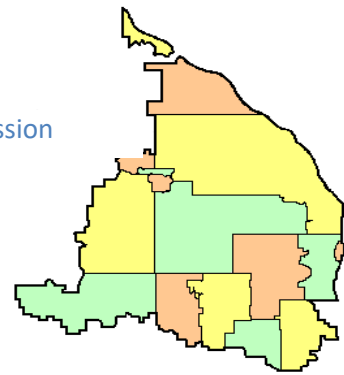




Watershed Management Commission



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MINUTES Regular Meeting January 9, 2020

(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 12:45 p.m. on Thursday, January 9, 2020, at Edinburgh USA, 8700 Edinbrook Crossing, Brooklyn Park, MN.

Present for Shingle Creek were: David Vlasin, Brooklyn Center; Adam Quinn, Brooklyn Park; Burton Orred, Jr., Crystal; Karen Jaeger, Maple Grove; Bill Wills, New Hope; Harold E. Johnson, Osseo; Andy Polzin, Plymouth; Wayne Sicora, Robbinsdale; Ed Matthiesen, Wenck Associates, Inc.; Troy Gilchrist, Kennedy & Graven; and Judie Anderson, JASS.

Not represented: Minneapolis.

Present for West Mississippi were: David Vlasin, Brooklyn Center; Steven Chesney, Brooklyn Park; Gerry Butcher, Champlin; Karen Jaeger, Maple Grove; Harold E. Johnson, Osseo; Ed Matthiesen, Wenck Associates, Inc.; Troy Gilchrist, Kennedy & Graven; and Judie Anderson, JASS.

Also present were: Shelley Marsh and Andrew Hogg, Brooklyn Center; Mitch Robinson, Brooklyn Park; Todd Tuominen, Champlin; Mark Ray, Crystal; Derek Asche, Maple Grove; Shahram Missaghi, Minneapolis; Bob Grant and Megan Hedstrom, New Hope; Ben Scharenbroich and Amy Riegel, Plymouth; Richard McCoy and Marta Roser, Robbinsdale; and Kris Guentzel, Hennepin County Environment and Energy.

II. Agendas and Minutes.

Motion by Orred, second by Jaeger to approve the revised **Shingle Creek agenda**.* *Motion carried unanimously.*

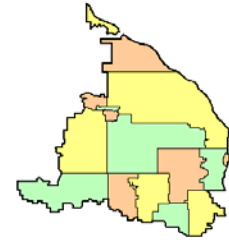
Motion by Chesney, second by Johnson to approve the **West Mississippi agenda**.* *Motion carried unanimously.*

Motion by Jaeger, second by Wills to approve the **minutes of the December regular meeting**.* *Motion carried unanimously.*

Motion by Butcher, second by Johnson to approve the **minutes of the December regular meeting**.* *Motion carried unanimously.*

III. Finances and Reports.

A. Motion by Johnson, second by Orred to approve the Shingle Creek **January Treasurer's Report**.* *Motion carried unanimously.*



Motion by Wills, second by Jaeger to approve the **Shingle Creek January claims.*** Claims totaling \$30,1-388.01 were *approved by roll call vote: ayes –Vlasin, Quinn, Orred, Jaeger, Wills, Johnson, Polzin, and Sicora; nays – none; absent – Minneapolis.*

B. Motion by Butcher, second by Chesney to approve the **West Mississippi January Treasurer's Report.*** *Motion carried unanimously.*

Motion by Johnson, second by Chesney to approve the **West Mississippi December claims.*** Claims totaling \$9,932.37 were *approved by roll call vote: ayes – Vlasin, Chesney, Butcher, Jaeger, and Johnson; nays – none.*

IV. Open Forum.

Kris Guentzel from the Hennepin County Department of Environment and Energy introduced himself to the members.

V. Project Reviews.

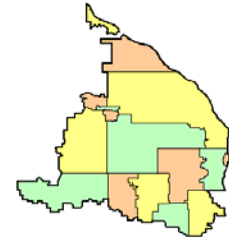
WM2019-010 Mississippi Crossing, Champlin, revised January 3, 2020.* Construction of an apartment complex on an 8.39-acre site located at East River Entry and East River Parkway. A complete application was received September 30, 2019, and approved by the Commission on November 14, 2019.

