Image credit: Madison Rodman/MNSG

Flow of Information through DMD7

Sea Grant MINNESOTA

Sea^{*}

Grant

UNIVERSITY OF WISCONSIN



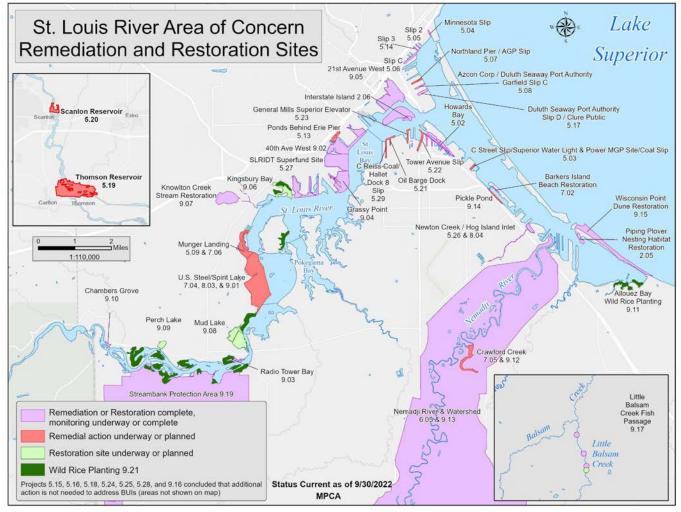
WORKSHOP SUMMARY Kelsey Prihoda, Minnesota Sea Grant





Habitat Restoration Projects in Duluth-Superior Harbor Beneficially using Dredged Material





PROJECT INTRODUCTION

Identifying Beneficial Use Priorities, 2025 - 2035

Goal

Identify beneficial use priorities for dredged material from the Port of Duluth-Superior from 2025 to 2035, so that the port can continue dredging operations and address planning needs in advance.

Funding

Minnesota's Lake Superior Coastal Program

Duluth Seaway Port Authority

Wisconsin Sea Grant (in kind)

Minnesota Sea Grant (in kind)



PROJECT INTRODUCTION

Identifying Beneficial Use Priorities, 2025 - 2035

Partners

Dredging Subcommittee of the Harbor Technical Advisory

Committee

Duluth Seaway Port Authority

Minnesota Sea Grant

Wisconsin Sea Grant

Work together to plan the workshop.

Attend the workshop.

Work together on workshop summary.



PROJECT TIMELINE

Project Task	Timeframe	Outcome and/or Deliverable
Funding awarded	October 16, 2023	
Workshop planning meeting #1 with HTAC Dredging Subcommittee	October 26, 2023	Finalize presenter and attendee invitation list Develop participant agenda Agree on workshop date
Workshop planning meeting #2 with HTAC Dredging Subcommittee	December 15, 2023	Develop workshop facilitation strategy Develop evaluation criteria for prioritizing beneficial uses of dredged material
One-day workshop	January 31, 2024	Prioritize dredged material placement sites for 2025 – 2035 Identify a champion/local sponsor for each priority placement site Determine monetary value of environmental benefits identified for each priority placement site Train attendees on use of the USEPA DMDT
Debrief of the workshop with HTAC Dredging Subcommittee	February 29, 2024	Prepare outline of workshop summary and timeline for development and release
Development of workshop summary	March 29, 2024	Present recommendations to inform the Port of Duluth- Superior Dredge Material Management Plan

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HOMEWORK!

Workshop Methods



1. Project Profile Information

2. Rank the DMDT Criteria

Open water habitat quality improved/harmed Wetlands habitat quality improved/harmed Urban/suburban habitat quality improved/harmed

U.S. EPA Dredged Material Decision Tool - Project and Site Worksheet

Full Name:				no dae d Material Decision Teel (D	(DT) Cuitonia Day		a wlych a a t
Affiliation:			U.S. EPA D	redged Material Decision Tool (D	MDT) Criteria Rai	iking w	orksneet
		sheet Instructions					
source material will be coming from Operati be determined annually). Approximately 110	ion and Maintenance Dredging by the U.S. ,000 cubic yards of sediment is dredged fro eet that are shaded in blue on or before Fric	of viable beneficial use alternative options for inclusion in the analysis. For analys Army Corps of Engineers in the Port of Duluth-Superior, with the exact location (lati om the Port of Duluth-Superior each year. Jay, January 26, 2024. Use one sheet per project/benefical use alternative. Send you	^{tt} 31, 2024 workshop, we are a importance of each of the 5 criteria. This exercise allow	emphasize the relative importance of certain criteria by adjustin asking all registered participants to rank their organizational or 0 criteria. Please limit the "Extremely Important (1)" ranking to <i>ss</i> us to compare priorities and responsibilities among workshop agency's priorities and responsibilities will be over-ruled by ar	agency priorities by using a five five criteria and spread the othe participants and the organization	e-point Likert sc r rankings out a ons they repres	ale to indicate the among the remaining 45 sent. All responses will
	Project and Site Informati	ion - Please use one sheet per project	weighting factor for each cr	iteria that equally incorporates the priorites of all workshop par	ticipants.		Ŭ
Name of Site:			Please complete the portion Prihoda (priho011@d.umn.e	is of the worksheet that are shaded in grey on or before Friday, edu).	January 26, 2024. Send your com	pleted worksho	eet by email to Kelsey
Type of Site:		If "other", identify type of site:					
Location of Site:							
Size of Site (specify feet,			Full Name				
acres, etc.)			Affiliation				
Owner:		If "other", identify type of owner:					
Name of Owner:					Priority Ranking		
State:					Enter a number 1 - 5 according to		
Purpose of project:		If "other", identify purpose:	Category	Criterion	the Likert Scale at right. Limit the		
Project Start (year):					"Extremely Important (1)" ranking		
Project End (year):					to 5 criteria.	Five-po	oint Likert Scale:
Primary Material Type				Rivers and streams habitat quantity gain/loss Lakes and ponds habitat quantity gain/loss		1	Extremely important
Secondary Material Type				Near coastal marine/estuarine habitat quantity gain/loss		- 2	Very important Moderately important
Volume Needed (cubic yards,				Open water habitat quantity gain/loss			Slightly important
				Wetlands habitat quantity gain/loss			Least important
				Urban/suburban habitat quantity gain/loss			ecose important
				Barren/rock and sand habitat quantity gain/loss			
				Rivers and streams habitat quality improved/harmed			
				Lakes and ponds habitat quality improved/harmed			
			Biophysical Environment (20	Near coastal marine/estuarine habitat quality improved/harmed			

