

Calumet Harbor and River, Illinois & Indiana Dredged Material Management Plan and Chicago Area CDF Status

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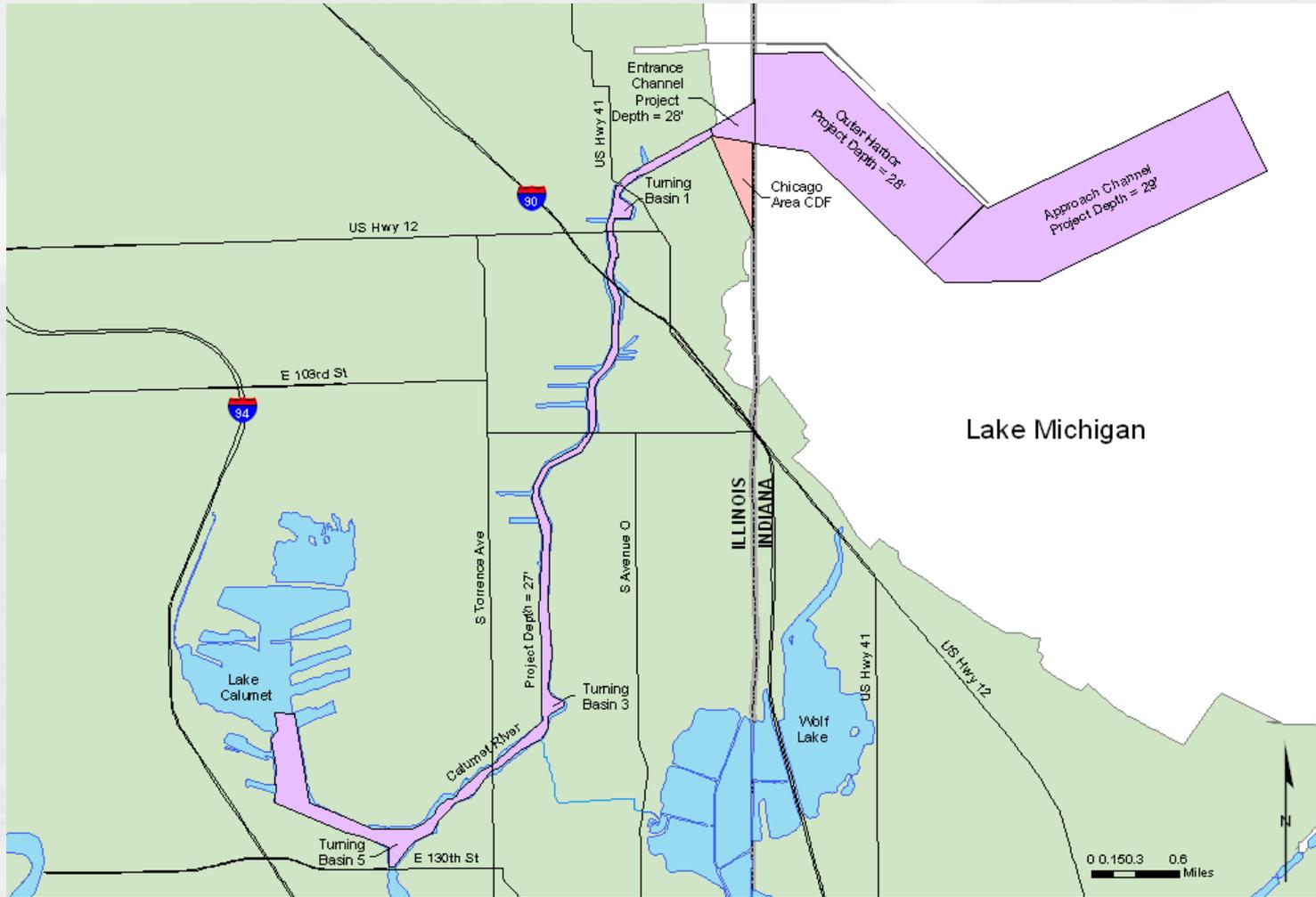
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US Army Corps of Engineers
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Authorized Channel



BLUF

- Chicago Area CDF is near capacity (~150,000 cubic yards remaining)
- Only river dredging goes to the CDF
- 50,000 cu yards is dredged every other year
- Will reach capacity in six years (2022)
- Need new site for a CDF



CALUMET HARBOR

CHICAGO CDF CURRENT ACTIVITIES:

- **Dredged Material Management Plan**



DMMP completion is scheduled in 2016 pending a commitment from local sponsor, but future disposal solution is 7-10 years away.

Sediment management efforts will focus on grading, and trenching to accelerate sediment drying, and piling to optimize available space.

All future material dredged from the Outer Harbor will be segregated and stockpiled outside of the CDF for beneficial uses, such as the future site closure cap.



Calumet Harbor & River Navigation Project

- Economic benefits
 - ▶ Commodity movement generate over \$106M annually
 - ▶ Supports nearly 1,300 jobs
 - ▶ Over 11.7 million tons moved in 2013
 - Ranks 3rd in tonnage among Great Lakes harbors
- Dredging needs
 - ▶ Approximately 50,000 cy per year
 - ▶ Total of 1,000,000 cubic yards over next 20 years



Dredged Material Management Plan

- Identify management measures for next 20 years
- Federal Standard/Base Plan
 - ▶ Protective of the environment
 - ▶ Sound engineering
 - ▶ Least Cost
- Federal Standard
 - ▶ Harbor: Beneficial use
 - ▶ River: Confined disposal



Management Measures

Objective	Measure
Reduce Dredging Requirements	<ul style="list-style-type: none">• Modify navigation channel• Sediment source reduction
Beneficial Use	<ul style="list-style-type: none">• Create parkland• Landfill/Brownfield cover• Structural or non-structural fill
Sediment Remediation	<ul style="list-style-type: none">• Manufactured Soil• Solidification/Stabilization• Soil Washing• Vitrification/Cement Lock
Increase CDF Capacity	<ul style="list-style-type: none">• Expand Existing CDF• New Upland CDF• New Aquatic CDF



Maximizing Use of Existing CDFs

- Section 148, Water Resources Development Act of 1976 (P.L. 94-587):
 - ▶ Addresses management practices to extend capacity and useful life of dredged material disposal areas

"The Secretary of the Army, acting through the Chief of Engineers, shall utilize and encourage the utilization of such management practices as he determines appropriate to extend the capacity and useful life of dredged material disposal areas such that the need for new dredged material disposal areas is kept to a minimum. Management practices authorized by this section shall include, but not be limited to, the construction of dikes, consolidation and dewatering of dredged material, and construction of drainage and outflow facilities."



Multi-Agency Teams

- Dredged Material Management Plan
 - ▶ USACE
 - ▶ Illinois International Port District
 - ▶ City of Chicago
 - ▶ Chicago Park District



Questions?

