

July 7, 2022

Commissioners  
Members Technical Advisory Committee  
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>

Dear Commissioners and Members:

Regular meetings of the Shingle Creek and West Mississippi Watershed Management Commissions will be held **Thursday, July 14, 2022**, in the downstairs Community Room in Crystal City Hall, 4141 Douglas Drive. Lunch will be served at 12:00 noon and the meetings will convene concurrently at 12:45.

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

The Commissions will suspend their meetings at 12:45 p.m. for the purpose of conducting a public meeting on a proposed Minor Amendment to the Shingle Creek/West Mississippi Third Generation Watershed Management Plan. The regular meetings will resume immediately after the public meeting concludes.

We will be ordering lunch from Davanni's this month. Please make your meal choice from the items below and email me at [judie@jass.biz](mailto:judie@jass.biz) to confirm your attendance and your meal selection by **3:00 p.m., Tuesday, July 12, 2022.**

Thank you.

Regards,

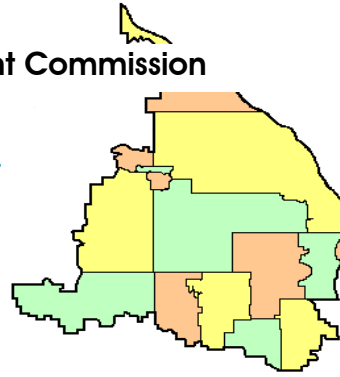
Judie A. Anderson  
Administrator

cc:	Alternate Commissioners	Member Cities	Troy Gilchrist	TAC Members
	Stantec Consulting Services	BWSR	MPCA	HCEE
	Metropolitan Council	DNR		

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**Items 1-6 are deli sandwich box lunches / choice of white or grain bun. Item 7, please specify choice of dressing.**

- |              |  |
|--------------|--|
| ① Turkey     | ⑤ Club – turkey, bacon, pepperoni, lettuce, onion, tomato  |
| ② Roast beef | ⑥ Veggie-lettuce, tomato, cucumber, onion, green & red pepper, cheese, mayo, olives, pizza sauce |
| ③ Ham        | ⑦ Garden Salad – cucumber, tomato, gr pepper, red onion, broccoli, cheddar cheese, croutons      |
|              | ⑧ Caesar Salad with or without Chicken   |

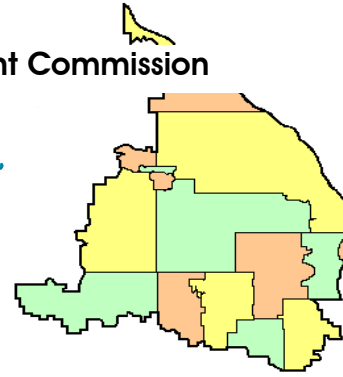


A meeting of the joint Technical Advisory Committee (TAC) of the Shingle Creek and West Mississippi Watershed Management Commissions is scheduled for **11:00 a.m., Thursday, July 14, 2022**, in the Community Room at Crystal City Hall..

### **A G E N D A**

1. Call to Order.
  - a. Roll Call.
  - b. Approve Agenda.\*
  - c. Approve Minutes of Last Meeting.\*
2. Fourth Generation Plan Update.\*
  - a. Boundary Adjustments.\*
  - b. Draft Priorities and Goals.\*
  - c. Preliminary CIPs and Implementation Plan.
    - 1) Draft SC CIPs.\*
    - 2) Draft WM CIPs.\*
3. Grant Opportunities -Clean Water Fund Grant Solicitation.
4. Other Business.
5. Next TAC meeting is scheduled for August 11, 2022, at \_\_\_\_ o'clock.
6. Adjournment.

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**MINUTES**  
**Technical Advisory Committee**  
**June 9, 2022**

A meeting of the Technical Advisory Committee (TAC) of the Shingle Creek and West Mississippi Watershed Management Commissions was called to order by Chair Richard McCoy at 11:03 a.m., Thursday, June 9, 2022, at Crystal City Hall, 4141 Douglas Drive, Crystal, MN.

