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June 2, 2022

Commissioners
Technical Advisory Committee Members
Shingle Creek and West Mississippi
Watershed Management Commissions
Hennepin County, Minnesota

The agenda and meeting packet are available to all interested parties on the Commission's web site:

<http://www.shinglecreek.org/minutes--meeting-packets.html>

and

<http://www.shinglecreek.org/technical-advisory-committee.html>

Dear Commissioners and TAC Members:

A joint regular meeting of the Shingle Creek and West Mississippi Watershed Management Commissions will be held **Thursday, June 9, 2022**, at 12:45 p.m., in the downstairs Community Room in Crystal City Hall, 4141 Douglas Drive.

The Technical Advisory Committee (TAC) will meet prior to the regular meeting at 11:00 a.m.

For our June regular meeting we will be ordering lunch from Dufner's Deli. Please make your meal choice from the items below and email me at judie@jass.biz to confirm your attendance and your meal selection **BY TUESDAY, JUNE 7, AT 5:00 PM.**

Mark Ray suggests that, due to construction, you park in the lot closer to 41st Avenue or on 41st Avenue.

Regards,

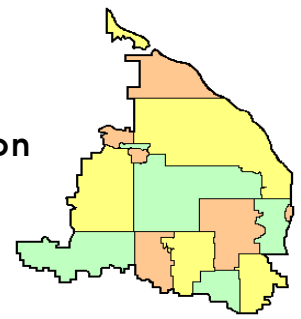
Judie A. Anderson
Administrator

cc: Alternate Commissioners Member Cites Wenck/Stantec Troy Gilchrist
TAC Members Hennepin County Reviewing Agencies

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These are deli sandwich box lunches. Please order by number.

- ① Turkey
- ② Roast beef
- ③ Ham
- ④ Club – turkey, bacon, lettuce, tomato
- ⑤ Corned beef
- ⑥ Tuna salad
- ⑦ Veggie-lettuce, tomato, cucumber, onion, green and red pepper, cheese, mayo
- ⑧ Peanut butter and jelly



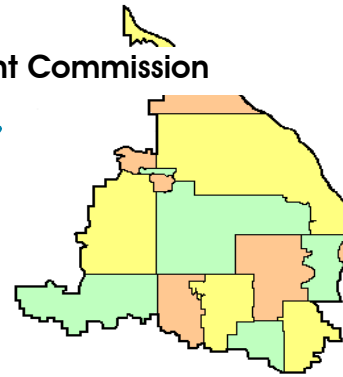
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A combined regular meeting of the Shingle Creek and West Mississippi Watershed Management Commissions will be convened on Thursday, June 9, 2022, at 12:45 p.m. in the Community Room, Crystal City Hall, 4141 Douglas Drive. Agenda items are available at <http://www.shinglecreek.org/minutes--meeting-packets.html>. *Black typeface denotes SCWM items, blue denotes SC items, green denotes WM items.*

AGENDA

- 1. Call to Order.
 - SCWM a. Roll Call.
 - √ SCWM b. Approve Agenda.*
 - √ SCWM c. Approve Minutes of Last Meeting.*
- 2. Reports.
 - √ SCWM a. Treasurer’s Reports and Claims** - voice vote.
 - √ SCWM b. Accept 2021 Audit Reports.**
- 3. Open forum.
- 4. Project Reviews.
- 5. Third Generation Plan.
 - √ SCWM a. Set 2022 Maximum Levies.*
 - √ SCWM b. Initiate Minor Plan Amendment for Maintenance Funding.*
- 6. Fourth Generation Plan.*
 - √ SCWM a. Boundary Changes – proposal.*
 - SCWM b. Draft Priorities, Goals and Policies.*
 - 1) Third Generation Priorities.*
 - SCWM c. Preliminary CIP and Implementation Plan - presentation.
- 7. Water Quality.
 - √ SC a. 2021-2023 USGS Agreement.*
 - SCWM b. Technical Advisory Committee Report - verbal.
- 8. Grant Opportunities.
 - SC a. Grant Projects Update.*
- 9. Education and Public Outreach.
 - SCWM a. WMWA – update.**
 - b. Next WMWA meeting – 8:30 a.m., Tuesday, July 12, 2022.
- 10. Staff Report – no report.
- 11. Communications.
 - SCWM a. Communications Log.*
- 12. Adjournment.

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* In meeting packet or emailed ** Supplemental email / Available at meeting
Previously transmitted * Available on website
√ Item requires action



**REGULAR and
PUBLIC MEETING MINUTES**

May 12, 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 12:51 p.m. on Thursday, May 12, 2022, at Crystal City Hall, 4141 Douglas Drive, Crystal, MN.

Present for Shingle Creek were: David Mulla, Brooklyn Center; Alex Prasch, Brooklyn Park; Burt Orred, Jr., Crystal; Karen Jaeger, Maple Grove; Ray Schoch, Minneapolis; Bob Grant, New Hope; John Roach, Osseo; Andy Polzin, Plymouth; Wayne Sicora, Robbinsdale; Diane Spector, Todd Shoemaker, and Katie Kemmitt, Stantec; Troy Gilchrist, Kennedy & Graven; and Judie Anderson, JASS.

Present for West Mississippi were: David Mulla, Brooklyn Center; Alex Prasch, Brooklyn Park; Karen Jaeger, Maple Grove; John Roach, Osseo; Diane Spector and Katie Kemmitt, Stantec; Troy Gilchrist, Kennedy & Graven; and Judie Anderson, JASS.

Not represented: Champlin.

Also present were: Mike Albers, Brooklyn Center; Mitchell Robinson, Brooklyn Park; Heather Nelson, Champlin; Mark Ray, Crystal; Mark Lahtinen, Maple Grove; Liz Stout and Katie Kowalczyk, Minneapolis; Nick Macklem, New Hope; Amy Riegel and Ben Scharenbroich, Plymouth; and Richard McCoy and Mike Sorensen, Robbinsdale.

II. **Agendas and Minutes.**

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

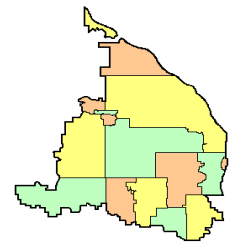
Motion by Jaeger, second by Prasch to approve the **West Mississippi agenda*** as revised. *Motion carried unanimously.*

Motion Schoch, second by Grant to approve the **minutes of the April 14, regular meeting.*** *Motion carried unanimously.*

Motion by Prasch, second by Roach to approve the **minutes of the April 14, 2022, regular meeting.*** *Motion carried unanimously.*

III. **Finances and Reports.**

A. Motion by Orred, second by Schoch to approve the Shingle Creek **May Treasurer's Report* and claims** totaling \$32,158.33. Voting aye: Mullen, Prasch, Orred, Jaeger, Schoch, Grant, Roach, Polzin, and Sicora; voting nay: none.



B. Motion by Jaeger, second by Roach to approve the **West Mississippi May April Treasurer's Report* and claims** totaling \$13,177.27. Voting aye: Mulla, Prasch, Jaeger, and Roach; voting nay: none; absent: Champlin.

[The regular meeting was suspended at 12:56 p.m. in order to conduct a public meeting.]

IV. Public Meeting.

A. On April 7, 2022, the Commissions initiated a Minor Plan Amendment to the joint Third Generation Watershed Management Plan. The proposed Amendment would revise Appendix C of the Plan, the 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 Minor Plan Amendment only calls out those revisions that are substantive policy changes. If adopted, these revisions would be effective October 1, 2022.

Notice was sent to the member cities, county, and reviewing agencies, and published as required by statute and the Plan. The purpose of this meeting is to discuss the proposed minor plan amendment and any comments received prior to or at a public meeting. (Note this is not a formal public hearing.) After that discussion, the Commissions may consider a resolution adopting the Minor Plan Amendment. As of this date, comments have been received from the City of Minneapolis with a number of questions requesting clarification or recommending additional housekeeping revisions. Staff will respond to the city's questions. Metropolitan Council also responded, stating that they had no comments.

The proposed amendment is outlined in Staff's memo,* showing additions and ~~deletions~~.

B. Open public meeting. The public meeting was opened at 1:01 p.m.

1. No additional comments on the proposed amendment were received from the reviewing agencies, member cities or the public.
2. No one was present from the general public.
3. The public meeting was closed at 1:02 p.m.

C. Commission Discussion.

Motion by Schoch, second by Sicora to adopt **Resolution 2022-1** Adopting a Minor Plan Amendment Revising the Rules and Standards.* *Motion carried unanimously.*

Motion by Jaeger, second by Roach to adopt **Resolution 2022-01** Adopting a Minor Plan Amendment Revising the Rules and Standards.* *Motion carried unanimously.*

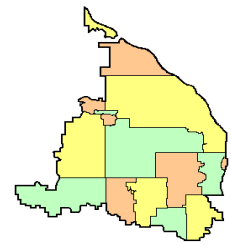
[The regular meeting was reconvened at 1:03 p.m.]

