

REGULAR MEETING MINUTES

November 14, 2024

(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 West Mississippi Chairman Gerry Butcher at 12:46 p.m. on Thursday, November 14, 2024, at Plymouth Community Center, 14800 34th Avenue North, Plymouth, MN.

Present for Shingle Creek: David Mulla, Brooklyn Center; Burt Orred, Jr., Crystal; Karen Jaeger, Maple Grove; Ray Schoch, Minneapolis; Bill Wills, New Hope; James Kelly, Osseo; Wayne Sicora, Robbinsdale; Todd Shoemaker and Grace Neumiller, Stantec; Troy Gilchrist, Town Law Center; and Judie Anderson, JASS. Not represented: Brooklyn Park and Plymouth.

Present for West Mississippi: David Mulla, Brooklyn Center; Gerry Butcher, Champlin; Karen Jaeger, Maple Grove; James Kelly, Osseo; Todd Shoemaker and Grace Neumiller, Stantec; Troy Gilchrist, Town Law Center; and Judie Anderson, JASS. Not represented: Brooklyn Park.

Also present were: Touyia Lee, Brooklyn Center; Mitch Robinson, Brooklyn Park; Heather Nelson, Champlin; Randy Bergstrom and Jesse Struve, Crystal; Derek Ashe, Maple Grove; Nico Cantarero, Minneapolis; Mike Sorensen, Minneapolis Park and Recreation Board; Bob Grant and Nick Macklem, New Hope; Amy Riegel, Plymouth; Wendy Scherer, Richard McCoy, and Jenna Wolf, Robbinsdale.

Also present were: Robbie Latta, Civil Site Group, for Project SC2024-06; and Jean Myers and Lynette Fogerberg, Crystal, for Open Forum.

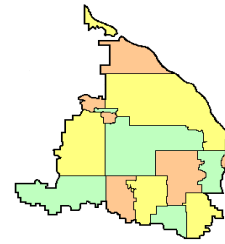
II. AGENDAS AND MINUTES.

Motion by Orred, second by Schoch to approve the **Shingle Creek agenda*** with the removal of item 5.a. CIP Progression. *Motion carried unanimously.*

Motion by Jaeger, second by Mulla to approve the **West Mississippi agenda*** with the removal of item 5.a. CIP Progression. *Motion carried unanimously.*

Motion by Schoch, second by Orred to approve the **minutes of the October 10, 2024, regular meeting.*** *Motion carried unanimously.*

Motion by Jaeger, second by Mulla to approve the **minutes of the October 10, 2024, regular meeting.*** *Motion carried unanimously.*



III. FINANCES AND REPORTS.

A. Motion by Schoch, second by Orred to approve the Shingle Creek **November Treasurer's Report* and claims** totaling \$44,855.00. Voting aye: Mulla, Orred, Jaeger, Schoch, Wills, Kelly, and Sicora; voting nay: none; absent – Brooklyn Park and Plymouth.

B. Motion by Jaeger, second by Mulla to approve the West Mississippi **November Treasurer's Report* and claims** totaling \$10,481.10. Voting aye: Mulla, Butcher, Jaeger, and Kelly; voting nay: none; absent – Brooklyn Park.

IV. OPEN FORUM.

Ms. Myers and Ms. Fogerberg were present to inform the Commission of a flooding or erosion issue at the Twin Lake North Apartments in Crystal (4710 58th Ave N, Crystal, MN 55429). They indicated that their apartment association had hired an engineer to study the problem. Butcher directed them to have their engineer contact the Commission's engineer and coordinate an on-site visit to observe the issue(s).

V. OLD BUSINESS.

VI. PROJECT REVIEWS.

A. SC2024-04 CSAH 10 Box Culvert Replacement, Brooklyn Center and Crystal.* Replacement of two 6x10 box culverts at Twin Lake Creek on a 0.55-acre site located on CSAH 10, 600 feet southwest of the intersection of Major Avenue North and CSAH 10, between the 639W Wetland and Upper Twin Lake. Following development, the site will be 53 percent impervious with 0.30 acres of impervious surface, a reduction of 0.05 acres. A complete project application was received on October 25, 2024.

