



Indiana Harbor, IN

Harbor Features

- Located on Lake Michigan in the city of East Chicago, Lake County, Indiana
- Authorized depths are 29 feet in the approach channel, 28 feet in the turning basin, 27 feet in the outer dock area, and 22 feet within the main and two branch channels.
- 4.7 miles of federal channel combined within the Indiana Harbor canal, the Calumet River branch, and the Lake George branch.
- 3,085 linear feet of laid-up stone and concrete caisson breakwater structures.
- A confined disposal facility (CDF) with a storage capacity of 4.8M cubic yards
- 12.2M tons of material shipped and received in 2019; ranked 4th among the Great Lakes harbors and 43th among U.S. ports.
- Interconnected with 18 commercial ports: ships to 10 ports, and receives from 16 ports
- Major stakeholders: Cleveland-Cliffs Inc., US Gypsum, BP, and LaFarge Cement

Project Requirements

- The project was not dredged between 1972 and 2012. Dredging efforts began in 2012 when the CDF was completed. Backlog dredging of about 1.7 cubic yards has been completed through 2020.
- In 2019, approximately 50K cubic yards of sediment was dredged from federal channel areas, including 17K cubic yards of TSCA material. In addition, 110k cubic yards of sediment was removed from non-federal areas with funds from USEPA.
- CDF groundwater pumping is performed to protect regional groundwater resources, and maintain the inward gradient required by the facility operating permit.
- Both federal and non-federal dredging totaling about 125,000 cubic yards was completed in 2020, and Phase I of the CDF reached its maximum capacity.



- The dikes will need to be raised in order to increase capacity for another approximately 20 years. Design of the Phase II dikes was completed in 2020. \$12.305M was received in the FY20 work plan to construct the first stage of the dike raise, and construction will begin in 2021. The contract will be funded out of the “Construction” appropriation account.
- A multiyear effort to rubblemound the easterly breakwater with armor stone was completed in 2019 by government floating plant.

Consequences of Not Maintaining the Project

- Light loading losses of between 3 to 4 feet of channel depth results in increased transportation costs of between \$13.1M and \$18.4M annually.
- 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 48,882 tons of harmful particulate matter (PM-10) and increase costs by \$21.9M due to increased railroad related accidents, and \$14.6M due to increased trucking related accidents.

Transportation Importance

- Cleveland-Cliffs Inc.’s Indiana Harbor facility is one of the largest steelmaking complex in North America. It is fully integrated, currently operating three blast furnaces, and has a total raw steelmaking capability of 10M tons annually. It produces hot-rolled, cold-rolled, hot-dipped galvanized and aluminized sheet products. Markets served include automotive, appliance, contractor applications, distribution, strip converters, and tubular.
- Commodities include iron ore, limestone, coke, gypsum, steel, cement, concrete, petroleum products, and miscellaneous bulk products.
- Waterborne transportation facilitated by the harbor supports \$614.1M in business revenue, 2,706 direct, indirect, and induced jobs, and \$197M in labor income to the transportation sector.
- Commodities handled by the harbor support \$17.9B in business revenue, 95,043 direct, indirect, and induced jobs, and \$5.0B in labor income.

**U.S. Army Corps of Engineers Fiscal Year (FY) 2019, 2020, and 2021
Indiana Harbor, IN – Project Requirements and President’s Budget (\$1000)**

Work Package	FY19 Requirement	FY19 Appropriation	FY20 Requirement	FY20 Appropriation	FY21 Requirement	FY21 Appropriation
Project Condition Surveys	191	191	213	213	205	205
Real Estate Management	57	57	38	38	39	39
Environmental Compliance	42	42	46	46	47	47
Facility Security	115	115	78	78	87	87
Routine CDF Operations	3,985	3,985	4,063	4,063	4,175	4,175
Routine CDF Maintenance	518	518	597	597	615	615
Maintenance Dredging Federal Channel – Primary Work Package	3,770	3,770	3,250	3,250	2,339	2,339
Easterly Breakwater Repairs (Gov’t Floating Plant)	2,160	2,160	0	0	0	0
Periodic Assessment of Dam Safety Components	80	80	0	0	0	0
Routine Dam Safety Activities	80	80	67	67	69	69
DMDF Phase 2 Dike Raise Plans & Specs	425	425	0	0	0	0
TOTAL	11,423	11,423	8,352	8,352	7,576	7,576

Congressional Interests

- Representative Frank Mrvan D-IN-1
- Senator Todd Young R-IN
- Senator Mike Braun R-IN