V. Open Forum.

VI. Project Reviews.

VII. Third Generation Watershed Management Plan.

Maintenance Levy. Over the past few months, the Shingle Creek Commission, Technical Advisory Committee (TAC), and Staff have discussed options for funding "maintenance" types of activities that are not capital projects and not city maintenance, but are often the ongoing remnants of capital projects. As has been discussed before, these are activities such as ongoing long-term efforts to manage carp or curly-leaf pond weed,



which would be the largest need, but also maintenance of fish barriers or BMPs installed as research projects, etc. There is no specific designated funding source for these types of activities.

Since this is not funding for a capital project as a separate line item on the CIP or smaller BMPs funded through the Cost Share programs, it is unclear whether a Minor Plan Amendment (MPA) is necessary to initiate this new program. In many ways it is like an operating budget line item, but funded from levy rather than city assessments. Staff has been in contact with BWSR to determine if an MPA is necessary before the Commission chooses to certify a levy for this purpose. As of this writing, Staff do not have that determination.

If an MPA is required to modify the Third Generation Plan to reflect this new program, it is recommended that the Commission direct Staff to craft an amendment satisfactory to BWSR and proceed with the standard MPA process of publishing notice and discussing the proposed MPA at a public meeting on June 9, 2022. At that time the Shingle Creek Commission would adopt the MPA and the *Maintenance Funding Guidelines** attached to Staff's May 6, 2022, memo.* If no MPA is necessary, at the June meeting the Commissioners would simply adopt the guidelines and include the requested amount in the notice of maximum levy adopted at the meeting.

Motion by Schoch, second by Grant to initiate a Minor Plan Amendment as described above and call for a public meeting on June 9, 2022. *Motion carried unanimously.*

[Since the date to submit a timely notice had passed, the public meeting will be held on July 14, 2022.]

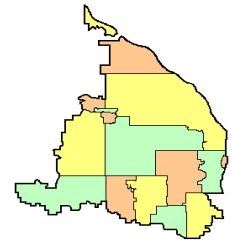
VIII. Fourth Generation Watershed Management Plan.

A. A Diversity, Equity and Inclusion Workshop was held on April 25, 2022, at the Crystal Community Center and hosted by County Commissioner Irene Fernando. There were about 35 attendees, a good mix of Shingle Creek, West Mississippi, and Bassett Creek Commissioners and TAC members, some County staff, and representatives from a few other WMOs. The workshop included presentations by County, Metro Blooms, and Mississippi WMO staff, personal reflections on Environmental Justice work by the Executive Director of a nonprofit that serves diverse and underrepresented communities, as well as small group discussions and reflections.

Some key takeaways are (1) the work is most successful when all parties spend time to build relationships and build trust, which can be resource-intensive and time consuming but is ultimately rewarding; and (2) environmental justice must be intentional and can challenge us to look at our actions in a new and sometimes uncomfortable way. One challenge is the extent to which our water resources work can move beyond a strict "where the science says" approach to "where we can mitigate disproportionate impacts."

At the end of the workshop the attendees broke into two groups – Bassett Creek and Shingle Creek/West Mississippi. There was spirited discussion about how the Commissions could use their resources to improve conditions in historically underserved areas. Those present reacted thoughtfully to some slides presented by Hennepin County about where those potentially disproportionate impacts might be in the three watersheds. Copies of two of the slides were included in Staff's May 6 memo.*

B. Education and Outreach Framework. Many of the city Citizen Advisory Committees (CACs) are identifying the need to provide more education and outreach opportunities within the two watersheds. As noted in the Watershed Based Implementation Funding (WBIF) discussion, the West Metro Water Alliance (WMWA) and Hennepin County have been working together to develop a shared half-time position specifically to provide hands-on outreach to property owners. A very rough framework for education and outreach includes:



1. General education and outreach on key messages shared through the website, social media, written materials, press releases, and WMWA.
2. Youth education through WMWA's Watershed PREP.
3. Adult education and outreach through WMWA's Watershed PREP, focused on tabling and association workshops.
4. Adult education and outreach through new shared outreach coordinator, focused on workshops and hands-on BMPs.
5. Outreach to diverse communities through Metro Blooms and Partnership Grants hands-on BMPs.

C. Implementation Plan Development. Staff are going to begin sketching out the individual lake and stream resource plans that will help to define both the monitoring program and the implementation plan. They will be identifying where such future work such as (1) lake internal load feasibility studies; (2) subwatershed assessments; and (3) targeted monitoring might be helpful in the coming ten years. They will also be working with the Technical Advisory Committee to start to build the CIP for the coming ten years. They will be collecting this information over the next month and will have a compilation at the June meeting.

IX. 2023 Operating Budgets.

The Joint Powers Agreements (JPAs) governing operations of the Commissions require a budget and the resulting proposed city assessments for the coming year to be reported to the member cities by July 1. The budgets are separated into an operating budget and a project budget. The operating budgets cover the core of Commission activities, including administration, engineering, legal, technical services, monitoring, education/outreach programs and basic operations. Capital and cost-share projects are handled separately from the operating budget.

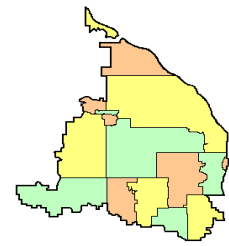
The primary source of funds for operations is from assessments on the cities having land in the watershed. The cities share proportionally in that cost, based 50% on their area within the watershed and 50% on their net tax capacity in the watershed. Tax capacity serves as a proxy for level and density of development. Most, but not all, of the cities fund these assessments from their Storm Utility Funds.

The JPAs limit the increases in annual city assessments to the *cumulative* increase in the Consumer Price Index (CPI-U), using the assessment in 2004 as a base. This is *not* an annual cap, so if the Commissions choose to not increase the assessment one year or increase less than the rate of inflation, they retain the ability in future years to set an increase greater than the annual rate of inflation to "catch up."

A. Shingle Creek.*

The Shingle Creek Commission has not increased the member assessment every year, and in fact has kept the annual assessment at \$363,590 for three years in a row. However, the *ability* to increase continues to accumulate with inflation. For 2023, the Commission could increase assessments to as much as \$411,220 and stay within the JPA cap. However, the draft 2023 budget being recommended assumes *an assessment of \$370,000*, which is a 1.8% increase, well below the current inflation rate. This reflects ongoing financial uncertainty resulting from the COVID 19 pandemic as well as recognition that the annual budget will be reviewed and revised for future years based on priorities established in the ongoing Fourth Generation Watershed Management Plan. Other sources of funding are project review fees and interest.

The 2021 annual expenses, pre-audit, were an estimated \$63,250 less than the total revenue received. On the revenue side, interest received was significantly less than budgeted due to lower interest

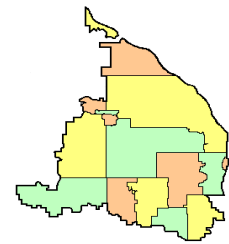


rates and the reduced bank balance following reimbursement of cities for projects they've completed. But that was offset by project review expenses that were well below budget. Project review activity was much less than expected. Virtual rather than in-person meetings saved nearly \$5,000. WMWA has a pay-as-you-go approach and bills the WMOs in installments based on activity. COVID-19 greatly reduced outreach and education opportunities. Rather than build up a big account balance, WMWA elected not to invoice for the full amount budgeted. Once the audit is complete, the actual surplus will be used to replenish the unrestricted cash reserve, which was in a slight negative position at the end of 2020.

With a few exceptions the proposed budget generally continues the same activities at the same level of effort as 2022. Some of the line items have been adjusted and reallocations made. Overall, the proposed 2023 budget is about \$3,340 less than the 2022 budget.

Proposed Shingle Creek 2023 Operating Budget.

