is one of the major recreational boat accesses on northern Lake Superior. The MNDNR invested \$1M into rebuilding the boat launch in 2012, which attracts nearly 100 boats every weekend during the boating season.

Congressional Interest:

- Representative Rick Nolan D-MN-8
- Senator Amy Klobuchar D-MN
- Senator Al Franken D-MN

Current Condition Assessment: **B**



Date of Site Visit: 14 September 2010

Summary of Impact: Prevailing waves come from the south. Overtopping waves could have an immediate impact on the vessel maneuvering at the CN ore docks and MNDNR boat launch area located inside the breakwaters. Any significant wave activity within the harbor could damage vessels moored at the ore dock as well as the MNDNR facility. Presently, the private dock and MNDNR launch area within the harbor 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. In the event the structures are damaged and/or destroyed during a storm event, no commercial properties within the zone of influence of the Two Harbors would be impacted.

Examples of Protected Infrastructure:



1. Canadian National Railway Ore Docks: Canadian National Railway (CN) operates the ore docks at Two Harbors. CN is Canada's largest freight railway. The company offers integrated transportation services including rail, intermodal, trucking, freight forwarding, warehousing and distribution services.



2. MNDNR Public Water Access: The DNR facility was constructed in the 1980's in cooperation with the City of Two Harbors. Amenities include 3 access ramps, 2 docks, area nature trails, restrooms, and paved parking.



3. Two Harbors WWTP







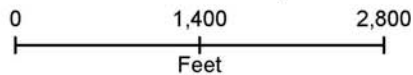
Potential Impact Area: The following graphic displays property parcels that could be impacted within various zones defined by different setbacks from the shoreline behind existing Federal coastal structures. Within 1,500 feet from the shoreline (1,500 ft buffer) all of the properties identified (above) in this report would be affected by a failure of the breakwater.



TWO HARBORS HARBOR

Two Harbors, MN

-  Federal Structure
-  Shoreline_1000_ft_buffer
-  Shoreline_1500_ft_buffer
-  Shoreline_2000_ft_buffer



Imagery Source- NAIP 2010



Created April 2013- by T. Crockett- Buffalo District