

# **Shingle Creek and West Mississippi Watershed Management Commissions**

**2023 Annual Activity Report**



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This report was prepared for the  
Shingle Creek and West Mississippi Watershed Management Commissions  
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Cover photograph: *Stream Restoration  
in the Shingle Creek Watershed*  
courtesy of Stantec Consulting Services

## 2023 ANNUAL ACTIVITY REPORT

This annual report has been prepared by the Shingle Creek Watershed Management Commission and the West Mississippi Watershed Management Commission in accordance with the annual reporting requirements of Minnesota Rules Chapter 8410.0150, Subps. 2-3. It summarizes the activities undertaken by the Commissions during calendar year 2023.

This is the initial **joint** annual report created by the two Commissions. Since the Commissions are comprised of four of the same member cities and, as a result, also share representation, as well as water resource management goals and strategies, Staff sought approval from the Board of Water and Soil Resources to produce a joint report. This approval was granted on March 19, 2024.

### THE COMMISSIONS

The Shingle Creek Watershed Management Commission is a joint powers organization (JPO) governed by a nine-member board comprised of representatives from each member city who are appointed for terms of three years. The nine member cities are Brooklyn Center, Brooklyn Park, Crystal, Maple Grove, Minneapolis, New Hope, Osseo, Plymouth and Robbinsdale.

The West Mississippi Management Commission is also a joint powers organization and is governed by a five-member board. The five member cities are Brooklyn Center, Brooklyn Park, Champlin, Maple Grove, and Osseo. Their representatives are also appointed to three-year terms.

Commissioners who served in 2023 are shown in *Appendix 1*. Also shown there are members of the Technical Advisory Committee (TAC) who represent the member cities.

### THE WATERSHEDS

The watersheds are located in the northwest portion of the Minneapolis-St. Paul seven-county metropolitan area and are comprised of all or part of the ten cities located in Hennepin County shown in Table 1.

**Table 1 - Member Cities by Area**

Shingle Creek		West Mississippi		Combined
Cities	Area (sq. mi.)	Cities	Area (sq. mi.)	Area (sq. mi.)
Brooklyn Center	5.89	Brooklyn Center	2.47	8.36
Brooklyn Park	11.15	Brooklyn Park	14.20	25.35
		Champlin	5.12	5.12
Crystal	3.92			3.92
Maple Grove	7.73	Maple Grove	.82	8.55
Minneapolis	3.15			3.15
New Hope	3.32			3.32
Osseo	.45	Osseo	.33	.78
Plymouth	6.56			6.56
Robbinsdale	2.39			2.39
<b>Total</b>	<b>44.56</b>	<b>Total</b>	<b>22.94</b>	<b>67.50</b>

**CONSULTANTS**

The Commissions have no employees. The same consultants serve both Commissions and the individuals currently retained by the Commissions are listed in *Appendix 1*.

**MEETINGS**

The Commissions meet jointly at 12:45 p.m. on the second Thursday of the month at Plymouth Community Center, 14800 34th Avenue North, Plymouth, Minnesota. The meetings are open to the public. Meeting notices, agendas and approved minutes are posted on the Commissions’ website, [www.shinglecreek.org](http://www.shinglecreek.org).

**WATERSHED MANAGEMENT PLAN**

The Shingle Creek and West Mississippi Watershed Management Commissions began the year 2023 under the guise of their Third Generation Watershed Management Plan. On May 11, 2023, the Commissions adopted their joint Fourth Generation Plan. Approved by the Board of Water and Soil Resources (BWSR) on April 26, 2023, the Plan is the culmination of a two-year planning effort by the two Commissions, their member cities, state agencies, and the public. The Plan sets forth goals and strategies that will guide water resources management activities in the two watersheds over the coming decade.

**STATUS OF 2023 WORK PLAN**

The Fourth Generation Watershed Management Plan states that the Shingle Creek and West Mississippi Watershed Management Commissions will annually review progress toward their Fourth-Generation goals and that this evaluation will become part of an

Annual Activity Report. The purpose of the annual review is two-fold: to determine progress towards the goals and to be sure the Commission stays on track to reach them. The annual review also provides an opportunity to discuss whether the goals and actions in the Plan still make sense or if they should be considered for modification or enhancement, perhaps to add new priorities. Most of the activities of the Commissions are ongoing, although some rotate around the watersheds.

The following are the adopted activities for the 2023 Work Plan, organized by the Goal Areas identified in the Fourth Generation Plan, and as general, routine Commission business. There were routine, ongoing activities as well as some Commission-funded construction projects expected in 2023. These activities were approved at the Commissions' January 12, 2023, meetings with the addition of a goal to *develop a process to add a diversity and equity evaluation to projects undertaken by the Commission.*

