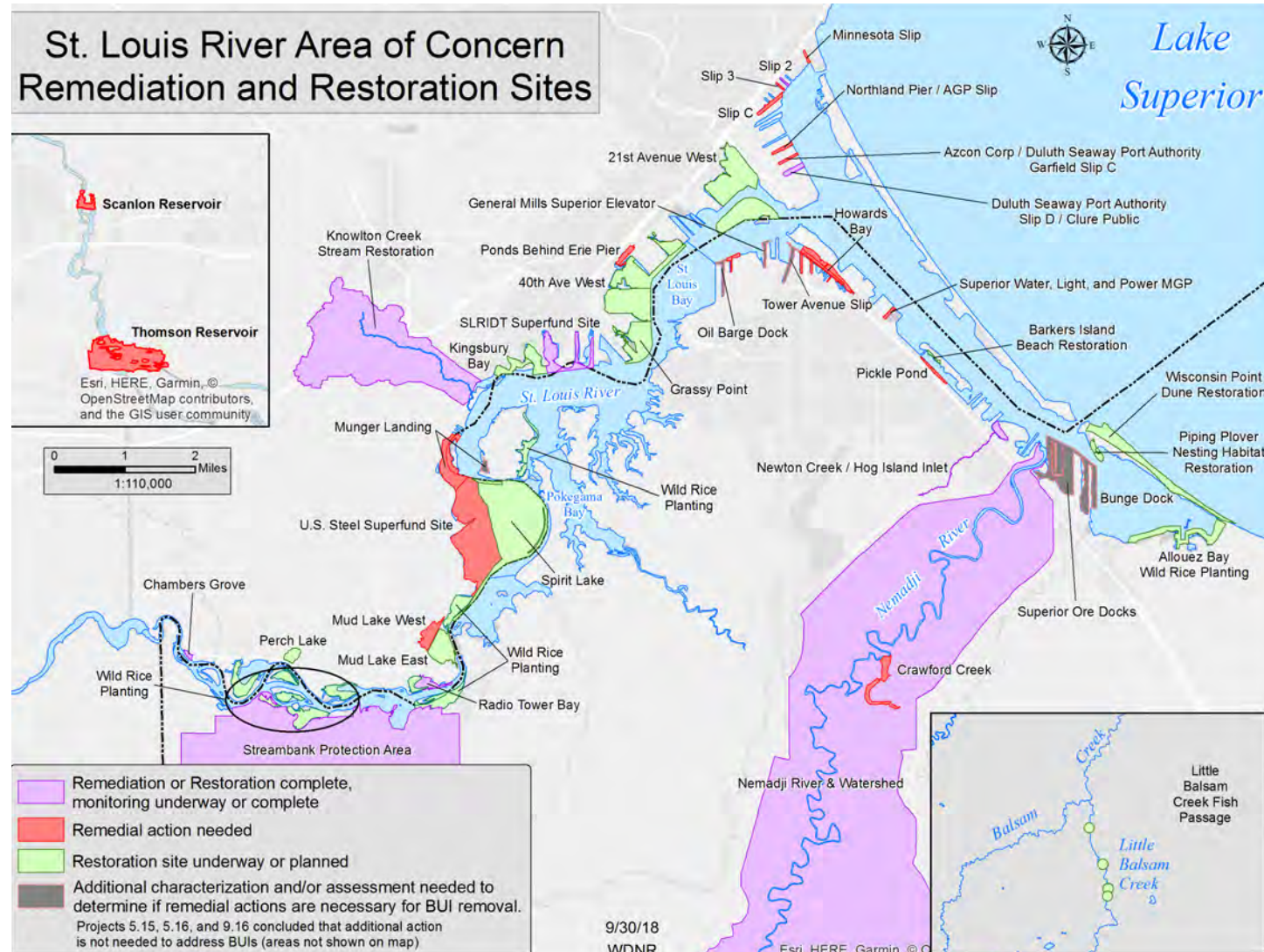


St. Louis River Area of Concern

Reaching our targets will lead us to our goal of delisting the AOC, which means the ecological benefits of the St. Louis River have been restored to an acceptable level. We will achieve this when public uses are no longer impaired by legacy contamination, and native plants and wildlife are sustainably protected. As toxic sediment is removed and habitat restoration continues, the river is becoming an ever more valuable resource for recreation and the local economy.



