

Beneficial Use Opportunities-Lessons Learned in Duluth/Superior

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Lessons Learned

what worked.....

- Data- clarified project purpose, streamlined environmental review
- ☐ Pilot-scale approach- introduced a manageable investment
-and what didn't....
- ☐properly managing expectations

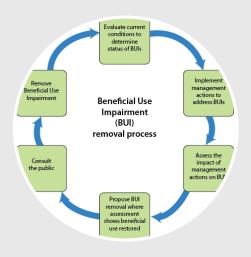
Outline

- Design approach- prioritizing placement sites, measurable progress
- ☐ Partnerships- *project outcomes*
- ☐ Dredge management- future strategies

Beneficial Use in the Duluth/Superior Harbor-Sequential Opportunities



St. Louis River
Area of Concern

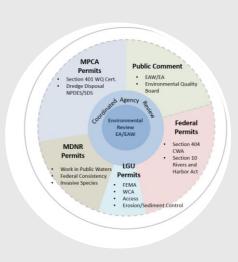


Beneficial Use Impairments



Federal and State Funds

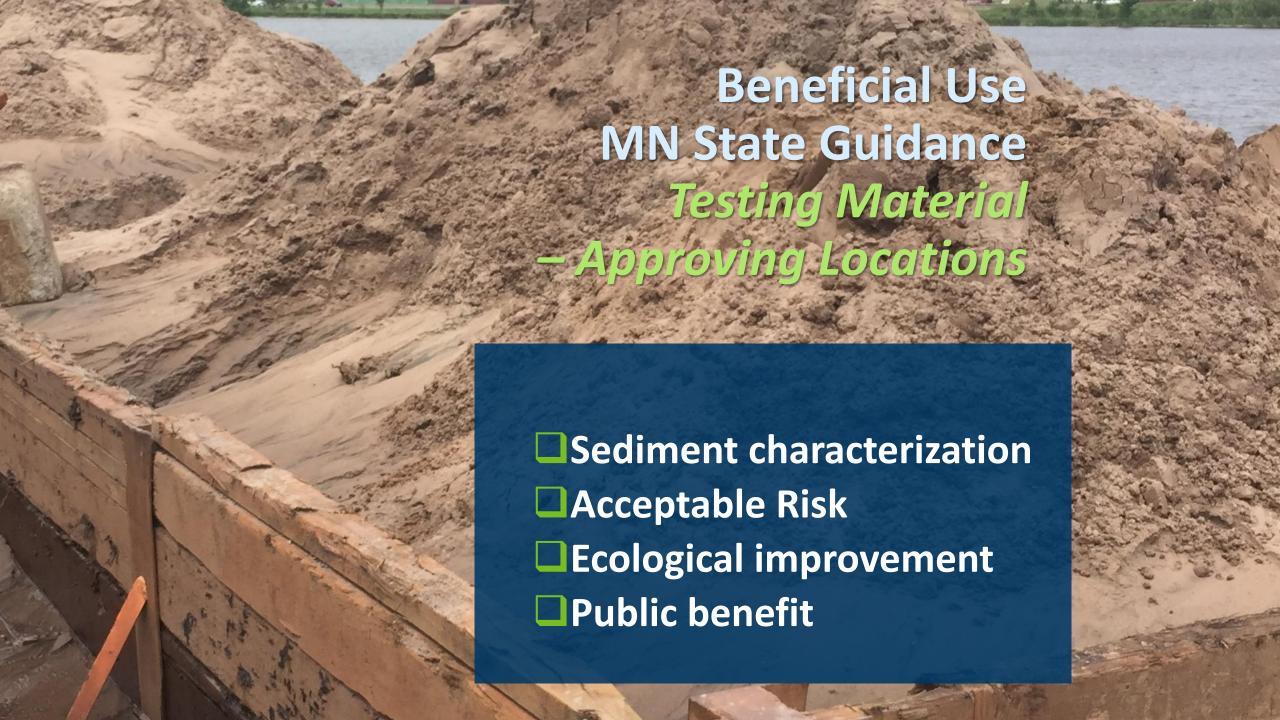
GLRI, GLLA and OHC, CWL



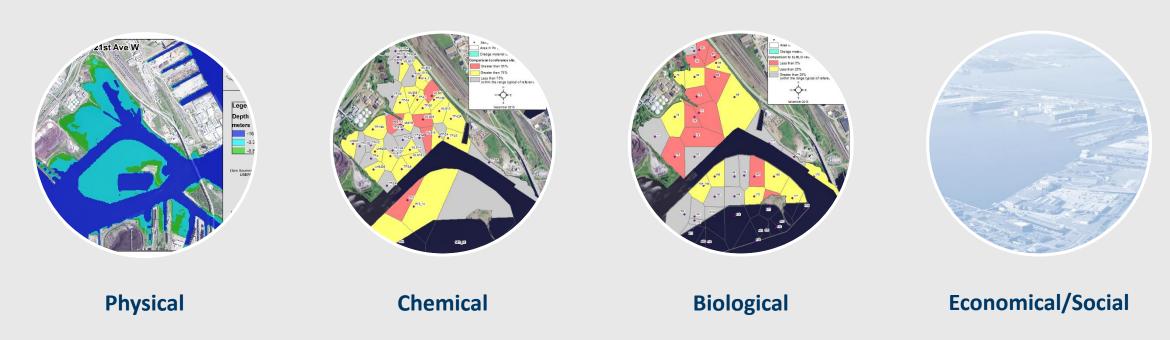
Harmonizing Federal and State Regulations