**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.**

- a. Completed the 5-year performance review for the Bass and Shingle Creek Biotic and DO TMDL.
- b. Completed an aquatic vegetation survey on Bass Lake to assess success of vegetation transplants.
- c. Partnered with the City of Robbinsdale to complete the Crystal Lake Management Plan, including carp removal, aquatic vegetation management, and alum treatment, as the Plan transitions from capital project to ongoing maintenance.
- d. Partnered with the City of New Hope to implement the Meadow Lake Management Plan, including potential additional vegetation and fish management and preparation for an alum treatment. Extended the Clean Water Fund grant for the project through 2024 to continue monitoring and adaptive management.
- e. Continued to partner with the cities of Brooklyn Park and Brooklyn Center to undertake Connections II streambank improvements for Shingle Creek from Regent Avenue to Brooklyn Boulevard.
- f. Partnered with the City of Brooklyn Park and Three Rivers Park District to undertake feasibility assessment for stream restoration on Shingle Creek from the

- end point of the Connections project in Brookdale Park to just downstream of Xerxes Avenue.
- g.** Completed channel construction on the Palmer Creek Estates channel stabilization project.
  - h.** Worked with the City of Brooklyn Park and Hennepin County to undertake an updated and more detailed assessment of conditions and potential stabilization work along the Mississippi River streambank.
  - i.** Continued to partner with the City of Brooklyn Park to undertake Bass Creek Park streambank improvements from Cherokee Drive to I-694.
  - j.** Worked with the City of Crystal to complete the Gaulke Pond Subwatershed Assessment to identify potential watershed BMPs. Identified the Colorado Ave infiltration trench as the top project, and authorized the development of a grant application to complete a formal Feasibility Study which will be submitted to MPCA for potential funding under the Community Resilience grant program.
  - k.** As a result of the Eagle Lake Subwatershed Assessment, prepared and submitted a Clean Water Fund grant application for the Eagle and Pike Lakes Management Plan project for internal load treatments.
  - l.** Used funding from the new Project Maintenance Fund to upkeep past project improvements.
  - m.** Continued to partner with the USGS to operate the Queen Avenue monitoring site.
  - n.** Continue to identify, pursue grant funding for, and implement projects and programs addressing the bacterial impairment in the Mississippi River.
  - o.** Identify boundaries of the untreated areas directly connected to the Mississippi River or other conveyances.
  - p.** Partner with the Mississippi Watershed Management Organization (MWMO) to undertake monitoring at the 65th Avenue outfall.
  - q.** Execute cooperative agreement with Brooklyn Park for the Mississippi River stabilization project.
  - r.** Partner with a member city to complete a subwatershed BMP analysis.
  - s.** Stayed abreast of other regional and state TMDLs.



**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.**

- a. Completed twelve reviews of development and redevelopment projects (eight in Shingle Creek, and four in West Mississippi) as necessary. Four of these projects were in Maple Grove, four in Brooklyn Park, two in Plymouth, and one each in Champlin and Crystal. Added an *Are you in the watershed?* interactive map to the Commissions' website to help with project review submittals. (*Appendix 2*)
- b. Updated the contract with Metropolitan Council to provide stormwater and water quality review services for that part of the Blue Line Extension corridor that travels through the watersheds.
- c. Began formal review of the Highway 282/94 update proposed by MnDOT.
- d. Updated Rules and Standards as necessary, continuing to enforce them.

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

- a. Continued in the West Metro Water Alliance partnership to enhance education and outreach opportunities and common messaging.
- b. Partnered with Hennepin County and local watersheds to fund a shared Education and Outreach Coordinator.
- c. Developed a Chloride Management Plan for the watersheds.

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

- a. Applied for a Climate Resiliency Grant to model future precipitation scenarios and, if awarded, begin work.

**Continued ongoing administration and programming.**

- a. The Shingle Creek Commission conducted routine flow and water quality monitoring at the stream's outlet to the Mississippi River in Minneapolis (SC-0), mid-watershed in Brooklyn Park (SC-3) and on Bass Creek in Bass Creek Park (BCP) in the upper watershed. Winter chloride was sampled monthly from November through March at the three sites and the USGS gauge site (SC-1) located at Queen Avenue in Minneapolis.

In West Mississippi, the Environmental Preserve in Brooklyn Park was monitored monthly from April through October and 65th Avenue was monitored year-round in partnership with the Mississippi Watershed Management Organization (MWMO).

Two longitudinal studies were conducted as part of the Shingle Creek and Bass Creek Dissolved Oxygen and Biotic Integrity TMDL 5-year review.

Conducted routine lake water quality monitoring and aquatic vegetation and fish surveys on Magda and Ryan Lakes and grant-funded monitoring on Crystal and Meadow Lakes.

Continued to identify, pursue grant funding for, and implement projects and programs addressing the bacterial impairment in the Mississippi River. Identify boundaries of the untreated areas directly connected to the Mississippi River or other conveyances.

- b.** Sponsored volunteer stream monitoring through RiverWatch. Avail Academy students monitored Shingle Creek in Webber Park in the City of Minneapolis above and below the falls. Students from Henry High School performed critter identification streamside. The County maintains an interactive online map showing monitoring locations throughout the County: [hennepin.us/riverwatch](https://hennepin.us/riverwatch).
- c.** Sponsored volunteer lake monitoring through CAMP (Metropolitan Council) on Schmidt, Ryan and Lower Twin lakes.
- d.** Prepared an annual water quality report, which serves as an addendum to this report.
- e.** Solicited cost-share projects from member cities funded from the Cost Share Fund and the annual \$100,000 levy and the Partnership Cost Share Fund and the annual \$50,000 levy. In 2023 the maximum cost of projects funded through the Shingle Creek Cost Share program was increased to \$200,000.
- f.** The City of Crystal requested and received \$50,000 from the Shingle Creek Cost Share Fund to expand an underground infiltration system at Crystal Community Center to increase the volume of captured stormwater runoff 15% to 20,137 cubic feet (150,625 gallons).
- g.** Partnership Cost Share projects were initiated with Metro Blooms/Dwell Management for improvements at the Highland Gables multifamily complex and with Three Rivers Park District for improvements at Gateway Park on the Mississippi River in Brooklyn Park.

