

MINUTES
Regular Meeting
August 10, 2017

(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 12:30 p.m. on Thursday, August 10, 2017, at the Clubhouse at Edinburgh, USA, 8700 Edinbrook Crossing, Brooklyn Park, MN.

Present for Shingle Creek were: David Mulla, Brooklyn Center; John Roach, Brooklyn Park; Burt Orred, Jr., Crystal; Karen Jaeger, Maple Grove; Gary Anderson, Minneapolis; Bill Wills, New Hope; Harold E. Johnson, Osseo; Andy Polzin, Plymouth; Troy Gilchrist, Kennedy & Graven; Ed Matthiesen and Diane Spector, Wenck Associates, Inc.; and Judie Anderson, JASS.

Not represented: Robbinsdale.

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

Also present were: David Vlasin and Andrew Hogg, Brooklyn Center; Steve Chesney and Mitch Robinson, Brooklyn Park; Rick Lestina, Maple Grove; Liz Stout, Minneapolis; Shawn Markham, New Hope; Leah Gifford and Ben Scharenbroich, Plymouth; and Richard McCoy and Marta Roser, Robbinsdale.

II. **Agendas and Minutes.**

Motion by G. Anderson, second by Wills to approve the revised **Shingle Creek agenda**.* *Motion carried unanimously.*

Motion by Butcher, second by Jaeger to approve the revised **West Mississippi agenda**.* *Motion carried unanimously.*

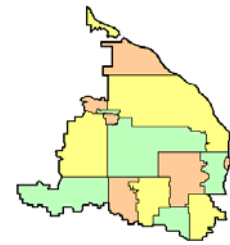
Motion by Wills, second by G. Anderson to approve the **minutes of the July regular meeting**.* *Motion carried unanimously.*

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

III. **Open Forum.**

A. McCoy passed around pictures of the Noble Avenue reconstruction project currently underway in Robbinsdale.

B. Jaeger informed the Commissioners of an article in the August 8, 2017 *StarTribune* featuring the starry stonewort's presence in lakes in Minnesota. This invasive plant was the topic of the Commissions' speaker at their July meeting.



IV. Finances and Reports.

A. Motion by G. Anderson, second by Wills to approve the **Shingle Creek Treasurer's Report.*** *Motion carried unanimously.*

Motion by Wills, second by G. Anderson to approve the **Shingle Creek August claims.*** Claims totaling \$180,997.12 were *approved by roll call vote: ayes – Mulla, Roach, Orred, Jaeger, G. Anderson, Wills, Johnson, and Polzin; nays – none; absent - Robbinsdale.*

B. Motion by Jaeger, second by Roach to approve the **West Mississippi Treasurer's Report.*** *Motion carried unanimously.*

Motion by Jaeger, second by Roach to approve the **West Mississippi August claims.*** Claims totaling \$101,013.55 were *approved by roll call vote: ayes – Mulla, Roach, Butcher, Jaeger, and Johnson; nays – none.*

V. Project Reviews.

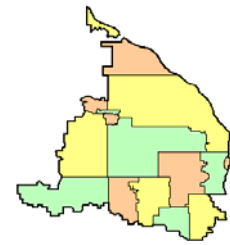
VI. Watershed Management Plan.

A. Earlier this year the Commissions undertook a Minor Plan Amendment to revise the Capital Improvement Program (CIP) for 2017 to add a Phase 2 to the DO Aeration project. The next step in the CIP process is to receive and discuss feasibility studies for the proposed projects and call for a public hearing on those projects that the Commissions desire to move forward. The table below shows the projects under consideration, their funding, and the additional 1% levy discussed earlier this year to be added to account for uncollectable amounts.

