

Dock Underwater - Resilient Solution Involved Relocation on Brownfield Site

SESSION PRESENTER(S):



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Principal, Senior Project Manager





Agenda

1. Overview
2. Inception
3. Initiation
4. Design & Permitting
5. Construction
6. Project Close Out



Dock Underwater Resilient Solution Involved Relocation on Brownfield Site





Public Private Partnership Revitalizes Brownfield Site

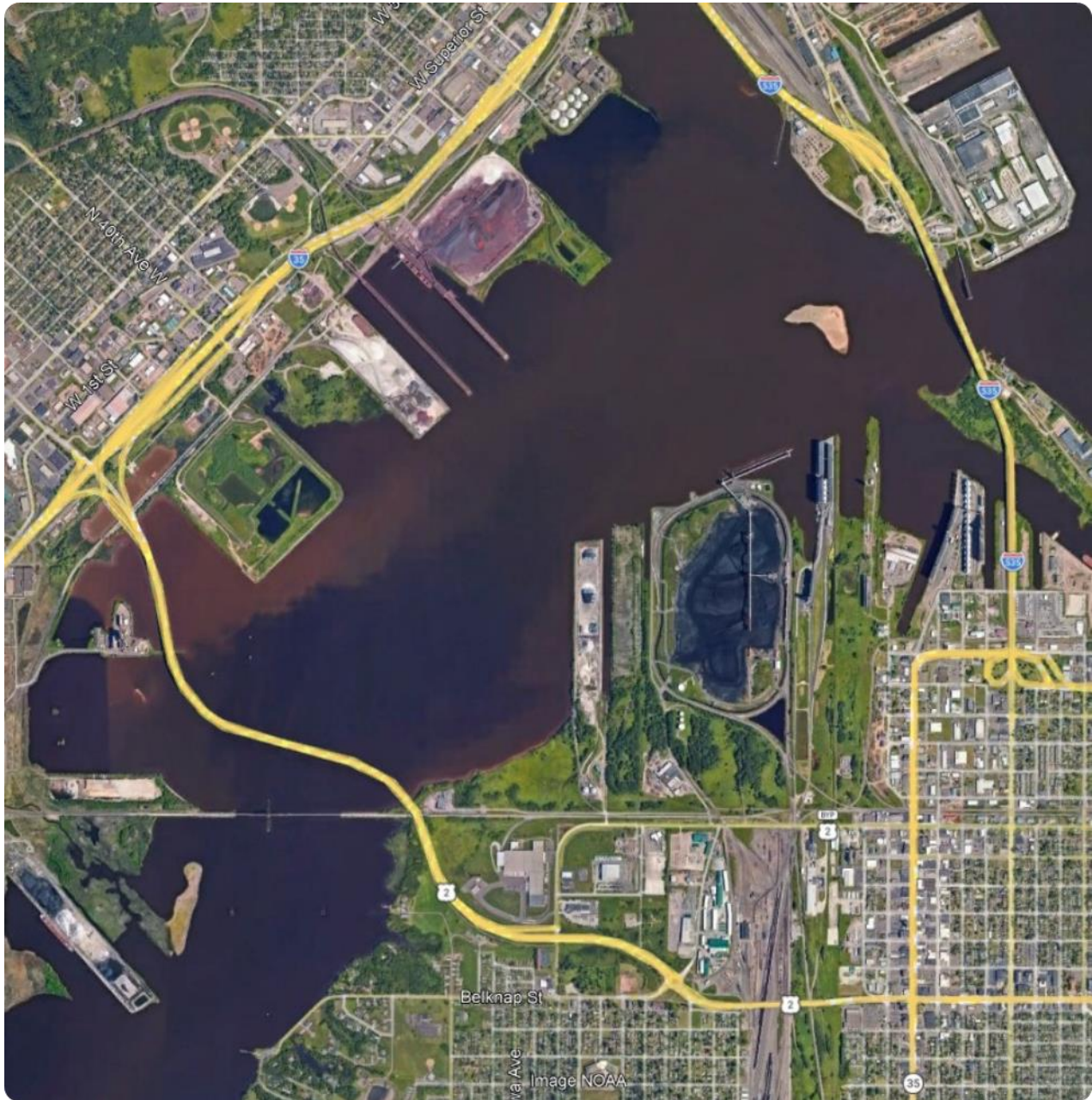
Project Partners:

- C. Reiss Company
- City of Superior
- WDNR
- US EPA
- US ACOE
- US Maritime Administration
- Wis DOT
- Stantec
- Krech Ojard
- American Engineering Testing





Existing Site Conditions In Floodway





Dock Underwater

Resilient Solution Involved Relocation onto a Brownfield Site from a Site in the Floodway

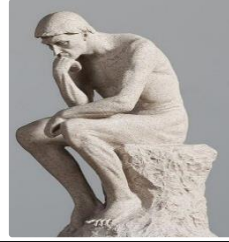
The brownfield redevelopment site existing dock was:

- Out of the floodplain
- Needed new rail access
- Was contaminated with on-site and off-site PAHs and Metals





Project Inception

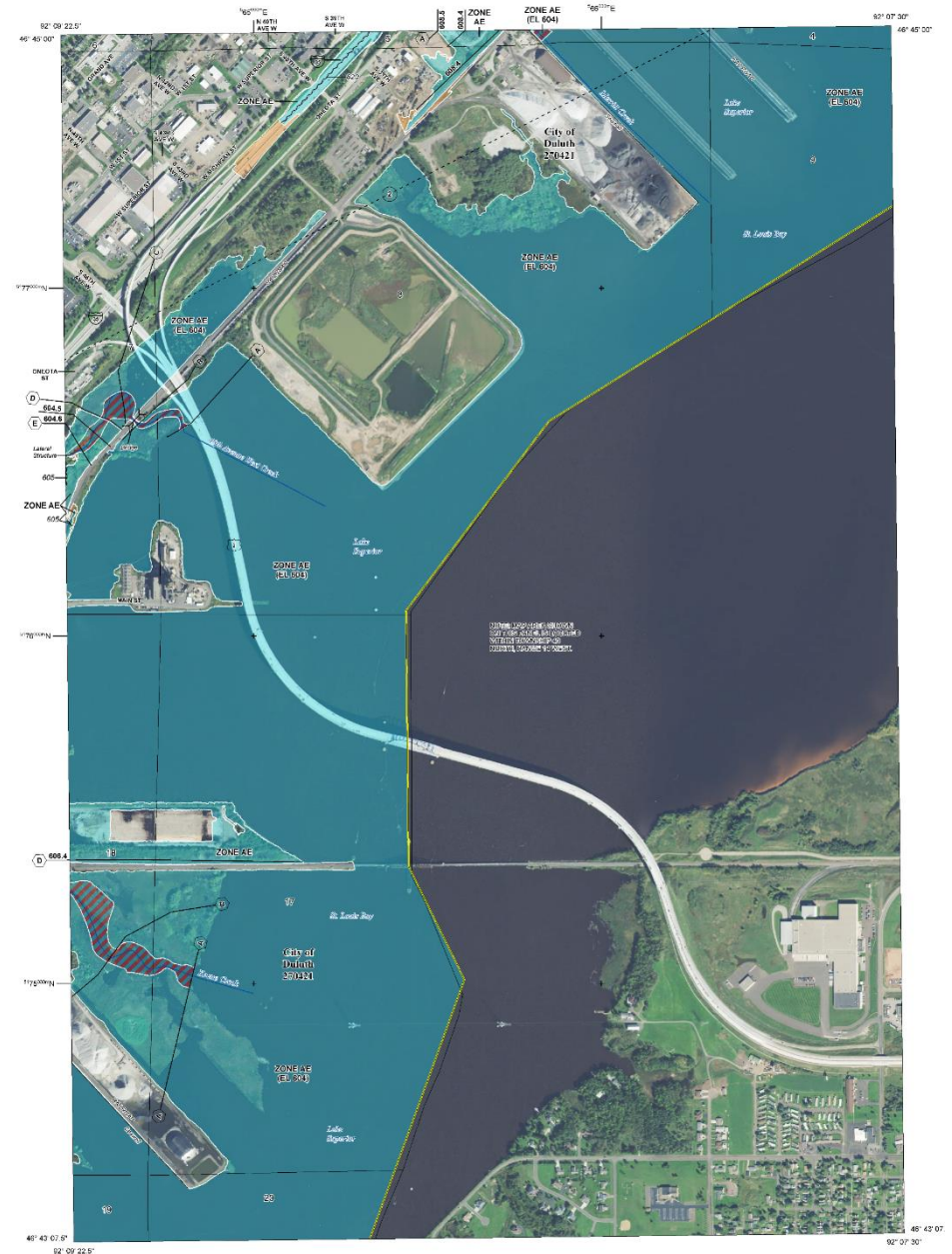


Project Need in 2019

- Flooding
- Limited operations on Dock in high water
- Regulations precluding raising existing dock
- Owned existing undeveloped brownfield dock

Grant Funding in 2020

- Wis Department of Transportation -\$3M
- US DOT Maritime Administration \$8.4M
- EPA Match \$1.03M- Legacy Act Funding
- Project proponent- \$7M





Project Initiation

- **Grant Agreements**
- **NEPA Compliance/QAPP**
- **Design & Permitting**
- **Two Contracts – Bid separate**

Dredge Contract- USACE/EPA

C. Reiss

- Contaminated and Navigational Dredging
- Dewatering
- Additives

Civil Contract- City of Superior (C. Reiss)