- h.** Reviewed feasibility studies for 2023 proposed capital projects, undertake Plan Amendments, hold public hearings, order projects and certify levies. Five projects totaling \$986,265 were certified by the Shingle Creek Commission: (1) Cost Share Projects, \$106,050; (2) Partnership Cost Share (private projects), \$53,025; (3) Maintenance Fund, \$53,025; (4) Pike Creek Stabilization in the cities of Maple Grove and Plymouth, \$111,350; and (5) Brookdale Park Natural Channel Phase 1 in Brooklyn Park, \$662,815. Two projects were certified by the West Mississippi Commission. Totaling \$159,075, they are (1) City Cost Share Best Management Practices (BMP) Projects, \$53,025, and (2) Partnership Cost Share (private projects), \$106,050.
- i.** Both Commissions approved 2024 annual operating budgets at their May 11, 2023, meetings. The budgets may be viewed in *Appendix 3*.
- j.** Finalized and adopted the Fourth Generation Management Plan. Following adoption, the Commissions' attorney began drafting updates to the Joint Powers Agreements.
- k.** In 2023, by Minor Plan Amendment, the Shingle Creek Commission created a new Capital Projects Maintenance Fund intended to support the completion of ongoing activities needed to continue the benefits achieved by capital projects. The first year of project maintenance was completed in 2023 and included Bass Lake curly-leaf pondweed treatment and Crystal Lake carp management.
- l.** Invited guest speakers to make lunchtime water resources presentations. On January 12, 2023, **Jamil Ibrahim**, Stantec California, presented, "Surface Water and Ocean Topography." The National Aeronautics and Space Administration (NASA) launched a new satellite called Surface Water and Ocean Topography (SWOT). SWOT has special technology on board that allows it to precisely track things like sea level rise, streamflow through mountainous terrain, and shifts in reservoir storage.
- m.** Continued the HUC study in partnership with the DNR. The updated flood mapping is still working through the DNR/FEMA process.
- n.** Toured project sites in the watershed. Following their September 14, 2023, meeting the Commissioners toured a number of sites in the watershed. They stopped at Crystal Lake, Brookdale Park, Brook Gardens, Bass Creek, and Meadow Lake, all sites where Shingle Creek Commission-related activity is occurring.
- o.** Solicited interest proposals for technical, legal and administrative services in the November 8, 2022, edition of the *State Register*. Six proposals were received – four

from engineering firms, and one each from legal and administrative service providers. By unanimous vote at their January 12, 2023, meetings, the Commissions' current providers were retained: Stantec Consulting Services, Inc., technical services; Kennedy & Graven Chartered, legal services; and Judie Anderson's Secretarial Services, Inc., administrative services.

## 2023 WATER MONITORING

The Shingle Creek and West Mississippi Watershed Management Commissions annually monitor water quality in the lakes, streams, and outfalls of the watersheds. Data has been collected from Shingle Creek since 1996 and at West Mississippi River outfalls since 2010. The monitoring sites are shown on the map in *Appendix 4*.

In 2012, Shingle Creek expanded its volunteer-based lake monitoring program to start systematic detailed lake monitoring. The program has expanded to incorporate fish, macroinvertebrate, and aquatic vegetation monitoring in the lakes and streams. Student and adult volunteers collect additional lake water quality and stream macroinvertebrate data. A Water Quality report summarizing current and historic conditions in the watersheds has been published annually since 1998.

Each year the Shingle Creek Commission budgets and undertakes monitoring activities, including routine stream and lake monitoring and volunteer lake, stream, and wetland monitoring. Water quality and quantity monitoring on Shingle Creek and select lakes is performed by Stantec staff and the USGS. Macroinvertebrate monitoring in Shingle Creek is performed by volunteers through the Hennepin County Environmental Services' (HCES) RiverWatch program. Volunteer lake monitoring is performed by volunteers through the Metropolitan Council's Citizen Assisted Lake Monitoring Program (CAMP).

The activities outlined below are consistent with the newly adopted Fourth Generation Management Plan, which includes routine monitoring tasks, specific monitoring efforts to support Commission administered grants, and monitoring to evaluate progress toward progress toward the TMDLs.

In 2023 the Shingle Creek Commission completed the 5-year biotic and DO TMDL review report for Shingle and Bass Creeks. Lakes have been prioritized by tiers and, under the Fourth Generation Plan, the TMDLs will be reviewed systematically by priority.

Tier 1 – Impaired lakes with management actions planned. These lakes are priority lakes for intensive monitoring under the Fourth Generation Plan. Intensive

monitoring is used to evaluate lakes for management projects.