	Total Project Cost	Commission Levy	Grant Funds	City Funds
Shingle Creek Projects				
Cost share (city projects)	\$200,000	\$100,000		\$100,000
Shingle Creek Reaeration Project Phase 2	145,000	145,000		
Priority BMP retrofits (private projects)	100,000	50,000		50,000
TOTAL	\$445,000	\$295,000		\$150,000
1% additional for uncollectable levy		2,950		
TOTAL LEVY		\$297,950		
West Mississippi Projects				
Cost share (city projects)	\$100,000	\$50,000		\$50,000
Mississippi Crossings Rain Garden	219,000	54,750		164,250
TOTAL	\$319,000	\$104,750		\$214,250
1% additional for uncollectable levy		1,050		
TOTAL LEVY		\$105,800		

B. Shingle Creek Projects.

1. Commission Fund for Retrofit Cost Share (City Projects). This annual project provides cost sharing to retrofit smaller Best Management Practices identified in Commission-prepared Intensive BMP Retrofit Studies. The TAC developed policies and procedures to administer these funds, and makes recommendations to the Commissions on which projects should be funded. In 2016 the Commission awarded cost-share funding to Brooklyn Park to install ponds and sumps in a park adjacent to Bass Creek. Another project in Minneapolis was for a “blooming alleys” project in the Cleveland Neighborhood, which drains to Crystal Lake. The annual levy is \$100,000, to be matched at least one-to-one by a member city or cities. Potential cost-share projects for 2018 will be solicited in November-December 2017.



2. Shingle Creek Reaeration Project Phase 2. The overall project is the design, fabrication and installation of mechanical or passive stream reaeration structures that are artistic in design and appearance and practical in function. These structures are being installed in three locations in public parks on Shingle Creek where TMDL modeling determined that traditional stream roughness reaeration structures such as riffles or vanes would not be sufficient to increase dissolved oxygen above the aquatic life standard. This second phase of the project would add solar power energy sources to power the mechanical aspects of the systems and to increase the ad valorem tax levy share to 100%.

3. Priority BMP Retrofits (Private Projects). No applications have been received in 2017. The annual levy is \$50,000, to be matched at least one-to-one by a private party through a member city or cities. Potential cost-share projects are open year round until the fund is depleted.

C. West Mississippi Projects.

1. Commission Fund for Retrofit Cost Share (City Projects). Similar to Shingle Creek, this annual project provides cost sharing to retrofit smaller BMPs. No project applications have been received in 2016 or 2017 to date.

2. Mississippi Crossings Rain Gardens. This project in Champlin will construct two large bioinfiltration basins to treat runoff in the old town center area. The area currently discharges water untreated to the Mississippi River.

D. Staff Recommendation. Quotes were submitted to the Commission for installation of the solar/grid power, footings, enclosures, and other costs, excluding the cost of the art itself. These quotes were significantly greater than the funds the Commission had agreed to contribute to the project, increasing the project overall cost well above what Staff considers reasonable for this project. Staff cannot recommend its feasibility at this time. They have discussed this with staff from the two cities involved and agreed that *the project should not go forward*. Staff have also discussed this with the MPCA, which provided grant funds for a portion of the project, and they are okay with not proceeding with the project, and would not ask the Commission to refund any of the grant funds expended.

Motion by G. Anderson, second by Jaeger to cease work on the Reaeration Project at this time and to not move forward with Phase 2. *Motion carried unanimously.*

Motion by Wills, second by Roach to call for a public hearing on the Cost Share City Projects and the Priority BMP Projects as described above. *Motion carried unanimously.*

Motion by Butcher, second by Jaeger to call for a public hearing on the Cost Share City Projects and the Mississippi Crossings Rain Garden Project as described above. *Motion carried unanimously.*

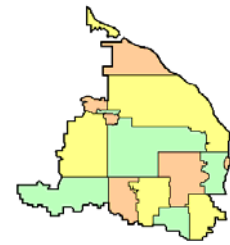
The public hearing will occur at 12:45 p.m., Thursday, September 14, 2017, prior to the Commissions' regular meeting. A draft of the legal notice* is included in the meeting packet. It will be amended to remove the Shingle Creek Reaeration Project.

VII. Water Quality.

VIII. Education.

A. Watershed PREP. The educators are gearing up for the fall semester and are scheduling classes. They will be sending letters to the cities soliciting their support of the program in the schools within their boundaries.

