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A meeting of the joint Technical Advisory Committee (TAC) of the Shingle Creek and West Mississippi Watershed Management Commissions is scheduled for 8:30 a.m., Thursday, October 25, 2018, at Crystal City Hall, 4141 Douglas Drive North, Crystal, MN. We will meet in the upstairs conference room.

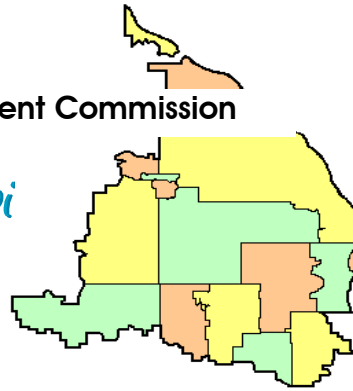
#### A G E N D A

Meeting docs (\*) will be posted on the website at  
<http://www.shinglecreek.org/tac-meetings.html>

1. Approve agenda\*
  
2. Approve Minutes of May 24, 2018 meeting\*
  
3. Potential CIP Projects
  
4. Cost-Share Program Potential Projects
  
5. Other business.
  
6. Next meeting \_\_\_\_\_

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\*in meeting packet \*\* available at the meeting



**MINUTES**  
May 24, 2018

A meeting of the Technical Advisory Committee (TAC) of the Shingle Creek and West Mississippi Watershed Management Commissions was called to order by Chairman Richard McCoy at 8:31 a.m., Thursday, May 24, 2018, at Crystal City Hall, 4141 Douglas Drive North, Crystal, MN.

Present were: Andrew Hogg, Brooklyn Center; Mitch Robinson, Brooklyn Park; Mark Ray, Crystal; Rick Lestina, Maple Grove; Liz Stout, Minneapolis; Ben Scharenbroich, Plymouth; Richard McCoy and Marta Roser, Robbinsdale; Ed Matthiesen and Diane Spector, Wenck Associates, Inc.; and Judie Anderson, JASS.

Not represented: Champlin, New Hope, and Osseo.

- I. Motion by Ray, second by Hogg to **approve the agenda**. *Motion carried unanimously.*
- II. Motion by Ray, second by Scharenbroich to **approve the minutes** of the March 29, 2018 meeting.\* *Motion carried unanimously.*

[Lestina arrived 8:32 a.m.]

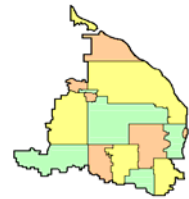
**III. Project Review Fee Analysis.\***

Staff have reviewed 2017 and 2018 to date projects review costs to assess the adequacy of the review fees. These costs are likely a bit underestimated. On their timesheets Wenck staff log comments for each entry, and entries are at times less descriptive than they might be. Their timesheet system has been revised so that individual job numbers are assigned to each project review for better tracking in the future. They included in their analysis some other review-type activations for projects either well in advance of the project review, or where no project review fee was required. The “General or unknown” category included activities that were either general inquires or assistance, or were for project reviews when it was not possible to determine which one based on the timesheet comments.

General expenses of note in 2017 included: floodplain inquiries, review Crystal code changes, groundwater appropriation permits, review MPARS permits, Brooklyn Park parks master planning, HWL Bass Lake. We also noted some other significant review-type activities that are for projects either well in advance of the project review, or where no project review fee was required. The review fees are not intended to fully recover all project review costs, but the fees collected for formal project reviews should *on average* recover the cost of completing formal project reviews

In their May 18, 2018 memo, Staff provided a listing of the various projects, costs and fees for both Shingle Creek and West Mississippi. While several project reviews required a greater level of effort and cost more than the fee imposed, on average the fee schedule appears to be adequate to recoup those costs.

