

## REGULAR MEETING MINUTES

November 9, 2023

(Action by the SCWMC appears in blue, by the WMWMC in green and shared information in black.  
\*indicates items included in the meeting packet.)

I. A joint meeting of the Shingle Creek Watershed Management Commission and the West Mississippi Watershed Management Commission was called to order by Shingle Creek Chairman Andy Polzin at 12:46 p.m. on Thursday, November 9, 2023, at Plymouth Community Center, 14800 34th Avenue North, Plymouth, MN.

Present for Shingle Creek: David Mulla, Brooklyn Center; Randy Bergstrom, Crystal; Karen Jaeger, Maple Grove; Ray Schoch, Minneapolis; Bob Grant, New Hope; John Roach, Osseo; Andy Polzin, Plymouth; and Wendy Scherer, Robbinsdale. Not represented: Brooklyn Park.

Present for West Mississippi: David Mulla, Brooklyn Center; Melissa Collins, Brooklyn Park; Karen Jaeger, Maple Grove; and John Roach, Osseo. Not represented: Champlin.

Also present were: James Soltis, Brooklyn Center; Mitch Robinson, Brooklyn Park; Heather Nelson, Champlin; Mark Ray and Ben Perkey, Crystal; Derek Asche, Maple Grove; Nick Macklem, New Hope; James Kelly, Osseo; Amy Riegel, Plymouth; Richard McCoy, Robbinsdale; Todd Shoemaker and Katie Kemmitt, Stantec; Troy Gilchrist, Kennedy & Graven; and Judie Anderson, JASS.

## II. AGENDAS AND MINUTES.

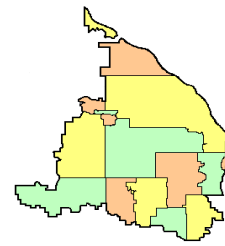
Motion by Schoch, second by Grant to approve the **Shingle Creek agenda**. \* Motion carried unanimously.

Motion by Roach, second by Jaeger to approve the **West Mississippi agenda**. \* Motion carried unanimously.

Motion by Schoch, second by Jaeger to approve the **minutes\* of the October 12, 2023, regular meeting**. Motion carried unanimously.

Motion by Collins, Second by Roach to approve the **minutes\* of the October 12, 2023, regular meeting** with the following amendment to Item VI.B:

Further, during their review, the Commissioners noted the site's proximity to the Elm Creek Park Reserve and encourage City staff to work with the applicant to ensure that Minnesota's Endangered and Threatened Species law is followed. ~~other natural resources/endangered species approvals/protections (i.e., northern long eared bat, Blandings turtle, rusty patch bumblebee) are in place.~~



*Motion carried unanimously.*

### III. FINANCES AND REPORTS.

**A.** Motion by Schoch, second by Jaeger to approve the Shingle Creek **November Treasurer's Report\* and claims** totaling \$53,960.59. Voting aye: Mulla, Bergstrom, Jaeger, Schoch, Grant, Roach, Polzin, and Scherer; voting nay: none; absent: Brooklyn Park.

**B.** Motion by Roach, second by Collins to approve the **West Mississippi November Treasurer's Report\* and claims** totaling \$14,664.72. Voting aye: Mulla, Collins, Jaeger, and Roach; voting nay: none; absent: Champlin.

### IV. OPEN FORUM.

### V. OLD BUSINESS.

### VI. NEW BUSINESS.

### VII. WATER QUALITY.

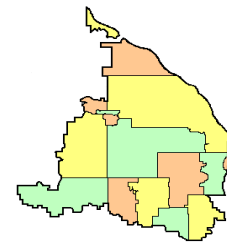
**A. Eagle Lake Subwatershed Assessment (SWA).** The goal of the Eagle Lake Subwatershed Assessment is to evaluate stormwater management and in-lake management options to address excess phosphorus impacting Eagle Lake's water quality. In this project Staff seeks to:

1. Identify and prioritize potential stormwater management practices to reduce phosphorus and sediment loading in the Eagle Lake subwatershed, and
2. Evaluate sediment phosphorus and aquatic vegetation within Eagle and Pike Lakes to determine appropriate in-lake treatment practices to reduce internal loading.

