

Water Resources Monitoring and Assessment 2023 Update

Environmental Committee Informational Item



Overview of Monitoring and Assessment Work

2023 Drought Impacts

Tributary Stream Water Quality Trends

Lake Water Quality Summary

Questions

Metropolitan Council

Water Resources Section Overview



Rivers & Streams

Surface Water Planning

Lakes

Water Supply Planning

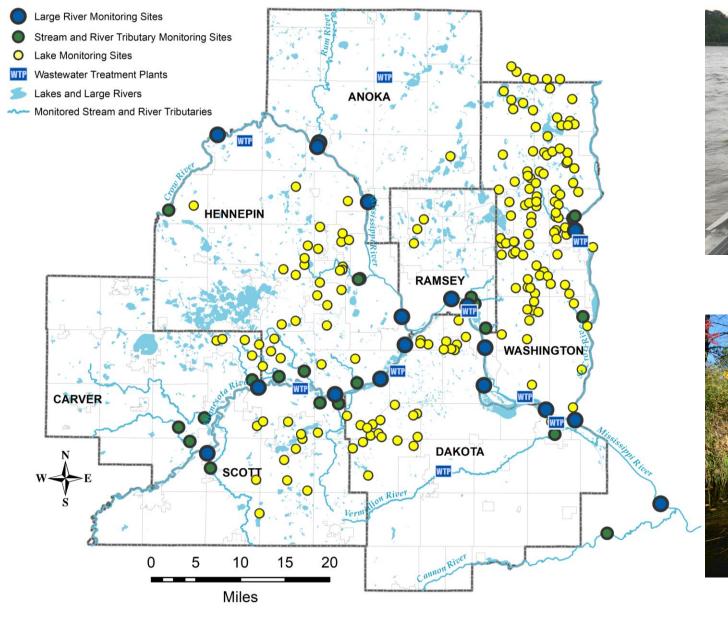
Data Management

Water Policy

Facility Monitoring

Outreach & Collaboration

River and Stream Monitoring



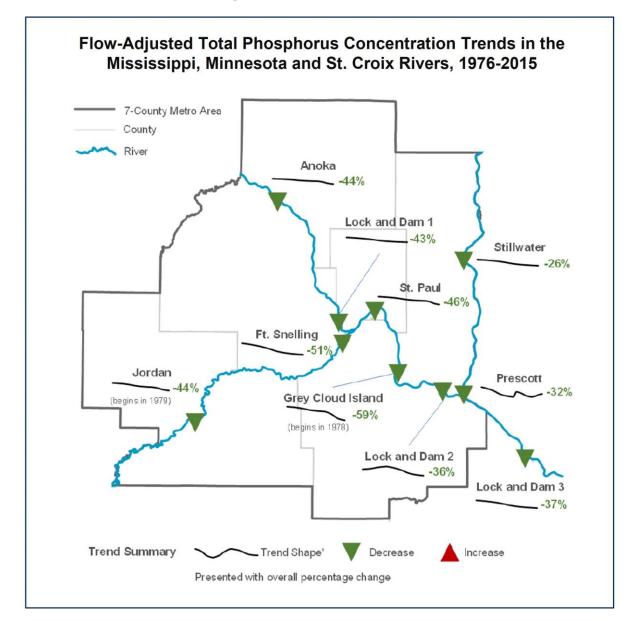




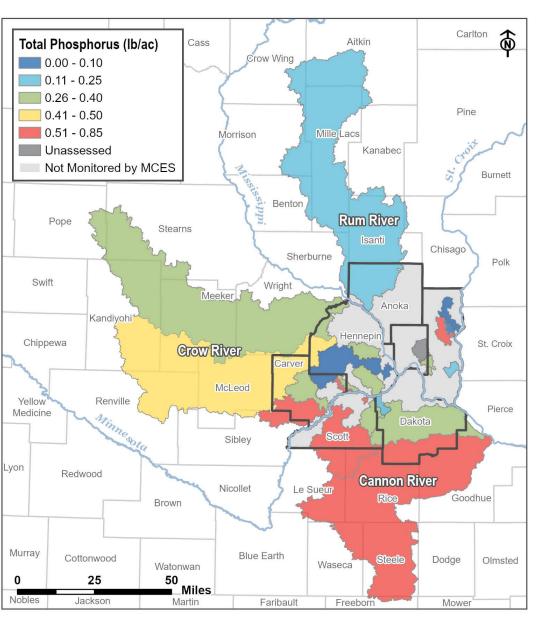
- Large River program had start in 1920's, more intensive since 1976
 - Floating sewage mats in our regional rivers
 - Only 3 fish found between Minneapolis and Hastings
- Tributary rivers and streams monitoring began in 1989 and expanded over the years with regional monitoring partnership agreements