Tier 2 - Impaired lakes with previous management or none planned. The lakes are second priority for intensive lake monitoring under this Plan, as they are impaired.

Tier 3 – Delisted lakes. These lakes are third priority and will be monitored primarily through the CAMP program unless declines in water quality are detected.

Review of Shingle and Bass Creek TMDLs will also be prioritized based on the impaired status of the streams.

- § **Intensive Lake TMDL Monitoring.** To track the effectiveness of BMP implementation in improving lake water quality, the Shingle Creek Commission routinely performs intensive lake monitoring to supplement the volunteer surface monitoring. Because the Commission’s goals include achieving delisting of lakes that meet their TMDLs and water quality, the Fourth Generation monitoring plan continues more rigorous lake monitoring sufficient to demonstrate to the Minnesota Pollution Control Agency (MPCA) and the Environmental Protection Agency (EPA) that conditions have improved. Activities in the intensive lake monitoring program include water quality monitoring, aquatic vegetation surveys, and fish sampling coordinated with the Minnesota Department of Natural Resources (DNR).
- § **Water Quality Monitoring.** In 2023, Upper and Middle Twin Lakes were monitored biweekly. The water quality data collected for the lakes included surface and deep-water samples, water column temperature/DO profiles, and zooplankton and phytoplankton sampling.
- § **Aquatic Vegetation Surveys.** A component of the intensive monitoring is to obtain or update surveys of lake aquatic vegetation. Aquatic vegetation plays an important role in water quality and biotic integrity and the vegetation community can change as water quality changes. In 2023, surveys for Upper and Middle Twin were updated in tandem with the intensive monitoring.
- § **Fish Surveys.** A carp population assessment was completed for Upper and Middle Twin in 2023 to guide future carp management.

### Grant Projects

The following monitoring tasks are built into ongoing grant projects.

- § **Bass Lake Alum Treatment.** A full curly-leaf pondweed (CLP) delineation was done

on Bass Lake in Spring 2023. CLP is a persistent invasive species in Bass Lake and has been treated with herbicide annually since 2020. Bass Lake was treated with herbicide for CLP abundance in 2023. The delineation cost approximately \$4,400, paid from remaining Bass and Pomerleau Lakes Alum Treatment grant funds.

§ **Bass Lake Vegetation Improvement.** This project aimed to increase aquatic plant diversity in Bass Lake by transplanting desirable species from Big Carnelian Lake to Bass Lake. After two transplant events in 2022, the final part of the grant project was doing a late-summer point-intercept SAV (submerged aquatic vegetation) survey on Bass Lake to assess plant diversity. This survey cost approximately \$3,700, paid from grant funds. The survey showed only moderate success, with Coontail, Star Duckweed and Very Small Pondweed being the most prevalent transplants.

§ **The Crystal Lake Management Plan** began in 2020. This project includes carp assessment and tracking, alum applications, carp removal, SAV surveys, and water quality monitoring and intends to address Crystal Lake's impairment for nutrients. With an extension, the grant expires in June 2024. The final full summer of this grant focused on collecting final sediment core data and visually assessing the aquatic vegetation community as well as carp removals.

**Aquatic Vegetation Surveys.** Crystal Lake has received two alum treatments, with the most recent one occurring in September 2022. It is not uncommon for an increase in water clarity as a result of alum treatments to spur aquatic vegetation growth. Crystal Lake only has two previously observed aquatic plant species: waterlily and curly-leaf pondweed (CLP), both in extremely low abundance. To ensure that CLP does not take over the lake as a result of increased clarity, a visual survey of CLP abundance was done in early Spring 2023. The CLP was not abundant enough to warrant treatment with herbicide. The visual survey cost approximately \$1,500, paid from grant funds.

**Sediment Coring.** In 2023 a follow-up round of sediment cores will be collected from Crystal Lake to assess success of the two alum treatments that were applied in Fall 2021 and 2022 in reducing internal phosphorus loading to the lake. The labor and laboratory expenses for collecting and processing sediment cores totaled approximately \$14,600 and were paid from grant funds.

§ **The Meadow Lake Drawdown project** began in Fall 2021. The project includes adaptive management to control the fathead minnow and CLP populations in the lake and address the nutrient impairment. The second summer season of this project

- included a Spring CLP delineation and treatment and two vegetation surveys. The lake water quality was monitored by a CAMP volunteer and supplemented by Stantec staff in the fall. CLP and vegetation monitoring cost \$7,700, paid from grant funds.

### **Volunteer Monitoring**

The Shingle Creek Commission has participated in the Metropolitan Council's "Citizen Assisted Lake Monitoring Program" (CAMP) since 1993. This program trains volunteers to take surface water samples and make water quality observations from late spring to early fall, using standardized reporting techniques and forms. The CAMP program has been the Commission's primary means of obtaining ongoing lake water quality data. This program is also an NPDES Education and Outreach BMP.

