

Addressing Lake Erie Water Clarity: BMPs for Turbidity and Placement of Dredged Material

Anna Kamnyev, Program Manager
Division of Surface Water

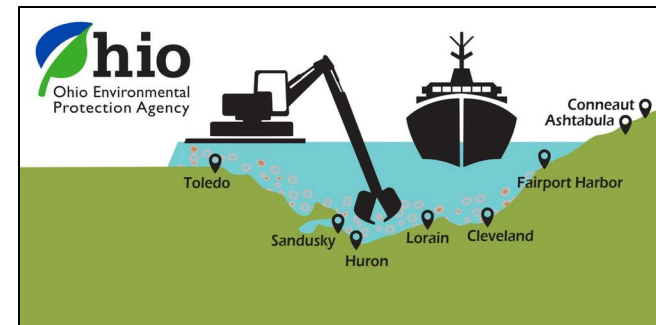
BMPs for Turbidity When Placing Dredge Material in Lake Erie

- Municipal Water Supply Intake Facilities
 - Dredging operations shall not take place within 3000 feet up-current of municipal water supply intakes
 - Notify municipal water supply users whose water quality may be affected by turbidity plumes prior to dredging (or placement of dredge material)
- Fish and Wildlife Restrictions
 - Mussel surveys and relocations
 - Fish spawning windows (in-water work restrictions)



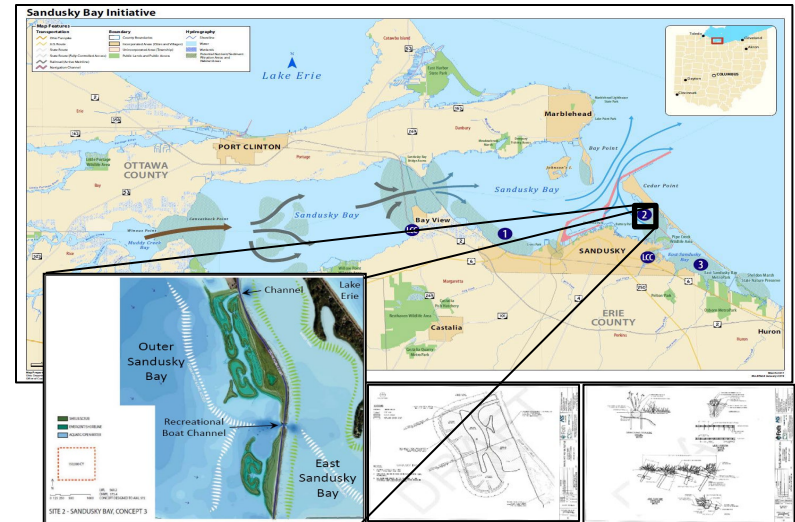
Alternative Approaches to Addressing Water Clarity in Lake Erie

- Dredging Placement BMP
- Sampling for PCBs/other contaminants
- ORC 6111.32 Dredging Plan restricts open-lake placement of dredge material into Lake Erie
 - Combined Disposal Facilities
 - Beneficial use projects
 - Beach nourishment projects with >79% sand
 - Placement in littoral drift > 59% sand
 - Habitat restoration projects
 - Limited open water placement to 10k CY



Alternative Approaches to Addressing Water Clarity in Lake Erie Cont'd

- Evaluate and approve based on project need, purpose, and design
- Major investments in beneficial use of dredge material to restore functional wetlands
- Healthy Lake Erie and H2Ohio projects (Cedar Point Causeway and Sandusky Bay Initiative)
- Innovative nature-based design techniques to minimize water quality degradation



Cedar Point Causeway Phase 1



Future Considerations..

- Ohio EPA is interested in evaluating innovative opportunities to further reduce any potential negative effects on water quality that may be caused by turbidity