Shared goals, funding, and measurable outcomes made it possible

7/1/2019

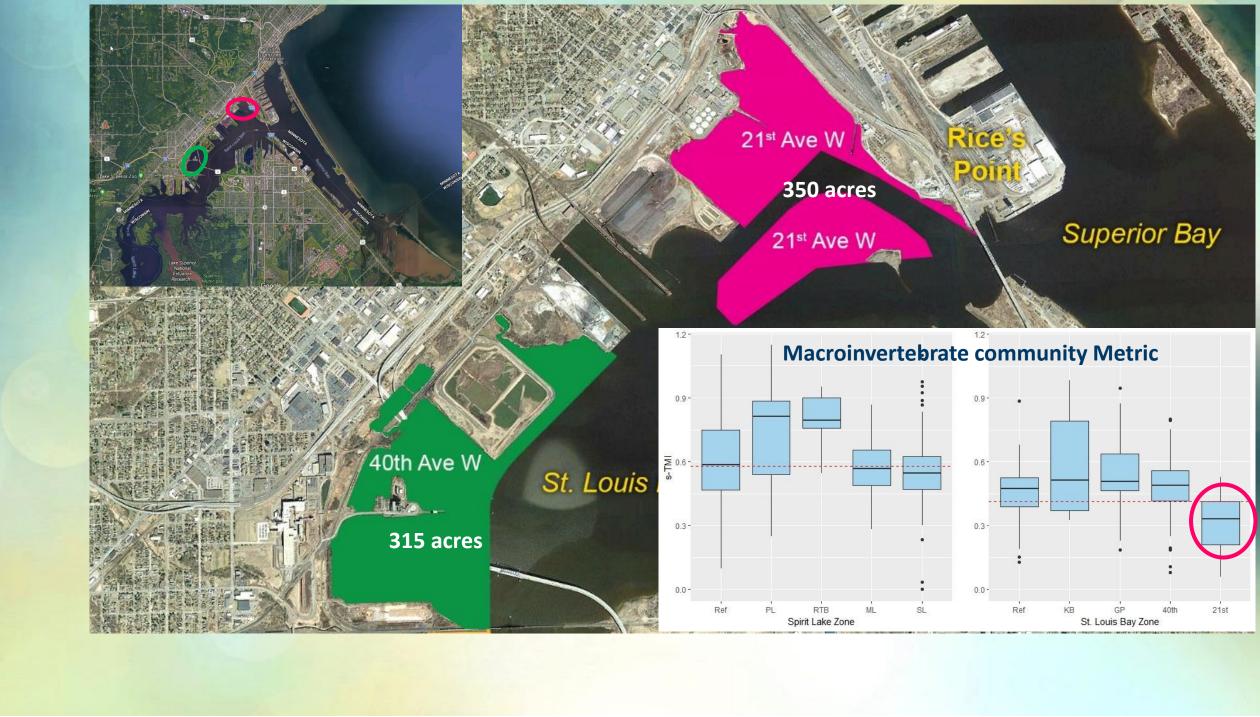