The proposed project consists of two phases. Phase 1 is the construction of an apartment complex with an associated driveway, sidewalk, plaza, and two underground stormwater infiltration systems. Phase 2 is the construction of additional driveway and parking areas. Stormwater management features are proposed as part of Phase 1 and are designed to handle stormwater from impervious area associated with both phases of the project.

The project was subsequently redesigned with substantial changes. The redesigned project includes an additional area that will serve as a parking lot, with an underground stormwater infiltration system beneath it. Final revised calculations were received December 21, 2019. Following development of both phases of the project, the site will be 65 percent impervious with 5.48 acres of impervious surface, an increase of 5.19 acres.

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, i.e., 85% TSS removal and 60% TP removal. For example, infiltrating 1.3 inches of runoff is considered sufficient to provide a similar level of treatment.

Runoff from the majority of the site (6.86 acres or 82% of the site, of which 45% is impervious) is proposed to be routed to an underground, 84-inch corrugated metal pipe infiltration system on the southeastern portion of the site adjacent to East River Parkway. This underground infiltration system has the capacity to infiltrate 1.3 inches of runoff. The MIDS calculation indicates the annual TSS and TP loads off the entire site are reduced by 93%, which exceeds Commission requirements. In addition, at each inlet to the underground infiltration systems, a 6-foot sump with SAFL Baffle provides pretreatment of stormwater before it enters the system. (All proposed SAFL Baffles provide more than 80% removal of suspended solids according to SHSAM calculations.) A small portion of the site (0.6 acres or 7% of the site, of which 35% is impervious) is proposed to be routed directly to storm sewer associated with East River Entry. However, a 4-foot sump is proposed for storm sewer draining this area to treat this stormwater before it leaves the site. 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 storm events. Runoff from the site is routed to an underground infiltration system, which limits runoff rates to predevelopment conditions in the 2-, 10-, and 100-year storm events. The applicant meets Commission rate control requirements.

Commission volume control rules require the site to infiltrate 1.0 inch of runoff from new impervious area within 48 hours. However, this site must infiltrate 1.3 inches of runoff to additionally meet water quality requirements. The new impervious area on this site is 5.19 acres, requiring infiltration of 0.56 acre-feet (24,394 CF) within 48 hours. The applicant proposes to construct an underground, 84-inch corrugated metal pipe infiltration system, which has the capacity to infiltrate more than the volume of runoff from a 1.3-inch rainfall within 48 hours. The applicant also proposes to construct a 66-inch corrugated metal pipe infiltration system, which provides additional treatment volume. The applicant meets Commission volume control requirements.

The erosion control plan includes a rock construction entrance, perimeter silt fence 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 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 November 18, 2019 as part of 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 of Champlin has not been provided. However, the applicant wrote in an email to Sarah Nalven of Wenck Associates on October 22, 2019, "The City and Owner have discussed this agreement, but nothing has been developed yet. They will keep you in the loop when this is developed to make sure the watershed has a copy of the draft."

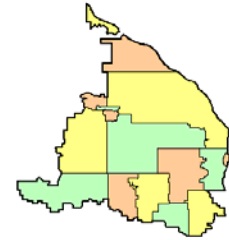
Motion by Butcher, second by Vlasin to advise the City of Champlin that project WM2019-010 as revised is approved with three conditions:

1. Provide a complete O&M agreement between the applicant and the City of Champlin for all stormwater facilities on the project site.
2. Demonstrate by double ring infiltrometer or witness test that the underground infiltration system can meet the design infiltration rate of 0.80 inches/hour.
3. Provide revised SHASM calculations to demonstrate that the sump in STM MH 20 is sized to manage runoff from the entire upstream contributing drainage area.

Motion carried unanimously.

VI. Watershed Management Plan.

In their January 3, 2020 memos* Wenck has listed suggested activities for the 2020 work plans. Most of these are ongoing activities, although some are rotating around the watershed. They are presented for discussion and revision as desired. Proposed 2020 Monitoring Plans will be presented to the Commissions at next month's meeting.



