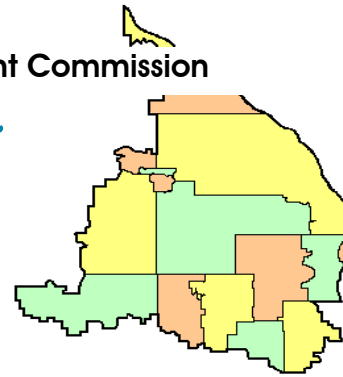




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## MINUTES

April 14, 2022

(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 12:47 p.m. on Thursday, April 14, 2022, at Crystal City Hall, 414 Douglas Drive, Crystal, MN.

Present for Shingle Creek were: David Mulla, Brooklyn Center; Burt Orred, Jr., Crystal; Karen Jaeger, Maple Grove; Ray Schoch, Minneapolis; Bill Wills, New Hope; John Roach, Osseo; Andy Polzin, Plymouth; Wayne Sicora, Robbinsdale; Diane Spector, Ed Matthesen, and Ali Stone, Stantec; Troy Gilchrist, Kennedy & Graven; and Judie Anderson, JASS.

Not represented: Brooklyn Park.

Present for West Mississippi were: David Mulla, Brooklyn Center; Melissa Collins, Brooklyn Park; Gerry Butcher, Champlin; Karen Jaeger, Maple Grove; John Roach, Osseo; Diane Spector, Ed Matthesen, and Ali Stone, Stantec; Troy Gilchrist, Kennedy & Graven; and Judie Anderson, JASS.

Also present were: Mitchell Robinson, Brooklyn Park; Heather Nelson, Champlin; Mark Ray, Crystal; Derek Asche, Maple Grove; Liz Stout, Minneapolis; Bob Grant and Nick Macklem, New Hope; Amy Riegel, Plymouth; and Kris Guentzel, Hennepin County Environment and Energy.

### II. Agendas and Minutes.

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

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

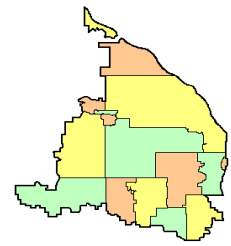
Motion Jaeger, second by Schoch to approve the **minutes of the March 10, 2022, regular meeting**.\* *Motion carried unanimously.*

Motion by Butcher, second by Roach to approve the **minutes of the March 10, 2022, regular meeting**.\* *Motion carried unanimously.*

### III. Finances and Reports.

A. Motion by Schoch, second by Wills to approve the Shingle Creek **April Treasurer's Report\* and claims** totaling \$33,012.16. Voting aye: Mullin, Orred, Jaeger, Schoch, Wills, Roach, Polzin, and Sicora; voting nay: none; absent: Brooklyn Park.

B. Motion by Jaeger, second by Butcher to approve the **West Mississippi April Treasurer's Report\* and claims** totaling \$11,842.34. Voting aye: Mulla, Collins, Butcher, Jaeger, and Roach; voting nay: none.



#### IV. Open Forum.

Matthiesen shared the news that the **Brook Gardens Clean Water + Livability project** was awarded the Local Sustainability Impact award from the Environmental Initiative this year. These statewide awards are an exciting acknowledgement of the community partnerships that are leading this project, including the Shingle Creek Commission.

#### V. Project Review.

**A. SC2022-02 Nathan Lane Business Center, Plymouth.\*** Redevelopment of property with a 90,000 square foot office/warehouse building and associated parking lot on an approximately 6-acre site located at 5005 Nathan Lane North. Following development, the site will be 78 percent impervious with 4.7 acres of impervious surface, an increase of 2.0 acres. A complete project application was received on February 24, 2022.

To comply with the Commission's water quality treatment requirement, the site must provide ponding designed to NURP standards with dead storage volume equal to or greater than the volume of runoff from a 2.5" storm event, or BMPs providing a similar level of treatment - 85% TSS removal and 60% TP removal. Infiltrating 1.3-inches of runoff, for example, is considered sufficient to provide a similar level of treatment. Runoff from the site is proposed to be routed to two Kraken filtration systems. The two systems meet the Commission water quality treatment requirements.

Commission rules require that site runoff is limited to existing rates for the 2-, 10-, and 100-year storm events. Runoff from the site is directed to two underground detention systems. The applicant meets Commission rate control requirements.

Commission rules require the site to infiltrate 1.0 inch of runoff from new impervious area within 48 hours. The new impervious area on this site is 4.7 acres, requiring infiltration of 17,061 cubic feet within 48 hours. Because of poor onsite soils, the applicant proposes to filter the required volume within 48 hours. The applicant meets Commission filtration requirements.

