



US Army Corps  
of Engineers®

## HARBOR INFRASTRUCTURE INVENTORIES Rochester Harbor, New York



**Harbor Location:** Rochester Harbor is located on the southern shore of Lake Ontario at the mouth of the Genesee River in the City of Rochester, NY.

**Authority:** River and Harbor Acts of 1829, 1882, 1910, 1935, 1945, and 1960

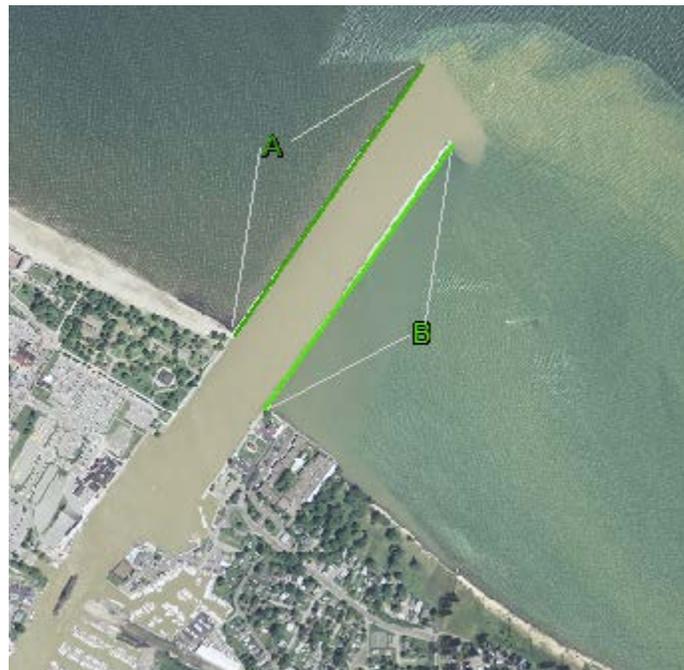
**Project Description:** Rochester Harbor is a deep draft commercial harbor. Protective structures consist of east and west steel sheet pile with concrete cap piers totaling approximately 1.1 miles in length.

**Transportation Importance:** Receiving and shipping port on the Great Lakes; and a Critical Harbor of Refuge. Also a location of U.S. Coast Guard station. Cement is the major commodity shipped and received.

### Congressional Interest:

- Representative Louise Slaughter D-NY-28
- Senator Kirsten Gillibrand D-NY
- Senator Charles Schumer D-NY

**Current Condition Assessment:** B



**Date of Site Visit:** 25 May 2010

**Summary of Impact:** Prevailing waves come from the northwest to east direction. Failure of the piers would result in increased wave action in the Genesee River and erosion and damage to structures at Ontario Beach County Park. Increased wave action in the river would result in damage and flooding of the facilities located near the mouth of the river. Presently, heavy wave action is present in the river under north-northeast winds. Pier failure would increase the conditions under which wave action forms. Additionally, shoaling of the river channel would increase, limiting access to the lake and increasing dredging needs.

**Examples of Protected Infrastructure:**



1. **Ontario Beach County Park:** County owned 39 acre public park. Boat launch, carousel, beach, volleyball courts, and beach shelters. Beach is made of sand captured by West Breakwater. Breakwater failure would likely result in beach erosion and a reduction in recreational usage.



2. **Port of Rochester Terminal:** Municipally owned 70,000 square foot structure located on North River Street at the mouth of the Genesee River. Atrium, main concourse, departure and arrival halls, Pier 45 restaurant and catering. Piers serve to limit wave action on the river, giving a calm harbor for dockage.



3. **Pelican Marina and Restaurant:** Privately owned marina and restaurant with transient dockage up to 40', gas dock, restrooms and showers, launch ramp, 15 ton travel-lift and winter storage.



4. **Genesee Yacht Club:** Privately owned marina with 47 slips able to accommodate boats up to 38'. Piers serve to provide an open channel to the lake for vessels.