A. Draft Shingle Creek 2020 Work Plan.*

1. Continue to implement TMDLs.

a. Complete the 5-year performance review for the Bass and Shingle Creek Biotic and DO TMDL.

b. Complete the third annual aquatic vegetation survey on Upper Twin Lake and provide aquatic invasive species treatment as necessary.

c. Partner with the City of Plymouth to undertake the second alum treatments on Bass and Pomerleau Lakes; update the aquatic vegetation surveys; and provide aquatic invasive species treatment as necessary.

d. In partnership with the City of Robbinsdale, begin implementing the Crystal Lake Management Plan, including carp removal, aquatic vegetation management, and alum treatment.

e. Partner with the City of Minneapolis to finalize the subwatershed BMP assessment.

f. If the CWF grant is funded, partner with the City of New Hope to implement the Meadow Lake Management Plan, including a lake drawdown in fall and winter 2020. *[Word has been received that this project was not funded.]*

g. If the CWF grant is funded, partner with the Cities of Brooklyn Park and Brooklyn Center to undertake streambank improvements for Shingle Creek from Regent Avenue to Brooklyn Boulevard. *[Again, word has been received that this project was not funded.]*

h. Partner with the City of Brooklyn Park to prepare a Feasibility Study for streambank improvements for Bass Creek from Cherokee Drive to I-694, and submit a grant application for partial funding.

i. Prepare a Feasibility Study to extend the SRP Reduction filter along the length of the Wetland 639W overflow channel, and submit a grant application for partial funding.

j. Continue to pursue grant funding for TMDL implementation projects.

k. Expand the Directly Connected Untreated Areas geodatabase to include boundaries of the untreated areas directly connected to the lakes in the watershed. (Streams were completed in 2017.)

l. Continue to identify, pursue grant funding for, and implement projects and programs addressing the bacterial impairment in Shingle Creek and the Mississippi River.

m. Stay abreast of other regional and state TMDLs.

2. Partner with other organizations to increase reach and cost effectiveness.

a. Participate in the West Metro Water Alliance joint education and outreach group.

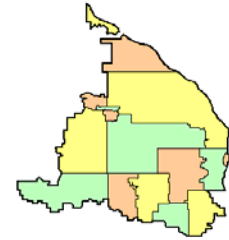
b. Continue to partner with the USGS to operate the Queen Avenue monitoring site.

c. Partner with the USGS, DNR, and other interested parties to stay abreast of groundwater issues.

3. Continue ongoing administration and programming.

a. Conduct routine Commission lake water quality monitoring and aquatic vegetation and fish surveys on Eagle and Pike Lakes and grant-funded monitoring on Bass, Pomerleau, and Crystal Lakes. *(See figure in Staff's memo for monitoring locations.)*

b. Conduct Commission routine flow and water quality monitoring at SC-0 and SC-3 on Shingle Creek and Bass Creek Park (BCP) on Bass Creek as well as two DO longitudinal studies as part of the Shingle and Bass Creeks Dissolved Oxygen (DO) and Biotic Integrity TMDL 5 Year Review.



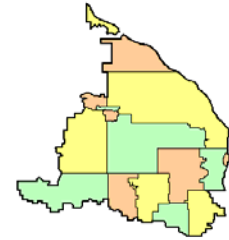
- c. Sponsor volunteer stream monitoring through RiverWatch and wetland monitoring through WHEP (Hennepin County).
- d. Sponsor volunteer lake monitoring through CAMP (Met Council) on Upper, Middle, and Lower Twin, Ryan, Meadow, and Success Lakes.
- e. Complete reviews of development and redevelopment projects as necessary.
- f. Prepare an annual water quality report.
- g. Solicit cost-share projects from member cities, to be funded from the Cost Share Fund and the annual \$100,000 levy and the Partnership Cost Share Fund and the annual \$50,000 levy.
- h. Review feasibility studies for 2020 proposed capital projects, undertake Plan Amendments, hold public hearings, order projects and certify levies.
- i. Prepare a 2021 annual budget and begin scoping the Fourth Generation Management Plan, which will be completed in 2022.
- j. Invite three guest speakers to make lunchtime water resources presentations. (An individual to present on the topic of groundwater was suggested.)
- k. Tour project sites in the watershed.

In addition to the activities enumerated above, it was recommended to update the project list previously provided to Hennepin County Commissioner Mike Opat (the “State of the Watershed”) and to add the flood mapping project to the list.

