MINNEHAHA CREEK WATERSHED DISTRICT

QUALITY OF WATER QUALITY OF LIFE

2027 Watershed Management Plan
Technical Advisory Committee (TAC) Meeting #2

July 14, 2026, 10:00 AM – Noon | MCWD Office - 15320 Minnetonka Blvd, Minnetonka, Boardroom

Agenda and Discussion Prompts

10:00 Overview and Recap

- Overview of meeting purpose and agenda
  - Understand local water resource priorities, constraints, and management approaches to improve how we work together to achieve water resource goals
  - Introduce MCWD's new modeling tool and gather feedback on our proposed approach for assessing flood risk
- Recap of TAC and PAC Meeting 1 takeaways

10:10 Part 1: Water Resource Priorities

- Review of pre-meeting survey results and takeaways
- Small group discussion and share out:
  - For cities or counties with a waste load allocation(s), what is your organization's strategy for meeting your required load reduction(s)?
  - What water resource activities are supported through your organization's funding sources and which are dependent on grants or partner funds?
  - If you could change one thing about the way your organization approaches water resource management, what would it be?
  - How can MCWD best support or complement your organization's efforts to make progress toward its water resource goals?

11:10 Break

11:20 Part 2: Flood Modeling and Risk Assessment

- Overview of MCWD's Stormwise model
- Flood risk assessment purpose and approach (see Attachment 1)
- Large group discussion:
  - What value would a flood risk assessment provide to your community's flood risk management efforts?
  - What refinements could make MCWD's flood risk assessment more valuable?
  - What questions or concerns do you have about the model or the flood risk assessment?

11:55 Wrap-Up and Next Steps

- Preview upcoming meetings and input opportunities

Attachment 1: Flood Risk Assessment Overview

To improve understanding of flood risk across the watershed and support exploration of management strategies and opportunities for reducing risk, MCWD will be working with Moore Engineering to conduct a flood risk assessment. This work will include assessment of current flood risk as well as future risk based on expected changes in precipitation and land use. At the July 14, 2026, TAC meeting, MCWD will seek feedback from the TAC on key aspects of the assessment, as summarized below.

<u>Precipitation simulations:</u>

- Storms events:
  - Current conditions:
    - Atlas 14: 1-, 10-, and 100-yr 24-hr events
  - Future conditions:
    - Atlas 15: 1-, 10-, 100-yr 24-hr events (once available)
    - 100-year 24-hr event of 8.5 inches (15% increase from Atlas 14)*
- Continuous simulations using historic rainfall data:
  - Wet periods: Summer 2014 and Summer 2019
  - Dry period: Summer 2022

<u>Land use conditions:</u>

- Data sources:
  - Current conditions:
    - Developed space: Combination of Met Council 2020 Generalized Land Use
    - Open Space: Annual National Land Cover Data from ESRI Living Atlas
  - Future conditions:
    - Met Council 2040 Future Land Use
- Approach:
  - Use change in land use classification to estimate change in impervious surface
  - Model change in runoff volume and rate due to change in impervious surface, assuming application of current regulations and known infiltration restrictions (e.g. Type D soils)

<u>Risks to be assessed:</u>

- Built environment:
  - Structure flooding
  - Road flooding
  - Groundwater fluctuation (potential risk to buildings and infrastructure)
- Natural environment:
  - Stream velocity
  - Waterbody bounce
  - Creek baseflow

*The proposed 8.5-inch event is based on review of available data and guidance from MnDOT, the University of MN, and the Strategic Environmental Research and Development Program/North Carolina Institute for Climate Studies (SERDP/NCICS) Precipitation Frequency Tool