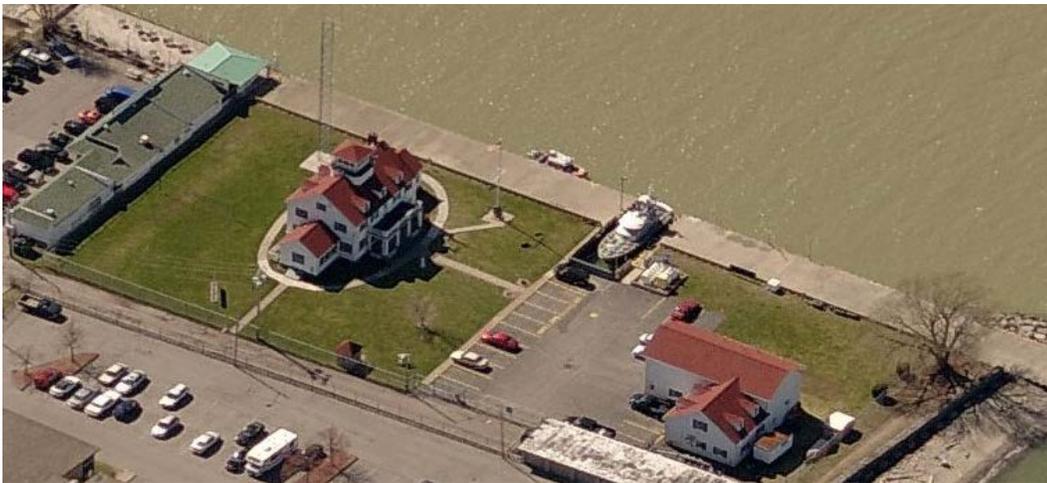
5. **Shumway Marine:** Privately owned marina built in 1968 with 225 fixed steel and concrete slips able to accommodate up to 60' boats. Rates range from \$1,100-1,500 per season with electric and water available. Other amenities include two 40 ton travel lifts, fuel (gas and diesel), ships store, restrooms, showers and bait. Main concerns are with waves generated by a north - northeast wind. Owner states that under these conditions, wave action propagates upstream and causes damage to vessels and docks. Pier failure would cause this issue to increase. Owner would like to see a dog leg built onto one of the piers to correct this condition.



6. **Rochester Yacht Club:** Privately owned marina built with 175 slips. Electric and water available at all slips. Other amenities include a restaurant, bar, clubhouse, a pool, 3 2 ton hoists, a 20 ton travel lift, inside and outside storage, restrooms, showers and bait. Marina is protected from wave action in the river under most conditions. North-northeast winds will cause wave action to propagate upstream and into the harbor.



7. **U.S. Coast Guard Station Rochester:** Coast Guard Station with area of responsibility extending from Point Breeze to Sodus Point. Two story station and a garage onsite. The piers serve to protect the open channel and reduce wave action under a west-northwest wind. A north-northeast wind causes wave action in harbor.