With these comments, motion by Orred, second by Willis to accept the draft 2020 Shingle Creek Work Plan. *Motion carried unanimously.*

B. Draft West Mississippi 2020 Work Plan.*

- 1. **Continue to stay abreast of regional TMDLs.**
 - a. Continue to identify, pursue grant funding for, and implement projects and programs addressing the bacterial impairment in the Mississippi River.
 - b. Stay abreast of other regional and state TMDLs.
 - c. Identify boundaries of the untreated areas directly connected to the Mississippi River or other conveyances.
- 2. **Partner with other organizations to increase reach and cost effectiveness.**
 - a. Participate in the West Metro Water Alliance joint education and outreach group.
 - b. Partner with the USGS, DNR, and other interested parties to stay abreast of groundwater issues.
 - c. Partner with the Mississippi Watershed Management Organization (WMWO) to undertake monitoring at the 65th Avenue outfall.
 - d. Partner with a member city to complete a subwatershed BMP analysis.
- 3. **Continue ongoing administration and programming.**
 - a. Undertake routine flow and water quality at two outfalls into the Mississippi River.
 - b. Sponsor volunteer stream monitoring through RiverWatch and wetland monitoring through WHEP (Hennepin County).



- c. Complete reviews of development and redevelopment projects as necessary.
- d. Prepare an annual water quality report.
- e. Solicit cost-share projects from member cities, to be funded from the Cost Share Fund and the annual \$50,000 levy.
- f. Review feasibility studies for 2020 proposed capital projects, undertake Plan Amendments, hold public hearings, order projects and certify levies.
- g. Prepare a 2021 annual budget and begin scoping the Fourth Generation Management Plan, which will be completed in 2022.
- h. Invite three guest speakers to make lunchtime water resources presentations.
- i. Tour project sites in the watershed.

Motion by Jaeger, second by Chesney to accept the draft 2020 West Mississippi Work Plan with the addition of the task to draft a cooperative agreement to monitor the 65th Avenue outfall (item 2.c.). *Motion carried unanimously.*

VII. Water Quality.

Minutes* of the November 14, 2019 TAC meeting were included in the meeting packet for information. The **next TAC meeting** is tentatively scheduled for 11:00 a.m., prior to the March 12, 2020 regular meeting.

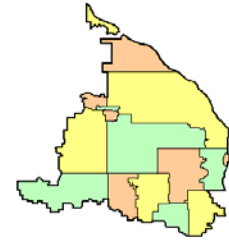
VIII. Education and Public Outreach.

A. The **West Metro Water Alliance (WMWA)** met on Tuesday, December 10, 2019. (Their next meeting is scheduled for 8:30 a.m., Tuesday, January 14, 2020, at Plymouth City Hall. Please check for the location of the meeting room due to building remodeling.)

1. Watershed PREP and Education and Outreach Events. Educators have completed 2019 school visits, which were detailed in last month's Staff memo. The educators are available to table at city and school events; contact Amy Juntunen at amy@jass.biz. The educators, working with local cable provider CCX Media, filmed one of their classroom presentations and are preparing a short promotional video for Watershed PREP for use both in marketing to schools in the four watersheds as well as informing other watersheds about the program.

2. Website/Social Media. The new WMWA Coordinator, Catherine Cesnik, is reviewing the WMWA website to refresh and update content. Cesnik has assumed the social media posting duties from the Armchair Gardener beginning January 1, 2020. She is compiling a list of city contacts and will be reaching out to them over the next few months to better understand how WMWA can be a resource. The WMWA steering committee particularly discussed the new education and outreach requirements in the draft NPDES (National Pollutant Discharge Elimination System) General Permit for MS4s (Municipal Separate Storm Sewer Systems).

3. The steering committee discussed options for submitting an application to Hennepin County and its **AIS grants program** for coordinated signage at boat launches. It was noted that the DNR standard AIS signs are generic, and signage that includes photos of AIS species of particular concern would be helpful. The group will contact Hennepin County staff to further explore options.



B. The Commissions provide **Education and Outreach grants** of up to \$1,000 to educators and groups undertaking actions to (1) educate students or the public about watersheds, water quality, issues, and potential actions, and (2) implement demonstration projects that have an impact on water quality. Previous applicants have included lake associations, neighborhood groups, scouts, churches, and schools.