WORKSHOP

January 31, 2024 at Duluth Office of Minnesota Pollution Control Agency

Expected Outcomes

- 1. Participants have a working knowledge of U.S. EPA DMDT.
- 2. Participants can use DMDT to identify priority beneficial use projects from 2025 2035 for the Port of Duluth-Superior.
- 3. Participants are aware of ecosystem services valuation methods that could be used for beneficial use projects.



WORKSHOP



January 31, 2024 at Duluth Office of Minnesota Pollution Control Agency



WORKSHOP

January 31, 2024 at Duluth Office of Minnesota Pollution Control Agency

Attendees

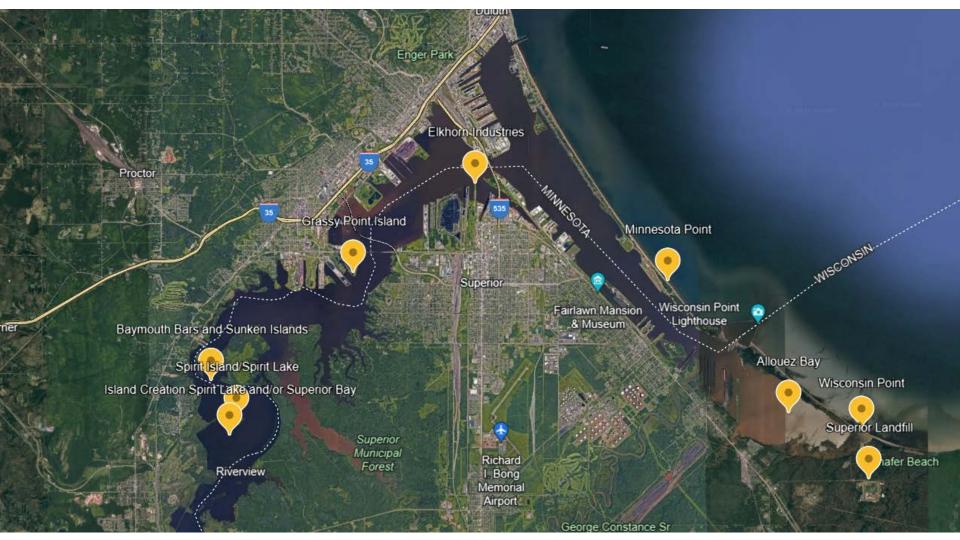
> 26 in-person

Cities of Duluth and Superior, state and tribal natural resource managers, transportation planners, dredging contractors, community groups, environmental advocacy organizations, transportation companies.

> 34 virtual

Registered participants hailed from all over - Port of Duluth-Superior to France.





WORKSHOP OUTPUTS TO DATE



DMDT Results – First Iteration

Worksheet Page	Project Name	Total Score	Environment	Economy	Social	Governance	Built Environment
1	Superior Landfill	64.9	26.6	11.0	7.5	12.1	7.7
2	Elkhorn Industries (Port Site)	47.4	15.6	11.6	4.9	10.6	4.6
3	Grassy Point Island	76.5	42.9	14.7	5.2	10.2	3.5
4.2	Allouez Bay	747	24.2	447	7.2	14.0	4.0
Thes	se projects did not data do not exis						ause
ЭХ	тыани стеалон. эрин цаке у эиреног рау	94.2	55.7	14.7	1.2	14.0	4.0

Ecosystem Services Valuation

Several methods that could be used

No examples in current literature of ecosystem services valuation for beneficial use projects

Need additional resources to apply these methods to one or more of the above projects





GREAT LAKES TRANSPORT

NEXT STEPS

Project Development

- More information is key to successful use of DMDT
- Use DMDT to identify project information gaps for future beneficial use projects

Build on the Existing Foundation

- Complete scoring individually for projects taking place in the next five years



THANK YOU!

Image credit: Cait Dettmann/I

Minnesota Sea Grant prepared this workshop using Federal funds under award NA21NOS4190083 from the Coastal Zone Management Act of 1972, as amended, administered by the Office for Coastal Management, National Oceanic and Atmospheric Administration (NOAA), U.S. Department of Commerce provided to the Minnesota Department of Natural Resources (DNR) for Minnesota's Lake Superior Coastal Program.