Present: Mike Albers, Brooklyn Center; Mitchell Robinson, Brooklyn Park; Derek Asche, Maple Grove; Katie Kowalczyk, Minneapolis; Nick Macklem, New Hope; Amy Riegel and Hailey Olson, Plymouth; Richard McCoy and Mike Sorensen, Robbinsdale; Kris Guentzel, Hennepin County Environment and Energy (HCEE); Ed Matthiesen, Diane Spector, Todd Shoemaker, and Katie Kemmitt, Stantec; and Judie Anderson, JASS.

Not represented: Champlin, Crystal, and Osseo.

Also present: Burt Orred, Jr., Crystal, and Andy Polzin, Plymouth.

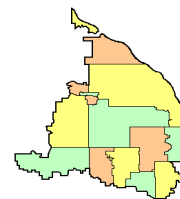
- I. Motion by Riegel, second by Robinson to **approve the agenda**.*\* Motion carried unanimously.*
- II. Motion by Robinson, second by Riegel to **approve the minutes***\* of the May 12, 2022, meeting. Motion carried unanimously.*
- III. **Fourth Generation Watershed Management Plan.** Included in Staff's June 3, 2022, memo\* were three items:

**A. SCWM Boundary Change.** The 4th Generation Plan is an opportune time to revisit the watershed boundaries to ensure that they accurately reflect the most current drainage information between the Shingle Creek and West Mississippi drainage areas and the neighboring Elm Creek, Bassett Creek, and Mississippi watersheds. 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.

Staff have prepared a **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 boundary 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 in the HUC 8 flood hazard study.

Staff recommend that the cost be split equally between the two Commissions and funds be reallocated 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).

Motion by Macklem, second by Robinson to recommend to the Commissions that they proceed with this project at a cost totaling \$27,900. *Motion carried unanimously.*



**B. Draft Priorities, Goals, and Policies.** Based on input received to date, Staff have developed the draft Priorities, Goals, and Policies included in the meeting packet. Also included in the packet for reference are the current goals and policies\* from the 3rd Generation Plan. Discussion focused on climate sustainability, social equity and restorative justice, groundwater, feasibility studies, and continuing 5-year review of TMDLs. With TAC and Commissioner input, Staff will continue to develop the foundational components of the Fourth Generation Plan.

**C. Preliminary CIP and Implementation Plan.** Staff continues to develop 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 as (1) lake internal load feasibility studies; (2) subwatershed assessments; and (3) targeted monitoring might be helpful in the coming ten years. Members have been asked to identify the projects in their communities with which to start building the CIP for the next ten years.

#### **IV. Grant Project Updates.\***

**A. 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 2, 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.

**B. 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 2, 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.

#### **V. Other Business.**

**A.** The next TAC meeting is scheduled for 11:00, July 14, 2022, prior to the regular Commission meetings.

**B** There being no further business, the TAC meeting was adjourned at 12:34 p.m.

Respectfully submitted,

Judie A. Anderson  
Recording Secretary  
JAA:tim

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**To:** Shingle Creek/West Mississippi WMO Commissioners/TAC

**From:** Todd Shoemaker PE  
Diane Spector  
Katie Kemmitt

**Date:** July 8, 2022

**Subject:** Fourth Generation Plan Update

**Recommended  
Action**

For discussion and input.

Topics to discuss today regarding the Fourth Generation Plan:

***Schedule***

We are a little behind our original schedule but are still on track to have a draft document by the end of August for preliminary review. The final topics for general discussion will be budget, JPA, and opportunities for public review of the Implementation Plan.

***SCWM Boundary Change***

Staff is progressing on the boundary analysis and will have a more complete assessment of progress at the July 14 meeting, including some preliminary figures showing some of the changes.

***Review of Draft Priorities, Goals, and Policies***

Based on input received at the June 9 meeting we have refined the goals and priorities and placed them into textual context (attached). We also had a chance to meet with Hennepin County to discuss climate resiliency and groundwater and incorporated those discussions into the text. At the 7/14 meeting we would like review and refine these priorities, goals, and strategies, which are the foundation of the Implementation Plan. In the Plan, these goals and priorities will be followed by a description of the specific actions the Commissions will take, which will be summarized in the Implementation Plan table.

