



US Army Corps
of Engineers®



Grand Haven Harbor and Grand River, MI

Harbor Features

- Located on the east shore of Lake Michigan, 180 miles northeast of Chicago, IL and 23 miles north of Holland, MI. The Grand River originates in Jackson County, MI and flows 260 miles west into Lake Michigan
- Authorization: Rivers & Harbors Acts of 23 Jun 1866, and subsequent acts
- Deep draft commercial harbor
- Project depths: 23 feet in the entrance, 18 to 21 feet in the river channel and turning basin, and 8 feet in the upper Grand River channel
- 1.4M tons of material shipped and received in 2019
- Ranked 30th in tonnage among the Great Lakes harbors in 2019
- Over 9,000 feet of structures including piers and revetments
- Over 2.5 miles of maintained deep draft channel and 14.5 miles of shallow draft river channel which has not been maintained
- Outer channel dredged material is used for beach nourishment. Inner channel material is placed upland in a site that enables reuse.
- Major stakeholders: U.S. Coast Guard, Construction Aggregate Corporation, Grand Haven Board of Light and Power, Meekoff Dock Inc., St. Marys Cement Inc., and Verplank Trucking.

Project Requirements

- Approximately 35,000 cubic yards of material must be dredged from the outer harbor annually. Approximately 20,000 to 40,000 cubic yards of material must be dredged from the inner channel on a 2-to-4-year cycle.
- The outer harbor is being dredged summer 2021; and inner harbor will be dredged in fall 2021. Dredging will be completed with FY21 Work Plan funds.
- Outer harbor will be dredged in FY22.
- Beach nourishment is required.



- Phase I development of dredged material management strategy is required.
- The south pier was damaged by significant wave action associated with a major storm that impacted southern Lake Michigan on October 31, 2014. Repairs were funded in 2016 and 2017 and completed in 2019. Additional funding need identified to fully design and complete repairs.
- Additional funding is required for construction of the north pier repairs and wave attenuator measures.
- Engineering, design and construction required for revetment resurfacing of sections L and M.
- Breakwater maintenance of north pierhead is required.
- A funding need has been identified for facility security and cultural resource management.

Consequences of Not Maintaining the Project

- If the harbor were closed to commercial traffic, commodities would have to be transported by rail and truck. This would increase annual emission rates by over 10.5M lbs. of harmful particulate matter (PM-10) and increase costs by \$2.4M due to increased railroad related accidents and \$1.6M due to increased truck related accidents.

Consequences of Not Maintaining the Project (cont'd)

- Light loading; loss of between 4 and 5 feet of channel depth results in increased transportation costs of between \$4.0M and \$5.7M annually.

Transportation Importance

- Significant regional receiving port on the Great Lakes
- Commodities received include sand, gravel, salt, cement, gypsum, coal, and manufactured goods.
- Waterborne transportation facilitated by the harbor supports \$88.8M in business revenue, 456 direct, indirect, and induced jobs, and \$29.5M in labor income to the transportation sector.
- Commodities handled by the harbor support \$3.9B in business revenue, 23,749 direct, indirect, and induced jobs, and \$1.2B in labor income.

Transportation Importance (cont'd)

- Adequate rail lines do not exist to deliver coal to the municipal power plant, which supplies power to over 13,500 customers.
- Grand Haven is a critical harbor of refuge.
- Large recreational tourism base that relies on the functionality of the harbor; the city of Grand Haven reports revenue of \$49M and 3,100 jobs that rely on harbor tourism
- The harbor is home to the U.S. Coast Guard Sector Grand Haven Station, which is responsible for subordinate commands including: search and rescue, law enforcement, ice rescue, and homeland security defense operations.

**U.S. Army Corps of Engineers Fiscal Year (FY) 2020, 2021, and 2022
Grand Haven Harbor and Grand River, MI
Project Requirements and President's Budget (\$1,000)**

Work Package	FY20 Requirement	FY20 Appropriation	FY21 Requirement	FY21 Appropriation	FY22 Requirement	FY22 President's Budget
Maintenance Dredging Outer Harbor – Primary Work	600	600	700	700	800	800
Maintenance Dredging Inner Harbor – Primary Work	0	0	955	955	0	0
Beach Nourishment	500	0	500	0	500	500
Grand Haven Facility Security - CIPR	300	0	300	0	300	300
Dredged Material Management	75	0	150	0	150	75
Engineering & Design- North Pier Wave Attenuation	0	0	600	0	2,200	2,200
Construction of North Pier Wave Attenuator	0	0	0	0	7,500	0
E&D and Construction – South Pier Navigation Structure	0	0	850	0	9,400	0
Revetment Resurfacing Sections L & M	0	0	0	0	1,500	0
Breakwater Maintenance, Patching N Pier	0	0	0	0	50	0
Government Basin Shore Protection	0	0	1,200	0	1,200	0
Industrial Hygiene Assessment	100	0	0	0	0	0
Real Estate Management	0	0	29	29	30	30
Cultural Resource Management (Env. Stewardship) for Nav	0	0	19	19	19	19
Environmental Compliance	0	0	0	0	10	10
Other Business Lines						
Environmental Stewardship	19	19	0	0	0	0
TOTAL	1,594	619	5,303	1,703	23,659	3,934

Congressional Interests

- Representative Bill Huizenga R-MI-2
- Senator Gary Peters D-MI
- Senator Debbie Stabenow D-MI