CAMP was initiated by the Met Council to supplement the water quality monitoring performed by Met Council staff and to increase the Commission's knowledge of water quality of area lakes. Volunteers monitor the lakes every other week from mid-April to mid-October. They measure surface water temperature and Secchi depth, and collect surface water samples that are analyzed by the Met Council for total phosphorous, total Kjeldahl nitrogen, and chlorophyll-a. The volunteers also judge the appearance of the lake, its odor, and its suitability for recreation.

Lakes are monitored on a rotating schedule. The larger lakes are monitored every other year while the smaller lakes are monitored every three years. When a lake undergoes the intensive sampling program, no CAMP monitoring is performed that year. In 2023 CAMP monitoring was conducted on Meadow, Schmidt, Ryan, and Lower Twin lakes.

### **Grants**

- § Prepared an application to the MPCA to complete a Flood Resiliency and Mapping study in 2023.
- § Executed a Clean Water Fund Grant with BWSR and a cooperative agreement with the City of Plymouth for the Palmer Creek Estates channel stabilization project. Project was constructed in winter 2022-2023.
- § Met four times with the Shingle Creek and West Mississippi Watershed Based Implementation Funding (WBIF) Convene Groups to identify and select funding priorities for their \$95,501 and \$75,000 2022 WBIF awards. As part of that work, the four WMOs in WMWA plus the Richfield-Bloomington WMO agreed to fund a shared

Education and Outreach Coordinator with Hennepin County. That shared educator has been hired and is actively working on developing and implementing programming on joint education and outreach strategies agreed to by the five WMOs.

- § In 2018, the eleven WMOs in Hennepin County elected to pool 10% of their WBIF grants to fund the Hennepin County Chloride Initiative (HCCI), recognizing that properly managing chloride use was a common water quality issue. The group continued to explore various management topics and approaches, culminating in the development of a professional marketing campaign called “Low Salt No Salt Minnesota,” which was rolled out in 2023 by each of the WMOs and many cities.

### Education and Public Outreach

- § Participated in the West Metro Water Alliance (WMWA) joint education and outreach group. In 2023, 45 classroom presentations of Lesson 1, *What is a Watershed and Why Do We Care?*, which provides an overview of the watershed concept and is specific to each school's watershed; 66 classroom presentations of Lesson 2, *The Incredible Journey*, which describes the movement and status of water as it travels through the water cycle; and 37 classroom presentations of Lesson 3 *Stormwater Walk*, which investigates movement of surface water on school grounds, were given. The classroom version of Minnesota Sea Grant’s Watershed Game was also played in eight classrooms in three schools in 2023.

In addition, WMWA tabled at four outreach events, one each in Plymouth, Dayton, Champlin and Maple Grove, with a total reach of 636 people.

The year 2023 goals of the WMWA partnership included:

- > Hiring a conservation specialist.
- > Formalizing partnership agreement and goals.
- > Beginning to send monthly updates from the conservation specialist.
- > Creating specific workplans for identified water quality goals and developing target audiences for each.

### Fourth Generation Plan

The Shingle Creek and West Mississippi Watershed Management Commissions spent considerable time developing their joint Fourth Generation Plan, completing a draft that was made available for informal review and then starting the formal review period, which



spanned November 2022 to January 2023. Aside from preparing the actual plan document and the 10-Year Implementation Plan, the Commissions:

- § Participated in a joint Equity in Watershed Management workshop with the Bassett Creek WMO to talk about strategies for enhanced inclusion and equity in our work as stewards of natural and water resources in the watersheds. 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.
- § Undertook a major update to both the legal and hydrologic boundaries between the watersheds and neighboring Elm Creek, Bassett Creek, and Mississippi WMOs. (*Appendix 5*)

## FINANCES

The Commission's Joint Powers Agreement provides that each member city contributes toward the annual operating budget based 50% on the area located within the watershed boundary and 50% on the tax capacity of all property within the watershed. The 2023 cost allocations to the members are shown as part of the 2023 Operating Budget found in *Appendix 3*.

Of the \$385,250 operating budget approved by the Shingle Creek Commission for 2023 revenue consisting of \$15,000 in application fees and reimbursements, and \$250 in interest income resulted in assessments to members totaling \$370,000.

The West Mississippi Commission approved a 2023 operating budget of \$176,300. Of that amount, \$20,000 consisted of application fees, \$100 in interest income, and assessments to the membership of \$156,200.

Their 2023 Audit Reports, which are being prepared by Johnson & Company, Ltd., Certified Public Accountants, will be available on the Commissions' website, [www.shinglecreek.org](http://www.shinglecreek.org), after June 30, 2024.

The Commissions follow Rule 54 of the Government Accounting Standard Board (GASB) to report Fund Balances. The fund balance classifications include:

- *Nonspendable* – amounts that are not in a spendable form. The Commissions do not have any items that fit this category.
- *Restricted* – amounts constrained to specific purposes by their providers. One

example would be ad valorem levy funds received from the County for capital improvements. projects. The unused portion of these funds must be set aside in a restricted account for similar projects. Another example would be BWSR Legacy Grant proceeds where the funds are received prior to the onset of a project and where any unused portion must be returned to the grantor.

- *Committed* – amounts confined to specific purposes by the Commissions themselves. An example would be residual funds carried over from one year to the next for Studies, Project Identification and Subwatershed Assessments.
- *Assigned* – amounts the Commissions intend to use for specific purposes. Most line items in the Operating Budgets fall under this category.
- *Unassigned* – amounts that are available for any purpose. These amounts are reported only in the general fund.