		2021 Budget	Pre-Audit Actual 2021	Approved 2022 Budget	Proposed 2023 Budget
REVENUE					
1	Application Fees	\$20,000	\$13,100	\$20,000	\$15,000
2	Member Assessments	363,590	363,590	363,590	370,000
3	Blue Line Extension	0	0	0	0
4	Interest	20,000	164	5,000	250
TOTAL REVENUE		\$403,590	\$376,854	\$388,590	\$385,250
EXPENSES					
ADMINISTRATION					
5	Administrative Services	\$71,000	59,405	\$71,000	\$70,000
6	Engineering Support	17,000	8,421	17,000	15,000
7	Project Reviews/WCA	1,500	1,407	1,500	1,500
8	Blue Line Extension				
<i>Subtotal</i>		\$89,500	\$69,233	\$89,500	\$86,500
ENGINEERING					
9	Engineering Services	75,000	75,582	75,000	77,000
10	Grant Application Writing	11,000	11,005	12,000	11,000
11	Project Reviews/WCA	44,000	18,850	43,000	30,000
12	Blue Line Extension	0	0	0	0
13	TMDL 5 Year Reviews	10,000	4,999	5,000	5,000
<i>Subtotal</i>		\$140,000	\$110,436	\$135,000	\$123,000
LEGAL					
14	Legal Services	\$5,500	\$5,892	\$5,500	\$6,000
MISCELLANEOUS					
15	Bookkeeping	7,000	6,786	8,000	8,000
16	Audit	6,500	6,000	6,500	7,500
17	Insurance & Bonding	3,100	2,241	3,200	3,200
18	Meeting Expense	5,000	209	5,000	5,000
<i>Subtotal</i>		\$21,600	\$15,236	\$22,700	\$23,700
PROGRAMS					
<i>Monitoring</i>					
19	Stream Monitoring	36,000	31,152	35,000	34,000
20	Stream Monitoring-USGS	4,200	3,800	4,200	4,200
21	Commission Lake Monitoring	24,000	23,289	28,000	28,000

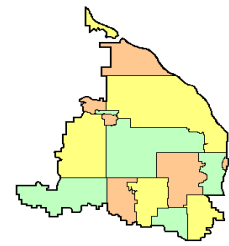


		2021 Budget	Pre-Audit Actual 2021	Approved 2022 Budget	Proposed 2023 Budget
22	Citizen Assisted Lake Monitoring	3,800	4,934	4,800	5,200
23	Vol Wetland Monitoring	2,000	0	2,000	0
24	Vol Stream Monitoring	1,000	0	1,000	2,000
25	Annual Monitoring Report	16,000	16,038	16,000	17,500
	Subtotal	\$87,000	\$78,163	\$91,000	\$90,900
	<i>Water Quality Education</i>				
26	Education Program	15,000	14,030	16,500	17,000
27	Education Grants	500	0	0	0
28	WMWA Admin/Tech: SC Share	5,000	9,299	5,000	5,000
29	WMWA Impl Activities: SC Share	2,000	315	2,000	2,000
30	Rain Garden Workshops: SC Share	2,000	0	0	0
31	WMWA Educators: SC Share	4,500	0	4,500	4,500
	Subtotal	\$29,000	\$23,644	\$28,000	\$28,500
	MANAGEMENT PLANS				
32	3 rd Gen Plan/Plan Amendments	0	0	1,000	0
33	Subwatershed BMP Assessment	10,000	10,000	0	5,000
	Subtotal	\$10,000	\$10,000	\$1,000	\$5,000
	PROJECTS				
34	Contribution to 4 th Generation Plan	0	0	0	0
35	To/(From) Reserves	20,990	63,250	15,890	21,650
	Subtotal	\$20,990	\$	\$15,890	\$21,650
	TOTAL OPERATING EXPENSE	\$443,590	\$376,854	\$388,590	\$385,250
	WMWA Revenues				
	WMWA Education -partners	33,000		33,000	33,000
	WMWA Rain Garden Workshops-partners	8,000		0	0
	WMWA Education Programming-SC	11,500		11,500	11,500
	Rain Garden Workshops-SC	2,000		0	0
		\$54,500		\$44,500	\$44,500
	Expenditures				
	WMWA Admin-Tech	20,000		20,000	20,000
	WMWA Implementation	6,500		6,500	6,500
	WMWA Educators	18,000		18,000	18,000
	WMWA Rain Garden Workshops	8,000		0	0
		\$52,500		\$44,500	\$44,500

Motion by Schoch, second by Roach to approve the 2023 proposed budget as presented, with member assessments totaling \$370,000. *Motion carried unanimously.* It was recommended, when transmitting the budget to the cities, that Staff emphasize the Commission’s successes.

B. West Mississippi.*

The West Mississippi Commission has not increased assessment every year. However, the *ability* to increase continues to accumulate with inflation. For 2023, the Commission could increase assessments to as much as \$186,950 and stay within the JPA cap. The draft 2023 budget being recommended



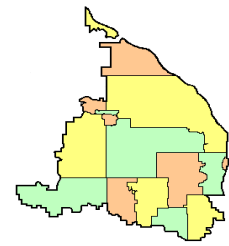
assumes an assessment of \$156,200, which is a zero increase. Other sources of funding are project review fees and interest. The audited unrestricted fund balance at the end of 2020 was about \$82,000. The 2021 year-end balance is still under audit but is expected to be in that vicinity. The proposed 2023 budget assumes no cash contribution from the reserves.

With a few exceptions the proposed budget generally continues the same activities at the same level of effort as 2022. Some of the line items have been adjusted and reallocations made. Overall, the proposed 2023 budget is \$5,400 less than the 2022 budget.

In 2021, the Commission spent less than it took in from the various revenue sources. The estimated balance following the completion of the audit will accrue to the cash reserves. A major part of the underspending was a result of the COVID-19 pandemic. Meeting expense was less. The West Metro Water Alliance (WMWA) Watershed PREP educators had limited activity as users relied on an online version of the watershed lessons. WMWA did not bill the participating watersheds for the unspent cost of the program. In addition, the cost to perform project reviews was much less than what was anticipated. While it appears that the cost of 2021 stream monitoring was much lower than budgeted, Staff are still looking into whether the Mississippi WMO invoiced the Commission for the full amount of services provided in 2021.

Proposed West Mississippi 2023 Operating Budget.

		2021 Budget	2021 Actual (pre-audit)	2022 Budget	Proposed 2023
INCOME					
1	Application fees	\$18,000	\$23,200	\$18,000	\$20,000
2	Interest income	7,000	94	2,500	100
3	Assessment	153,600	153,600	156,200	156,200
4	Blue Line Extension	500	0	0	0
5	Reserve - General	0		5,000	0
	TOTAL INCOME	\$178,600	\$176,894	\$181,700	\$176,300
EXPENSES					
	<i>Administration:</i>				
6	Administrative services	\$30,000	\$27,618	\$32,000	\$32,000
7	TAC/engineering support	5,000	2,975	4,000	4,000
8	Project reviews/WCA	1,500	1,207	1,500	1,500
9	Blue Line Extension	0	0	0	0
	Subtotal	\$36,500	\$31,800	\$37,500	\$37,500
	<i>Engineering:</i>				
10	Engineering services	\$31,500	\$28,574	\$33,500	\$32,300
11	Grant writing	1,000	0	500	0
12	Project reviews/WCA	30,000	19,541	30,000	25,000
13	Blue Line Extension	0	0	0	0
	Subtotal	\$62,500	\$48,115	\$64,000	\$57,300
	<i>Legal:</i>				
14	Legal services	\$4,000	\$3,112	\$4,500	\$5,000
	Subtotal	\$4,000	\$3,112	\$4,500	\$5,000
	<i>Miscellaneous:</i>				
15	Accounting	\$3,000	3,193	\$3,300	\$3,400
16	Audit	5,500	4,500	5,000	6,500
17	Insurance & bonding	2,800	2,258	3,100	3,000
18	Meeting expense	2,700	90	2,700	3,000
	Subtotal	\$14,000	\$10,041	\$14,100	\$15,900



		2021 Budget	2021 Actual (pre-audit)	2022 Budget	Proposed 2023
	<i>Monitoring:</i>				
19	Vol stream monitoring	\$0	\$0	\$0	\$0
20	Vol wetland monitoring	2,000	0	2,000	2,000
21	Outfall & stream monitoring	22,600	11,393	22,600	22,600
22	Annual monitoring report	8,000	6,873	8,000	7,500
	Subtotal	\$32,600	\$18,236	\$32,600	\$32,100
	<i>Education:</i>				
23	Education program	\$15,000	\$14,030	\$16,500	\$17,000
24	Rain garden workshops	2,000	0	0	0
25	WMWA implementation activities	11,500	5,000	11,500	11,500
26	Education grants	500	0	0	0
	Subtotal	\$29,000	\$19,030	\$28,000	\$28,500
	<i>Management Plans:</i>				
27	3 rd Gen Plan/plan amendments	0	\$0	1,000	0
28	Subwatershed BMP assessment	0	0	0	0
	Subtotal	\$0	\$0	\$1,000	\$0
29	Contribution to 4th Gen Plan	0	0	0	0
30	To (from) reserves	0	46,560	0	0
	TOTAL OPERATING EXPENSE	\$178,600	\$176,894	\$181,700	\$176,300

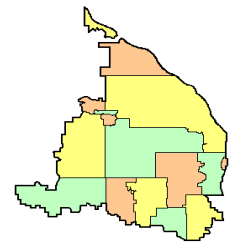
Motion by Jaeger, second by Mulla to approve the 2023 proposed budget as presented, with member assessments totaling \$156,200. *Motion carried unanimously.*

X. Water Quality.

A. Impaired Waters. Spector attended the MPCA/DNR Mississippi River - Twin Cities HUC 8 Watershed Professional Judgement Group (PJG) – WEST meeting on April 28, 2022. This is a step in the process where the MPCA and DNR’s watershed assessment team reviews water quality and other data to determine which streams and lakes are meeting or exceeding state standards, as well as identifying where more information is needed. The purpose of the PJG meeting is to take local and public input on potential new impairments, new de-listings, those waterbodies that are recognized as nearly or barely impaired, and those that are vulnerable. This includes assessment results from monitoring chemical parameters as well as from biological monitoring of aquatic invertebrates and fish. The MPCA will use this information to develop and submit to the EPA a new draft Impaired Waters list, which is several steps further down the road in the process. There is some good news and some not so good news.