The erosion control plan includes a rock construction entrance, perimeter silt fence/biolog, and inlet protection. The erosion control plan meets Commission requirements.

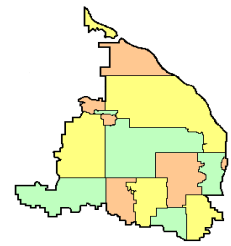
The National Wetlands Inventory does not identify any wetlands on site. The applicant meets Commission wetland requirements. There are no Public Waters on this site. The applicant meets Commission Public Waters requirements.

There is no FEMA-regulated floodplain on this site. The low floor elevations of the buildings are at least two feet higher than the Atlas 14 high-water elevation of the underground detention systems. The applicant meets Commission floodplain requirements.

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

A public hearing on the project was conducted on February 8, 2022 as part of the City of Plymouth Planning Commission and City Council review of this project, meeting Commission public notice requirements.

A draft Operations & Maintenance (O&M) agreement between the applicant and the City was provided.



Motion by Sicora, second by Schoch to advise the City of Plymouth that project SC2022-02 is approved with the following conditions:

1. Amend the Stormwater Best Management Practice Operation & Maintenance Plan for the Kraken units to include:
  - a. Evidence of a contract with a qualified vendor to conduct maintenance.
  - b. Expected maintenance intervals based on annual runoff volume and sediment loading to each device with a maximum maintenance interval of one year.
  - c. Expected filter media replacement interval.
  - d. Cost estimate for maintenance and replacement of the filter media.
2. Include references to specific north and south Kraken models on Sheet C6.01. "Bio Clean Kraken Filter-01" shall reference KF-8-14-72, and "Bio Clean Kraken Filter-02" shall reference KF-8-12-72.

*Motion carried unanimously.*

**B. WM2022-002 NorthPark Business Center Buildings 8-10 + Xylon Ext, Brooklyn Park.\*** Construction of three office-warehouse buildings and a new city street on approximately 34 acres. Following development, the site will be 76 percent impervious with 26 acres of impervious surface, an increase of 26 acres. A complete project application was received on March 14, 2022.

To comply with the Commission's water quality treatment requirement, the site must provide ponding designed to NURP standards with dead storage volume equal to or greater than the volume of runoff from a 2.5" storm event, or BMPs providing a similar level of treatment - 85% TSS removal and 60% TP removal. Infiltrating 1.3-inches of runoff, for example, is considered sufficient to provide a similar level of treatment. If a sump is used the MnDOT Road Sand particle size distribution is acceptable for 80% capture.

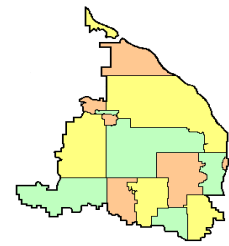
Runoff from the site is proposed to be routed to four wet ponds and one infiltration basin. The 200-acre Northpark Business Center is landlocked, so all runoff is infiltrated on-site, including back-to-back 100-year events. Commission rules require that site runoff is limited to predevelopment rates for the 2-10-, and 100-year storm events. The applicant proposes to manage all runoff on-site. The applicant meets Commission rate control requirements

Commission rules require the site to infiltrate 1.0 inch of runoff from new impervious area within 48 hours. The new impervious area on this site is 26 acres, requiring infiltration of 2.2 acre-feet within 48 hours. The applicant proposes to infiltrate all runoff onsite due to highly permeable soils that have the capacity to infiltrate more than the required volume within 48 hours. The applicant meets Commission volume control requirements.

The erosion control plan includes rock construction entrances, sediment traps during construction, perimeter silt fence, inlet protection, rip rap at pond inlets, 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 applicant meets Commission floodplain requirements.

In a telephone conversation on May 29, 2014 between Erik Megow of Wenck Associates and Dan Bowar of EVS Engineering, Mr. Bowar had stated that there is no known groundwater contamination



on the project site. The site is located in a Drinking Water Supply Management Area (DSWMA); however, it is outside the emergency response area.

A public hearing on the project was conducted in October 2021 as part of Planning Commission and City Council review of this project, meeting Commission public notice requirements.

An Operations & Maintenance (O&M) agreement between the applicant and the City of Brooklyn Park was submitted and executed for previously constructed stormwater ponds and basins. A new agreement maintenance plan has been submitted for Buildings 8-10.