Amounts paid by the Commissions per their 2022 Annual Audits are:

	Shingle Creek	West Mississippi
General Engineering	132,061	63,560
General Administration	145,675	79,995
Education	44,879	20,957
Programs	95,011	21,966
Projects	213,727	0
Capital Projects	<u>58,433</u>	<u>294</u>
Total	\$689,786	\$186,772

General engineering work includes review of local plans, review of development/ redevelopment projects, tracking grant opportunities, attendance at meetings and other technical services.

General administration includes support to technical staff, attendance at meetings, insurance premiums, bookkeeping and annual audit, legal counsel, and other non-engineering services.

### 2024 Work Plan

The following are activities for the 2024 Work Plan that the Commissions reviewed at their January 2024 meetings. Activities are organized by Goal Areas identified in the Fourth

Generation Plan and as general, routine Commission business.

**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.**

- a. Complete the 5-year performance review for the Bass and Shingle Creek Biotic and DO TMDL.
- b. Partner with the City of Robbinsdale to complete the Crystal Lake Management Plan, including final carp removal under grant.
- c. Partner with the City of New Hope to implement the Meadow Lake Management Plan, including potential additional vegetation and fish management and evaluation of an additional alum treatment.
- d. Partner with the City of Brooklyn Park and Three Rivers Park District to continue planning and design for stream restoration on Shingle Creek from the end point of the Connections project in Brookdale Park to just downstream of Xerxes Avenue.
- e. Complete the Eagle Lake Subwatershed Assessment.
- f. Partner with the City of Maple Grove to initiate the Eagle Lake Management Plan and implement one or more small watershed projects identified in the Eagle Lake Subwatershed Assessment.
- g. Initiate the Colorado Avenue infiltration trench feasibility study that was recommended based on the Gaulke Pond Subwatershed Assessment.
- h. Continue to partner with the USGS to operate the Queen Avenue monitoring site.
- i. Stay abreast of other regional and state TMDLs.
- j. Use funding from the Project Maintenance Fund to upkeep past project improvements, including evaluating options for the France Avenue carp barrier.
- k. Continue to identify, pursue grant funding for, and implement projects and programs addressing the bacterial impairment in the Mississippi River.
- l. Identify boundaries of the untreated areas directly connected to the Mississippi River or other conveyances.

- m. Partner with the MWMO to undertake monitoring at the 65th Avenue outfall.
- n. Execute cooperative agreement with Brooklyn Park for the Mississippi River stabilization project.
- o. Partner with a member city to complete a subwatershed BMP analysis.

**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.**

- a. Complete reviews of development and redevelopment projects as necessary.

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

- a. Participate in the West Metro Water Alliance joint education and outreach group.
- b. Partner with Hennepin County and other local watersheds to fund and provide guidance to the shared Education and Outreach Coordinator.
- c. Work with the shared Education and Outreach Coordinator to offer customized shoreline restoration workshops as part of an effort to enhance outreach to lake associations.
- d. Continue to develop a Chloride Management Plan for the watersheds.
- e. Develop a format and process for incorporating documentation of potential impacts to and outreach to underrepresented populations to increase engagement and help improve equitable outcomes.

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

- a. Consider applying for an MPCA Community Resilience grant in 2024 to model future precipitation scenarios in the watershed.

**Continue ongoing administration and programming.**

- a. Convene with BWSR and other entities eligible to receive funding from the next round of WBIF grants to establish priorities and select projects and strategies for funding. Shingle Creek has been awarded \$191,622 and West Mississippi has been awarded \$152,299, which are available July 1, 2024. The

joint Convene Group will meet in early 2024 with the goal of allocating those funds by May 1, to be contracted in May-June 2024 for expenditure starting July 1. Initial discussion at WMWA is that there is some interest in extending funding for the joint outreach coordinator, which was allocated \$30,000 from the previous WBIF grant.

- b.** Conduct routine Commission lake water quality monitoring and aquatic vegetation monitoring on Eagle and Pike Lakes and grant funded monitoring on Meadow Lake.
- c.** Conduct Shingle Creek Commission routine flow and water quality monitoring at SC-0 and SC-3 on Shingle Creek and Bass Creek Park (BCP) on Bass Creek.
- d.** Conduct West Mississippi Commission monitoring at two outfall sites.
- e.** If available in 2024, sponsor volunteer stream monitoring through RiverWatch.
- f.** Sponsor volunteer lake monitoring through CAMP (Met Council) on up to four lakes.
- g.** Prepare an annual water quality report.
- h.** Solicit cost-share projects from member cities funded from the Cost Share Fund and the annual \$100,000 levy and the Partnership Cost Share Fund and the annual \$50,000 levy.
- i.** Review feasibility studies for 2024 proposed capital projects, undertake Plan Amendments, hold public hearings, order projects, and certify levies.
- j.** Prepare 2025 annual budgets.
- k.** Undertake 2023 annual audits.
- l.** Invite three guest speakers to make lunchtime water resources presentations.
- m.** Initiate the review process for the revised Joint Powers Agreements, which may require a focused education and outreach effort for city staff and councils.