***Review of Preliminary Implementation Plan Table***

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. We have developed a draft Implementation Plan that incorporates Capital Projects, Project Maintenance, and Other Implementation actions such as special studies. That table is attached for your review. Please note that while we have tried to set a schedule that both balances workload and keeps annual budget, levy and other expenditures relatively stable, there are a few exceptions to that (notably 2023). We will work with the Commissions and the cities to further refine activities and their schedule, so some of these might move around between years, and some of the estimated costs might be further refined. Also bear in mind that the 3<sup>rd</sup> Generation Plan enables the Commissions to make annual adjustments to years and costs without having to amend the Plan; a Minor Plan Amendment is only necessary to add a project or significantly alter a project already on the CIP. We expect to carry over that provision to the 4<sup>th</sup> Gen Plan.

## Priorities and Goals

Through the identification and prioritization of issues in the watersheds, the Commissions developed goals that will guide activities over the coming decade. These goals were derived from the Gaps Analysis and a review of the accomplishments and unfinished business from the Third Generation Plan; discussions with Commissioners, Technical Advisory Committee members, state agency staff, other city staff; and citizen input.

The framework to achieve these goals is set forth in the Implementation Plan and Capital Improvement Program detailed in Section xx of this Plan. Member cities supplement and complement these actions with additional policies and programs tailored to their unique priorities and needs. The philosophy of the Joint Powers Agreements and this Plan is that the management plan establishes certain common goals and standards for water resources management in the watersheds, agreed to by the member cities, and implemented by those cities through activities at both the Commission and local levels. Successful achievement of the goals in this Plan is dependent on those member cities and their dedication to this effort.

## Priorities

1. **Achieve lake and stream goals.** Continue to work aggressively toward achieving TMDL lake and stream goals.
2. **Stimulate implementation.** Foster completion of TMDL load reduction and other implementation activities by identifying improvements, sharing in their cost, and proactively seeking grant funds.
3. **Engage and educate.** Expand the public education and outreach program to reach more stakeholders, including vulnerable communities and historically underrepresented groups.
4. **Develop climate resiliency and sustainability.** Anticipate and proactively work to understand and minimize adverse impacts from changing environmental and climate conditions.

## GOALS

### Water Quality and Ecological Integrity

While the Commissions' First Generation Plans were primarily focused on adopting and implementing standards for development and redevelopment projects to moderate the impacts of stormwater runoff on receiving waters, by the time of the Second Generation Plan water quality monitoring confirmed that several lakes did not meet state water quality standards. Thirteen of the sixteen lakes were subsequently designated as Impaired Waters by the MPCA due to high concentrations of nutrients. The Shingle Creek Commission was an early implementer of Total Maximum Daily Load (TMDL) studies to diagnose the sources of this excess phosphorus and develop implementation plans to reduce nutrients to the lakes.

Shingle Creek and Bass Creek were also found to be high in chloride concentration, low in dissolved oxygen, and non-supportive of fish and other aquatic life. The Second and Third Generation Plans focused on implementing capital and other projects and assessing progress. As noted in this Plan's Self-Assessment of Progress, those efforts have paid off: three of the original thirteen lakes (Schmidt, Ryan, and Lower Twin) have been removed from the official Impaired Waters List, and two more (Bass and Pomerleau) are slated to be removed, or "de-listed" in 2024. Monitoring data also shows a significant improvement in some water quality parameters in Shingle and Bass Creeks, but not all: chloride and bacteria remain stubbornly high. The fish and biotic communities remain impaired in the creeks, and several lakes are infested with invasive aquatic vegetation.

Wetlands also perform a key role in the ecological integrity of the watersheds. Much of the original acreage of wetlands in Shingle Creek has either been filled or significantly altered by development. The northern half of West Mississippi developed much later, under the regulation of the Wetland Conservation Act (WCA). While they have not been filled, many of the wetlands in that watershed have been altered by changing hydrology that redirected runoff and reduced surficial groundwater recharge. While there are a few wetlands of higher quality, most have been impacted to some degree.