Motion by Mulla, second by Collins to advise the City of Brooklyn Park that Project WM2022-002 is approved with two conditions:

1. Create and submit a one- or two-dimensional unsteady runoff and hydraulic model (i.e., XP-SWMM, PC-SWMM, EPA-SWMM) for the Northpark Business Center. The current HydroCAD model routing methods do not accurately predict reverse flow conditions, which does not allow for accurate calculation of high water levels.

2. The Commission advises Scannel Properties to complete a chloride management plan and use the attached information from the Nine Mile Creek Watershed District as a guideline. [Template-Chloride-Management-Plan\\_Final.pdf](#) ([ninemilecreek.org](http://ninemilecreek.org))

*Motion carried unanimously.*

#### **VI. Fourth Generation Watershed Management Plan.**

Staff's April 8, 2022, memo\* discussed three items relating to public input.

**A. Equity in Watershed Management Workshop.\*** Reminder of this upcoming workshop on Monday, April 25, 6-8 pm at the Crystal Community Center. Hennepin County Commissioner Irene Fernando will be the host of the evening. Several speakers will talk about strategies for enhanced inclusion and equity in our work as stewards of natural and water resources in the watersheds, and there will be an opportunity to break out into small groups to share thoughts and ideas.

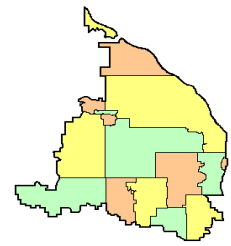
**B. CAC Meetings.** Cities have started holding their first CAC meetings with citizen commissions. The initial meeting is focused on providing an overview of the WMOs and what they do and have achieved, to explore the issues that residents think are important, and get feedback about preferred methods of communication. The second meeting, in a few months, will review and get feedback on the specific strategies and actions that you will be focusing on over the next ten years.

**C. Other Public Input.** Staff will be developing and publishing a series of short online surveys over the next several weeks to obtain further input. Their plan is to disseminate the links to these surveys using city websites and social media, as well as social media and email lists that lake associations use to stay connected.

1. What are some things you'd particularly like to know?
2. Do you have some suggestions for obtaining additional feedback?

#### **VII. Minor Plan Amendment.**

The Rules and Standards established in the Third Generation Watershed Management Plan are proposed for a Minor Plan Amendment (MPA). The Technical Advisory Committee (TAC) has been discussing the proposed revisions at length over several meetings and is recommending the revisions cited in Staff's April 8, 2022, memo.\*



The proposed Amendment would revise Appendix C of the Plan, Rules and Standards, to (1) make the rules consistent with the most recent Minnesota General Stormwater Permit; and (2) make other various housekeeping revisions to the Rules. The MPA only calls out those revisions that are substantive policy changes. At their April meeting, the TAC recommended two changes:

- A. Change Rule D.3.g(2)(iii) as follows: *If infiltration is prohibited or not ~~feasible~~ advisable for the project....*
- B. Change the effective date from June 1, 2022, to October 1, 2022.

If the Commissions choose to go forward with the Minor Plan Amendment, Staff recommend that they set May 12, 2022, as the public meeting at which it would be discussed. At that meeting, the Commissions would discuss and act on the proposed revisions.

Staff's memo includes a proposed Notice of Minor Plan Amendment and the full text of the Rules as proposed. The Commissions must send a copy of the proposed amendment to the member cities, Hennepin County, the Met Council, and the state review agencies for review and comment, and must hold a public meeting (not a hearing) to explain the amendment. This meeting must be public noticed twice, at least seven and 14 days prior to the meeting.

*Motion by Schoch, second by Roach to proceed with the amendment process and to call for a public meeting on May 12, 2022, during the Shingle Creek Commission's regular May meeting. Motion carried unanimously.*

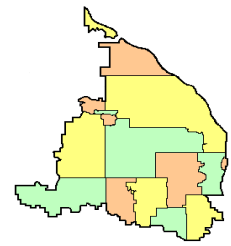
*Motion by Butcher, second by Jaeger to proceed with the amendment process and to call for a public meeting on May 12, 2022, during the West Mississippi Commission's regular May meeting. Motion carried unanimously.*

### VIII. Water Quality.

A. The Shingle Creek and West Mississippi Watershed Management Commissions annually monitor water quality in the lakes, streams, and outfalls of the watersheds. Data has been collected from Shingle Creek since 1996 and at West Mississippi River outfalls since 2010. In 2012 Shingle Creek expanded its volunteer-based lake monitoring program to start systematic detailed lake monitoring. The program has also expanded to incorporate fish, macroinvertebrate, and aquatic vegetation monitoring in the lakes and streams. Student and adult volunteers collect additional lake water quality and stream and wetland macroinvertebrate data. A Water Quality report summarizing current and historic conditions in the watersheds has been published annually since 1998. Stone presented highlights of the **2021 Annual Water Quality Report.**\*