River and Stream Assessments

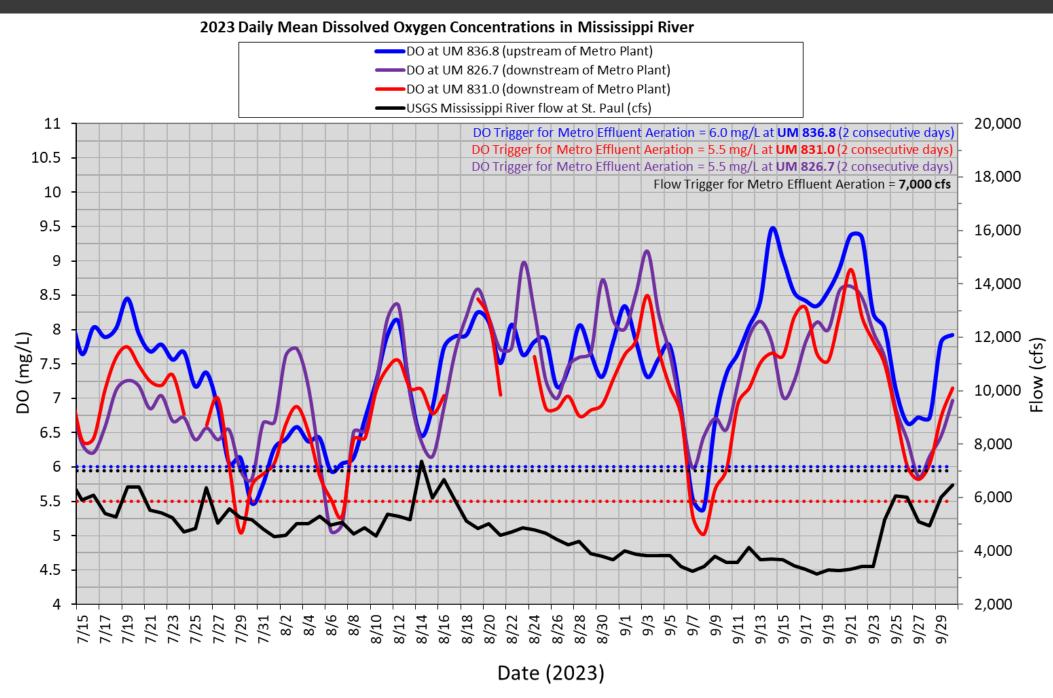
Long Term Trends



Pollutant Loading



2023 Drought Impacts

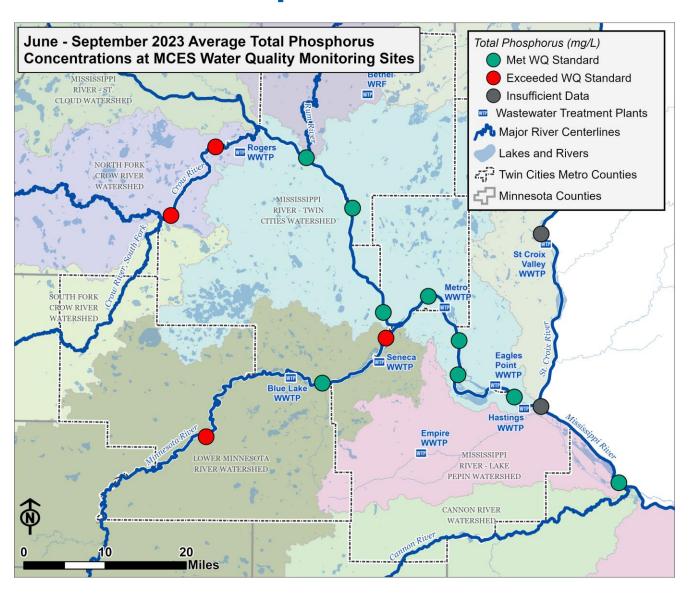