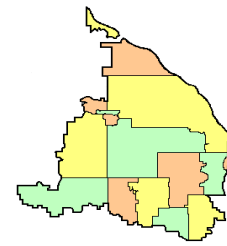
This linear project will replace 0.30 acres of impervious area, which is below the Commission's threshold for stormwater management and, therefore, is not required to meet Commission rate, volume, and water quality requirements.

The erosion control plan includes rock construction entrances, native seed, perimeter silt fence/biolog, silt fence surrounding sensitive areas, inlet protection, rip rap at inlets, slope checks. The erosion control plan meets Commission requirements.

The National Wetlands Inventory identifies two probable wetlands on the north and south ends of the project site. The site is on the boundary of the cities of Crystal and Brooklyn Center. The LGU for this project is the Shingle Creek Commission for both cities. The applicant proposes 1,999 SF of wetland impact, which includes 1,299 SF of Type 3 wetland on the north side of the culverts and 700 SF of Type 3 wetland on the south side of the culverts.

The applicant proposes to pursue BWSR Local Government Road Wetland Replacement Program (LGRWRP) credits for any wetland impacts following the State Statute changes made in August 2024. The required TEP meeting will likely occur after this meeting due to scheduling conflicts. The project would meet Commission requirements if wetland impacts were replaced per the LGRWRP.

Twin Creek is a DNR Public Water. The proposed project is not anticipated to negatively -



impact Twin Creek or its Aquatic Consumption/Aquatic Recreation status. A Public Water Permit is not required because the upstream drainage area is less than 5 square miles. The applicant meets Commission Public Waters requirements.

There is FEMA 100-year zone AE floodplain on the downstream portion of this culvert. Model results show the project maintains the existing flood elevation. The project meets Commission floodplain requirements.

The site is not located in a Drinking Water Source Management Area (DWSMA). The applicant meets Commission drinking water protection requirements.

Hennepin County has provided public notice by mailing letters to properties adjacent to the project area, establishing a project website, and issuing a news release to CCX Media in 2022. These efforts meet Commission public notice requirements.

No BMPs are proposed. Hennepin County is the owner of the culverts. A draft Operations & Maintenance (O&M) agreement is not required.

Motion by Schoch, second by Orred to advise the cities of Brooklyn Center and Crystal that project SC2024-04 is approved, conditioned on submittal of approval of BWSR Local Government Road Wetland Replacement Program credits for any wetland impacts. *Motion carried unanimously.*

B. SC 2024-05 Northwest Greenway Trail Phase 6, Plymouth.* Updated. Construction of phase six of the Greenway trail system on 0.95 acres located south of 59th Avenue North and west of the intersection of Juneau Lane and 57th Avenue North. A complete project application was received November 11, 2024.

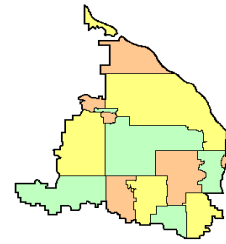
The proposed linear project is the construction of a mix of bituminous, concrete, and timber boardwalk trail. Following development, the site will be 51 percent impervious with 0.48 acres of impervious surface, an increase of 0.48 acres. This is below the Commission's threshold for stormwater management and, therefore, is not required to meet Commission rate, volume, and water quality requirements.

The erosion control plan includes perimeter silt fence/biolog, silt fence surrounding sensitive areas and construction entrances. The erosion control plan meets Commission requirements.

The National Wetlands Inventory identifies two probable wetlands within the project boundary. The City of Plymouth is LGU for WCA administration. Wetland buffers a minimum of 20 feet in width and averaging 30 feet in width are provided to the extent practicable. The applicant proposes utilizing Alternative Buffer Strips along the portion of the trail that connects the existing trail and at the boardwalk abutments. The applicant's use of Alternative Buffer Strips aligns with the spirit and intent of the rule, meeting the Commission's wetland requirements.

There are no Public Waters on this site. The applicant meets Commission Public Waters requirements.