Based on the 2019 5-year TMDL update, efforts to restore water quality in Eagle Lake will require improvements in loading from the watershed, from upstream lakes, and from in-lake sediments. Staff's October 28, 2023, memo\* summarizes watershed load reductions to Eagle Lake. Internal phosphorus loads and potential internal load reductions for Eagle Lake and Pike Lake were discussed at the Commission's August meeting.

The Eagle Lake TMDL specifies that phosphorus loads need to be reduced by 202 lbs/yr total from all sources to Eagle Lake. The internal loading sediment analysis for this project estimated a 164 lbs/yr reduction with aluminum sulfate (alum) treatment in Eagle Lake, leaving an additional 38 lbs/yr reduction from external sources in order to meet the TMDL goals and attain water quality standards. The TMDL assumes that upstream lakes already meet water quality goals. Therefore, this would likely require implementation of at least two watershed projects to meet the needed reductions.

Staff evaluated existing total phosphorus loading rates to Eagle Lake and identified 30 locations for potential projects. These initial projects were reduced to seven sites for prioritization based on location on public land, suitable soils for infiltration, and feasibility given local conditions and infrastructure. The projects include infiltration, stormwater collection and reuse for irrigation, iron-enhanced sand amendments to existing basins, and manufactured treatment devices. City staff reviewed the options and agreed with the recommended project selection.



The seven potential projects were evaluated and prioritized through a ranking system using estimated TP reduction, initial project cost, and lifecycle cost. The two top ranked projects are an infiltration basin in Eagle Woods Park (ID#1) and an iron-enhanced sand filter bench retrofit and pond expansion in an existing stormwater basin at Hemlock Lane and East Fish Lake Road (ID#5)

	<u>Eagle Woods Park</u>	<u>Hemlock Lane</u>
TP reduction	21.8 lbs/yr	9.3 lbs/yr
Construction cost	\$470,000	\$218,000
30-year lifecycle cost	\$498,000	\$255,000
Lifecycle	\$761 per lb TP/yr	\$886 per lb TP/yr

Motion by Schoch, second by Jaeger directing Staff to move forward with 30% design for the infiltration facility in Eagle Woods Park contingent on positive public input. Lacking positive input, Staff are directed to proceed with the Hemlock Lane project. *Motion carried unanimously.*

**B. Gaulke Pond Subwatershed Assessment (SWA).** The Commission requested Stantec to evaluate opportunities to reduce stormwater runoff volume to Gaulke Pond. At the August meeting, the final eleven best management practices (BMPs) were presented. Opportunity A2, the Colorado Avenue Infiltration Trench, was selected by the Commission as the preferred alternative and Stantec was authorized to proceed with development of 30% design plans. The plans attached to Staff’s November 2, 2023, memo\* show the potential BMP layout within the Colorado Avenue right-of-way and associated details. The design provided is a three-sided 6- by 6-foot concrete box culvert, however, a bid alternative using corrugated polypropylene (PP) pipe chambers, similar to the ADS StormTech chambers installed on Kentucky Avenue is also included. If PP chambers are acceptable to the City of Crystal public works staff, this may offer an opportunity to reduce overall implementation costs.

Additionally, the design to date has relied on Minnesota Department of Natural Resources LiDAR topography, City GIS data, and generalized soils information. If the Commission chooses to proceed with 60% design, while out of scope, Staff recommend collecting detailed topography and utility information, as well as completing a more thorough geotechnical evaluation of the underlying soils to confirm stability of the nearby city reservoir.

Motion by Schoch, second by Grant to accept the 30% design plans and direct Staff to proceed with the feasibility study. *Motion carried unanimously.*

**VIII. GRANT OPPORTUNITIES.**

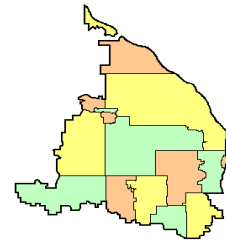
**IX. EDUCATION AND PUBLIC OUTREACH.**

The **West Metro Water Alliance (WMWA)** will meet via Zoom at 8:30 a.m., November 14, 2023.