1. In West Mississippi, the MPCA is proposing a new impairment listing (for E. coli) on the channel that flows out of the Brooklyn Park **Environmental Preserve** through Mississippi Gateway Regional Park and discharges into the Mississippi River below the Coon Rapids Dam.

2. The MPCA is proposing new impairment listings on **Bass Creek** – DO and E. coli. While this is a new impairment listing, recall that DO was a primary biotic stressor and, as such, the Shingle and Bass Creek Biotic and DO TMDL includes non-numeric TMDL implementation actions for Bass Creek such as channel reshaping and adding aeration structures. Such features were included in the Bass Creek Park Restoration Project that is just concluding. The Commission and cities have also been treating the Shingle Creek E.coli impairment as a whole-watershed impairment as well. It is not clear whether and when TMDL studies will need to be completed for these new impairments to formally establish load reductions, but there will not likely need to be new implementation actions since the cities and Commission are already in implementation.



3. **Bass Lake** was noted to now be meeting the TP and Secchi standard, but still experiencing elevated chl-a, and there was a question as to whether it should be delisted at this time. Spector was able to provide some background to the PJG about the alum treatment and vegetation management activities that are ongoing, and that there was active management and oversight by the City, lake association, and Commission. That was sufficient for the group to feel comfortable recommending that Bass Lake be proposed for delisting for nutrients.

4. **Pomerleau Lake** now clearly meets state water quality standards for all three eutrophication indicators, and it is recommended for delisting with no questions from the PJG.

5. There are a number of lakes this assessment round being proposed for listing based on non-attainment of the fish IBI standard. All three basins of **Twin Lake** are proposed as is **Eagle Lake**. Spector has a little information about which of the fish metrics seem to contribute to the low score. More complete actual IBI data can be readily obtained when it comes time to figure out what, if anything, to do about it.

6. **Crystal Lake** was diagnosed with moderately elevated chloride concentrations and is classified as vulnerable to a future chloride impairment. No impairment at this time, just for information and consideration.

B. 2022 Metropolitan Council Citizen Assisted Lake Monitoring (CAMP) Agreement.* Motion by Schoch, second by Jaeger to approve this agreement in the amount of \$3,040.00. *Motion carried unanimously.* Bass Lake and the three basins of Twin Lake will be monitored in 2022.

X. Grant Opportunities.

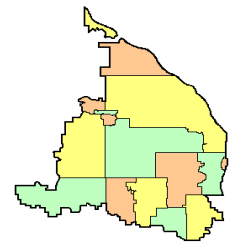
A. Bass Lake Vegetation Improvement CPL Grant. The Commission previously directed Staff to submit a CPL grant to perform vegetation transplants on Bass Lake. Bass Lake is on the draft list of delisted water bodies this year following alum treatments in 2019 and 2020. Water quality is the best on-record. This grant project aims to improve aquatic vegetation diversity throughout the lake to support and maintain a healthy lake ecosystem. The grant request was for \$22,230. The project requires a 10% match which will be funded through remaining Bass and Pomerleau Alum Project funds. The Department of Natural Resources has awarded the full grant request to the Commission. Included in the meeting packet is the project workplan* and grant contract.* The contract is pending approval by the Commission's attorney.

Motion by Grant, second by Schoch to approve the grant contract pending affirmative review by the Commission's attorney. *Motion carried unanimously.*

B. Bass Lake Curly-leaf Pondweed Herbicide Treatment.* Staff have completed curly-leaf pondweed (CLP) delineations on Bass Lake and delineated four areas for herbicide treatment. The goal of CLP management in the eyes of the DNR is to manage small areas of CLP as a nuisance for recreation, and not to manage it as eradication. CLP in Bass Lake is persistent and is recommended for treatment. The Commission has treated CLP in Bass Lake with herbicide yearly since 2019. Experience on other lakes shows it can take five years or more of treatment to see significant reduction in this hardy invasive. The Commission included funding for at least five years in the Bass and Pomerleau alum treatment project.

The CLP delineation on Bass Lake is attached. Overall, there are four separate areas recommended for treatment. This is approximately the same amount of treatment area as in other years, although the area to be treated is not exactly the same:

- | | |
|--|--|
| 13.22 acres with an average depth of 6.1 feet; | 3.26 acres with an average depth of 6.1 feet; |
| 3.15 acres with an average depth of 6.5 feet; | 1.26 acres with an average depth of 3.6 feet . |



The quote from LimnoPro* for this treatment, which would likely occur between May 12 and May 28, is included in the meeting packet and is in the amount of \$6,604.81. Motion by Schoch, second by Prasch to approve this quotation with an appropriate indemnification clause. *Moton carried unanimously.*

C. Watershed-Based Implementation Funding (WBIF).* The Watershed-Based Implementation Funding (WBIF) committee met for its second convene meeting on April 14, 2022, concurrent with the Technical Advisory Committee (TAC) meeting, and was scheduled to meet for a third and final time prior to this meeting. However, due to time constraints the third meeting had to be rescheduled to May 19.

At the April meeting, the group reviewed potential actions identified for possible funding, including projects programmed in the CIP for the next few years, TMDL actions such as lake internal load feasibility studies or aquatic vegetation/rough fish management, and education and outreach options.

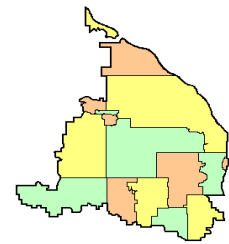
Spector noted that WMWA had been working with Hennepin County staff about the possibility of a shared staff member that could provide education and outreach within the four WMWA watersheds. Since the last convene meeting, Hennepin County has drafted a proposed “Education, Outreach, and Technical Assistance Action Plan” that would initially dedicate 0.5 FTE in a 2-year limited duration employee position to implement this initiative across areas of the County that are contributing financially. The purpose would be to develop a pilot program to increase technical assistance, education, and outreach with residents focused on increasing conservation implementation success. This pilot program would be focused on marketing and promoting workshops, reaching out to underserved communities, potentially delivering workshops, and providing follow-up assistance to workshop participants. It is possible that this could be developed in tandem with Metro Blooms to incorporate their expertise, especially in outreach to underserved groups. A component could also include providing small financial assistance grants to parties installing BMPs, which would be administered by this position. The convene group agreed to dedicate WBIF funds for education and outreach: \$35,501 from the Shingle Creek allocation, and \$10,000 from the West Mississippi allocation.

The group also discussed funding actions such as additional subwatershed assessments that would identify more projects that could be incorporated into future capital projects for funding by grants and levy. The convene group agreed to dedicate \$60,000 from the Shingle Creek allocation to subwatershed assessments, with two areas in particular identified: the drainage area to the Gaulke/Memory Lane/Hagemeister Pond system; and the drainage area to Eagle Lake, including an internal load assessment for Eagle Lake.

Finally, the group agreed to dedicate the remaining \$65,000 in West Mississippi allocation to continuing to refine and design the high priority Mississippi River streambank stabilization needs in Brooklyn Park, for which the City and Hennepin County had completed a feasibility assessment. The purpose of the WBIF funding would be to take these from conceptual design to 30% design to improve project readiness for future grant funding.

At the May 19 meeting, the convene committee will confirm the allocations and will identify and confirm the source of match and the grantees for each of the allocations. These will then be presented to the Commissions for their review and agreement to serve as the grantee and provide the 10% match as noted. The Hennepin County proposal for the Education and Outreach contracted coordinator is still under development and is still being considered by other WMOs for potential financial contributions from their WBIF allocations. Staff recommends approving the allocations and funding levels in principle so that the process can move on to the next step.