Summer Matteson



To learn more about St. Louis River AOC projects and progress visit <http://dnr.wi.gov>, search "[St. Louis River AOC](#)." For more details, refer to the Area of Concern Remedial Action Plan Updates.

St. Louis River —part of the largest fresh surface water resource in the world—the Great Lakes ecosystem



Wisconsin Department of Natural Resources, Office of Great Waters

Brochure developed by the University of Wisconsin-Extension Regional Natural Resources Program and the Wisconsin Department of Natural Resources, Office of Great Waters. Graphic design by Jeffrey J. Strobel, UW-Extension Environmental Resources Center.



St. Louis River Area of Concern

BENEFICIAL USE IMPAIRMENT RESTORATION REPORT

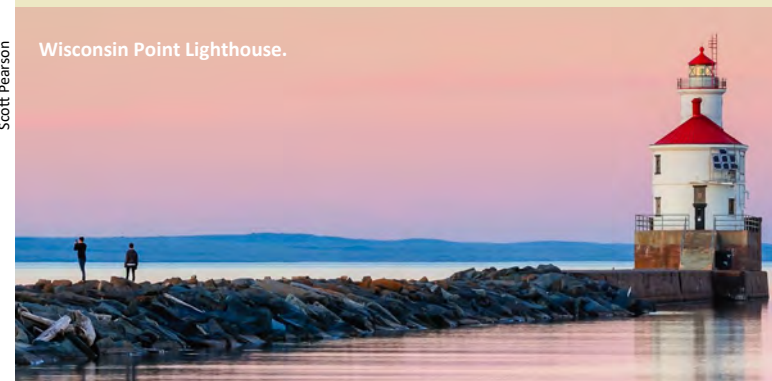
Fall 2018

The St. Louis River was designated an Area of Concern (AOC) in 1987. Improper management of municipal and industrial waste led to contaminated sediments, poor water quality, and impaired public benefits of the St. Louis River.



Scott Pearson

Wisconsin Point Lighthouse.



Jerry Bauer

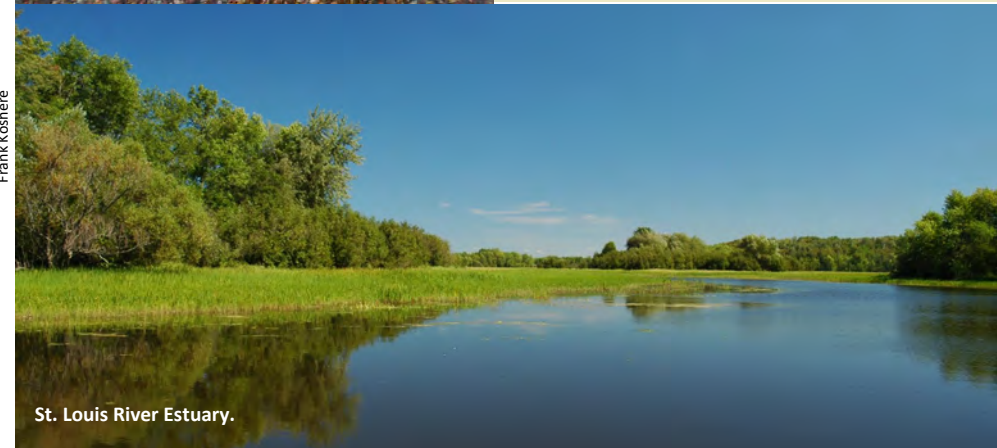
Agate Hunting.



The Wisconsin Department of Natural Resources, Minnesota Pollution Control Agency, Minnesota Department of Natural Resources, the Fond du Lac Band of Lake Superior Chippewa, and citizen groups identified nine Beneficial Use Impairments (BUIs) to target here for improving the river.

See the progress report inside ➡

Frank Koshere



St. Louis River Estuary.

Volunteer monitors for Piping Plovers.



Frank Koshere

St. Louis River Alliance

St. Louis River AOC – Restoration Status Update

Fall 2018

Tackling AOC problems, known as Beneficial Use Impairments in the Area of Concern program, requires several steps. We must understand the causes and define the extent of the impairments through monitoring, assessment, and data analysis. We then determine the necessary actions to address the problems, and implement them.

Actions to address AOC problems can be large and complex, requiring the coordinated efforts of many partners over multiple years.