B. Native Plant Sales/Pledge to Plant. WMWA has been coordinating with cities and native plant growers and is targeting a few events for sponsored native plant sales. A nursery will be at these events to sell their native plants and city or other volunteers will be available to explain the benefits of native plants and pollinators and to advertise the Pledge to Plant campaign. The July 13 Camden Farmers Market had over 230 visitors. Many visited the WMWA table and purchased plants from Minnesota Native Landscapes. The vendor from MNL said he sold about 200 units, over half of which were 6-packs, for \$10 each.



C. Staff's August 9, 2017 memo* included the July **website Google Analytics and Facebook insights** for both the Single Creek and WMWA Facebook pages.

D. The **next WMWA meeting** is scheduled for 8:30 a.m., Tuesday, September 12, 2017, at Plymouth City Hall. Commissioners are encouraged to attend.

E. The **Freshwater Society** is requesting watershed organizations to consider partnering with them to sponsor a number of programs. Possibilities include the Road Salt Symposium, MOOS Lecture Series, and the State of Water Conference. The Society is suggesting \$500 sponsorships. The Commissioners will respond to this outreach at their September meeting.

IX. Grant Opportunities.

A. **Becker Park Phases 2 and 3.*** On October 13, 2016 the Commission approved a Subgrant Agreement with the City of Crystal concerning the professional services necessary to assess the feasibility of the project. This was Phase 1 of the City's professional services agreement with Wenck. The Crystal City Council entered into that professional services agreement, but only authorized Phase 1, requiring that the Council act to proceed to Phase 2 if Phase 1 found the project technically feasible.

Staff will recommend to the Council to proceed to the next phases of the project, which would include preparing 30% plans (Phase 2) and then final construction documents (Phase 3) and bidding. The Subgrant Agreement* between the City and Commission would allow Crystal to use the proceeds of the Clean Water Fund grant to pay for these subsequent phases of professional services. This agreement would be brought to the Council at the same time that City staff requests proceeding to the next phases of the project.

Following award of a contract, the final phase (4) would provide for construction observation and management. When the Commission orders the project in fall 2018, a third Subgrant Agreement between the City and the Commission will allocate the remainder of the Clean Water Fund grant, other grants received by the Commission for the project, and the Commission's levy for both the actual construction work and the professional services required to manage the construction.

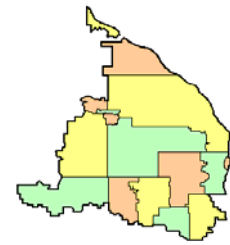
Motion by Jaeger, second by Orred to enter into the Subgrant Agreement. *Motion carried unanimously.*

B. **Bass and Pomerleau Lakes Alum Treatment project.*** Included in the meeting packet are the Clean Water Fund grant application questions and responses* for the proposed Bass and Pomerleau Lakes Alum Treatment project and a brief Feasibility Study.* Both were submitted along with the grant application* on the August 9 due date.

Table 1 on the following page shows the estimated cost of completing this project and how it is proposed to be split between grant funds and Commission funds. The first three line items on the table are costs Staff recommend to be incurred in 2017 from the levy funds already on hand for the Bass Lake internal load reduction project. This includes preparation of the Feasibility Study for submittal with the grant application. The second line item is the collection of additional lake sediment cores to refine the spatial extent and dosing required. In estimating the alum application cost a very conservative approach was used, based on data from only one sediment core. By taking additional sediment cores at various locations in the general area expected to be treated, the area to be treated can be refined and variability in sediment release rates identified. Staff's expectation is that getting this additional core data will allow them to reduce the dosage and thus reduce the actual overall cost of the alum application. That line item is set forth in more detail in Table 2.

Staff also recommend doing a full fish survey this fall as the previous surveys are more than five years old. Because these first three line items would be completed prior to executing a grant, should one be awarded, they would not be eligible for grant funding and would not count as match. The rationale for completing this work in 2017 is that, if Staff wait until after the grant is executed, they will not get lab results back in time to apply the alum in 2018.

The next several lines in Table 1 are the estimated Project Costs that would be potentially eligible for grant funding. They include the cost of the alum treatment itself, along with the technical services associated with it



such as plans and specifications and construction observation. Staff's approach to alum dosing, which has greatly increased its effectiveness, is to make two applications. After the first application, follow-up sediment cores are taken to observe the penetration of the alum and how well it is neutralizing sediment release. A second dose would be applied the following year. Sometimes the core results reveal the need to modify the dosing, so that adjustment can be made during the second application.