B. 2021 was another dry year, with 26.0 inches of precipitation for the year compared to the historic (1992-2020) average of 33.5 inches. The dry year contributed to low volume of runoff and a reduction in pollutant load to Shingle and West Mississippi streams. Typically, total phosphorus (TP) and total suspended solids (TSS) values are below state standards except during storm events, when wash-off from the watershed increases those concentrations above the standards. Winter chloride concentrations remain high in Shingle Creek.

C. Three sites along Bass and Shingle Creek were monitored biweekly from April through October: near the stream's outlet to the Mississippi River in Minneapolis (SC-0); mid-watershed in Brooklyn Park (SC-3); and in Bass Creek (BCP) in the upper watershed. Winter chloride was sampled monthly from November through March at those three locations and at the USGS gage site at Queen Avenue in Minneapolis. (SC-1).



In the West Mississippi Watershed, Mattson Brook (MB) was monitored monthly April through October and 65th Avenue was monitored year-round.

Stream macroinvertebrates are typically monitored by high school students at two sites on Shingle Creek through the Hennepin County River Watch program, however, the program has been affected by the COVID-19 pandemic. Shingle Creek at Park Center High School has been monitored for 24 years by science students from the school. Shingle Creek at Webber Park was monitored by students from Patrick Henry High School between 2001 and 2012, then in 2018, 2019, and 2021 by students from the Avail Academy.

D. Lake conditions (water quality, plankton, vegetation) were monitored in five lakes in the Shingle Creek watershed. Cedar Island Lake and Lake Success were sampled as part of the ongoing lake monitoring program. Bass and Pomerleau Lakes were sampled as part of the final year of the grant-funded lake management projects and both showed continued good water quality following alum treatments in 2019 and 2020. Results from Crystal Lake showed poor water quality, little submerged vegetation, and signs of a potential harmful algae bloom in late summer. This monitoring will serve as the baseline conditions and will be repeated in 2022 and 2023, following the late 2021 alum treatment and the expected fall 2022 alum treatment.

The *2021 Water Quality Report* provides summary information for each of the water resources within the three management units of Shingle Creek and for West Mississippi as a whole. More detailed information as well as historical and trend data is presented in the appendices. The full report and technical appendices are available at [shinglecreek.org/water-quality.html](http://shinglecreek.org/water-quality.html).

Motion by Orred, second by Schoch to accept the *2021 Water Quality Report*. Motion carried unanimously.

Motion by Jaeger, second by Roach to accept the *2021 Water Quality Report*. Motion carried unanimously.

## IX. Grant Opportunities.

A. Updates were included in the March Staff Report, item XI.A., below.

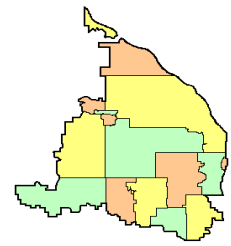
B. **Watershed-Based Implementation Funding (WBIF).** At the second convene meeting members continued to discuss potential opportunities for funding and began to develop priorities and strategies to guide the selection process. Funding inputs from a subgroup of city representatives and a table of potential general activities was included in Staff's April 8, 2022, memo.\*

The amount allocated to the Shingle Creek Watershed Area is \$95,501, and to West Mississippi is \$75,000, which will become available July 1, 2022, and expire December 31, 2025. Funding must be focused on prioritized and targeted cost-effective actions with *measurable water quality results* that were identified in the implementation section of a state-approved and locally adopted comprehensive watershed management plan. A ten percent match is required for each activity.

C. For Shingle Creek, Convene members suggested \$60,000 funding for subwatershed assessments, including lake feasibility studies, and \$35,501 funding for education and public outreach. For West Mississippi, funding for subwatershed assessments of \$65,000 and funding for education and public outreach of \$10,000 was suggested. The TAC recommended these funding amounts to the Commissions.

## X. Education and Public Outreach.

A. The Commissions conducted education and public outreach activities in 2021 in fulfillment of their Third Generation Watershed Management Plan Watershed Education and Public Outreach Program goals. However, due to the COVID-19 pandemic, many of these activities were modified to meet in-person guidelines, conducted virtually, or curtailed altogether. The activities are compiled in the **National Pollutant**



**Discharge Elimination Systems Phase II (NPDES) Report.\*** Staff compiles the report for acceptance at a Commissions' meeting and then forwards it on to the appropriate City Staff for their use in completing their MS4 reporting.