Once all parties participating in the E & O coordinator proposal have agreed to the proposal and the actual contribution amount is known, any modifications to the above will be brought back to the



Funding Priority	Amount WBIF	Source of 10% Match	Grantee
Shingle Creek			
Education & outreach contracted coordinator	\$35,501	Operating budget for E & O	SC WMC
Subwatershed assessments	\$60,000	Operating budget for SWAs	SC WMC
TOTAL	\$95,501		
West Mississippi			
Education & outreach contracted coordinator	\$10,000	Operating budget for E & O	WM WMC
Miss R Streambank Stabilization Design	\$65,000	?	?
TOTAL	\$75,000		

convene committee and any modifications made. Staff acting as the convenor will then provide the final recommendation to BWSR for its review and approval. Once that has been secured, Staff will develop and submit work plans so funds can be contracted later this year.

XII. Education and Public Outreach.

The **West Metro Water Alliance (WMWA)** met on May 10, 2022. Spector noted that WMWA had been working with Hennepin County staff about the possibility of a shared staff member who could provide education and outreach within the four WMWA watersheds. The County was fleshing out the possibilities and what the cost would be, which they thought would be in the vicinity of \$100,000 per year. The expectation is that this staff person would be available to provide targeted workshops, on-site consultations, and targeted outreach on various water quality topics. It is possible that this could be developed in tandem with Metro Blooms to incorporate their expertise, especially in outreach to underserved groups. The group generally favored reserving funds for education and outreach in the \$25,000-30,000 funding range.

The **next WMWA meeting** will be held via Zoom at 8:30 a.m., June 14, 2022.

XIII. Communications.

- A. **Staff Report** – no report.
- B. **April Communications Log.*** No items required action.

XIV. Other Business.

Motion by Schoch, second by Jaeger to elect to NOT WAIVE the statutory tort limits on municipal tort liability established by MN Stat. §466.04. *Motion carried unanimously.*

Motion by Roach, second by Prasch to elect to NOT WAIVE the statutory tort limits on municipal tort liability established by MN Stat. §466.04. *Motion carried unanimously.*

XV. Adjournment. There being no further business before the Commissions, the joint meeting was adjourned at 2:44 p.m.

Respectfully submitted,

Judie A. Anderson
 Recording Secretary
 JAA:tim

To: Shingle Creek/West Mississippi WMO Commissioners

From: Todd Shoemaker, P.E.
Diane Spector

Date: June 3, 2022

Subject: Set 2022 Maximum Levies

Recommended Commission Action Each Commission should by motion set its 2022 maximum capital projects levy: Shingle Creek = \$212,100; West Mississippi = \$159,075

This action is to set the maximum amount of capital projects levy the Commissions expect to certify to Hennepin County. The actual levies will be certified in September, after the Commissions hold public hearings on the proposed projects. Tables 1 and 2 show the CIP projects that will be considered in September. The Maximum Levy sets the ceiling for the capital levy; the Commissions can certify a lesser levy but cannot increase it. In 2016 the Commissions began levying an additional 5% to cover administrative costs, and an additional 1% to cover uncollected levies, based on the historical rate of uncollectables. These maximum levies will be forwarded to Hennepin County.

Table 1. Shingle Creek 2022 CIP Projects (2023 levy).

Project	Total Estimated	City/ Private	Grant	Commission Share
Cost share (city projects)	\$200,000	\$100,000	0	\$100,000
Partnership cost share (private projects)	50,000	0	0	50,000
Maintenance fund	50,000	0	0	50,000
Subtotal	\$300,000	\$100,000	\$0	\$200,000
5% additional for legal/admin costs				10,000
Subtotal				210,000
TOTAL LEVY (101% for uncollectable)				\$212,100

Table 1b. Levy by project.

Project	Total Levy
Cost share (city projects)	\$106,050
Partnership cost share (private projects)	\$53,025
Maintenance fund	\$53,025
Total	\$212,100

Table 2. West Mississippi 2022 CIP Projects (2023 levy).

Project	Total Estimated	City/Private	Grant	Commission Share
Cost share (city projects)	\$100,000	\$50,000	0	\$50,000
Partnership Cost Share	100,000	0	0	100,000
Subtotal	\$150,000	\$50,000	\$ 0	\$150,000
5% additional for legal/admin costs				7,500
Subtotal				157,500
TOTAL LEVY (101% for uncollectable)				\$159,075

Table 2b. Levy by project.

Project	Total Levy
Cost share (city projects)	\$53,025
Partnership Cost Share	106,050
Total	\$159,075

To: Shingle Creek/West Mississippi WMC Commissioners
From: Todd Shoemaker, PE
Diane Spector
Date: June 3, 2022
Subject: Initiate Minor Plan Amendment for Maintenance Funding

**Recommended
TAC Action**

Staff recommends that each Commission authorize proceeding with the attached Minor Plan Amendment and set the date for the required public meeting as the July 14, 2022, regular meeting.

The Shingle Creek and West Mississippi Third Generation Watershed Management Plan and Capital Improvement Programs (CIP) are proposed for a Minor Plan Amendment (MPA). The Technical Advisory Committee (TAC) and Commission have discussed the proposed modification several times over the last few months, most recently at the May 12, 2022 meeting.

As proposed, the Plan would be revised to add a new project to the Shingle Creek CIP – “Maintenance Fund.” This would create a segregated fund similar to the Cost Share programs that would be funded by an annual levy and would be used for non-structural and maintenance activities to improve or maintain water quality. As we’ve discussed before, these are activities such as ongoing long-term efforts to manage carp or curly-leaf pondweed, which would be the largest need, but also maintenance of fish barriers or BMPs installed as research projects, etc.

If the Commissions choose to go forward with the Minor Plan Amendment, we recommend setting July 14, 2022 as the public meeting at which it would be discussed. At that meeting, the Commissions would consider creating the proposed Fund and adopting the Maintenance Fund Policy.

Attached is the proposed Notice of Minor Plan Amendment. Because you have a joint Plan both Commissions must authorize proceeding with the Minor Plan Amendment. The Commissions must send a copy of the proposed minor plan 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

Notice of Minor Plan Amendment
Shingle Creek and West Mississippi Watershed Management Commissions

The Shingle Creek and West Mississippi Watershed Management Commissions propose to amend their joint *Third Generation Watershed Management Plan* to adopt revisions to Appendix C of that document – the development Rules and Standards – to conform the Rules to the most recent Minnesota General Stormwater Permit and the Minnesota Stormwater Manual and to make other housekeeping revisions.

The proposed minor plan revision is shown as additions (underlined) or deletions (~~strike-outs~~).

Table 4.5. Shingle Creek WMC Third Generation Plan Implementation Plan is hereby revised as follows:

Action	2022
<u>Maintenance Fund</u>	<u>50,000</u>
<u>-Commission Contribution</u>	<u>50,000</u>
<u>-Local Contribution</u>	<u>0</u>

Appendix F, CIP Descriptions is hereby revised as follows to add under Shingle Creek Projects:

Maintenance Fund.

This program makes funds available for nonstructural practices such as, but not limited to, rough fish management; invasive aquatic vegetation control; alum treatment touch-up; native aquatic vegetation translocation; and maintenance of Commission- installed projects for which a member City has not accepted maintenance responsibility.

To: Shingle Creek/West Mississippi WMO Commissioners/TAC

From: Todd Shoemaker PE
Diane Spector
Katie Kemmitt

Date: June 3, 2022

Subject: Fourth Generation Plan Update

**Recommended
Commission
Action**

For discussion and input. Each Commission should consider approving the proposed Contract for Professional Services in the amount of \$27,900, to be funded 50% from each Commission from funds reallocated from their respective Cost Share Programs.

There are three topics to discuss today regarding the Fourth Generation Plan:

- Proposal for Professional Services, SCWM Boundary Changes
- Review of Draft Priorities, Goals, and Policies
- Review of Preliminary CIP and Implementation Plan

SCWM Boundary Change

As we had previously discussed, the 4th General Plan is an opportune time to revisit the watershed boundaries to ensure that they accurately reflect the most current information about drainage between the Shingle Creek and West Mississippi drainage areas and the neighboring Elm Creek, Bassett Creek, and Mississippi WMOs. Updated hydrological modeling, more refined 2-foot LIDAR compared to the old 10-foot topography has revealed a disconnect between the legal boundary and the hydrologic boundaries, compounded by subdivisions of larger, formerly agricultural and rural lots into suburban development.