Staff recommend follow-up water quality monitoring and aquatic vegetation and fish surveys. They also recommend that the Commission include in the grant application the first year of aquatic vegetation management. The initial vegetation survey of Pomerleau did not detect Eurasian watermilfoil or curly-leaf pondweed, so not much management is expected on that lake. The Bass Lake Association has been treating Bass Lake for curly-leaf pondweed and has knocked it down considerably, but there is a potential for it to bloom following an improvement in clarity. Staff's recommendation is that the Commission plan to respond to any excessive growth the first year, then turn ongoing management back to the Association.

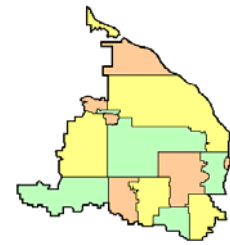
Table 1. Project estimated cost and grant/match funding.

	Bass	Pomerleau	Combined
Feasibility study	\$3,500	\$3,500	\$7,000
Preliminary design (fall 2017)(see Table 2)	14,800	14,800	29,600
Initial 2017 fish survey	12,500	4,300	16,800
Subtotal, Commission Cost	30,800	22,600	53,400
Alum application	122,400	72,800	195,200
P & S, observation, cores	40,000	20,000	60,000
Follow up 2018 WQ monitoring	6,000	6,000	12,000
Late season 2018 vegetation survey	2,000	1,300	3,300
Follow up 2018 or 2019 fish survey	12,500	4,300	16,800
Initial year (2019) vegetation management	35,000	5,000	40,000
Project management	4,500	2,000	6,500
Subtotal, Project Cost	222,400	111,400	333,800
Grant share			267,000
Commission share			63,800
Commission Levy Funds Available			202,000
Less Commission Cost			53,400
Less Grant Match			63,800
Excess levy funds to Closed Projects Acct			84,800

2017 Preliminary Design. To refine the alum dosing and the spatial extent of the application area, Staff recommend taking three more cores this fall in each lake. These cores would be sectioned into 0-6, 6-10, and 10-20 centimeter deep samples with release rate and sediment chemistry analyses run on each. For the grant, they estimated they would have to treat to a 10 centimeter depth. Through this partitioning they can determine if the depth can be reduced and, thus, the amount of alum applied can be reduced based on the release rate at various depths. Dr. Bill James James at UW-Stout, who we have worked with for many years, would complete the lab work. The City of Plymouth has

Table 2. Preliminary design costs.

Task	Wenck	Lab Costs	Total Cost
1 Sediment Coring	\$1,834	\$17,741	\$19,575
2 Alum Cost Estimates	\$3,835	\$0	\$3,835
3 Reporting	\$5,118	\$0	\$5,118
4 Veg management options	\$991	\$0	\$991
Total	\$11,778	\$17,741	\$29,519



also asked for some preliminary vegetation response scenarios and options to be used in discussing the project with lake residents.

Motion by G. Anderson, second by Orred to move forward with the preliminary design, fish survey and vegetation management plan tasks, working in collaboration with DNR. *Motion carried unanimously.* If the grant is not awarded, the Commission will proceed with the project on Bass Lake only.

C. At the June meeting Matthiesen reminded the Commissioners of an upcoming DNR grant available to **update the Commissions' floodplain maps.** This item will remain as a placeholder until more details become available.

X. Communications.

A. June Communications Log.* No action required.

B. Notice of Risk MAP Standards and Guidance Updates Public Review.* The announcement is available at https://www.fema.gov/media-library-data/1501539531485-d7db8bdf90b197daa50448983a66fab9/Maintenance_and_Public_Review_Announcement_Fall_2017_RiskMAP_Guidelines_and_Standards.pdf

XI. Adjournment.

There being no further business before the Commissions, the meetings were adjourned at 1:48 p.m.

Respectfully submitted,

Judie A. Anderson
Recording Secretary
JAA:tim

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