Indiana Department of Environmental Management
Office of Water Quality
Wetlands Section

Publication Date:
March 29, 2024

Closing Date:
April 19, 2024

PUBLIC NOTICE

IDEM ID Number:
2024-158-45-MTM-A

Corps of Engineers ID Number:

To all interested parties:

This letter shall serve as a formal notice of the receipt of an application for **Section 401 Water Quality Certification** by the Indiana Department of Environmental Management (IDEM). The purpose of the notice is to inform the public of active applications submitted for water quality certification under Section 401 of the Clean Water Act (33 U.S.C. § 1341) and to solicit comments and information on any impacts to water quality related to the proposed project. IDEM will evaluate whether the project complies with Indiana's water quality standards as set forth at 327 IAC 2.

1. Applicant: U.S. Army Corps of Engineers
Chicago District
231 S. LaSalle Street, Suite 1500
Chicago, IL 60604-1437

2. Agent:

3. Project location: Lake County

Latitude: 41.741520, Longitude: -87.514420

4. Affected waterbody: Lake Michigan

5. Project Description: Breakwater and

It is proposed to place additional armor stone along the sides as well as the top of the Calumet Harbor resetting existing armor stone. The length of the breakwater is approximately 6700 linear feet. The weight of the individual armor stones used for the repairs are expected to be between 3 to 7 tons each, and the approximate amount of armor stone that will be placed in 2024 and 2025 is 15,000 tons, with an approximate volume of 7,400 cubic yards total. The existing stone cap will be broken into fragments between one and four feet in any dimension, and these fragments will be left in place to fill in existing voids in the timber crib structure and provide a more stable foundation for the new armor stone that will be placed on top of the structure. Existing rebar protruding from the stone cap will be cut and removed. The repairs are intended to restore the existing structure to its original design function and avoid modification to its footprint. The area of fill below the ordinary highwater mark is approximately 1.0 acre,

Comment period: Any person or entity who wishes to submit comments or information relevant to the aforementioned project may do so by the closing date noted above. Only comments or information related to water quality or potential impacts of the project on water quality can be considered by IDEM in the water quality certification review process.

Public Hearing: Any person may submit a written request that a public hearing be held to consider issues related to water quality in connection with the project detailed in this notice. The request for a hearing should be submitted within the comment period to be considered timely. The request should also state the reason for the public hearing as specifically as possible to assist IDEM in determining whether a public hearing is warranted.

Questions? Additional information may be obtained from Marty Maupin, Project Manager, by phone at 317-233-2471or by e-mail at mmaupin@idem.in.gov. Please address all correspondence to the project manager and reference the IDEM project identification number listed on this notice. Indicate if you wish to receive a copy of IDEM's final decision.

Written comments and inquiries may be forwarded to -

Indiana Department of Environmental Management
100 North Senate Avenue
MC65-42 WQS IGCN 1255
Indianapolis, Indiana 46204-2251 FAX: 317/232-8406

APPLICATION FOR AUTHORIZATION TO DISCHARGE DREDGED OR FILL MATERIAL TO ISOLATED WETLANDS AND/OR WATERS OF THE STATE

State Form 51821 (R2 / 11-15)

Indiana Department of Environmental Management

INSTRUCTIONS: 1. Read the instruction sheet before filling out this form.

2. You must complete all applicable sections of this form

1. Applicant Information	2. Agent Information
Name of Applicant U.S Army Corps of Engineers (USACE), Chicago District	Name of Agent
Mailing address *(Street/ PO Box/ Rural Route, City, State, ZIP Code)* 231 South LaSalle Street, Suite 1500 Chicago, Illinois 60604-1437	Mailing address *(Street/ PO Box/ Rural Route, City, State, ZIP Code)*
Daytime Telephone Number (312) 846-5396	Daytime Telephone Number
Fax Number	Fax Number
E-mail address *(optional)* anna.l.coval@usace.army.mil	E-mail address *(optional)*
Contact person *(required)* Anna L. Coval	Contact person