We have prepared the attached Proposal for Professional Services to complete the work necessary to pursue these boundary revisions. This work will require a substantial effort of reviewing drainage patterns, in some cases reviewing the boundary areas lot by lot. These have not been updated since the Commissions were formed in 1985. In West Mississippi's case, there never was more than a simple hydrologic model available, and the Commission never formally established a hydrological boundary. Shingle Creek's has been updated several times, to develop a watershed-wide HydroCAD model, the watershed XP-SWMM model prepared as part of the chloride TMDL, and most recently updated in the HUC 8 flood hazard study.

Should the Commissions choose to proceed with this work, we recommend that the cost be split equally between the two watersheds. We recommend you reallocate funds from each Commission's Cost Share Projects accounts, both of which are carrying balances well above the maximum recommended by the Cost Share Policy (Shingle Creek has about \$270,000 and West Mississippi has about \$300,000). The TAC will review this proposal at its meeting just prior to the Commission meeting and make a recommendation to you.

Review of Draft Priorities, Goals, and Policies

Based on input received to date going all the way back to the Commissions' and TAC's white board exercises brainstorming priorities, we have developed the attached draft Priorities, Goals, and Policies. We're not wedded to the format; we were just trying to get thoughts and ideas down on paper. Also attached for reference are the current goals and policies from the 3rd Gen Plan.

At the 6/9 meeting we would like to walk through these and discuss any additional ideas the Commissioners or TAC may have so we can continue developing this foundational component of the Plan.

Review of Preliminary CIP and Implementation Plan

Staff continues to flesh out the individual lake and stream resource plans that will help to define both the monitoring program and the implementation plan. As a part of this we will be identifying where such future work as 1) lake internal load feasibility studies; 2) subwatershed assessments; and 3) targeted monitoring might be helpful in the coming ten years. We are also working with the TAC to start to build the CIP for the coming ten years. We will present a draft Implementation Plan at the June 9 meeting.



June 2, 2022

Project/File: 227704733

Mr. Andy Polzin
Shingle Creek WMC Chair
18605 29th Avenue N
Plymouth, MN 55447

Mr. Gerry Butcher
West Mississippi WMC Chair
11467 Preserve Lane N
Champlin, MN 55316

Dear Andy and Gerry,

Reference: Proposal for Shingle Creek and West Mississippi Legal Boundary Update

The purpose of this letter is to provide the Shingle Creek Watershed Management Commission (SCWMC) and West Mississippi Watershed Management Commission (WMWMC) with a scope of work and budget for professional engineering services related to updating the legal boundary of each watershed. This letter outlines the scope of work and budget necessary to petition the Board of Soil and Water Resources (BWSR) for the change and submit supporting documentation. Following the guidance of SCWMC and WMWMC legal counsel, our process will outline the procedure outlined in state statute 103B.

1.1 Budget, Schedule & Deliverables

- **Fee estimate** The cost for Wenck to complete the scope of work detailed below is \$27,900. Subtotals by task are provided below.
- **Schedule** We will complete a draft of the Legal Boundary Report by July 31, 2022 and present results at the August 11, 2022 Commission Meeting.
- **Deliverables**
 - a. Legal boundary report including map(s) to show current hydrologic boundary, current legal boundary, proposed legal boundary, area added to SCWMC and WMWMC, and area removed from SCWMC and WMWMC.
 - b. Petition to BWSR for the boundary change.

1.2 Scope of Work

- **Task 1: Legal Boundary Analysis & Report, \$19,000**
 - a. Use GIS and the best publicly-available parcel, storm sewer, and topographic data.
 - b. Parcels will be considered within the SCWMC or WMWMC if more than 50% of the parcel's area is inside the boundary.
 - c. We will list parcels that may be added or removed from the SCWMC or WMWMC and then review each individually to confirm the proposed legal boundary.
 - d. We will tabulate the number of parcels and acreage that have changed.

Reference: Proposal for Shingle Creek and West Mississippi Legal Boundary Update

- e. Prepare technical memo or report that identifies methods used to update the boundaries and parcels impacted because of the legal boundary change.
- **Task 2: Coordinate with Member Cities and Adjacent Watersheds, \$4,900**
 - a. Prepare “letter of concurrence” template for member cities and adjacent watershed organizations.
 - b. Submit Legal Boundary Report to SCWMC and WMWMC member cities and adjacent watershed organizations.
 - c. Coordinate with city staff and respond to questions.
- **Task 3: Prepare and Submit Petition, \$4,000**
 - a. Prepare petition and submit to legal counsel for review.
 - b. Present proposed boundary changes, letter of concurrence, and petition at SC/WM WMC meeting.
 - c. Submit petition and Legal Boundary Report to BWSR.
 - d. Coordinate with BWSR staff and respond to questions.

1.3 Study Assumptions

- Official parcel boundary survey and editing of current watershed boundary legal description are not required.
- Parcel, storm sewer, and topographic data provided by Hennepin County or member cities.

1.4 Project Team

The following staff have been selected to execute the Scope of Work.

- Project Manager Todd Shoemaker
- Water Resources Lucas Clapp, Sarah Kinney
Engineers
- GIS Specialist Aaron Hyams
- Senior Water Ed Matthiesen, Diane Spector
Resources
Engineer, Planner

On behalf of Stantec, thank you for this opportunity to continue working with the SCWMC and WMWMC. Should you have any questions or need clarification of anything presented in the attached proposal, please do not hesitate to call or email me.

Reference: Proposal for Shingle Creek and West Mississippi Legal Boundary Update

Regards,

STANTEC CONSULTING SERVICES INC.



Todd Shoemaker PE (MN, IA), CFM
Senior Associate, Senior Water Resources Engineer
Phone: (651) 294-4585
Mobile: 612-414-7166
todd.shoemaker@stantec.com

Attachment: [Attachment]

Reference: Proposal for Shingle Creek and West Mississippi Legal Boundary Update

By signing this proposal, _____ authorizes Stantec to proceed
with the services herein described and the Client acknowledges that it has read and agrees to be bound by
our master services agreement.

This proposal is accepted and agreed on the _____ of _____, _____.
Day Month Year

Per: _____
Client Company Name

Print Name & Title

Signature

Priorities

1. Continue to work aggressively toward achieving TMDL lake and stream goals.
2. Foster completion of TMDL and other implementation projects by identifying improvements, sharing in their cost, and proactively seeking grant funds.
3. Expand the public education and outreach program to reach more stakeholders, including historically underrepresented groups.
4. ?

4th Gen goals and policies and relationship to implementation plan.

Goals	Policies	How Measured	Implementation Actions
1. Protect, maintain, and improve the water quality and ecological integrity of the water and natural resources within the watersheds and the downstream receiving waters	a. Manage the surface water resources of the watershed to meet or exceed state standards. b. Implement load reduction actions sufficient to achieve de-listing from the Impaired Waters list for Eagle, Crystal, and Middle Twin Lakes. c. Make progress toward achieving the state standards in the other lakes and streams in the watersheds. d. Maintain as feasible no net loss of wetland acreage and functions and values.	<ul style="list-style-type: none"> • Water quality trends • Load reductions achieved through BMPs • IBI metrics • WCA reporting 	<ul style="list-style-type: none"> • Routine flow, water quality, and biologic monitoring • Pre- and post-construction performance monitoring • WCA administration
2. Reduce stormwater runoff rates and volumes to limit flood risk, protect conveyance systems, and the future costs of stormwater management systems.	a. Maintain the existing 100-year flood profile throughout the watersheds b. Administer rules and standards requiring new development and redevelopment to control the rate and volume of runoff and loading of pollutants from their sites, and	<ul style="list-style-type: none"> • Assess change as the H & H models are updated • Annual report of rate, volume, and load reductions 	<ul style="list-style-type: none"> • Periodically update H & H modeling • Review and update rules as needed • Undertake resiliency modeling of various future precipitation pattern scenarios

Goals	Policies	How Measured	Implementation Actions
	<p>update those standards as necessary</p> <p>c. Understand the impacts of climate change on water resources and develop strategies to appropriately manage future impacts.</p> <p>d. Continue current Hennepin County jurisdiction over County Ditch #13</p>		
<p>3. Educate and engage all stakeholders in the watersheds on surface water issues and opportunities</p>	<p>a. Operate a public education and outreach program that meets the NPDES Phase II education requirements for the member cities</p> <p>b. Incorporate equity principles of diversity, equity, inclusion, and access into watershed programs and projects</p>	<ul style="list-style-type: none"> • Number of participants in community events • Website and social media usage 	<ul style="list-style-type: none"> • Continue working with WMWA and expand offerings to include a dedicated shared education and outreach specialist • Supplement WMWA education and outreach activities as necessary to meet the unique needs of the watersheds • Partner with organizations such as Metro Blooms to enhance outreach and engagement to underrepresented groups • Require the preparation of a Community Engagement Plan for each proposed Commission-funded improvement, including a Racial Impact Equity Analysis

Principles

- 1) Share in their cost of TMDL and other implementation projects in accordance with the Cost Share Policies
- 2) Proactively seek grant funds for implementation
- 3) Operate a monitoring program sufficient to characterize water quantity, water quality, and biotic integrity in the watersheds and to evaluate progress toward meeting TMDL goals.
- 4) Periodically update progress toward meeting TMDLs
- 5) Work with the appropriate state agencies to incorporate groundwater assessments as necessary
- 6) Maintain updated hydrologic, hydraulic, and water quality models for the water resources in the watersheds
- 7) Promote the mitigation of proposed wetland impacts within the respective watershed
- 8) Serve as a technical resource for member cities
- 9) Continue research projects on innovative and cost-effective stormwater management practices and technologies.