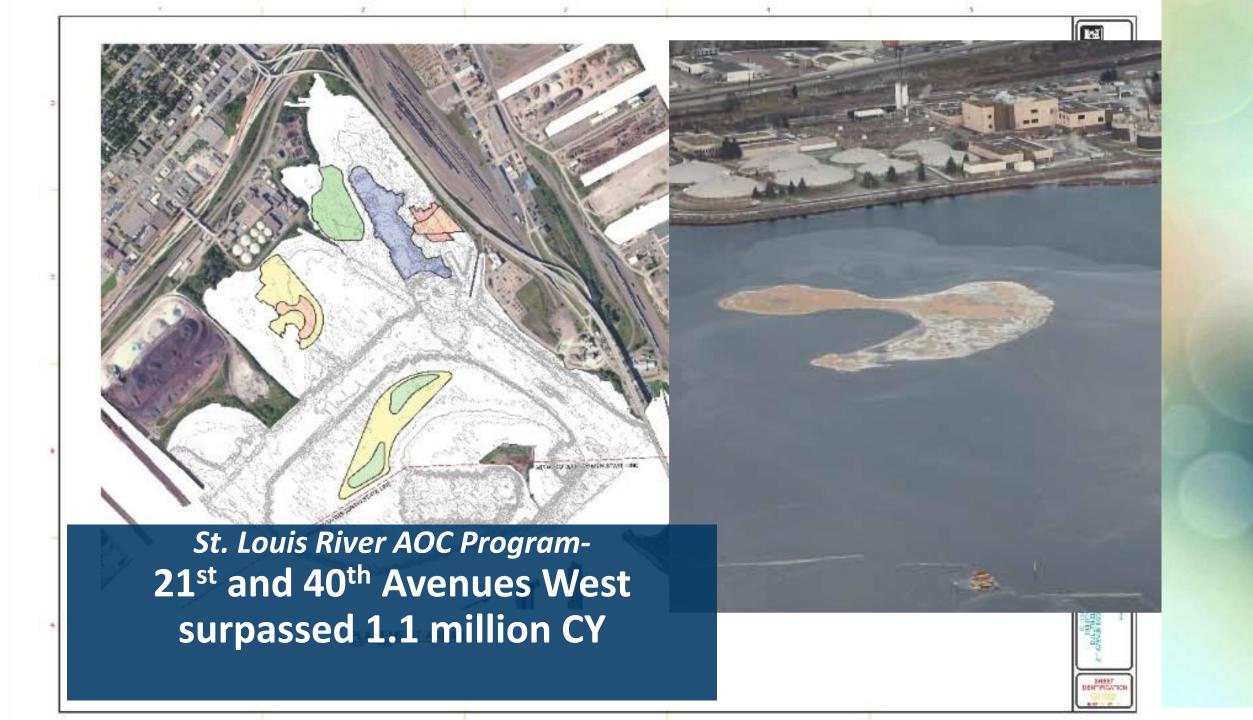
Approving Locations Design-basis approach