There is a Zone A FEMA 100-year floodplain within the project boundary. The project's



impacts on hydraulics within the floodplain are negligible, maintaining existing flood elevations. The Shingle Creek PCSWMM model results show that the 100-year, 24-hour and 100-year, 10-day events reach elevations of 937.86 feet and 938.10 feet, respectively. The project's lowest fill elevation is 938.40 feet; therefore, no compensatory storage is required. The applicant meets the Commission's floodplain requirements.

The site is not located in a Drinking Water Source Management Area (DWSMA). The applicant meets Commission drinking water protection requirements.

A public hearing on the project will be conducted by the Plymouth City Council, which will satisfy Commission public notice requirements. A meeting date has not been scheduled.

No BMPs are proposed. The City of Plymouth is the owner of the trail. A draft Operations & Maintenance (O&M) agreement is not required.

Motion by Schoch, second by Orred to advise the City of Plymouth that approval of Project 2024-05 is granted with no conditions. *Motion carried unanimously.*

C. 2024-06 Prairie Seeds Academy, Brooklyn Park. * Updated. Construction of a building addition and associated parking on 12.1 acres located at 6200 West Broadway. Following development, the site will be 44 percent impervious with 5.26 acres of impervious surface, an increase of 1.58 acres. A complete project application was received on November 1, 2024.

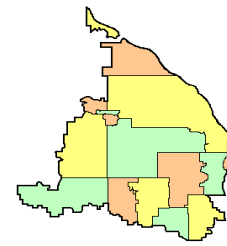
The project disturbs 5.05 acres, which is less than 50% of the total site area. Therefore, volume, rate and water quality standards must be met for the disturbed area, not the entire site. Commission rules require the disturbed area to infiltrate 1.1 inches of runoff from new impervious and reconstructed impervious area within 48 hours. The new and reconstructed impervious area on this site is 2.79 acres, requiring infiltration of 11,138 cubic feet within 48 hours.

The project replaces two existing infiltration basins. The existing, undisturbed and previously treated impervious area is 0.61 acres, requiring infiltration of 2,437 CF within 48 hours.

The applicant proposes a filtration basin on the west side of the site due to contaminated soils. Watershed rules assign 55% credit for sand media BMPs. The applicant meets Commission volume control requirements

To comply with the Commission's water quality treatment requirement, the site must provide treatment so there is no net increase in TP or TSS from pre- to post-development land cover. Meeting the infiltration requirement is considered sufficient to provide a similar level of treatment. The applicant meets Commission water quality treatment requirements.

Commission rules require that site runoff is limited to predevelopment rates for the 2-, 10-, and 100-year, 24-hour, and 100-year, 10-day critical storm event. Runoff from the site is managed through three Best Management Practices (BMPs): an underground infiltration chamber for the new eastern parking lot, a reconstructed aboveground infiltration system for the new building addition, and a filtration basin for the western parking lot. The applicant meets the Commission's rate control requirements.



The erosion control plan includes a rock construction entrance, perimeter silt fence/biolog, silt fence surrounding detention ponds/infiltration basins, inlet protection, rip rap at inlets, slope checks, and native seed specified on the pond slopes. The erosion control plan meets Commission requirements.

The National Wetlands Inventory does not identify any wetlands on site. The applicant meets Commission wetland requirements. There are no Public Waters on this site. The applicant meets Commission Public Waters requirements.

There is no FEMA-regulated floodplain on this site. The low floor elevations of the buildings are at least two feet higher than the high-water elevation of the detention ponds/infiltration basins according to Atlas 14 precipitation. The applicant meets Commission floodplain requirements.

The site is not located in a Drinking Water Source Management Area (DWSMA); however, groundwater contamination from an underground fuel tank was discovered during review of the acquired properties on the west side of the site. The applicant proposes filtration in this area. The applicant meets Commission drinking water protection requirements.

A public hearing for the project was held by the City Planning Commission on October 9, 2024, meeting Commission public notice requirements.

A draft Operations & Maintenance (O&M) agreement between the applicant and the City of Brooklyn Park was not provided.