Included in the meeting packet is an E&O grant application* from the **Victory Neighborhood Association**. The Victory neighborhood is located in the very northwestern corner of Minneapolis and drains partly to Ryan Lake, partly to Crystal Lake, and partly directly to Shingle Creek. ViNA is applying for a Neighborhood Demonstration Grant from BWSR to enhance connected pollinator habitat across the neighborhood. The request is for \$1,000 to help provide two workshops to Northside residents and provide technical assistance to applicants in the Victory Neighborhood to incorporate stormwater runoff BMPs into their pollinator plantings. ViNA had previously received an E&O grant to help fund three Rain Garden parties that resulted in the installation of 50 rain gardens. Staff recommends this application for approval. The costs of providing education and outreach, including this grant program, are split 50/50 between the Commissions, so the cost to each would be \$500. This expense is included in the 2020 annual budget.

Motion by Orred, second by Vlasin the approve this grant application on behalf of the Shingle Creek Commission. *Motion carried unanimously.*

Motion by Johnson, second by Butcher the approve this grant application on behalf of the West Mississippi Commission. *Motion carried unanimously. Judie, send agreement for signature*

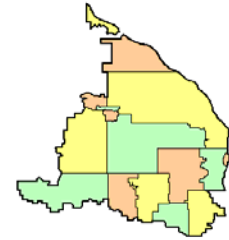
IX. Grant Opportunities and Updates.

A. Brooks Landing.* The City of Brooklyn Park has submitted a Partnership Cost Share Program application on behalf of Boisclair Corporation and Metro Blooms for improvements at Brooks Landing Senior Apartments. The various site improvements include replacing the parking lot, adding two raingardens to treat runoff from the parking lot and sidewalk, and adding amenities such as benches and landscaping. The cost share would be applied to the rain garden portion of the project. Similar to the Autumn Ridge project, Metro Blooms will provide outreach and stewardship opportunities for residents of the development. Included in the meeting packet are the application, existing and proposed conditions, and project budget.

Commission Staff internally discussed the cost-effectiveness of this proposal. The request is for \$50,000 from the program. The estimated load reduction is 1.75 pounds of TP annually, or about \$28,000/pound of TP removed. The proposed project is in the Directly Connected Impervious Area and is a priority for treatment retrofits. Staff's maximum comfort level is about \$10,000/pound unless there are other significant benefits. For comparison, Autumn Ridge Phase 1 removed about 6 pounds/year, and Phase 2 about 2.5 pounds/year. At the earlier Technical Advisory Committee meeting, Staff requested the TAC to discuss this subject in order to provide guidance and clarity for this and other potential applications. The TAC recommended to the Commission that this project be funded at \$20,000.

Motion by Jaeger, second by Vlasin to approve funding of \$20,000 for this project. *Motion carried unanimously.* The Commission also requested Staff to respond back with what the \$42,560 portion of the request would include.

B. Bass Creek Stream Restoration Feasibility Study.* The Shingle Creek CIP includes a generic "Shingle or Bass Creek Stream Restoration" that is a placeholder for potential projects. Staff have been in conversation with the City of Brooklyn Park about the potential to restore Bass Creek from



Cherokee Drive to approximately the driveway into the Home Depot development. This reach flows through Bass Creek Park and is the site of the Commission's BCP monitoring station. There is a trail along the west side of the stream.

Parts of the reach have relatively steep, wooded stream banks, other parts are fairly flat and open. The streambed is a stable sandy gravel, but the banks are incised and some tree removals and thinning are necessary. This reach is also the proposed location for the second filter for the SRP Reduction Project, as it is just downstream of the large flow-through Cherokee Wetland. Given what has already been learned as part of that project, Staff believe they can engineer an effective SRP reduction filter into the stream itself.

Similar to what was just done for the Connections II Stream Restoration Project, Staff propose to work with the City to perform field surveys and 30% design, then submit a grant application for the proposed project to the Clean Water Fund later this summer. They recommend that \$10,000 from the Closed Projects Account be allocated to fund this work. The \$10,000 would be "paid back" by including the cost of this Feasibility Study in the project cost that would be certified in the fall. At their meeting earlier today, the TAC recommended to the Commission approval of Staff's proposal.

Motion by Orred, second by Quinn to approve Staff's recommendation. *Motion carried unanimously.*

X. Communications.

January Communications Log.* No items required action.

XI. Other Business.

Election of Officers will occur at the February meeting. Please contact Anderson if you are willing to serve.

XII. Adjournment. There being no further business before the Commissions, the joint meeting was adjourned at 1:44 p.m.

Respectfully submitted,

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

Judie A. Anderson
Recording Secretary
JAA:tim