3. Project / Tract Location			
County Lake		Nearest city or town Whiting, Indiana	
U.S.G.S. Quadrangle map name *(Topographic map)* Lake Calumet Quadrangle is nearest USGS map		Project street address *(if applicable)* 3600 East 59th Street (nearest address) 95th and Lakefront Chicago, Illinois 60617	
Quarter NW	Section 5	Township 37	Range 15E
Type of aquatic resource(s) to be impacted *(Attach Worksheet One.)* Lake Michigan		Project name or title *(if applicable)* Calumet Harbor Breakwater Repair	

Other location descriptions or driving directions

The attached breakwater is accessible from vacant land (former USX South Works property) located at 3426 East 89th Street, Chicago, Illinois 60617

4. Project Purpose and Description (*Use additional sheet(s) if required.*)

Has any construction been started?	Anticipated start date *(month, day, year)*
☐ Yes ☒ No	1 April 2024

If yes, how much work is completed?

Purpose of project and overview of activities

Several areas along the exisiting Calumet Harbor breakwater are in critial need of repairs to maintain their stability and structural integrity. The total length of the breakwater attached to the shore is approximately 6,700 linear feet; the first 1,600 linear feet nearest the shoreline are located in the State of Illinois, and the remaining 5,100 linear feet are in the State of Indiana. The breakwater is continuously subjected to impacts from wave action, weathering, and tempurature (freeze/thaw) effects. As a consequence, the condition of the breakwater has gradually been deteriorating, and periodic inspections are performed to assess the need for maintenance. Although the inspections may identify areas along the breakwater that need repairs, the maintenance work for harbors on the Great Lakes is prioritized based on certain criteria, such as the extent of damage, potential impacts to navigation, and the availability of funding. This project includes areas of the breakwater that have been identified as needing immediate repair. The repairs will include the placement of additional armor stone along the sides as well as the top of the breakwater and resetting existing armor stone. The weight of the individual armor stones used for the repairs are expected to be between 3 to 7 tons each, and the approximate amount of armor stone that will be placed in 2024 and 2025 is 15,000 tons, with an approximate volume of 7,400 cubic yards total. The existing stone cap will be broken into fragments between one and four feet in any dimension, and these fragments will be left in place to fill in existing voids in the timber crib structure and provide a more stable foundation for the new armor stone that will be placed on top of the structure. Existing rebar protruding from the stone cap will be cut and removed. The repairs are intended to restore the exisiting structure to its original design function and avoid modification to its footprint.

5. Avoidance, Minimization, and Mitigation Information: Applicants must answer all of the following questions
(*Use additional sheet(s) if necessary - provide a detailed response to all applicable questions.*)

A. For projects with Class II isolated wetlands –

1. Is there a reasonable alternative to the proposed activity?
   Not applicable

2. Is the proposed activity reasonably necessary or appropriate?
   Not applicable

B. For projects with Class III wetlands, adjacent wetlands, and/or streams, rivers, lakes or other water bodies –

1. Is there a practicable alternative to the proposed activity?
   No. The propsed repairs must be performed or areas of the structure will continue to deteriorate and will eventually fail. Allowing the breakwater to fail is not a practicable alternative because the structure is essential for ensuring safe navigation for vessels through Calumet Harbor. The breakwater structure for Calumet Harbor also provides a safe harbor of refuge on southern Lake Michigan for vessesls during storms and helps protect the U.S. Coast Guard Station in Calumet Harbor.

2. Have practicable and appropriate steps to minimize impacts to water resources been taken?
   The breakwater structure will be repaired by the placement of large, durable armor stone, weighing approximately 3 to 7 tons, as well as by resetting existing armor stone. The operations are expected to have minimal impact on water resources.

Describe all compensatory mitigation required for unavoidable impacts.
No compensatory mitigation is proposed. The proposed repairs are to maintain a previously authorized Federal project.