**X. COMMUNICATIONS.**

**A. November Communications Log.\*** No items required action.

**B. November Staff Report.\***



**1. Highways 252/94 EIS Review.** The Federal Highway Administration (FHWA) and Minnesota Department of Transportation (MnDOT) released the Final Scoping Decision Document (SDD) to Participating Agencies on October 2, 2023. MnDOT hosted virtual Cooperating and Participating Agency Meeting #10 on October 12 and Policy Advisory Committee Meeting #11 on October 25. MnDOT received over 500 comments during the 60-day public review period of the Draft SDD, responded to all public and agency comments received, and grouped the comments into nine overarching themes: Alternatives, Air Quality, Environmental Justice, Equity and Health Assessment Recommendations, Property Impacts, Purpose and Need, Traffic Noise, Safety, and Transit. Stantec attended both meetings and will reconvene the 252/94 EIS Review Subgroup within the next two weeks to discuss the SDD document, MnDOT responses, and next steps.

**2. Crystal Lake Management Plan.** Staff are working with Minnesota Pollution Control Agency (MPCA) to extend the 319 Grant through the early part of 2024 to allow the Commission to spend the rest of the grant match requirement (\$32,900). Sediment cores were collected in early October to assess alum treatment success. Preliminary results show phosphorus release rates have been significantly reduced.

**3. Meadow Lake Drawdown.** Staff have extended the Meadow Lake Clean Water Fund Projects and Practices grant through the end of 2024, one year longer than originally planned. The grant extension will allow the Commission to spend more grant funds on monitoring and adaptive management. Staff collected post-alum treatment sediment cores on October 4 to evaluate the impact of the alum treatment on sediment phosphorus release rate. Preliminary results show sediment phosphorus release rates have been significantly reduced. Staff have also been collecting water quality data in September and October to supplement CAMP volunteer water quality monitoring.

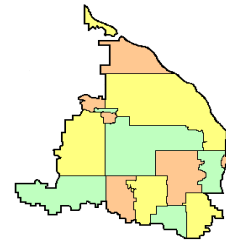
**4. Eagle Lake Subwatershed Assessment.** See item VII.A., above.

**5. Gaulke Pond Subwatershed Assessment.** See item VII.B., above.

**6. Shingle Creek Brookdale Park Remeander.** Stantec has modified the concept plan based on community input and City and stakeholder comments. The revised concept will be reviewed by the City of Brooklyn Park and discussed for further direction. Stantec and the City anticipate presenting this modified concept alternative to the community prior to progressing the project's preliminary design plans. The date of the next public meeting will be determined in November.

**7. Shingle Creek Trail Bank Stabilization and Fish Access Improvements.** Stantec has modified the concept plan based on community input and City and stakeholder comments. The revised concept will be reviewed by City of Brooklyn Park and discussed for further direction. Stantec and the City anticipate presenting this modified concept alternative to the community prior to progressing the project's preliminary design plans. The date of the next public meeting will be determined in November.

**8. Mississippi Riverbank Stabilization Feasibility Study.** City of Brooklyn Park and Hennepin County staff are contacting residents to gauge interest in additional study. From those that are interested, Staff will select 5-6 properties to visit and evaluate erosion and potential solutions. Selected properties will be surveyed this fall.



9. An addendum to the Staff Report includes an update of the financial status of the grant and cost-share projects currently in progress.

C. **Hennepin County Green Notes.\*** Describes other programs being sponsored or promoted by the County.

XI. **OTHER BUSINESS.**

A. This is **Mark Ray's** last Shingle Creek meeting. Effective December 1, 2023, he will be employed by the City of Burnsville.

B. There being no further business before the Commissions, the joint meeting was adjourned at 1:43 p.m.

Respectfully submitted,

A handwritten signature in black ink that reads "Judie A. Anderson".

Judie A. Anderson  
Recording Secretary  
JAA:tim

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