This Fourth Generation Plan will continue to focus on improving the lakes and streams in the watersheds to meet state water quality and ecological integrity standards and protecting those that meet those standards. The primary implementation strategies will be to:

- Limit further lake, stream, and wetland impacts from development and redevelopment.
- Identify and undertake protection and improvement actions such as subwatershed assessments, feasibility studies, and non-structural and capital improvement projects.
- Achieve state water quality standards in three more lakes – Eagle, Crystal, and Middle Twin Lakes and if possible, achieve de-listing from the Impaired Waters list.
- Limit as feasible under the Wetland Conservation Act any further impacts to wetlands in the watersheds.

The Commission will continue to operate a robust monitoring program to track water quality trends and assess progress.

**Goal 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.**

#### Strategies

- 1.a. Manage the surface water resources of the watershed to meet or exceed state standards.
- 1.b. Implement load reduction actions sufficient to achieve state water quality standards in Eagle, Crystal, and Middle Twin Lakes.
- 1.c. Make progress toward achieving the state standards in the other lakes and streams in the watersheds.
- 1.d. Administer rules and standards requiring new development and redevelopment to control the loading of pollutants from their sites.
- 1.e. Maintain as feasible no net loss of wetland acreage and functions and values.

## Water Quantity, Groundwater and Drainage

One of the statutory responsibilities of the Commissions is to prevent and mitigate flooding. This has been accomplished primarily by ensuring that development and redevelopment does not create new volumes and rates of runoff that may cause downstream flooding. Despite the extensive upper watershed development that has occurred since the Commissions were established in 1985, there are few non-localized flooding problems in the two watersheds. Early on the Commissions and member cities identified this as an important issue and enacted the appropriate controls to limit rates and volumes of runoff from new development and redevelopment. A second Commission responsibility is managing or staying abreast of surface water-groundwater interactions, including groundwater recharge, stream baseflow and lake levels, wellhead protection and maintaining adequate hydrology to wetlands. Hennepin County intends to update its Groundwater Plan in the next several years, and the Commissions will provide input to that analysis and assist in implementing County priority actions.

Shingle Creek from approximately Xerxes Avenue North in Brooklyn Park to Webber Park in Minneapolis was ditched and channelized as Hennepin County Ditch #13 in 1910 and remains under the County's jurisdiction. Hennepin County is willing to transfer authority to the Shingle Creek Commission or the member cities, but neither has expressed an interest.

This Fourth Generation Plan will continue to rely on the development rules and standards to limit new rates and volumes of runoff and to require infiltration or other abstraction such as stormwater reuse to protect and replenish surficial groundwater. The Commission also maintains a hydrologic and hydraulic model for the watershed that was updated in 2021 and will be used to track any impacts to flood flows and elevations due to land use change.

**Goal 2: Reduce stormwater runoff rates and volumes to limit flood risk, protect conveyance systems, protect surficial groundwater, and reduce or mitigate impacts that have already occurred.**

### Strategies

- 2.a. Maintain the existing 100-year flood profile throughout the watersheds.
- 2.b. Administer rules and standards requiring new development and redevelopment to control the rate and volume of runoff from their sites.
- 2.c. Continue current Hennepin County jurisdiction over County Ditch #13.
- 2.d. Work in cooperation with Hennepin County in the development and implementation of local and regional groundwater protection strategies.

## Education and Engagement

The Commissions initially established an Education and Outreach Program as part of the Second Generation Plan. At about the same time the member cities were required to develop education and outreach plans as part of their National Pollution Discharge Elimination System (NPDES) stormwater permits. Because these requirements were common across the cities, the member cities requested that the Second Generation Plan be

designed to help them fulfill the NPDES Public Education and Outreach requirements, and this was continued in the Third Generation Plan.

The Commissions also collaborate with the Elm Creek and Bassett Creek WMOs as part of the West Metro Water Alliance (WMWA) and participate in Metro-wide education and outreach initiatives such as Blue Thumb, Watershed Partners and Northland NEMO. The WMWA collaboration is an opportunity to pool resources on larger or region-wide initiatives, such as the ongoing Watershed PREP program providing specialized classroom lessons to 4<sup>th</sup> graders and the shared education and outreach coordinator proposed jointly with Hennepin County in 2023.