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Have a question about this report? Need more information?

Want to know how to get involved?

Contact us: drop us an email, give us a call, we're happy to help:

<http://www.shinglecreek.org/contact-us.html>



## APPENDICES





**2023 Shingle Creek Commissioners**

<b>Representing</b>	<b>Name</b>	<b>Address</b>	<b>Telephone</b>	<b>Email</b>	<b>Term Expires Jan 31</b>
Brooklyn Center	David Vlasin		651.792.7972	David.vlasin@rwmwd.org	2024
Brooklyn Park	Alex Praszch	6548 Georgia Avenue N Brooklyn Park, MN 55428	763.226.4711	alexa.prasch@gmail.com	2024
Crystal	Burton Orred, Jr. Treasurer	6700 60th Avenue North Crystal, MN 55428	763.533.7808	burtssquirts@gmail.com	2024
Maple Grove	Karen Jaeger Secretary	8459 Rice Lake Road Maple Grove, MN 55369	763.420.3838	jaeger324@comcast.net	2025
Minneapolis	Ray Schoch	5146 Russell Avenue North Minneapolis, MN 55430	612.529.4954	rayeschoch@gmail.com	2025
New Hope	Bill Wills	6149 Gettysburg Avenue N New Hope, MN 55428	763.531.0788	wjw9416@msn.com	2025
Osseo	John Roach	12-Sixth Street NE #113 Osseo, MN 55369	763.315.4258	johnbp60@gmail.com	2026
Plymouth	Andy Polzin Chair	18605 29th Avenue North Plymouth, MN 55447	612.998.4920	rapolzin@msn.com	2026
Robbinsdale	Wayne Sicora Vice Chair	3706 Abbott Avenue North Robbinsdale, MN 55422	763.522.8165	wayne.sicora@erm.com	2026

**2023 West Mississippi Commissioners and Technical Advisory Committee**

Representing	Name	Address	Telephone	Email	Term Expires
Brooklyn Center	David Vlasin Vice Chair		651.792.7972	david.vlasin@rwmwd.org	2024
Brooklyn Park	Alex Prasch	6548 Georgia Avenue N Brooklyn Park, MN 55428	763.226.4711	alexa.prasch@gmail.com	2024
Champlin	Gerry Butcher Chair	309 Dayton Road Unit 204 Champlin, MN 55316	763.557.1451	JG_Butcher@yahoo.com	2025
Maple Grove	Karen Jaeger Sec./Treasurer	8459 Rice Lake Road Maple Grove, MN 55369	763.420.3838	jaeger324@comcast.net	2025
Osseo	John Roach	12-Sixth Street NE #113 Osseo, MN 55369	763.315.4258	Johnbp60@gmail.com	2026

**C o m m i s s i o n e r s**

Brooklyn Center	James Soltis	City of Brooklyn Center 6301 Shingle Creek Pkwy Brooklyn Center, MN 55430	763.569.3332	jsoltis@brooklyncentermn.gov
Brooklyn Park	Mitchell Robinson	City of Brooklyn Park 5200 85th Avenue North Brooklyn Park, MN 55443	763.493.8291	Mitchell.Robinson@brooklynpark.org
Champlin	Heather Nelson	City of Champlin 11955 Champlin Drive Champlin, MN 55316	763.923.7120	hnelson@ci.champlin.mn.us
Maple Grove	Derek Asche	City of Maple Grove 12800 Arbor Lakes Pkwy Maple Grove, MN 55313	763.494.6354	dasche@maplegrovemn.gov
Osseo	Nick Waldbillig	City of Osseo 415 Central Avenue Osseo MN 55369	763.425.5741	nwaldbillig@ci.osseo.mn.us

**T e c h n i c a l A d v i s o r y C o m m i t t e e**

**2023 Shingle Creek Technical Advisory Committee**

<b>Representing</b>	<b>Name</b>	<b>Address</b>	<b>Telephone</b>	<b>Email</b>
Brooklyn Center	James Soltis	6301 Shingle Creek Parkway Brooklyn Center, MN 55430	763.569.3332	jsoltis@brooklyncentermn.gov
Brooklyn Park	Mitchell Robinson	5200 85th Avenue North Brooklyn Park, MN 55443	763.493.8291	mitchell.robinson@brooklynpark.org
Crystal	Mark Ray	4141 Douglas Drive Crystal, MN 55422	763.531.1160	mark.ray@ci.crystalmn.gov
Maple Grove	Derek Asche	12800 Arbor Lakes Parkway Maple Grove, MN 55313	763.494.6354	dasche@ci.maple-grove.mn.us
Minneapolis	Elizabeth Stout	City of Lakes Building #300, 309 Second Avenue South Minneapolis, MN 55401	612.673.5284	Elizabeth.Stout@minneapolismn.gov
New Hope	Nick Macklem	5500 International Parkway New Hope, MN 55428	763.592.6765	nmacklem@newhopemn.gov
Osseo	Nick Waldbillig	415 Central Avenue Osseo MN 55369	763-425-5741	nwaldbillig@ci.osseo.mn.us
Plymouth	Ben Scharenbroich	3400 Plymouth Boulevard Plymouth, MN 55447	763.509.5527	bscharenbroich@plymouthmn.gov
Robbinsdale	Richard McCoy	4100 Lakeview Avenue North Robbinsdale, MN 55422	763.531.1260	rmccoy@ci.robbinsdale.mn.us

