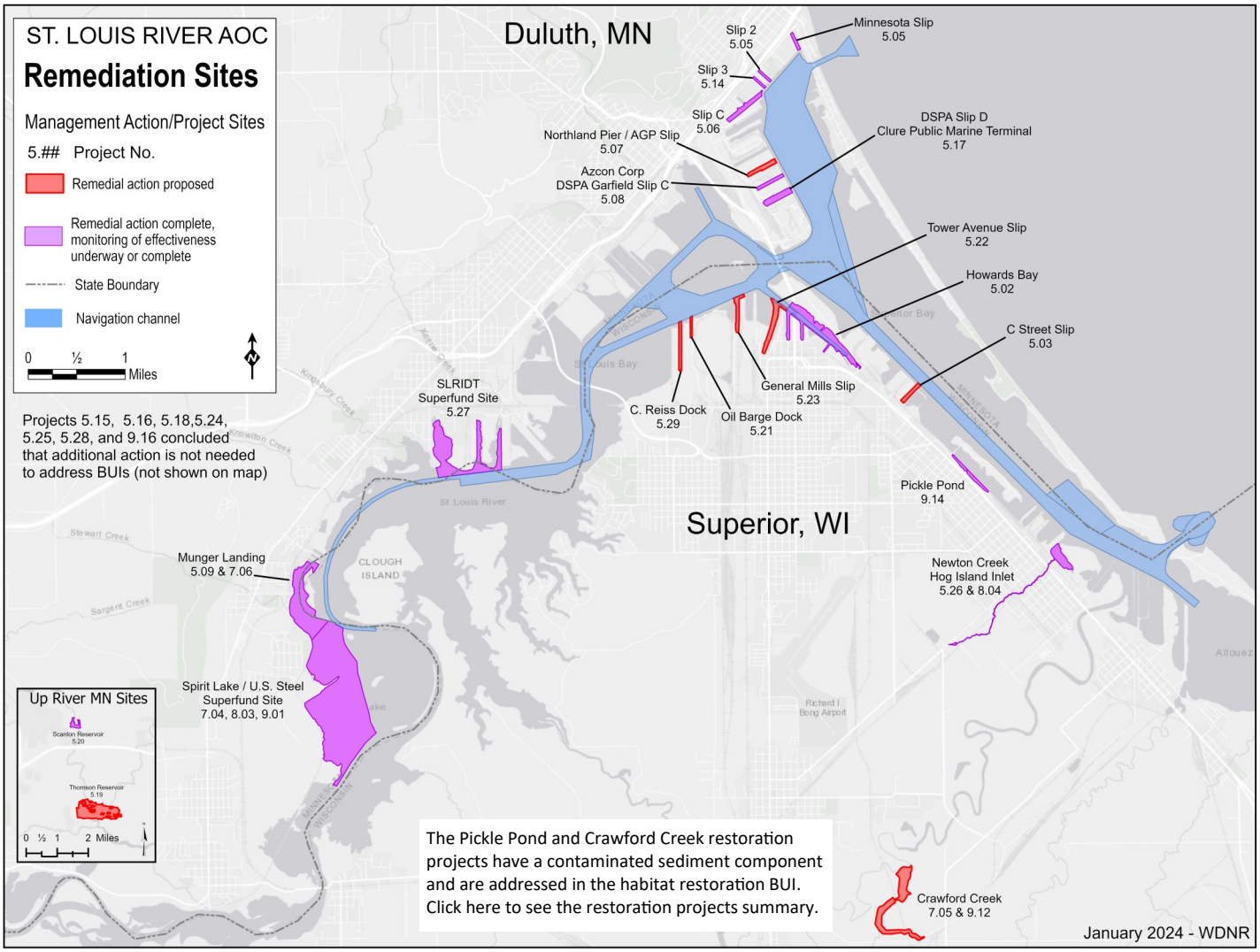
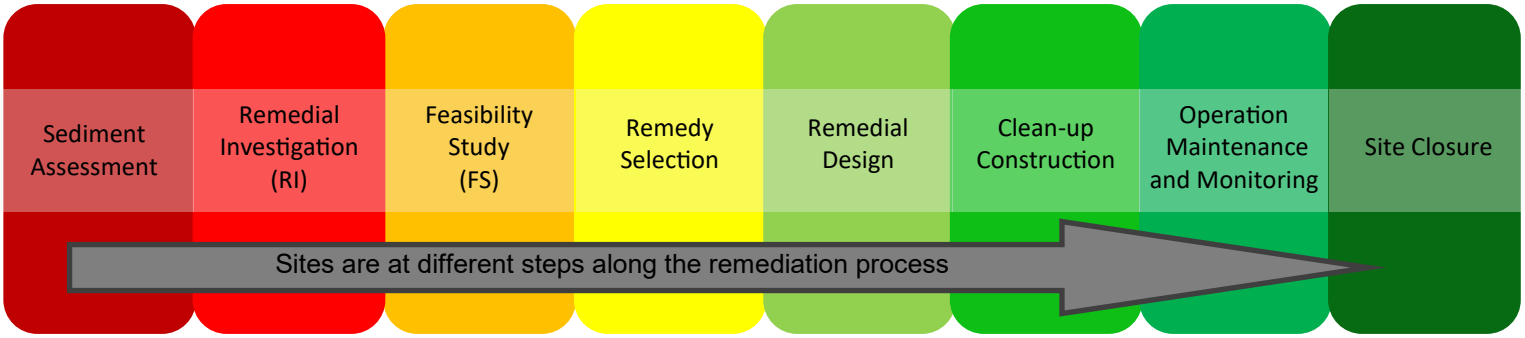
St. Louis River Area of Concern
Contaminated Sediment Remediation Sites