Over the past decades the demographics in the watersheds reflect a growing economic, racial, ethnic, and cultural diversity. Residents living in roughly two thirds of the land area in Shingle Creek were estimated by Hennepin County to be among the most vulnerable to environmental injustice in the county based on race, income, ability, health, and social status, with parts of West Mississippi also experiencing more moderate vulnerability. As a part of this planning process, the watersheds partnered with Bassett Creek WMO to learn and start a conversation about environmental injustice, how other organizations are increasing their outreach to underserved communities, and how to begin building relationships and work toward more equitable environmental outcomes.

The Fourth Generation Plan will continue to expand the education and outreach program to meet both the needs of the member cities' stormwater permits as well as other supplemental topics and will continue to partner with WMWA to expand joint offerings, including realizing a vision of a shared education and outreach coordinator. This expanded effort will also include renewed focus on developing more opportunities to engage all communities in the watersheds, and to require an Equity Impact Analysis be completed for all projects receiving Commission funding.

**Goal 3: Educate and engage all stakeholders in the watersheds on surface water issues and opportunities.**

#### Strategies

- 3.a. Operate a public education and outreach program that meets the NPDES Phase II education requirements for the member cities, with special emphasis on topics such as chloride, bacteria/pet waste, and nutrient management.
- 3.b. Provide supplemental education and outreach engagement on TMDL and other topics of interest to various stakeholders, including ongoing outreach to lake associations.
- 3.c. Incorporate equity principles of diversity, equity, inclusion, and access into watershed programs and projects.

#### Climate Resilience and Sustainability

Water and natural resources are directly influenced by climate – precipitation, temperature, and other actors. Our climate is non-static: the Minnesota State Climatology Office has

observed and documented changes in our climate since the late 1800's. Research suggests that the state will continue to get warmer and wetter, with more extreme rainfall events. Winters are warming, summers are more humid, and the growing season is expanding.

The highly altered and developed landscape in the watersheds limits options to prevent or mitigate impacts and increases vulnerability to changing conditions. The cumulative impact of development – paving over surfaces that previously could infiltrate precipitation and prevent flooding, loss of woods and grasslands and wetlands – is a loss of resiliency to adapt to the increasing variability in climate.

The types of changes observed in Minnesota also have the potential to more directly and negatively affect water resources. Increased daily temperatures and a longer growing season may cause shifts in lake aquatic vegetation and result in more frequent algal blooms. Runoff from more frequent, higher intensity rain events increases flows, velocities, and shear forces instreams, increasing erosion and stream instability. Biotic integrity is diminished as lake and stream aquatic species select toward those that are more tolerant to pollution or to highly variable flows.

The Fourth Generation Plan will focus on better understanding the magnitude of those impacts both locally and regionally and identifying appropriate responses. The Commissions' hydrologic and hydraulic models will be used to evaluate how future precipitation patterns may affect the extent and duration of flood events, and to identify infrastructure that may be at long-term risk of flooding. It will also be used to evaluate the impacts of potential development rules and standards changes.

Because local and regional partnerships will be necessary to combat non-static climate, the Commissions will collaborate with:

- Hennepin County in implementing and updating its Climate Action Plan.
- The Metropolitan Council with its Climate Vulnerability Assessment.
- The State Climatology office to better understand and quantify impacts and potential responses.

**Goal 4: Anticipate and proactively work to withstand adverse impacts from changing environmental and climate conditions.**

#### Strategies

- 4.a. Model the potential impacts of a non-static climate on water resources with the best available predictive data.
- 4.b. Quantify and qualitatively assess risk and evaluate and implement responses for mitigation.
- 4.c. Collaborate with other agencies and organizations on joint efforts to manage impacts both locally and regionally.
- 4.d. Develop strategies to appropriately manage future impacts.