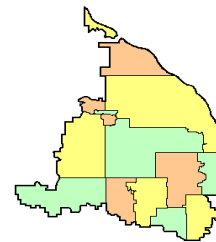
Motion by Schoch, second by Orred to advise the City of Brooklyn Park that Project 2024-06 is approved with two conditions:

1. Provide a complete O&M agreement between the applicant and the City of Brooklyn Park for all stormwater facilities on the project site.
2. Demonstrate by double ring infiltrometer or witness test that all basins achieve the design infiltration rate after construction.

VII. WATER QUALITY.

A. Colorado Avenue Feasibility Study.*The Shingle Creek Commission completed the Gaulke Pond Subwatershed Assessment (SWA) in 2023. The SWA identified the Colorado Avenue infiltration trench as the highest-ranked practice to reduce flooding and improve water quality within the Gaulke Pond Watershed. The study also recommended the Commission study the trench location and design in more detail before final design because of its potential proximity to the adjacent drinking water reservoir. The Commission subsequently applied for and received a grant from the MPCA to study the trench feasibility.

The report,* summarizes the feasibility study process, methodology, results, and recommendations. The scope of work focused on evaluating the proximity of the proposed infiltration trench to the underground drinking water reservoir and the slope stability during construction of the infiltration trench. The analysis concluded that it is possible to construct the proposed infiltration trench adjacent to the drinking water reservoir, but construction would require a special shoring



system to maintain slope stability. The selected contractor would be required to maintain a “competent person” on site at all times during construction. Even with the use of a shoring system, maintaining a safe slope will be difficult and a slope failure may occur behind the property line if proper slope maintenance is disregarded, so there could be some risk to the reservoir if constructed at that location.

Staff reviewed the geotechnical analysis with City staff, and all agreed to shift the trench location one block north to avoid risk and reduce construction costs. Modeling for this feasibility study estimates a potential load reduction of total phosphorus (TP) of approximately 20.2 lb/yr and total suspended solids loading by approximately 3,674 lb/yr. The estimated cost to construct per pound of removal is about \$1,429, well within the range of \$1,000-3,000 per pound acceptable for urban BMPs.

Earlier today, the Technical Advisory Committee recommended acceptance of the feasibility report.

Motion by Schoch, second by Orred to accept the feasibility report and to continue discussions with the City. *Motion carried unanimously.* This project will likely be added to the 2026 CIP.

B. Shingle Creek Crossing Daylighting Study.* Last month, the Shingle Creek Commission authorized Stantec to study potential daylighting of Shingle Creek within the Shingle Creek Crossing development (formerly Brookdale) in Brooklyn Center. Daylighting would restore some natural form and function to the creek and make it a feature of a new park/open space area. This daylighting would help address the creek’s biotic and water quality impairments by adding back natural stream structure, and in-stream and near-stream habitat and vegetation.

The report* summarizes the study process, methodology, and results. The scope of work focused on developing stream layout options that meet Commission and agency permitting criteria that will adequately convey design flows and improve habitat and water quality to the maximum extent practicable.

Included in the meeting packet is a rendering of potential alignments* of the stream. City Staff’s initial review of the alignments indicated their preference for Alignment D and those east of it. Members queried whether the area of the far right (east) alignment could be repurposed. The City of Brooklyn Center is also leading a broader feasibility study for the area.

Earlier today, the Technical Advisory Committee recommended acceptance of the feasibility report.

Motion by Mulla, second by Schoch to approve the report. *Motion carried unanimously.*

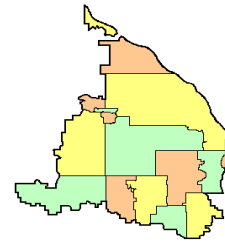
[Mulla departed 2:01 p.m.]

VIII. GRANT OPPORTUNITITES.

IX. EDUCATION AND PUBLIC OUTREACH.

A. Grace Barcelow’s November Update.

What we have been working on since the October WMWA Meeting.