6. Drawing / Plan Requirements *(Applicants must provide the following.)*

a. Top/aerial/overhead views of the project site showing existing conditions and proposed construction.
b. Cross sectional view of areas of fill or alterations to streams and other waters.
c. North arrow, scale, property boundaries.
d. Include wetland delineation boundary *(if applicable)*. Label all wetlands (jurisdictional, isolated and exempt) as I-1, I-2, I-3, etc. and the mitigation areas as M-1, M-2, etc.
e. Location of all surface waters, including wetlands, erosion control measures, existing and proposed structures, fill and excavation locations, disposal area for excavated material, including quantities, and wetland mitigation site *(if applicable)*.
f. Approximate water depths and bottom configurations *(if applicable)*.

7. Supplemental Application Materials *(Applicants must provide the following.)*

a. A wetland delineation of all wetlands on the project site *(for projects with wetland impacts)*.
b. At least three photographs of the project site. Indicate the photo locations on the project plans.
c. If isolated wetlands are present, a letter from the Corps of Engineers verifying this statement.
d. Wetland mitigation plan and monitoring report.
e. Classification of all isolated wetlands on the tract *(if isolated wetlands are present onsite)*.
f. Copies of all applicable local permits and/or resolutions pertaining to the project or tract.
g. Tract history *(see instructions)*.

8. Additional information that MAY be required *(IDEM will notify you if needed.)*

a. Erosion control and/or storm water management plans.
b. Sediment analysis.
c. Species surveys for fish, mussels, plants and threatened or endangered species.
d. Stream habitat assessment.
e. Any other information IDEM deems necessary to review the proposed project.

9. Permitting Requirements

a. Does this project require the issuance of a Department of the Army Section 404 Permit from the US Army Corps of Engineers? ☐ Yes ☒ No

If no, you do not need to answer Part b.

b. Have you applied for an Army Corps of Engineers Section 404 permit? ☐ Yes ☒ No

If yes, please supply the Corps of Engineers ID Number, the Corps of Engineers District, the project manager, and a copy of any correspondence with the Corps. **If no, contact** the Army Corps of Engineers regarding the possible need for a permit application.

The U.S, Army Corps of Engineers complies with the requirements for Clean Water Act Section 404 permits but does not issue permits to itself.

c. Have you applied for, received, or been denied a permit from the Department of Natural Resources for this project? ☐ Yes ☒ No

Please give the permit name, permit number, and date of application, issuance or denial.

Coastal zone consistency is being pursued congruently by USACE, Chicago District with Indiana Department of Natural Resources (DNR) for this project.

d. Have you applied for, received, or been denied any other federal, state, or local permits, variances, licenses, or certifications for this project? ☐ Yes ☒ No

Please give the permit name, agency from which it was obtained, permit number, and date of issuance or denial.

10. Adjoining Property Owners and Addresses

List the names and addresses of landowners adjacent to the property on which your project is located and the names and addresses of other persons (or entities) potentially affected by your project. Use additional sheet(s) if required.

Name	Address *(number and street)*	City	State	ZIP Code
Illinois International Port District	3600 East 95th Street	Chicago	IL	60617
U.S. Coast Guard, Station Calumet Harbor	4001 East 98th Street	Chicago	IL	60617
U.S. Steel Corporation, Corporate Headquarters	600 Grant Street	Pittsburg	PA	15219
Chicago Park District	541 North Fairbanks Court	Chicago	IL	60611
North America Stevedoring Company, LLC	9301 South Kreiter Avenue	Chicago	IL	60617

11. Signature - Statement of Affirmation

I certify that I am familiar with the information contained in this application and, to the best of my knowledge and belief, such information is true and accurate. I certify that I have the authority to undertake and will undertake the activities as described in this application. I am aware that there are penalties for submitting false information. I understand that any changes in project design subsequent to IDEM's granting of authorization to discharge to a water of the state are not authorized and I may be subject to civil and criminal penalties for proceeding without proper authorization. I agree to allow representatives of the IDEM to enter and inspect the project site. I understand that the granting of other permits by local, state, or federal agencies does not release me from the requirement of obtaining the authorization requested herein before commencing the project.