*Motion by Schoch, second by Wills to accept the 2021 NPDES Report. Motion carried unanimously.*

*Motion by Butcher, second by Collins to accept the 2021 NPDES Report. Motion carried unanimously.*

**B.** The **West Metro Water Alliance (WMWA)** met on April 12, 2022. WMWA is considering creating a part-time employee position to conduct regular outreach including providing workshops and trainings for citizens, and help public partners to meet federal, state, and local rules and MS4 requirements. This position will coordinate other outreach activities, promote cost-share grants, and maintain a higher level of communications between the member watersheds and cities. It is modeled after the very successful East Metro Water Resources Education Program (EMWREP) which began in 2006 with a single full-time employee and the goal of raising public awareness and inspiring behavior change to protect and improve water quality.

*Motion by Jaeger, second by Schoch to accept the 2021 WMWA Annual Report.\* Motion carried unanimously.* The report is a compilation of the activities undertaken by the Alliance in the past year.

*Motion by Butcher, second by Roach to accept the 2021 WMWA Annual Report.\* Motion carried unanimously.*

The next WMWA meeting will be held via Zoom at 8:30 a.m., May 10, 2022.

## **XI. Communications.**

### **A. March Staff Report.\***

**1. Watershed Boundary Adjustments.** Staff has been contacted by a Plymouth resident who requests adjustment of the Shingle Creek / Basset Creek legal boundary. Staff will discuss with City of Plymouth staff and Attorney Gilchrist to determine the merit of addressing this individual property in 2022 or this and potentially other boundary adjustments in 2023 with the 4th Generation Watershed Management Plan.

**2. Future Projects.** Staff has engaged in some initial conversations with city staff regarding possible future projects.

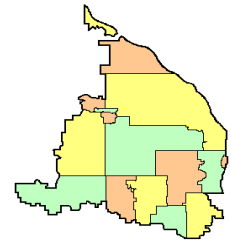
**3. Minneapolis/MPRB.** Staff continue to work with Park Board staff exploring the possibility of retrofitting the Humboldt Avenue pond in Creekview Park with a pumped iron-enhanced sand filter (IESF).

**4. Bass Creek in Brooklyn Park/New Hope.** Staff were contacted by a resident living on Bass Creek in New Hope that cattails were beginning to encroach on the channel, expressing concern they might inhibit flow in the creek. Staff have been in discussion with the cities about a potential future channel stabilization project on this reach between TH 169 and Cherokee Drive.

### **5. Project Updates.**

**a. Bass and Pomerleau Lakes Management Plan.** We expect to hear from the DNR as to whether the Commission's grant application to fund native plan translocation was approved.

**b. Meadow Lake Management Plan.** The lake has started refilling from snowmelt and spring rains. CCX media did a short story on the project at [Meadow Lake Almost Full Again After Winter Drawdown - CCX Media](#).



c. **Connections II and Bass Creek Restoration Projects.** Most of the major construction work is complete, awaiting restoration work later this spring.

d. **Palmer Creek Estates Channel Restoration.** Staff is finalizing a professional services proposal to the City of Plymouth and the contract will be executed and work begin in April, on track for late fall/winter construction.

e. **SRP Extension Project.** This project is temporarily on hold as the City of Crystal continues to work with MAC to obtain permission to construct the project on MAC property.

B. **March Communications Log.\*** No items required action.

C. **Motion by Schoch, second by Orred to accept the Shingle Creek Commission's 2021 Annual Activity Report\*** with any corrections received in the Administration Office by Friday, April 22, 2022. *Motion carried unanimously.* The report will be forwarded to the Board of Water and Soil Resources by the April 30, 2022, deadline.

**Motion by Jaeger, second by Butcher to accept the West Mississippi Commission's 2021 Annual Activity Report\*** with any corrections received by Friday, April 22, 2022. *Motion carried unanimously.*

## XII. Other Business.

Included in the meeting packet was the **Presiding Officer Statement to Return to In-Person Meetings\*** effective April 1, 2022.

XIII. **Adjournment.** There being no further business before the Commissions, the joint meeting was adjourned at 2:25 p.m.

Respectfully submitted,

Handwritten signature of Judie A. Anderson in black ink.

Judie A. Anderson,  
Recording Secretary  
JAA:tim

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