Priorities from the original whiteboarding exercise:

- 1) Chloride
- 2) Outreach & education
- 3) Delist
- 4) Climate vulnerability
- 5) Feasibility studies through project implementation
- 6) Trying to continue to make progress
- 7) Partnerships with lake assns.
- 8) Commissioner education
- 9) More subwatershed assessments

THIRD GENERATION MANAGEMENT PLAN PRIORITIES

1. Work aggressively toward achieving TMDL lake and stream goals
2. Revise the Rules and Standards to achieve more load and runoff volume reduction
3. Expand the public education and outreach program to reach more stakeholders
4. Retrofit BMPs in developed areas in the most cost-effective way
5. Develop a whole-watershed sustainable water budget.

Goal Area A. Water Quantity

Goal A.1. Maintain the existing 100-year flood profile throughout the watersheds.

Goal A.2. Determine ecological low flows for Shingle and Bass Creeks

Actions:

- a. Maintain and update as necessary a calibrated hydraulic model of Shingle Creek and its tributaries
- b. Maintain rules and standards requiring new development and redevelopment to control the rate and volume of runoff discharged from their sites, and update those standards as necessary.
- c. Develop a sustainable water budget for each watershed and an action plan for management activities necessary for its achievement

Goal Area B. Water Quality

Goal B.1. As lake water quality improves and lakes are removed from the State's Impaired Waters list, implement management strategies to protect lake water quality. It is anticipated that Schmidt, Lower Twin, and Ryan Lakes will be removed in 2014.

Goal B.2. Implement phosphorus and sediment load reduction actions sufficient to achieve delisting from the Impaired Waters list for Bass, Eagle, Crystal, and Middle Twin Lakes.

Goal B.3. Improve water clarity in the balance of the lakes by 10% over the average of the previous ten years.

Goal B.4. Improve at least 30% of the length of Shingle Creek to meet Corridor Study and TMDL design standards.

Goal B.5. Maintain nondegradation of all waterbodies compared to 1985 conditions.

Actions:

- a. Maintain and update as necessary calibrated P8 models for each lakeshed in Shingle Creek and the major drainage areas of West Mississippi.
- b. Maintain rules and standards requiring new development and redevelopment to control the total phosphorus and total suspended solids discharged from their sites, and update those standards as necessary.
- c. Conduct an intensive BMP assessment for at least 25% of that part of the watershed that developed prior to Commission rules in 1984, and achieve 25% of the recommended load reduction within 10 years of the analysis.

- d. Contribute 25% of the cost of TMDL capital implementation projects (up to \$250,000).
- e. Pursue grant and other funding to implement improvement projects and feasibility studies.
- f. Prepare and implement an Annual Monitoring Plan and conduct monitoring necessary to evaluate water quality conditions and trends in the lakes and streams in the two watersheds.
- g. Evaluate progress toward achieving TMDL goals every five years following adoption of the respective Implementation Plans.

Goal Area C. Groundwater

Goal C.1. Infiltrate stormwater runoff from new impervious surface.

Goal C.2. Identify opportunities for and implement projects to infiltrate runoff from existing impervious surface.

Goal C.3. Work with the appropriate state agencies to incorporate groundwater assessment into the sustainable water budget analysis for each watershed

Actions:

- a. Maintain rules and standards requiring new development and redevelopment to abstract or infiltrate stormwater runoff from new impervious surface, and update those standards as necessary.
- b. Conduct an intensive BMP assessment for at least 25% of that part of the watershed that developed prior to Commission rules in 1984, and achieve 25% of the recommended volume reduction within 10 years of the analysis.
- c. Coordinate with the Minnesota DNR and other agencies to develop an action plan addressing surficial groundwater elevation issues in northern Brooklyn Park and the associated impacts on wetlands and Lake Success

Goal Area D. Wetlands

Goal D.1. Maintain the existing functions and values of wetlands identified in the Commissions' Water Quality Plan as high-priority.

Goal D.2. Informed by the sustainable water budget study, improve functions and values of wetlands.

Actions:

- a. Adopt a wetland replacement sequencing policy.
- b. Identify wetland restoration opportunities and implement projects to restore wetland functions and values or to create new wetland acreage.

Goal Area E. Drainage Systems

Goal E.1. Continue current Hennepin County jurisdiction over County Ditch #13

Actions:

- a. Periodically reconsider the appropriate jurisdiction over County Ditch #13.

Goal Area F. Commission Operations and Programming

- Goal F.1. Identify and operate within a sustainable funding level that is affordable to member cities.
- Goal F.2. Foster implementation of TMDL and other implementation projects by sharing in their cost and proactively seeking grant funds.
- Goal F.3. Operate a public education and outreach program that meets the NPDES Phase II education requirements for the member cities.
- Goal F.4. Operate a monitoring program sufficient to characterize water quantity, water quality, and biotic integrity in the watersheds and to evaluate progress toward meeting TMDL goals.
- Goal F.5. Maintain rules and standards for development and redevelopment that are consistent with local and regional TMDLs, federal guidelines, source water and wellhead protection requirements, sustainable water yields, nondegradation, and ecosystem management goals.
- Goal F.6. Serve as a technical resource for member cities.

Actions:

- a. Annually review the budget and Capital Improvement Program.
- b. Maintain an Education and Public Outreach Committee (EPOC) that is charged with developing and implementing an annual education and outreach plan.
- c. Prepare and implement an annual monitoring plan and summarize the results in an annual water quality report.
- d. According to the schedules set forth in TMDL Implementation Plans, every five years evaluate progress toward meeting TMDL water quality goals, and adjust the Implementation Plans as necessary to achieve progress.
- e. Every five years or as necessary review the development rules and standards for adequacy and make revisions as necessary.
- f. Continue research projects on innovative and cost-effective stormwater management practices and technologies.
- g. Coordinate water resources management between the Commissions and the member cities.



United States Department of the Interior

U.S. GEOLOGICAL SURVEY
Upper Midwest Water Science Center

Minnesota Office
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Mounds View, MN 55112
763.783.3100

Wisconsin Office
1 Gifford Pinchot Drive
Madison, WI 53726
608.828.9901

Michigan Office
5840 Enterprise Drive
Lansing, MI 48911
517.887.8903

May 31, 2022

Ms. Judie Anderson
Elm Creek Watershed Management Commission &
Shinglecreek Watershed Management Board
3235 Fernbrook Lane
Plymouth, MN 55447

Dear Ms. Anderson:

Attached are the signed originals of our standard joint-funding agreement for Elm Creek Conservation Management for the operation and maintenance of a gaging station and water-quality sampling on Elm Creek near Champlin, during the period October 1, 2021 through September 30, 2023 in the amount of \$44,900 from your agency. U.S. Geological Survey contributions for this agreement are \$39,800 for a combined total of \$84,700. Also the Shingle Creek Watershed Commission for the operation, and maintenance of specific conductance and water temperature monitoring instrumentation at Shingle Creek at Queen Avenue in Minneapolis, during the period October 1, 2021 through September 30, 2023 in the amount of \$7,600 from your agency. U.S. Geological Survey contributions for this agreement are \$6,906 for a combined total of \$14,506. Please sign and return one fully-executed original of each to Lisa L Syde-Hagen at lsyde-hagen@usgs.gov.

This is a fixed cost agreement to be billed quarterly via Down Payment Request (automated Form DI-1040). Please allow 30-days from the end of the billing period for issuance of the bill. If you experience any problems with your invoice(s), please contact Angela Hughes by email at amhughes@usgs.gov.

The results of all work performed under this agreement will be available for publication by the U.S. Geological Survey. We look forward to continuing this and future cooperative efforts in these mutually beneficial water resources studies.