Applicant's Signature: _____ Date: 02/21/2024 *(mm/dd/yyyy)*

Print Name: William P. Mazzeno, PMP Title: Chief, Operations and Regulatory Division

Worksheet – Summary of Onsite Water Resources and Project Impacts

A. Jurisdictional Wetlands (Existing Conditions) / Jurisdictional Wetlands (Proposed Impacts)

Wetland Type	Size of wetland *(acreage)*	To be Impacted?	Acreage	Fill quantity *(cys)*	ATF
☐ EM ☐ SS ☐ FO		☐ Yes ☐ No			
☐ EM ☐ SS ☐ FO		☐ Yes ☐ No			
☐ EM ☐ SS ☐ FO		☐ Yes ☐ No			
☐ EM ☐ SS ☐ FO		☐ Yes ☐ No			
☐ EM ☐ SS ☐ FO		☐ Yes ☐ No			
☐ EM ☐ SS ☐ FO		☐ Yes ☐ No			
☐ EM ☐ SS ☐ FO		☐ Yes ☐ No			

Describe the type and composition of fill material to be placed in wetlands on the project site:

Describe the type and composition and quantity *(cubic yards)* of material proposed to be dredged or excavated from wetlands on the project site:

B. Isolated Wetlands (Existing Conditions) / Isolated Wetlands (Proposed Impacts)

Wetland Class	Type	Size of wetland *(acreage)*	To be Impacted?	Acreage	Fill quantity *(cys)*	ATF
☐ 1 ☐ 2 ☐ 3	☐ NF ☐ F		☐ Yes ☐ No			
☐ 1 ☐ 2 ☐ 3	☐ NF ☐ F		☐ Yes ☐ No			
☐ 1 ☐ 2 ☐ 3	☐ NF ☐ F		☐ Yes ☐ No			
☐ 1 ☐ 2 ☐ 3	☐ NF ☐ F		☐ Yes ☐ No			
☐ 1 ☐ 2 ☐ 3	☐ NF ☐ F		☐ Yes ☐ No			
☐ 1 ☐ 2 ☐ 3	☐ NF ☐ F		☐ Yes ☐ No			

Describe the type and composition of fill material to be placed in isolated wetlands on the project site:

Describe the type and composition and quantity *(cubic yards)* of material proposed to be dredged or excavated from isolated wetlands on the project site:

C. Bridges and Stream Crossings - provide the following information for EACH structure (*Use additional sheet(s) if required.*)

Stream name

Description of impacts

Length of upstream bank impacts:
Left side: Right side:

Length of downstream bank impacts:
Left side: Right side:

Bank protection fill placed below the Ordinary High Water Mark:
Volume per running foot:

Bank protection fill placed below the Ordinary High Water Mark:
Area of coverage:

D. Bank Stabilization – provide the following information for EACH segment (*Use additional sheet(s) if required.*)
Water body name
Description of impacts
Length of shoreline or bank protection
Volume *(cubic yards)* of bank protection fill placed below the Ordinary High Water Mark per running foot
Area *(square feet)* of bank protection fill placed below the Ordinary High Water Mark

E. Stream Relocation	
Water body name	
Description of impacts	
Length of existing channel to be relocated *(linear feet)*	
Length of new channel to be constructed *(linear feet)*	
Existing channel to be backfilled? ☐ Yes ☐ No	Type of relocation ☐ Piping ☐ Open ☐ Channel ☐ Other:____
Type of fill and volume *(cubic yards)*	

F. Open Water Fill
Water body name Lake Michigan
Description of impacts Minor impacts due to the placement of armor stone. Individual stones weighing roughtly 3 to 7 tons, and the resetting of existing armor stone. The additional stone will be placed on the sides as well as on top of the existing breakwater structure.
Area of water body to be filled *(acres)* The approximate area in which armor stone may be added or existing stone reset is four (4) acres.
Type of fill and volume *(cubic yards)* Large, high quality, individual breakwater armor stone. Approximate volume is 3,700 cubic yards in 2024 and 2025, for a total of 7,400 cubic yards.