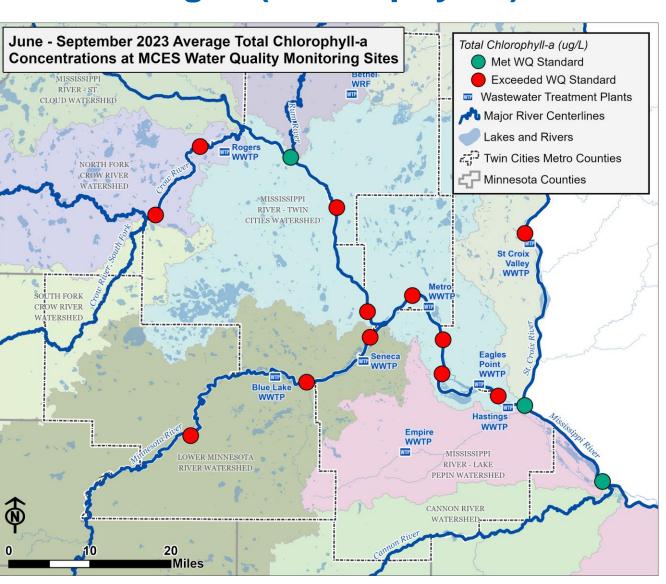


Mississippi River 2023 Drought Water Quality

Phosphorus

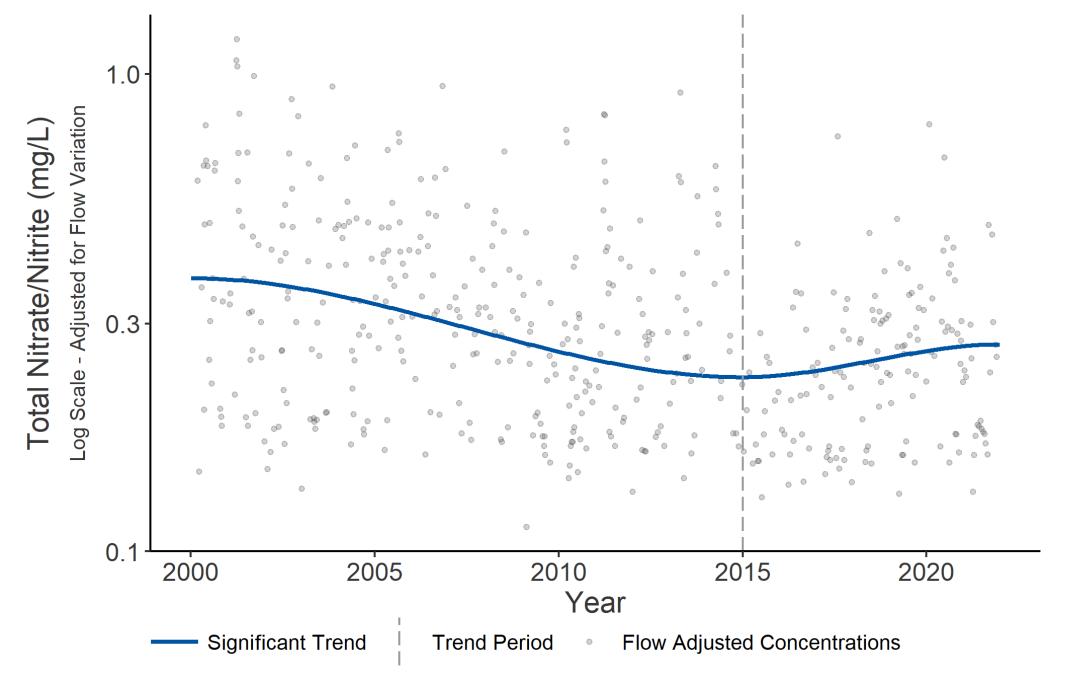


Algae (Chlorophyll-a)