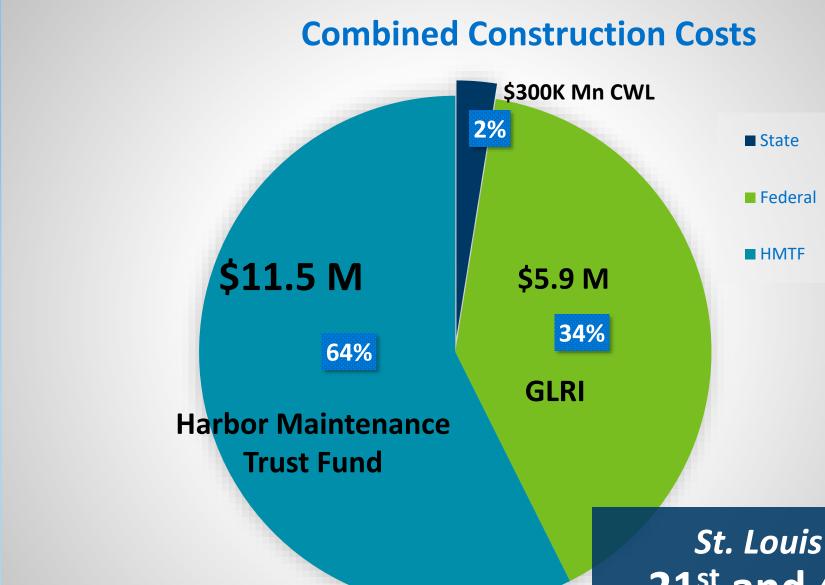


Multiple lines of evidence, established targets, SWAc, timely environmental review

7/1/2019 6







St. Louis River AOC Program-21st and 40th Avenues West partnership funding

Beneficial Use Contract Furnished and Strategic Navigation Dredging Projects



Slip 2



Minnesota Slip



Slip 3 and C



Shorebird Habitat

Remediation projects utilized >75,000 CY Wisconsin Point avian habitat >77,000 CY

7/1/2019

		Priority (High 3 / Medium 2 /
Placement Site Idea	Location	Low 1)
Increase resliency for Habitat & Infrastructure	TBD	3
MN Point Lake Side Beach Nourishment	Entire Point (up to Duluth Entry)	3 🗸
WI Point Lake Side Beach Nourishment	Schafer Beach, others?	3
Nourishment of Interstate Island and/or other Tern Island Creation	Interstate Island, other areas?	2.67
Remediation of Brownfield Sites	ТВО	2.67
U.S. Steel Restoration	U.S. Steel property	2.67
Construction Projects (filling basements/abandoned property/etc.)	тво	2.33
Continue processing and reuse through Erie Pier; take more sand to Erie Pier since it is desirable	Erie Pier	2.33
Develop ways to make smaller scale removal of material out of Erie Pier more feasible	Erie Pier	2.33



Duluth/Superior Harbor Working Group

Prioritized beneficial use projects

(top 10 of 38)

Lessons Learned

- ☐ Agreed upon State guidance- a consistent/transparent approach
- ☐ Funds for DATA- quantify conditions, achievable goals, and measure progress
- ☐ Pilot scale- comfortable level with time and money
- ☐ Permit application- compelling and concise
- ☐ Federal standard- cost effective contracts

- ☐ timeline conflicts- decision points not aligned with deadlines
- management challenges- material or people?
- ☐ partnerships- it takes partners willing to generate solutions
- ☐ relying on in-water habitat restoration- *caused complacency*

Beneficial Use in a Sustainable Dredge Management Plan



Open-Lake disposal



In-water restoration habitat maintenance



Facility for stockpiling or processing for land and/or water-based construction



Mine land reclamation

State incentives

7/1/2019



Concepts making beneficial use successful



- ☐ Partnerships- define roles and responsibilities
- ☐ Pilot-scale approach- manageable investments
- ☐ Participation- involved and innovative; 'no' is not an answer