- Rail
- Road
- Stormwater
- Dock
- Buildings
- Utilities
- Dredge disposal





Project Permitting

Federal

EPA- Area of Concern
USACE- Dredge & Dock

State

WDNR
Land Lease
Dock
Remedial Action Plan
Endangered Species
Stormwater Pond & Grading
Wastewater/Carriage Water

Local

Stormwater
Utility
Building
Wetland Fill





Permit Requirements- Dredging

NAEP 2026 - STANTEC





70,000 CY on-site disposal berm





Brownfield Site Challenges





Project Construction Completion



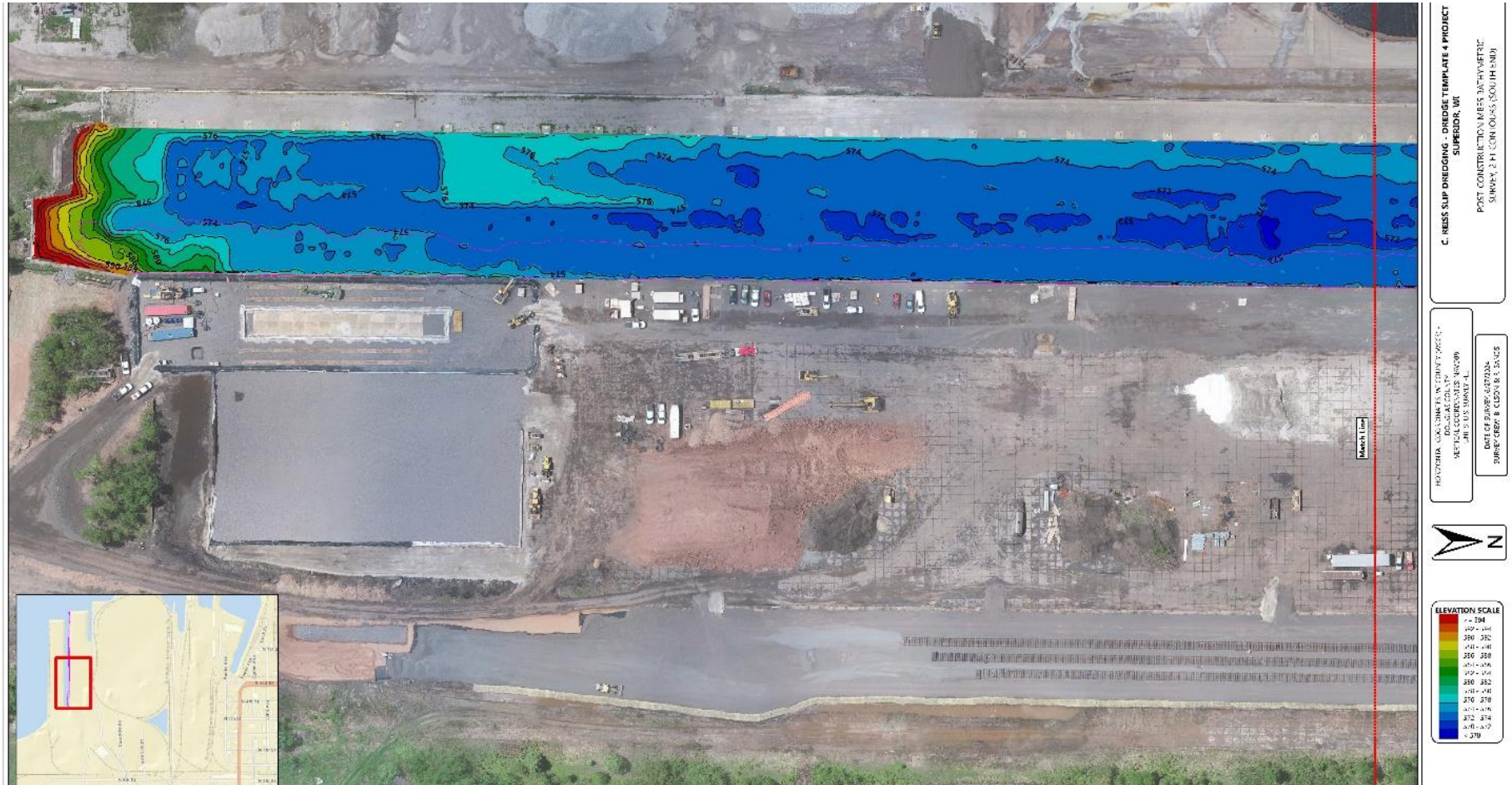
Before



After



Project Close Out



Dredge – As-built Survey



New Site Improvements





Conclusion

The challenges of climate change and brownfield site contamination redevelopment were overcome by implementing a diverse team to provide a resilient and cost-effective solution.

A wide-angle photograph of a coastal dune landscape. The foreground is dominated by tall, green grasses. In the middle ground, there are several large, spiky palm-like plants and various green shrubs. The background shows a sandy dune rising towards a blue sky with scattered white clouds. The overall scene is bright and sunny.

Thank You! Questions/Discussion

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