



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

HARBOR INFRASTRUCTURE INVENTORIES

Frankfort Harbor, Michigan



Harbor Location: Frankfort Harbor is located on the east shore of Lake Michigan, 204 miles northeast of Chicago, IL and 28 miles north of Manistee, MI.

Authority: River & Harbor Act of 23 Jun 1866, 3 Mar 1925, 26 Aug 1937, 27 Oct 1965.

Project Description: Frankfort Harbor is a deep draft commercial harbor with over 6,400 feet of breakwaters, piers, and revetments, and there is approximately a half mile of maintained Federal channel.

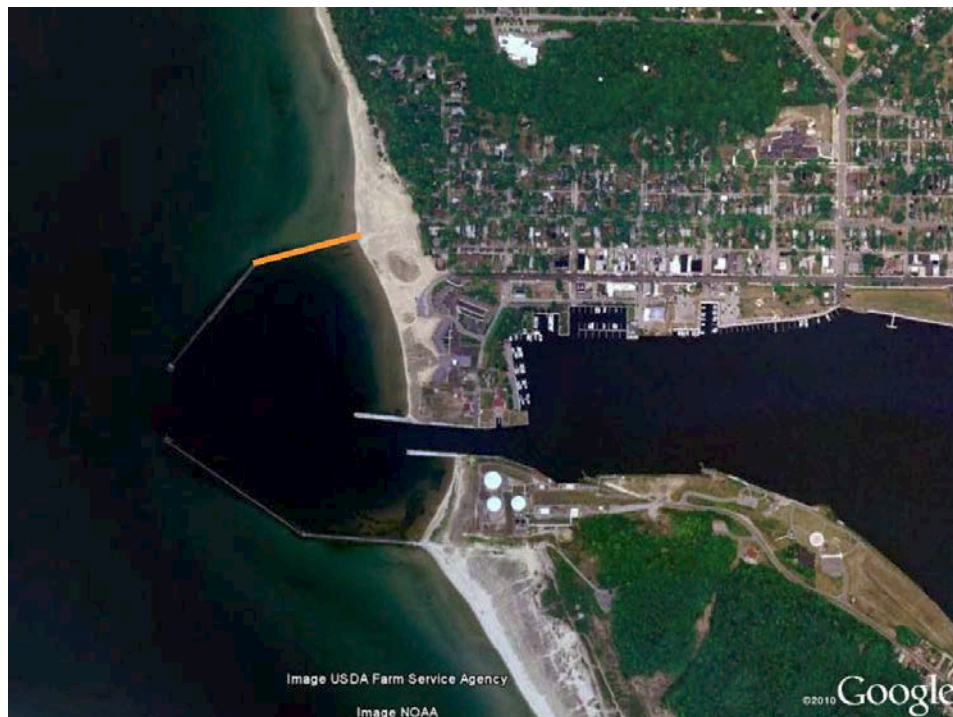
Traffic: No commerce reported

Transportation Importance: This project serves as a locally significant receiving port on the Great Lakes, receiving asphalt and petroleum based products. It also supports over 200 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** (portion of North Connector rated 'C')



Date of Site Visit: 30 August 2010

Summary of Impact: If there was a failure or breach in the Frankfort Harbor, the most significant would likely be to the US Coast Guard station on the north side of the federal structures. The station is directly protected by the revetment structures. Other significant impacts would likely be to the six marinas that are located around Betsie Lake. A significant increase in wave action could cause the boats and docks at the marinas to suffer damage. The water treatment facility could also be impacted if the wave action was focused across Betsie Lake.

Examples of Protected Infrastructure:



1. Frankfort Public Beach: Frankfort Public Beach is on the north side of the Frankfort Harbor. It is maintained by the City of the Frankfort. The beach is on the shore of Lake Michigan.



2. United States Coast Guard – Frankfort Station: The United States Coast Guard has a Frankfort Station located on the north side of the Frankfort Harbor. The current station was built in 2004 and has 18 active members and 6 reserve members of the Coast Guard stationed here. At this station, the Coast Guard has a 25 foot response boat and an inflatable ice rescue skiff.



3. Gold Coast Marina: The Gold Coast Marina is a dockminium complex, having condominiums with corresponding docks. This complex is on the north side of the Frankfort Harbor and has 52 slips. The slips are made of a plastic composite that looks like wood.



4. Jacobsen Marina Resort: Jacobsen Marina is a 49 slip marina on the north side of Betsie Lake in Frankfort. The marina also has a 2,400 square foot clubhouse on site. The slips are permanently fixed wood docks.



5. Luedtke Engineering Marine Contractor: Luedtke Engineering is a marine contractor based out of Frankfort Harbor. Luedtke is located on the north side of the Frankfort harbor and has a fleet of 6 tug boats. Steel sheet pile protects Luedtke's property from the erosion.



6. Frankfort Municipal Marina: The City of Frankfort has a municipal marina on the north side of the Frankfort Harbor. There are approximately 100 slips at this marina, and the docks consist of floating wood docks. The marina also has a separate boat launch on the north side of Betsie Lake, approximately a quarter mile east of the marina.



7. Benzie Shores District Library: The Benzie Shores District Library is adjacent to the Frankfort Municipal Marina on the north side of Betsie Lake. Adjacent to the library is a grassy open park.



8. City of Frankfort Park: On the south side of Betsie Bay, there is a park that has a playground, a pavilion, and a historic building on site. The park is mainly grass covered and has a large parking lot.



9. City of Frankfort Beach: To the south of the federal navigation structure at the Frankfort Harbor, there is a city owned beach. The beach is at the bottom of the sand dunes. There is an asphalt paved road that leads to the beach.



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.