Motion by Scharenbroich, second by Stout to recommend to the Commissions to not raise the project review fees at this time. *Motion carried unanimously.*



**Table 1. Shingle Creek project review costs and fees.**

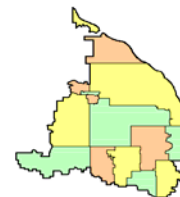
SC Projects	Project	Billing	Fee
2016-008	Hyvee Robbinsdale	2,624.90	2,200
2017-001	Waters Edge 2nd Addn	520.20	1,700
2017-002	Donegal South	479.40	2,200
2017-003	Joslyn Remediation Site	3,268.90	3,700
2017-004	Mills Creek	1,543.80	2,200
2017-005	Edgewood Education Center	1,310.30	2,200
2017-006	HOM Furniture	3,493.20	2,200
2017-007	Arbor Lakes Business Park Bldg A	919.80	3,000
2017-008	New Hope City Hall	3,138.40	2,200
2017-xxx	C Line Bus Rapid Transit	1,228.80	-
2016-010	Lupient Collision Center	3,726.00	2,200
General or unknown		7,754.30	
None	CSAH 81	3,226.40	
None	Brooklyn Blvd	412.90	
None	Northland Inn	989.40	
None	Broadway	640.20	
None	2700 Freeway Blvd	873.00	
2018-001	Crystal Mac Nature Trail Improvements	2,151.80	1,100
2018-002	Arbor Lakes Buildings C and D	702.90	3,000
2018-003	Village at Arbor Lakes	727.50	3,000
2018-004	Park 81	1,897.00	3,000
2018-005	Luther Mazda Mitsubishi	1,292.40	2,200
2018-006	Outdoor Storage and Impound Lot	1,684.40	1,700
2018-007	Lower Twin Lake Boat Launch	1,096.20	1,700
2018-008	Arbor Lakes Bus Park Streets and Utilities	742.40	1,100
2018-009	Public Storage Zachary Lane	168.00	
General or unknown		5,245.20	
Total Project Reviews		32,716.30	40,600
Total All Projects		51,857.70	40,600

**Table 2. West Mississippi project review costs and fees.**

WM Projects	Project	Billing	Fee
2017-001	TH 169, Champlin	5,148.20	1,100
2017-002	610 Commerce Center Phase 2	2,410.00	2,200
2017-003	Zachary Lane Retail	857.40	1,700
2017-004	Amesbury Place	1,102.20	2,200
2017-005	The Cove at Northwoods	2,210.50	1,800
2017-006	The Cove at Brittany Park	1,188.60	1,500
2017-007	Top Golf	2,735.60	2,200
2017-008	Applewood Pointe	617.10	2,200
2017-009	Capstone Quad A & B	4,407.10	2,200
2017-010	Rainbow Child Care	1,150.50	1,700
None	St Vincent de Paul	785.00	
General or unknown		3,077.80	
Total Project Reviews		21,827.20	18,800
Total All Projects		25,690.00	18,800

**IV. Cedar Island-Eagle-Pike Lakes TMDL 5-Year Review.\***

Wenck staff are close to finishing the TMDL 5-year review study for Cedar Island, Pike, and Eagle Lakes. Modeling has been completed, and a draft report will be submitted to the Commission by the end of the month. Their presentation, along with their May 18, 2018 memo, summarizes the modeling results and findings of the 5-year review for each lake, showing original (1999), current (2000-2017) and allowable loads.



The Cities of Maple Grove and Plymouth and the SCWM TAC have reviewed and discussed the data and potential future actions. Priorities for Cedar Island, Pike, and Eagle Lakes for the next five years will be:

1. Identify the source of residual load in Cedar Island Lake.
  - a. Investigate the potential for boating/recreation as a loading source.
  - b. Collect additional sediment core(s) to evaluate whether the cores collected in 2011 are representative of the entire lake.
2. Reduce internal load released by sediments in Pike Lake.
3. Develop and implement balanced short- and long-term aquatic vegetation and fish management plans for each lake.
  - a. Perform aquatic vegetation surveys for Cedar Island Lake.
  - b. Develop plan to treat/manage CLP in Eagle and Pike Lakes.
    - 1) Explore iron amendments as a potential BMP to reduce CLP density and internal loading from the sediments in selected shallow areas.
    - 2) Conduct common carp population assessment in 2018, adjustment management strategies as needed depending assessment results
    - 3) Consider future fish surveys for Pike and Cedar Island Lakes during reference period.
4. Continue to reduce watershed load to all three lakes by adding new BMPs, enhancing existing treatment BMPs and by increasing infiltration of runoff.
5. Complete subwatershed assessments for the Maple Grove portion of Cedar Island, Pike and Eagle Lakes.
6. Undertake targeted monitoring to better understand sources of watershed load.

