



Cleveland Harbor, OH

Harbor Features

- Located on Lake Erie in the city of Cleveland, Cuyahoga County, Ohio.
- Authorization: River & Harbor Acts of 1875, 1886, 1888, 1896, 1899, 1902, 1907, 1910, 1916, 1917, 1935, 1937, 1945, 1946, 1958, 1960, 1962, Water Resources Development Acts of 1976 and 1986, Supplemental Appropriations Act of 1987 and the Energy & Water Appropriations Act of 1988.
- Deep draft commercial harbor.
- Authorized depths are 28 feet in the outer harbor and 23 feet in the river.
- 48th leading U.S. port with 12,793,000 tons of material shipped or received in 2007.
- Cleveland Harbor is ranked 6th among the Great Lakes Ports.
- Over 5.5 miles of breakwater structures.
- 5.8 miles of Federal channel on the Cuyahoga River and 1 mile of Federal channel on the Old River.
- Confined disposal facilities (CDFs) are located to the east of the harbor entrance.
- Major stakeholders include Cleveland-Cuyahoga County Port Authority, Burke Lakefront Airport, ArcelorMittal, U.S. Coast Guard, Lake Carriers Association, and Cargill.

Project Needs

- A minimum of 330,000 cubic yards (CY) of material must be dredged each year. However, since 2007 the amount dredged has been reduced to 225,000 CY due to limited CDF capacity. Dredging was completed in FY09 and is scheduled for FY10.
- The current sediment backlog within the functional harbor areas exceeds 1.5M CY.
- Severely deteriorated west pierhead, sections of the east and west breakwaters, arrowheads and finger pier must be repaired.



- The CDF's are at capacity. Interim measures must be implemented to provide additional capacity until a new long term measure is available.
- Critical FY11 needs include maintenance dredging, structure repair and Dredged Material fill management.

Consequences of Not Maintaining the Project

- Failure to dredge the harbor will result in continued shoaling and reduced channel dimensions; resulting in light loading, increased transportation costs and unsafe navigation conditions.
- Light loading; losses of between 1 and 2 feet of channel depth would result in increased transportation costs of between \$2.6M and \$6.7M annually.
- Failure to fund additional repairs to the west pierhead will result in the continued degradation and eventual failure of the structure, increased future maintenance costs and unsafe navigation conditions within the entrance channel leading to vessel delays and potential damage to shoreline structure. An interim repair was completed in 2009 to minimize the deterioration of the structure and reduce the risk of failure.

Consequences of Not Maintaining the Project

- Failure to repair deteriorated sections of the east and west breakwaters and arrowheads, will result in the continued degradation of the structures, increased future maintenance costs and unsafe navigation conditions within the harbor leading to vessel delays and potential damage to shoreline structures.
- Failure to repair the finger pier, wharf and utilities will lead to the continued degradation and eventual failure of the structure, increased future maintenance costs and potential loss of USACE Floating Plant mooring facility.
- Failure to implement critical interim and long term CDF capacity measures will lead to a further reduction in annual dredging quantities and the inability to dredge once existing CDF capacity is exhausted.
- Significant loss of jobs both locally and regionally.

Transportation Importance

- Major receiving and shipping port on the Great Lakes.
- Critical Harbor of Refuge.
- Commodities shipped or received include iron ore, limestone, sand and gravel, salt, cement and concrete, general cargo and liquid bulk.
- Major iron ore transshipment facility located at Cleveland's Outer Harbor. This facility provides iron ore to inland steel mills at lower delivery costs when compared to truck or direct rail delivery.
- The harbor ships more than 1M tons of salt annually, which is mainly used by local municipalities for road deicing.
- Bulk commodities that pass through Cleveland Harbor generate approximately \$159M annually in direct revenue which supports over 2,611 jobs. These jobs generate over \$96M per year in personal income.
- Cleveland Harbor is home port of the U.S. Coast Guard Cutter Neah Bay.

**U.S. Army Corps of Engineers Fiscal Year (FY) 2009, 2010 and 2011
Cleveland Harbor, Ohio Project Needs and President's Budget (\$1,000)**

Work Package	FY09 Need	FY09 Omnibus	FY09 Stimulus	FY10 Need	FY10 Appropriation	FY11 Need	FY11 President's Budget
Maintenance Dredging – Primary	2,500	2,500		2,482	1,362	2,600	2,600
Dredged Material Management Plan/CDF Beneficial Use Activities	150	260		325	325	250	
Dredged Material Management Operations CDF 10B Excavation	7,250		7,250				
E&D, New CDF	700	400		700	175	800	800
Fill Management Activities, Dike 12, Phase 2				350	350	7,000	5,000
E&D, Fill Management Activities, Dike 9	350						
Fill Management Activities, Dike 9	4,400	1,609	150	3,100	2,011		
E&D, Fill Management Activities, Dike 9, Phase 2						350	350
Interim CDF Maintenance (Grading)	400	400		400		250	250
Snagging & Clearing Floating Plant (F/P)	45	45		50	50	40	40
Structure Repair. – East and West Arrowhead Breakwaters (F/P)	850	450		1,450	1,000	900	900
Structure Repair. – East and West Arrowhead Breakwaters (Stone)						450	
Construction, West Pierhead Repair	3,400	500		3,400	70	3,400	
Construction, East Breakwater Repair (Sta 84-94)	2,700			4,500	1,392	2,500	
Construction, Finger Pier Repair	3,000			6,000		6,000	
E&D, East Breakwater West End Section Repair						100	
Construction, East Breakwater West End Section Repair	2,200			2,500		2,500	
E&D/Construction, Wharf and Utility Repair				4,500		4,500	
E&D East Breakwater Repair (Sta. 94-110)						250	
E&D West Pier Repair						300	
E&D West Breakwater East End Section Repair						250	
E&D East Arrowhead Breakwater						300	
E&D West Breakwater Repair						300	
Project Condition Surveys	65	65		475	475	490	490
CDF Environmental Review Guide for Operations Compliance						70	
Environmental Compliance - CDF Monitoring, Field						15	
Regional Economic Data Collection				500	250	250	250
TOTALS	28,010	6,229	7,400	30,732	7,460	33,865	10,680

Congressional Interests

- Representative Dennis J. Kucinich D-OH-10
- Representative Marcia Fudge D-OH-11
- Senator George Voinovich R-OH
- Senator Sherrod Brown D-OH