



## Indiana Harbor and Canal, 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 4<sup>th</sup> among the Great Lakes harbors and 43<sup>rd</sup> 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 1.7M 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.
- 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.
- CDF groundwater pumping is performed to protect regional groundwater resources, and maintain the inward gradient required by the facility operating permit.



- The dikes need to be raised 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; construction will begin in 2021. The contract will be funded from the Construction General appropriation account.
- Dredging was suspended in FY21 to coincide with construction of the Phase II dikes but will resume in FY22. Dredging in FY22 will be limited to 80K cubic yards due to a shortened dredging window as construction will continue into the summer of FY22.
- A multiyear effort to rubblemound (easterly breakwater) with armor stone was completed in 2019 by government floating plant.

### Consequences of Not Maintaining the Project

- Light loading losses of between 3-4 feet of channel depth results in increased transportation costs of between \$9.2M and \$14M annually.
- If the harbor were closed to commercial traffic, commodities would be transported by rail and truck. This would increase annual emission rates by over 97.8M lbs. 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) 2020, 2021, and 2022  
Indiana Harbor, IN – Project Requirements and President’s Budget (\$1000)**

<b>Work Package</b>	<b>FY20 Requirement</b>	<b>FY20 Appropriation</b>	<b>FY21 Requirement</b>	<b>FY21 Appropriation</b>	<b>FY22 Requirement</b>	<b>FY22 President’s Budget</b>
Project Condition Surveys	213	213	205	205	198	198
Real Estate Management	38	38	39	39	45	40
Environmental Compliance	46	46	47	47	49	49
Facility Security	78	78	87	87	74	74
Routine CDF Operations	4,063	4,063	4,175	4,175	4,097	4,097
Routine CDF Maintenance	597	597	615	615	580	580
Maintenance Dredging Federal Channel – Primary Work Package	3,250	3,250	2,339	2,339	3,108	3,108
Routine Dam Safety Activities	67	67	69	69	50	50
<b>TOTAL</b>	<b>8,352</b>	<b>8,352</b>	<b>7,576</b>	<b>7,576</b>	<b>8,201</b>	<b>8,196</b>

**Congressional Interests**

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