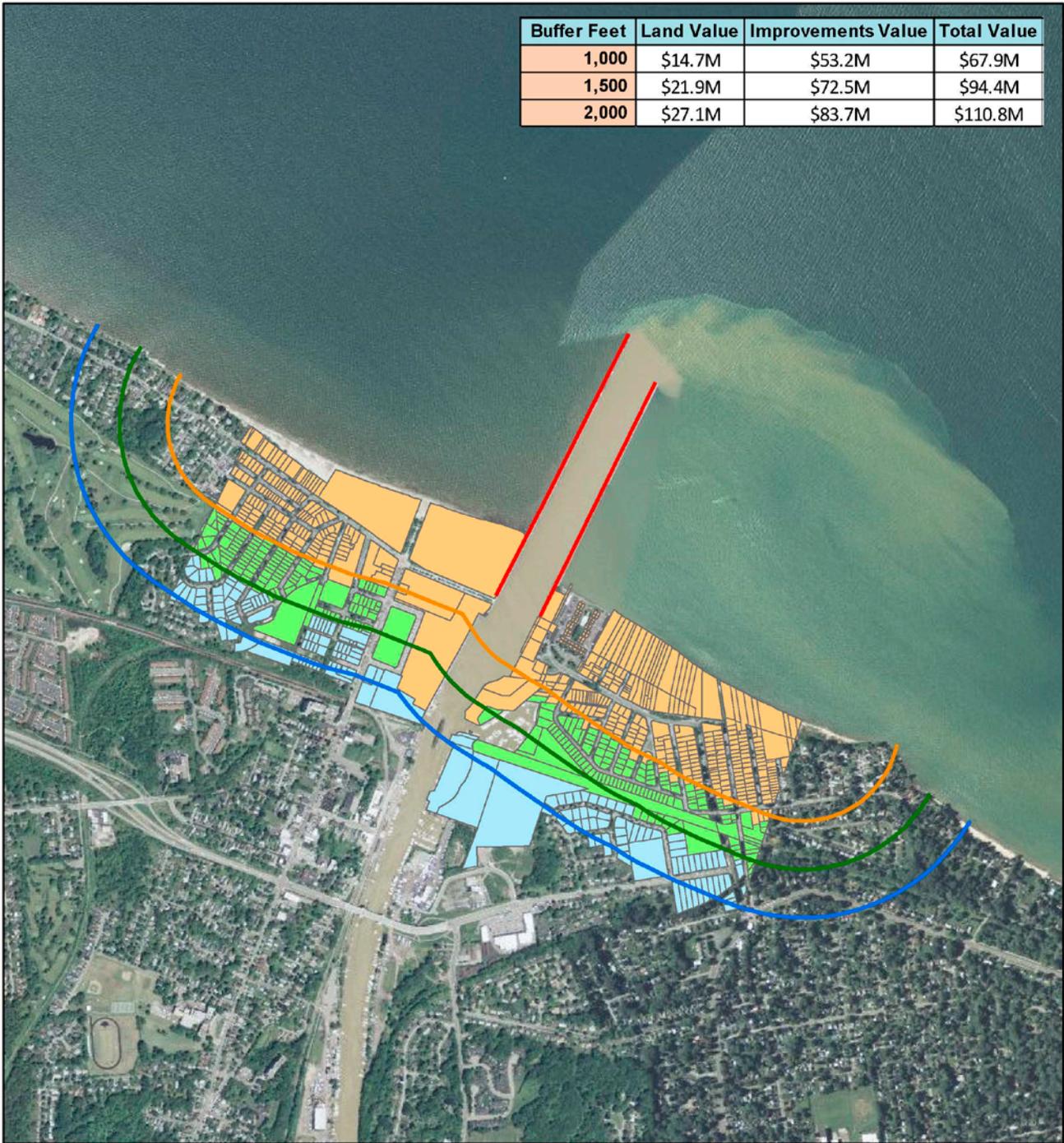


8. **Westage at the Harbor Condominiums:** Privately owned condominium complex located on the shores of Lake Ontario. Pier failure would result in damage from wave action under northwest-north winds.



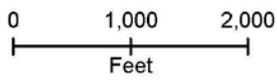
**Potential Impact Area:** The following graphic displays property parcels that could be impacted within various zones defined by different setbacks from the shoreline behind existing Federal coastal structures. Values are based on real property tax assessments from these parcels, and don't reflect any detailed coastal zone damage assessments. Figures simply reflect property values at various setbacks.

Buffer Feet	Land Value	Improvements Value	Total Value
1,000	\$14.7M	\$53.2M	\$67.9M
1,500	\$21.9M	\$72.5M	\$94.4M
2,000	\$27.1M	\$83.7M	\$110.8M



- Federal Structure
- Shoreline\_1000\_ft\_buffer
- Shoreline\_1500\_ft\_buffer
- Shoreline\_2000\_ft\_buffer
- Parcels\_1000\_ft\_buffer
- Parcels\_1500\_ft\_buffer
- Parcels\_2000\_ft\_buffer

## ROCHESTER HARBOR ROCHESTER, NY



Imagery Source- NAIP 2011



Created June 2013- by T. Crockett- Buffalo District