Shingle Creek Watershed Management Commission											
Fourth Generation Watershed Management Plan											
Capital Improvement Program (CIP)											
DR A F T 7/7/2022											
<b>IMPLEMENTATION PROGRAM</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>2031</b>	<b>2032</b>	
<b>Watershed-wide Programs</b>											
<i>City Cost Share Program</i>	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	
Commission Contribution	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	
Local Contribution	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	
<i>Partnership Cost-Share Program</i>	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	
Commission Contribution	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	
Local Contribution	0	0	0	0	0	0	0	0	0	0	
<i>Project Maintenance Fund</i>	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	
Commission Contribution	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	
Local Contribution	0	0	0	0	0	0	0	0	0	0	
<b>Stream Projects</b>											
<i>Bass Creek TH 169 to 63rd Avenue</i>	500,000										
Commission Contribution	500,000										
Local Contribution	0										
<i>Shingle Creek Brookdale Park Natural Channel</i>	1,250,000										
Commission Contribution	1,250,000										
Local Contribution	0										
<i>Minneapolis Shingle Creek Stream Restoration</i>		400,000			300,000						
Commission Contribution		400,000			300,000						
Local Contribution		0			0						
<i>Shingle Creek or Bass Creek Restoration Project</i>								400,000			
Commission Contribution								400,000			
Local Contribution								0			
<b>Eagle, Pike, and Cedar Island Lakes</b>											
<b>Capital Projects</b>											
<i>Lake Internal Load Improvement Project-Eagle/Pike</i>	30,000	170,000									
Commission Contribution	30,000	170,000									
Local Contribution	0	0									
<i>Lake Internal Load Improvement Project-Cedar Island</i>						30,000	170,000				
Commission Contribution						30,000	170,000				
Local Contribution						0	0				
<i>Pike Creek Stabilization</i>	395,000										
Commission Contribution	105,000										
Local Contribution	290,000										
<b>Maintenance Projects</b>											

Aquatic Vegetation Mgmt											
Commission Contribution			15,000	15,000					15,000	15,000	
Local Contribution											
<b>Twin and Ryan Lakes</b>											
<b>Capital Projects</b>											
Wetland 639W Weir Wall Enhancement			100,000								
Commission Contribution			100,000								
Local Contribution			0								
Lake Internal Load Project							200,000				
Commission Contribution							200,000				
Local Contribution							0				
<b>Maintenance Projects</b>											
Modify France Ave Fish Barrier											
Commission Contribution	8,000									20,000	
Local Contribution											
Carp Management											
Commission Contribution	30,000	30,000			25,000		25,000		25,000		
Local Contribution											
Aquatic Vegetation Mgmt											
Commission Contribution						15,000					
Local Contribution											
<b>Bass, Schmidt, and Pomerleau Lakes</b>											
<b>Capital Projects</b>											
New Project											
Commission Contribution											
Local Contribution											
New Project											
Commission Contribution											
Local Contribution											
<b>Maintenance Projects</b>											
Aquatic Vegetation Mgmt											
Commission Contribution	12,000	10,000		10,000		10,000		10,000		10,000	
Local Contribution											
<b>Crystal Lake</b>											
<b>Capital Projects</b>											
New Project											
Commission Contribution											
Local Contribution											
New Project											
Commission Contribution											
Local Contribution											
<b>Maintenance Projects</b>											

<b>Aquatic Vegetation Mgmt</b>											
Commission Contribution			10,000	10,000	10,000			10,000	10,000		
Local Contribution											
<b>Rough Fish Mgmt</b>											
Commission Contribution			25,000		25,000		25,000	25,000			
Local Contribution											
<b>Meadow, Magda, and Success Lakes</b>											
<b>Capital Projects</b>											
<b>New Project</b>											
Commission Contribution											
Local Contribution											
<b>New Project</b>											
Commission Contribution											
Local Contribution											
<b>Maintenance Projects</b>											
<b>Aquatic Vegetation Mgmt</b>											
Commission Contribution			10,000			25,000					
Local Contribution			0			0					
<b>Rough Fish Mgmt</b>											
Commission Contribution											
Local Contribution											
<b>Special Study-Magda Subwatershed Assessment</b>											
Commission Contribution									30,000		
Local Contribution									30,000		
									0		
<b>Stormwater BMP Projects</b>											
<b>Capital Projects</b>											
<b>Maple Grove Pond P57</b>											
Commission Contribution		648,000									
Local Contribution		162,000									
		486,000									
<b>Maple Grove Pond P33</b>											
Commission Contribution				574,000							
Local Contribution				143,500							
				430,500							
<b>Minneapolis Flood Area 5 Water Quality Projects</b>											
Commission Contribution						6,000,000					
Local Contribution						250,000					
						5,750,000					
<b>Maple Grove Pond P55</b>											
Commission Contribution										855,000	
Local Contribution										213,800	
										641,200	
<b>New Project</b>											
Commission Contribution											
Local Contribution											
<b>Other</b>											

