



Proposed Sediment Cleanup Plan for East Chicago Waterways Public Meeting

June 25,2015

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Diana Mally, U.S. EPA

Jim Wescott, Tetra Tech





- Welcome Fernando Treviño, ECWMD
- Past Work Summary Diana Mally, U.S. EPA
- Project and Cleanup Options Review Jim Wescott, Tetra Tech
- Community Comments



Past Project Work







Grand Calumet River/Indiana Harbor Canal Feasibility Study





East Chicago Waterway Management District

Jim Wescott

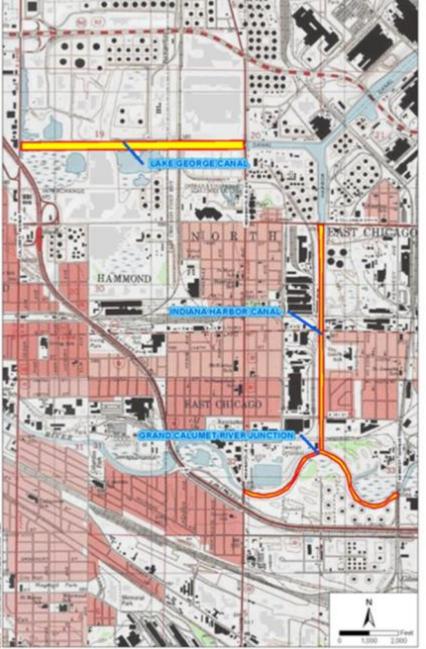
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Current Project Area – GCR/IHC







Project Summary



- Sampling & Remedial Investigation
- Feasibility Study
- Preliminary Design
- Final Design
- Phased Construction



RI/FS Tasks



Remedial Investigation

- Sediment Sampling
- Pore Water Sampling
- Source Control Evaluation

Feasibility Study

- Bathymetric and Topographic Surveys
- Geotechnical Sampling
- Clean Up Goals Development
- Remedial Alternative Screening and Evaluation
- Clean Up Alternatives





Proposed Cleanup Alternatives



- Alternative 1: No Action
- Alternative 2: Removal of Contaminated Sediment
 - Sediment would be dredged hydraulically
 - Floating equipment would be used to remove and transport sediment through a pipeline to a drying area
 - Sediment would then be transferred to an off-site landfill
- Alternative 3: Containment
 - Several types of capping materials would be used, depending on the conditions of the area, to capture and impede the movement of contaminants
 - Containment cap
 - Could include materials like clean sand and clay or an activated carbon layer covered by a protective layer of gravel
 - · Prevents erosion
 - Multi-layer reactive cap
 - A containment cap that also includes a layer of reactive material
- Alternative 4: Removal with Containment
 - A combination of dredging and disposal of impacted sediment and containment of the remaining sediment
 - Removal as described in Alternative 2 would occur in areas where contaminant concentrations are too high or a steep slope would prevent a containment system to be installed
 - A containment cap or multilayer reactive cap as described in Alternative 3





Selection Considerations



- Cost
- Permits
- Site Access
- Utilities and other Debris
- Sediment Characteristics
- Long-Term Effectiveness
- Potential for Recontamination
- Future End Use
- Stakeholder and Community Acceptance





Grand Calumet River — Preferred Alternatives SEPA





- West Branch Alternative 4: Containment with Removal
- East Branch Alternative 3: Containment



Indiana Harbor Canal

 Alternative 4: Containment with Removal









Lake George Canal





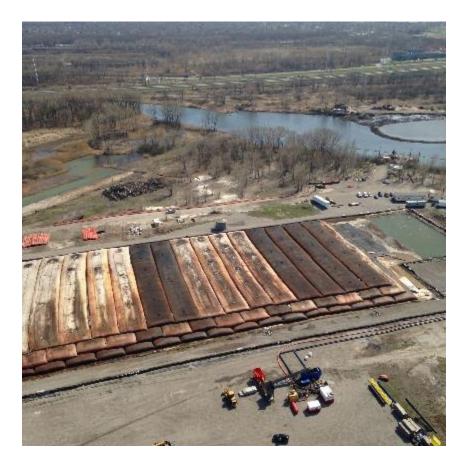
- East Section Alternative 2: Removal
- Middle Section Alternative 3: Containment
- West Section Alternative 2: Removal





Typical Remedial Tasks









Time Frame and Costs



- Begin Dredging 2016
- Complete remedial action 2018 2020
- Cost Ranges from \$61 Mil to \$66 Mil
- Schedule heavily dependent on non-federal and federal funding
- Construction could be broken into smaller pieces to facilitate funding and stakeholder priorities





Questions?

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For More Information



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Copies of the Remedial Investigation/Feasibility Study and other documents about the project can be viewed at the following locations:

ECWMD

4444 Railroad Avenue

East Chicago

East Chicago Public Library

2401 Columbia Drive

East Chicago

Websites: www.in.gov/ecwmd/

www.greatlakesmud.org



Community Comments

- Cleanup Options Comments
- Future Use Ideas