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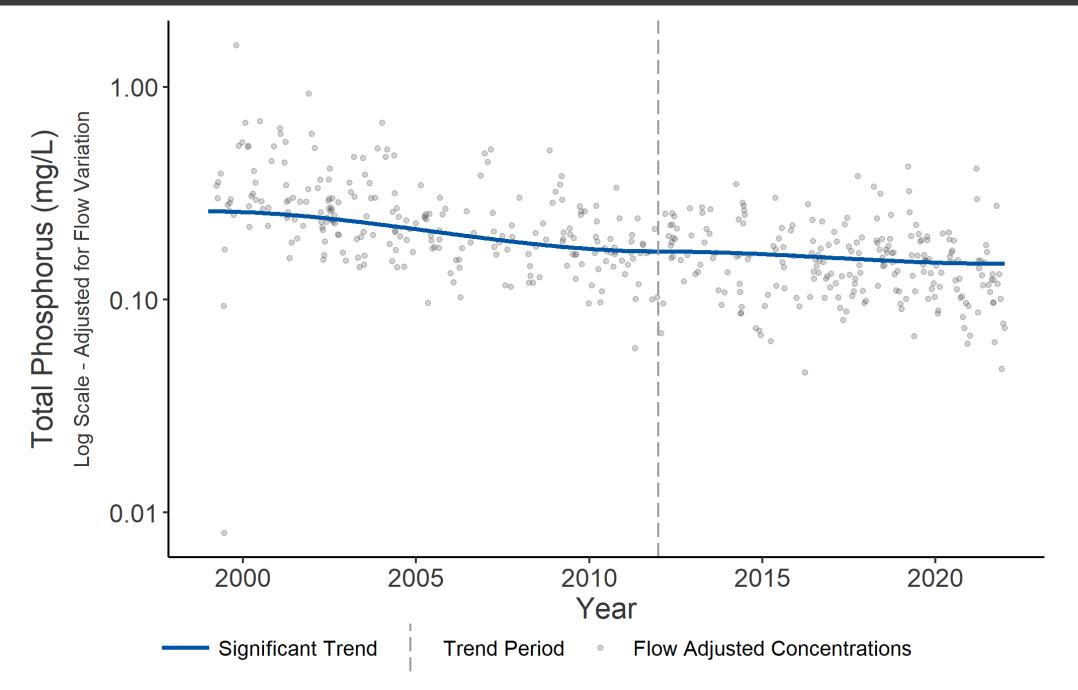
2023 Tributary Trend Updates



Bassett Creek Nitrogen

Smaller and heavily developed watershed more reactive to watershed and land use changes