After completing the necessary actions, we must verify through monitoring that we have achieved our goals for cleanup and restoration. Once the goals have been met and the problems have been addressed, the AOC designation can be removed.

This update shows the current status of the removal process for nine impairments in the St. Louis River AOC – *complete, underway, or not started* – and next steps. Dates in parentheses indicate the anticipated project completion.



Soil is analyzed during Clough Island survey (above left). An engineer samples sediment at Crawford Creek (middle). Biologists monitor Little Pokegama Bay (above right). Petroleum-contaminated sediment is removed from Newton Creek (lower right).

BUI Removal Phases:

- MA MONITOR & ASSESS:** define the problem, gather data and review literature, consult with experts.
- DP DEVELOP AOC PROJECTS:** engage stakeholders to develop the set of projects that are necessary for reaching AOC goals.
- IP IMPLEMENT PROJECTS:** take action to improve conditions within the AOC if monitoring data shows goals are not being met.
- VR VERIFY RESULTS:** after actions have been taken, monitor to determine if target has been met.
- RM FORMAL BUI REMOVAL:** targets have been met. BUI removal documentation is being prepared or reviewed, or has been submitted.

Status of Each Phase:

Not Started Underway Complete



Dredging activities for commerce or navigation are restricted

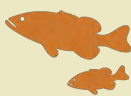


NEXT STEPS:

- Continue cleanup of riverbed and harbor sites identified as pollution hotspots (2023).
- Test additional areas for possible contamination and collaborate with partners to share results (ongoing).
- Update and enhance the sediment quality database (ongoing).

MA DP IP VR RM

Fish and wildlife populations are degraded



NEXT STEPS:

- Implement nesting habitat restoration to support piping plover recovery (2019).
- Monitor fish populations (ongoing).
- Conduct contaminant study of Lake Sturgeon to evaluate potential limitations to population recovery and determine next steps (2019).

MA DP IP VR RM

There are increased rates of fish tumors and deformities



NEXT STEPS:

- All management actions are complete; verification assessments are also complete and indicate that goals for addressing this impairment have been met.
- A formal BUI removal package was shared for public comments and submitted to the US EPA in November 2018.

MA DP IP VR RM

There are health concerns with eating fish and wildlife



NEXT STEPS:

- Continue studies to compare PCB and mercury levels in fish at AOC sites and similar unimpaired sites (2019).
- Identify and clean up contaminated sites containing mercury and PCBs (2023).
- Continue to monitor contaminants in fish following sediment cleanup (2025).

MA DP IP VR RM

Communities of sediment-dwelling organisms are degraded



NEXT STEPS:

- Continue to clean up polluted sediment sites.
- Restore 1,700 acres of aquatic habitat in the AOC.
- Monitor the recovery of sediment-dwelling organisms at aquatic habitat restoration sites as they are restored (2025).

MA DP IP VR RM

Water contact through beach use or other recreation is limited



NEXT STEPS:

- Complete Barkers Island beach restoration (2019).
- Cleanup contaminated sites with body contact restrictions: Munger Landing, Crawford Creek, US Steel (2020).
- Continue to document permit compliance and improvements to wastewater treatment (ongoing).

MA DP IP VR RM

Appearance of rivers & waterfront needs improvement



This Beneficial Use Impairment's removal phases are successfully completed and a formal BUI removal application has been accepted.

MA DP IP VR RM

There are excessive sediments and nutrients



NEXT STEPS:

- All management actions for this BUI are complete; verification assessments are also complete and indicate that goals for addressing this impairment have been met.
- Prepare a draft BUI removal package for review by the AOC Technical Team and partners (2019).

MA DP IP VR RM

Loss of fish and wildlife habitat



NEXT STEPS:

- Complete Wisconsin Point dune restoration projects (2018).
- Improve flows on Little Balsam Creek to allow fish and other aquatic life to pass through culverts (2019).
- Continue to restore 275 acres of wild rice (2024).
- Restore 1,700 acres of aquatic habitat in the AOC (2025).

MA DP IP VR RM

Monitor and Assess (MA)

Develop AOC Projects (DP)

Implement Projects (IP)

Verify Results (VR)

Formal BUI Removal (RM)



BUI REMOVED

← RETURN TO PROCESS STEPS IF TARGETS NOT REACHED