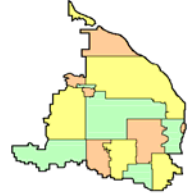
V. At the March TAC meeting, Lestina inquired about the Commission's possible involvement in improving the **Eagle Lake channel**.\* He reported that Maple Grove has performed all of the remediation possible to prevent flooding and shoreline erosion. He expressed a desire to collaborate with the City of Brooklyn Park to conduct the necessary channel maintenance to complete this process. Matthiesen will work with Robinson to develop a work plan. This is a winter project.

#### VI. Watershed-based Funding Pilot Project.

A. The Hennepin County Convening Meeting for the Board of Water and Soil Resources (BWSR) Watershed-Based Funding Pilot Program was held on May 16, 2018, at the Plymouth Library. At that meeting, it was the consensus of the group to set aside 10%, or \$101,800, of the funds for chloride management activities. No agreement was reached as to what those activities would be or who will take the lead on developing a more detailed work plan. It is likely that Hennepin County will convene a steering committee which will develop the plan and how it will be implemented.

After discussion regarding the priorities developed by the informal basin groups, it was the consensus that, while the idea of basin-based allocation and funding was reasonable, too little time was available to adequately debate and agree on desired outcomes and selection criteria. For this pilot program it was the consensus to proceed with Option 3 (allocate the full amount to WMOs based on 50% land area / 50% tax base, less the 10%), but if funding is available beyond this first biennial pilot, the group was open to exploring the basin-based approach.

B. The members, several of whom attended the May 16 meeting, discussed how the estimated \$68,120 for Shingle Creek and \$35,420 for West Mississippi would best be used. It was the consensus of the group that, since the funds were limited to actions on the Commissions' CIP and plan, their recommendation to the Commissions be that each Commission use the funds to supplement the Cost Share Program for small BMP retrofits.



It was also agreed to recommend that the two Commissions could combine their monies. Motion by Scharenbroich, second by Lestina to forward these recommendations to the Commissions. *Motion carried unanimously.*

**VII. Other Business.**

**A.** Staff brought forward their concerns re the current **regular meeting location**. The members supported the researching of alternative lunch site options.

**B.** The **next meeting** of the Technical Advisory Committee is scheduled for June 28, 2018, at 8:30 a.m. at Crystal City Hall.

**C.** The meeting was adjourned at 9:57 a.m.

Respectfully submitted,

A handwritten signature in black ink that reads "Judie A. Anderson". The signature is written in a cursive style.

Judie A. Anderson  
Recording Secretary

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### Available City Cost-Share Funds

Commission	Estimated Commission Funds 12/31/18	BWSR Funds	Total
Shingle Creek	\$172,000*	\$68,000**	\$240,000
West Mississippi	\$200,000*	\$35,000**	\$235,000

\*Requires 50% match

\*\*Requires minimum 25% match

### Cost-Share Process

1. Open applications until funds are encumbered

### CIP Process

1. Commissions can move projects year to year, revise cost freely
2. Projects can be modified or added using a Minor Plan Amendment
3. MPA Process:
  - a. TAC reviews projects and makes recommendation to Commissions
  - b. Proposals reviewed with BWSR and county for concurrence
  - c. Commission calls for a public meeting (30 day notice)
  - d. Discussed at public meeting, Commissions take action to adopt subject to county approval
  - e. County staff either approve administratively or it goes to the county board for final approval

### Outstanding 3<sup>rd</sup> General Plan Goals

- 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. **Completed!**
- Goal B. 2. Implement phosphorus and sediment load reduction actions sufficient to achieve de-listing from the Impaired Waters list for Bass, Eagle, Crystal, and Middle Twin Lakes. **Bass scheduled for alum treatment in 2019.**
- Goal B. 3. Improve water clarity in the balance of the lakes by 10% over the average of the previous ten years. **No significant trend in most lakes, but have reduced TSS and TP in Shingle Creek.**
- Goal B. 4.** Improve at least 30% of the length of Shingle Creek to meet Corridor Study and TMDL design standards. **As of 2018, 3.09 miles, or 27% of the 11.15 miles have been restored. Almost there!**
- Goal A. 1. Determine ecological low flows for Shingle and Bass Creeks.
- Goal C. 1. Work with the appropriate state agencies to incorporate groundwater assessment into the sustainable water budget analysis for each watershed.
- Goal D. 1. Informed by the sustainable water budget study, improve functions and values of wetlands.