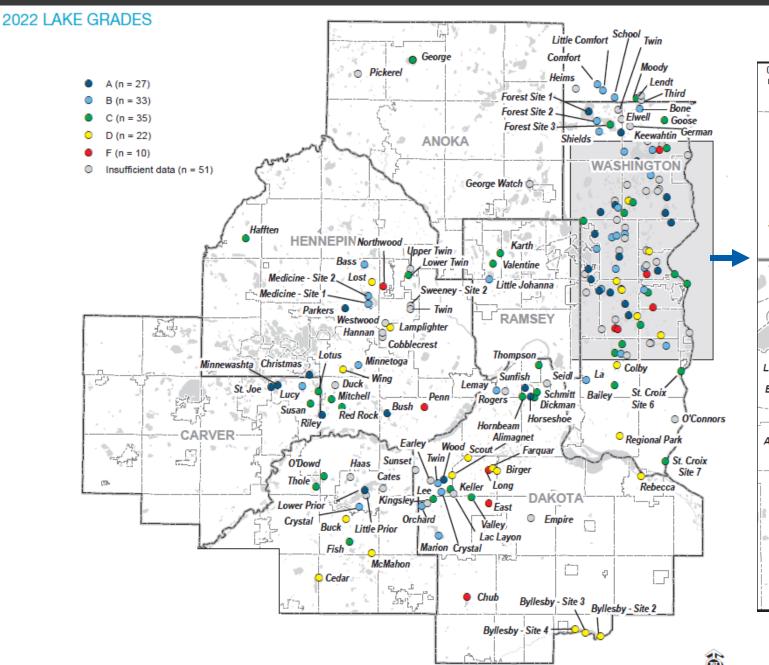
2023 Tributary Trend Updates Continued

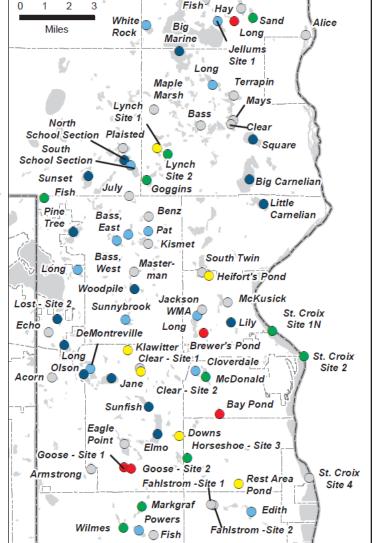


Crow River Phosphorus

Larger and less developed watershed shows gradual improvements over time

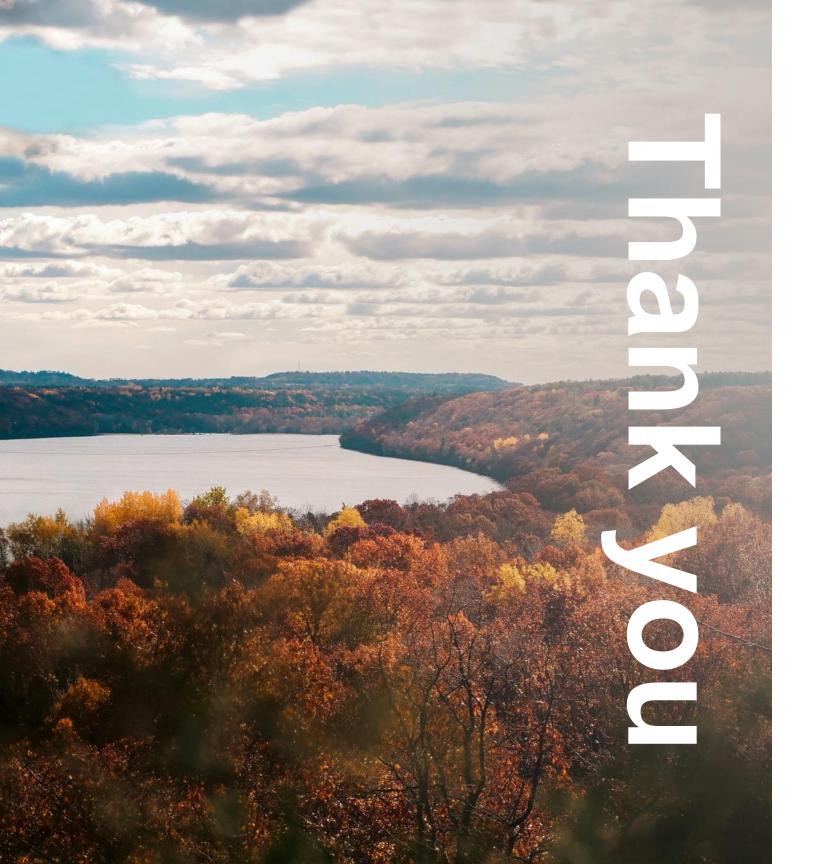
Lake Monitoring and Assessment











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