Calumet Harbor Breakwater Repairs FY24 & 25

U.S. Army Corps of Engineers
Chicago District

Path: C:\Users\RBZAL\Documents\ArcGIS\Projects\Calumet\Calumet.aprx

Legend

- Breakwater Work Limits
- State Line

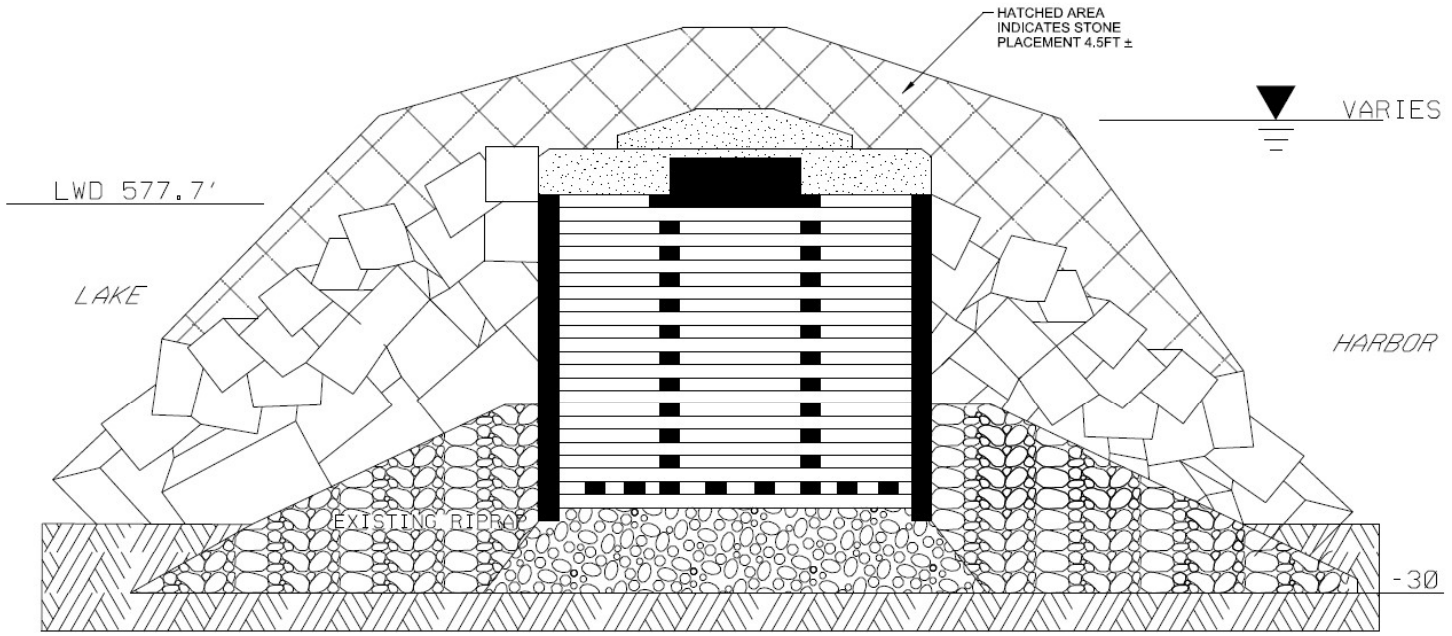
Calumet Harbor

Breakwater Maintenance Repairs

Date Modified: 2/2/2024

WGS 1984 Web Mercator Auxiliary Sphere

Typical Cross Section



TIMBER CRIB BREAKWATER

PROPOSED ARMOR STONE