Sediment Remediation Options

Dredging is the removal of sediment from the bottom of a waterway to permanently eliminate contaminated sediments or to deepen channels. Dredging eradicates risks from legacy contamination and eliminates waterway use restrictions. **Capping** is the placement of material on top of contaminated sediment to isolate and bury the contamination. Capping requires long-term monitoring and maintenance, and may require controls or restrictions on uses of the waterway. **Monitored natural recovery (MNR)** relies on natural processes to decrease sediment concentrations to acceptable levels within a reasonable timeframe.

Feb 2024

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Contaminated Sediment Expert– Remediation and Redevelopment
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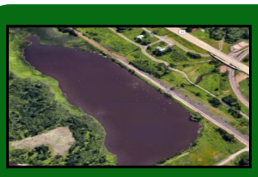
Learn more: https://dnr.wisconsin.gov/topic/GreatLakes/StLouis.html



Newton Creek/Hog Island Inlet — **Cleanup Completed 1997 to 2005**

- Contaminated sediment excavated from a 1.8 mile creek and 18-acre bay
- More than 44,000 cubic yards of petroleum and PAH contaminated sediment removed
- DNR surveys in 2016 found the Total PAH cleanup goal of 2.6 mg/kg is still being met

Howards Bay, Hughitt and Cummings Slips — **Cleanup Completed in 2021**

- Contaminants: lead, organotin, mercury, PAHs
- 118,660 cubic yards of dredging and 1.5 acres of enhanced natural recovery
- 84,133 cubic yards of dredged material beneficially reused to improve landfill cover
- 1 sunken fish tug removed
- Landfill cap seeded with native plants
- Landfill cap developed with a walking trail that connects Wisconsin Point to Barkers Island

Munger Landing — **Cleanup Completed 2022 to 2023**

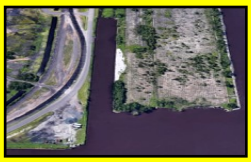
- Contaminants: PCBs, dioxin, and metals
- 107,112 cubic yards of dredging
- 70,235 cubic yards of clean sand cover placed
- Over 220 million gallons of carriage water treated

C. Reiss Coal Slip — **Cleanup Construction in 2024**

- Partnership between EPA, C. Reiss Co. and DNR with USACE administering construction
- Construction contract bid & award in 2024
- Remedial dredging of up to 27,000 cubic yards with upland disposal on-site
- Contaminants: PAHs and petroleum sheen

C Street Slip — **Remedial Design in 2024**

- Partnership between EPA, Superior Water Light & Power and DNR
- USGS research identified legacy industrial mercury in sediment and biota
- Adjusting remedial area to include mercury contaminated sediments
- Remedy to include dredging with off-site disposal
- Contaminants: PAHs and VOC impacts from manufactured gas plant, mercury from undetermined legacy sources



Oil Barge Dock Slip — **Preliminary Design in 2024**

- Identifying partners for remedy implementation
- Seek public and stakeholder input on recommended remedy
- Conduct investigations for preliminary design and source control evaluation
- Contaminants: historical coal and petroleum operations

General Mills Slip — **Preliminary Design in 2024**

- Identifying partners for remedy implementation
- Seek public and stakeholder input on recommended remedy
- Conduct investigations for preliminary design and source control evaluation
- Contaminants: metals, PAHs and organotin

Tower Avenue Slip — **Preliminary Design in 2024**

- Identifying partners for remedy implementation
- Seek public and stakeholder input on recommended remedy
- Conduct investigations for preliminary design and source control evaluation
- Contaminants: metals, PAHs and organotin

Outlines above denote stage of project in remediation process. See below for stages.

Sediment Assessment	Remedial Investigation (RI)	Feasibility Study (FS)	Remedy Selection	Remedial Design	Clean-up Construction	Operation Maintenance and Monitoring	Site Closure