**Shingle Creek WMO Most Current CIP**

CAPITAL IMPROVEMENT PROGRAM	2018	2019	2020	2021	2022
Cost Share Program	200,000	200,000	200,000	200,000	200,000
Commission Contribution	100,000	100,000	100,000	100,000	100,000
Local Contribution	100,000	100,000	100,000	100,000	100,000
Partnership Cost-Share BMP Projects	100,000	100,000	100,000	100,000	100,000
Commission Contribution	50,000	50,000	50,000	50,000	50,000
Local Contribution	50,000	50,000	50,000	50,000	50,000
Lake Internal Load Improvement Project			200,000		200,000
Commission Contribution			200,000		200,000
Local Contribution			0		0
Bass and Pomerleau Lakes Alum Treatment Project	390,000				
-Commission Contribution	390,000				
-Local Contribution	0				
SRP Reduction Project	124,680				
-Commission Contribution	124,680				
-Local Contribution	0				
Shingle Creek or Bass Creek Restoration Project		500,000			
Commission Contribution		125,000			
Local Contribution		375,000			
Becker Park Infiltration Project	2,500,000				
Commission Contribution	250,000				
Local Contribution	2,250,000				
Maple Grove Pond P57		648,000			
Commission Contribution		162,000			
Local Contribution		486,000			
Maple Grove Pond P33		574,000			
Commission Contribution		143,500			
Local Contribution		430,500			
Shingle Creek Brookdale Park Habitat Enhancement		150,000			
Commission Contribution		37,500			
Local Contribution		112,500			
Minneapolis Webber Park Stream Restoration		500,000			
Commission Contribution		125,000			
Local Contribution		375,000			
Minneapolis Flood Area 5 Water Quality Projects		6,000,000			
Commission Contribution		250,000			
Local Contribution		5,750,000			
Maple Grove Pond P55			855,000		
Commission Contribution			213,800		
Local Contribution			641,200		
Shingle Creek Restoration, Regent to Brooklyn Blvd			400,000		
Commission Contribution			100,000		
Local Contribution			300,000		

CAPITAL IMPROVEMENT PROGRAM	2018	2019	2020	2021	2022
Palmer Creek Estates Bass Creek Restoration				450,000	
Commission Contribution				112,500	
Local Contribution				337,500	
<b>TOTAL PROJECT COST</b>	<b>3,314,680</b>	<b>8,672,000</b>	<b>1,755,000</b>	<b>750,000</b>	<b>500,000</b>
<b>TOTAL COMMISSION SHARE</b>	<b>914,680</b>	<b>993,000</b>	<b>63,800</b>	<b>262,500</b>	<b>350,000</b>
<b>TOTAL CITY SHARE</b>	<b>2,400,000</b>	<b>7,679,000</b>	<b>1,091,200</b>	<b>487,500</b>	<b>150,000</b>

#### West Mississippi WMO Most Current CIP

CAPITAL IMPROVEMENT PROGRAM	2018	2019	2020	2021	2022
Cost Share Program	100,000	100,000	100,000	100,000	100,000
Commission Contribution	50,000	50,000	50,000	50,000	50,000
Local Contribution	50,000	50,000	50,000	50,000	50,000
Mississippi Crossings Phase B Infiltration Vault		200,000			
Commission Contribution		50,000			
Local Contribution		150,000			
Champlin Woods Trail Rain Gardens		180,000			
Commission Contribution		45,000			
Local Contribution		135,000			
Wetland Restoration Project		250,000			
Commission Contribution		62,500			
Local Contribution		187,500			
<b>TOTAL PROJECT COST</b>	<b>100,000</b>	<b>730,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>
<b>TOTAL COMMISSION SHARE</b>	<b>50,000</b>	<b>207,500</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>
<b>TOTAL CITY SHARE</b>	<b>50,000</b>	<b>522,500</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>