<i>Special Study-Flood Resiliency Modeling</i>	30,000										
Commission Contribution	30,000										
Local Contribution	0										
<i>5th Generation Plan</i>	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	
Commission Contribution	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	
Local Contribution	0	0	0	0	0	0	0	0	0	0	
<b>TOTAL IMPLEMENTATION PLAN</b>	<b>2,515,000</b>	<b>1,528,000</b>	<b>410,000</b>	<b>884,000</b>	<b>610,000</b>	<b>940,000</b>	<b>6,480,000</b>	<b>710,000</b>	<b>340,000</b>	<b>1,165,000</b>	
<b>Total Capital Projects</b>	<b>2,425,000</b>	<b>1,468,000</b>	<b>350,000</b>	<b>824,000</b>	<b>550,000</b>	<b>880,000</b>	<b>6,420,000</b>	<b>650,000</b>	<b>280,000</b>	<b>1,105,000</b>	
<b>Commission Share</b>	<b>2,035,000</b>	<b>882,000</b>	<b>250,000</b>	<b>293,500</b>	<b>450,000</b>	<b>780,000</b>	<b>570,000</b>	<b>550,000</b>	<b>180,000</b>	<b>363,800</b>	
<b>Local Share</b>	<b>390,000</b>	<b>586,000</b>	<b>100,000</b>	<b>530,500</b>	<b>100,000</b>	<b>100,000</b>	<b>5,850,000</b>	<b>100,000</b>	<b>100,000</b>	<b>741,200</b>	
<b>Total Maintence Fund</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	
<b>Total Maintenance Projects</b>	<b>50,000</b>	<b>40,000</b>	<b>60,000</b>	<b>35,000</b>	<b>60,000</b>	<b>50,000</b>	<b>50,000</b>	<b>45,000</b>	<b>50,000</b>	<b>45,000</b>	
<b>Balance</b>	<b>0</b>	<b>10,000</b>	<b>0</b>	<b>15,000</b>	<b>5,000</b>	<b>5,000</b>	<b>5,000</b>	<b>10,000</b>	<b>10,000</b>	<b>15,000</b>	
<b>Other Funding Sources</b>	<b>40,000</b>	<b>10,000</b>	<b>10,000</b>	<b>10,000</b>	<b>10,000</b>	<b>10,000</b>	<b>10,000</b>	<b>10,000</b>	<b>10,000</b>	<b>10,000</b>	
<b>Commission Share</b>	<b>40,000</b>	<b>10,000</b>	<b>10,000</b>	<b>10,000</b>	<b>10,000</b>	<b>10,000</b>	<b>10,000</b>	<b>10,000</b>	<b>10,000</b>	<b>10,000</b>	
<b>Local Share</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

West Mississippi Watershed Management Commission										
Fourth Generation Watershed Management Plan										
Capital Improvement Program (CIP)										
DRAFT 7/7/2022										
<b>IMPLEMENTATION PROGRAM</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>2031</b>	<b>2032</b>
<i>City Cost Share Program</i>	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
Commission Contribution	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Local Contribution	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
<i>Partnership Cost-Share BMP Projects</i>	100,000	100,000	100,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Commission Contribution	100,000	100,000	100,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Local Contribution	0	0	0	0	0	0	0	0	0	0
<i>New Project</i>										
Commission Contribution										
Local Contribution										
<i>New Project</i>										
Commission Contribution										
Local Contribution										
<i>Champlin Woods Trail Rain Gardens</i>	180,000									
Commission Contribution	45,000									
Local Contribution	135,000									
<i>New Project</i>										
Commission Contribution										
Local Contribution										
<i>Special Study-Flood Resiliency Modeling</i>	30,000									
Commission Contribution	30,000									
Local Contribution	0									
<b>Total Capital Projects</b>	<b>410,000</b>	<b>200,000</b>	<b>200,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>
<b>Commission Share</b>	<b>225,000</b>	<b>150,000</b>	<b>150,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>
<b>Local Share</b>	<b>185,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>