1. Wrote article on chloride pollution which will be published in the next couple of weeks.
2. Finished consultations from Fish Lake and Eagle Lake workshops and continued to work with residents to install larger projects. Metro Blooms will be creating designs this winter. A larger project that will have a significant water quality impact has been identified, and more money will be allocated to designing and implementing practices on this property.
3. Continued work on Southgate Apartment complex project, working towards finalizing second budget proposal.
4. Began outreach for Parkers Lake chloride reduction project. Sent a mailing to targeted facilities in the Northern Subwatershed of the lake and have begun to follow up.
5. Continued outreach for Adopt-a-Drain K12 program. Enrolled one classroom at Parnassus Preparatory in Maple Grove. 100+ outreach emails and follow-ups were sent out.
6. Sent mailing to 244 faith-based facilities in WMWA territory to participate in chloride consultations and followed up with phone calls and emails. Reformatted the chloride consultation presentation which will be reviewed at the upcoming WMWA meeting.

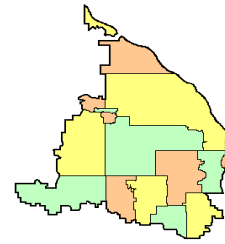
What work will be happening before the December WMWA meeting?

7. Continue outreach to involve middle school classrooms in the Adopt-a-Drain K12 program.
8. Continue outreach for the Parkers Lake Chloride reduction project. Begin scheduling and conducting consultations.
9. Continue outreach for the chloride reduction campaign targeting faith-based facilities in WMWA territory. Staff are seeking any connections folks may have for a faith-based facility in WMWA territory. Staff will continue to reach out to facilities and begin to schedule and conduct consultations.
10. Continue work to complete designs for the Southgate Apartment project in Bloomington.
11. Create December Media Kit. Kit will include news blurb and social media posts about chloride consultations and BMPs post-snowstorm.
12. Create plan for communications strategy in 2025 for presentation at the next WMWA meeting.

B. West Metro Water Alliance (WMWA) will meet via Zoom at 8:30 a.m., December 10, 2024.

C. Staff informed members that the School District of **Robbinsdale** is now requiring a service contract with the WMWA educators. The Commission’s attorney will review the contract when received.

X. COMMUNICATIONS.



A. November Communications Log.*

B. November Staff Report.*

1. Eagle and Pike Lakes Internal Load Management. The Eagle Lake alum treatment was completed October 21-22, 2024.

2. Mississippi Riverbank Stabilization Study. Stantec is now progressing this project to some preliminary design and reaching out to a select few property owners to perform site topographic surveys of the riverbank and backyard areas. Staff hope to develop three site-specific stabilization plans that highlight these various techniques and serve as a template for other homeowners. This would also help Staff to estimate costs for stabilizing plans for the various levels of erosion.

From their initial outreach, Staff heard from 9 of the ~50 home/landowners who agreed to work with us and give us access to their properties. They are re-engaging with some homeowners to set up times for survey teams to collect additional data.

3. Brookdale Park Shingle Creek Remeander and Enhancement. Staff recently met with City of Brooklyn Park, Three Rivers Park District and MnDNR to discuss the project and funding options. Staff have also completed funding research and their potential applicability for this project. Funding options and a project cooperative agreement will be presented for consideration at the December Commission meeting.

4. Grant, Cost-Share and Fund Balances are summarized on page 3 of the report.

5. Upcoming conferences and project updates are outlined on page 2 of the report.

XI. OTHER BUSINESS.

A. Reminder of appointments due by the cities of Maple Grove, Minneapolis, and New Hope for Shingle Creek and by the cities of Champlin and Maple Grove for West Mississippi. Terms are three years.

B. Solicitation for letters of interest for legal, administrative, and technical services will be published in the December 9 issue of the *State Register*. Responses will be considered at the January 9, 2025, meeting.

C. Officers will be elected at the February meeting.

D. Fair School campus improvement project November 27 design show case. Staff will forward the invitation to the members.

E. There being no further business before the Commissions, the joint meeting was adjourned at 2:10 p.m.

Respectfully submitted,

Handwritten signature of Judie A. Anderson in black ink.

Judie A. Anderson

Recording Secretary/JAA:tim