Sincerely,

**JOHN
WALKER**

John F. Walker
Center Director

Digitally signed by
JOHN WALKER
Date: 2022.05.31
15:28:58 -05'00'

U.S. Department of the Interior
U.S. Geological Survey
Joint Funding Agreement
FOR
Water Resource Investigations

Customer #: 6000001443
Agreement #: 22NKJFA209
Project #: NK00-LZN03
TIN #: 41-1500004

Fixed Cost Agreement YES[X] NO[]

THIS AGREEMENT is entered into as of the October 1, 2021, by the U.S. GEOLOGICAL SURVEY, Minnesota Water Science Center, UNITED STATES DEPARTMENT OF THE INTERIOR, party of the first part, and the Shingle Creek Watershed Commission party of the second part.

1. The parties hereto agree that subject to the availability of appropriations and in accordance with their respective authorities there shall be maintained in cooperation the operation, and maintenance of specific conductance and water temperature monitoring instrumentation at Shingle Creek at Queen Avenue in Minneapolis, herein called the program. The USGS legal authority is 43 USC 36C; 43 USC 50, and 43 USC 50b.

2. The following amounts shall be contributed to cover all of the cost of the necessary field and analytical work directly related to this program. 2(b) include In-Kind-Services in the amount of \$0.00

- (a) \$6,906 by the party of the first part during the period
October 1, 2021 to September 30, 2023
- (b) \$7,600 by the party of the second part during the period
October 1, 2021 to September 30, 2023
- (c) Contributions are provided by the party of the first part through other USGS regional or national programs, in the amount of: \$0

Description of the USGS regional/national program:

- (d) Additional or reduced amounts by each party during the above period or succeeding periods as may be determined by mutual agreement and set forth in an exchange of letters between the parties.
- (e) The performance period may be changed by mutual agreement and set forth in an exchange of letters between the parties.

3. The costs of this program may be paid by either party in conformity with the laws and regulations respectively governing each party.

4. The field and analytical work pertaining to this program shall be under the direction of or subject to periodic review by an authorized representative of the party of the first part.

5. The areas to be included in the program shall be determined by mutual agreement between the parties hereto or their authorized representatives. The methods employed in the field and office shall be those adopted by the party of the first part to insure the required standards of accuracy subject to modification by mutual agreement.

6. During the course of this program, all field and analytical work of either party pertaining to this program shall be open to the inspection of the other party, and if the work is not being carried on in a mutually satisfactory manner, either party may terminate this agreement upon 60 days written notice to the other party.

7. The original records resulting from this program will be deposited in the office of origin of those records. Upon request, copies of the original records will be provided to the office of the other party.

8. The maps, records or reports resulting from this program shall be made available to the public as promptly as possible. The maps, records or reports normally will be published by the party of the first part. However, the party of the second part reserves the right to publish the results of this program, and if already published by the party of the first part shall, upon request, be furnished by the party of the first part, at cost, impressions suitable for purposes of reproduction similar to that for which the original copy was prepared. The maps, records or reports published by either party shall contain a statement of the cooperative relations between the parties. The Parties acknowledge that scientific information and data developed as a result of the Scope of Work (SOW) are subject to applicable USGS review, approval, and release requirements, which are available on the USGS Fundamental Science Practices website (<https://www2.usgs.gov/fsp/>).

U.S. Department of the Interior
U.S. Geological Survey
Joint Funding Agreement
FOR
Water Resource Investigations

Customer #: 6000001443
Agreement #: 22NKJFA209
Project #: NK00-LZN03
TIN #: 41-1500004

9. Billing for this agreement will be rendered **annually**. Invoices not paid within 60 days from the billing date will bear Interest, Penalties, and Administrative cost at the annual rate pursuant the Debt Collection Act of 1982, (codified at 31 U.S.C. § 3717) established by the U.S. Treasury.

USGS Technical Point of Contact

Name: James Fallon
Supervisory Hydrologist
Address: 2280 Woodale Drive
Mounds View, MN 55112
Telephone: (763) 783-3255
Fax: (763) 783-3103
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Customer Technical Point of Contact

Name: Judie Anderson
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Plymouth, MN 55447
Telephone: (763) 553-1144
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Email: judie@jass.biz

USGS Billing Point of Contact

Name: Angela Hughes
Admin. Operations Asst.
Address: 2280 Woodale Drive
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Telephone:
Fax:
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Customer Billing Point of Contact

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Fax: (763) 553-9326
Email: judie@jass.biz

U.S. Geological Survey
United States
Department of Interior

Shingle Creek Watershed Commission

Signature

Signatures

By _____ Date: _____
Name: John F. Walker
Title: Center Director

By _____ Date: _____
Name:
Title:

By _____ Date: _____
Name:
Title:

By _____ Date: _____
Name:
Title:

To: Shingle Creek WMO Commissioners/TAC

From: Todd Shoemaker, P.E.
Diane Spector
Katie Kemmitt

Date: June 3rd, 2022

Subject: Grant projects update

Recommended Commission Action	Review updates for Crystal Lake Management Plan and Bass Lake Vegetation Improvements grant projects
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Crystal Lake Management Plan

Carp removals on Crystal Lake in 2021 were extremely successful, with over 3,900 carp removed (an estimated ~33% of the lake’s population), moving the lake closer to improved water quality. The first of two alum treatments was applied successfully in September 2021. Activities at the lake for 2022 are underway. Netting equipment to capture common carp was set up in the lake on June 2nd, 2022. Up to four carp removal events will occur between now and the end of summer. An updated population estimate will be made with data collected during carp removals. The second of the two alum treatments is planned for Fall 2022. Staff will be working with the City of Robbinsdale to coordinate the second alum treatment.

Bass Lake Vegetation Improvements

The Commission has successfully improved water quality and clarity on Bass Lake in Plymouth, MN through the Bass and Pomerleau Lakes Alum Project. Water quality is the best it has been in decades and both lakes are to be delisted; however, the native aquatic plant community appears to be limited. Curly-leaf pondweed (CLP) is still present in the lake in significant areas, and overall native species diversity is low. The Commission recently was awarded a DNR Conservations Partners Legacy Grant (CPL) to complete vegetation transplanting in the lake that will help restore the native plant community. As of June 2nd, 2022 the grant has been executed and work can begin. Staff will be working with the DNR and the Bass Lake Association to plan and execute two vegetation transplanting events in Summer 2022. Staff will monitor the success of the plantings in Summer 2022 and 2023 using standard survey techniques.



SHINGLE CREEK / WEST MISSISSIPPI WATERSHED MANAGEMENT COMMISSION
MONTHLY COMMUNICATION LOG
May 2022

Date	From	To	SC	WM	Description
5-2-2022	Della Young, Young ECG	Diane Spector	X		Request for more information about the area draining to Twin Lake for a Hennepin County project
5-4-2022	Diane Spector	Steve Christopher, BWSR	X		Supporting documentation for the Palmer Creek Channel stabilization CWF grant work plan
5-5-2022	Shahram Missaghi	SCWMWMC	X		Notice of a June 9 City of Minneapolis public hearing seeking input into the City's SWMP.
5-6-2022	Ellen Sones, Hennepin County	Todd Shoemaker	X		Henn Cty Rockford Road library site will be improved in next 1-2 years. Ellen was interested in stormwater management requirements for the site, what was done at adjacent Crystal City Hall project for stormwater, and potential grant funding from Commission.
5-6-2022	Met Council	SCWM WMC	X		2022 CAMP contract for execution
5-9-2022	Champlin resident	WM WMC		X	Comment posted on the SCWM website with a number of questions about stormwater. Champlin is on it.
5-10-2022	Mary Karius, HCEE	SCWM WMC	X	X	Notice from Hennepin County that they are discontinuing the Wetland Health Evaluation Program (WHEP) volunteer initiative effective immediately.
5-11-2022	Joe Mulcahey, Met Council	SCWM WMC	X	X	Met Council has no comments on the proposed Minor Plan Amendment
5-16-2022	Griffin Dempsey, BKBM	Todd Shoemaker	X		Questions about stormwater standards for St. Terese development
5-25-2022	Richard Kiesling	Ed Matthiesen, Andy Polzin	X		Request commission support for re-application to the Environmental and Natural Resources Trust Fund 2023 Request for Proposals Regarding the Project, "Removing CECs from Stormwater with Biofiltration"
5-26-2022	Dan Sjoblom, Alliant Engineering	Todd Shoemaker	X		Endeavor Development submitted a complete project review application on April 28, 2022. Sixty calendar-days expires on 6/27/2022. Therefore, the Commission must approve or deny this project no later than the 6/9/2022 meeting to comply with the 60-day review requirement unless an extension is granted. In an email to Todd Shoemaker, the applicant acknowledged some site changes are still occurring, and therefore, requested an additional 60 days for this project review. Stantec therefore extended the review deadline to August 26, 2022, which requires Commission action at the August 11, 2022 meeting.