### 2023 Shingle Creek and West Mississippi Commissions Staff

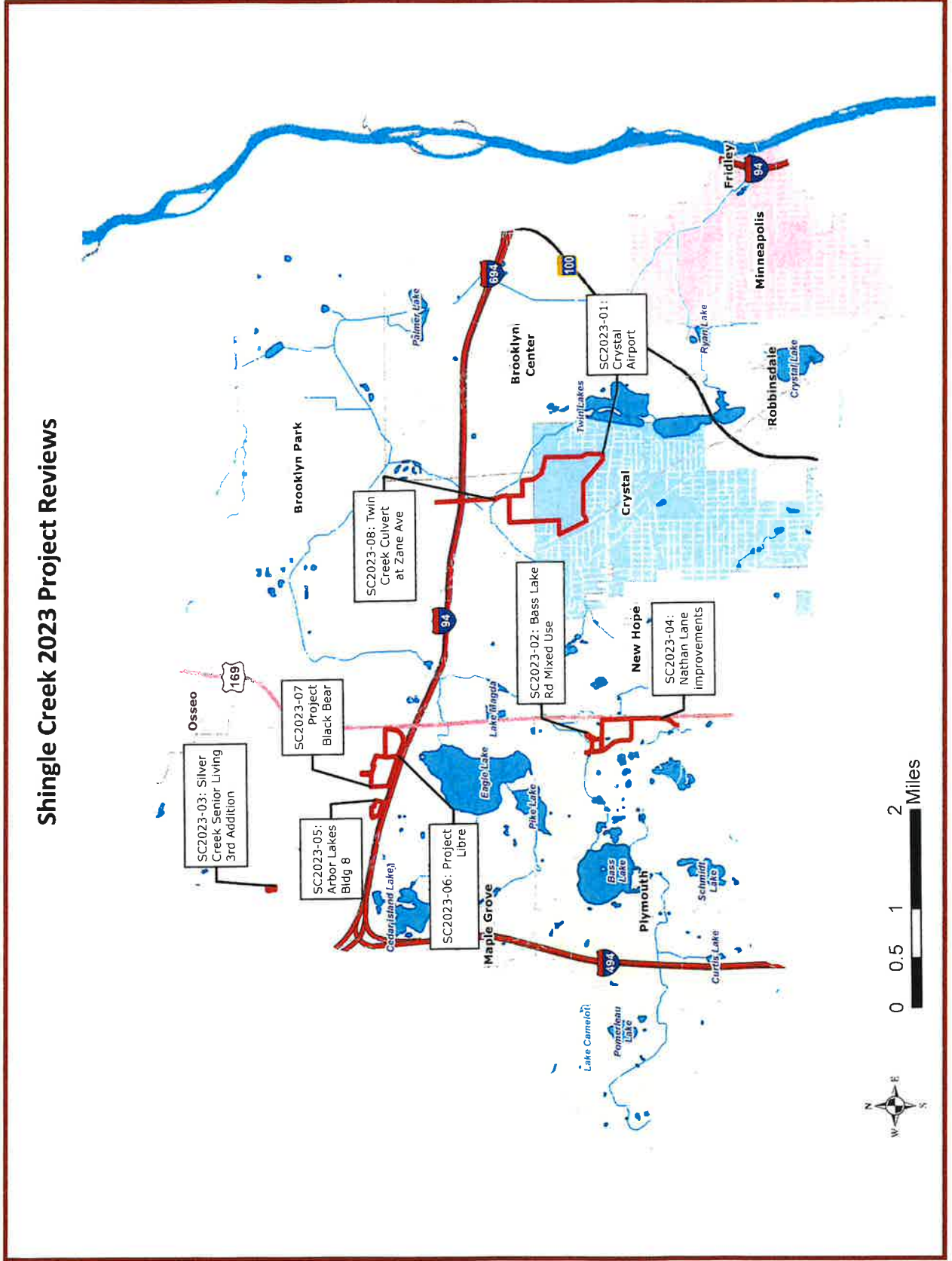
	Name	Address	Telephone	Email
Technical	Todd Shoemaker	Stantec Consulting Services	651.294.4585	todd.shoemaker@stantec.com
	Diane Spector	One Carlson Parkway, Suite 100	763.252.6880	diane.spector@stantec.com
	Katie L. Kemmitt	Plymouth, MN 55447	763.252.6879	katie.kemmitt@stantec.com
Legal	Troy Gilchrist	Kennedy & Graven, Chartered 470 Pillsbury Center Minneapolis, MN 55402	612.337.9214	tgilchrist@kennedy-graven.com
Administrative	Judie Anderson	JASS	763.553.1144	judie@jass.biz
	Amy Juntunen	3235 Fernbrook Lane		amy@jass.biz
	Beverly Love	Plymouth, MN 55447		beverly@jass.biz

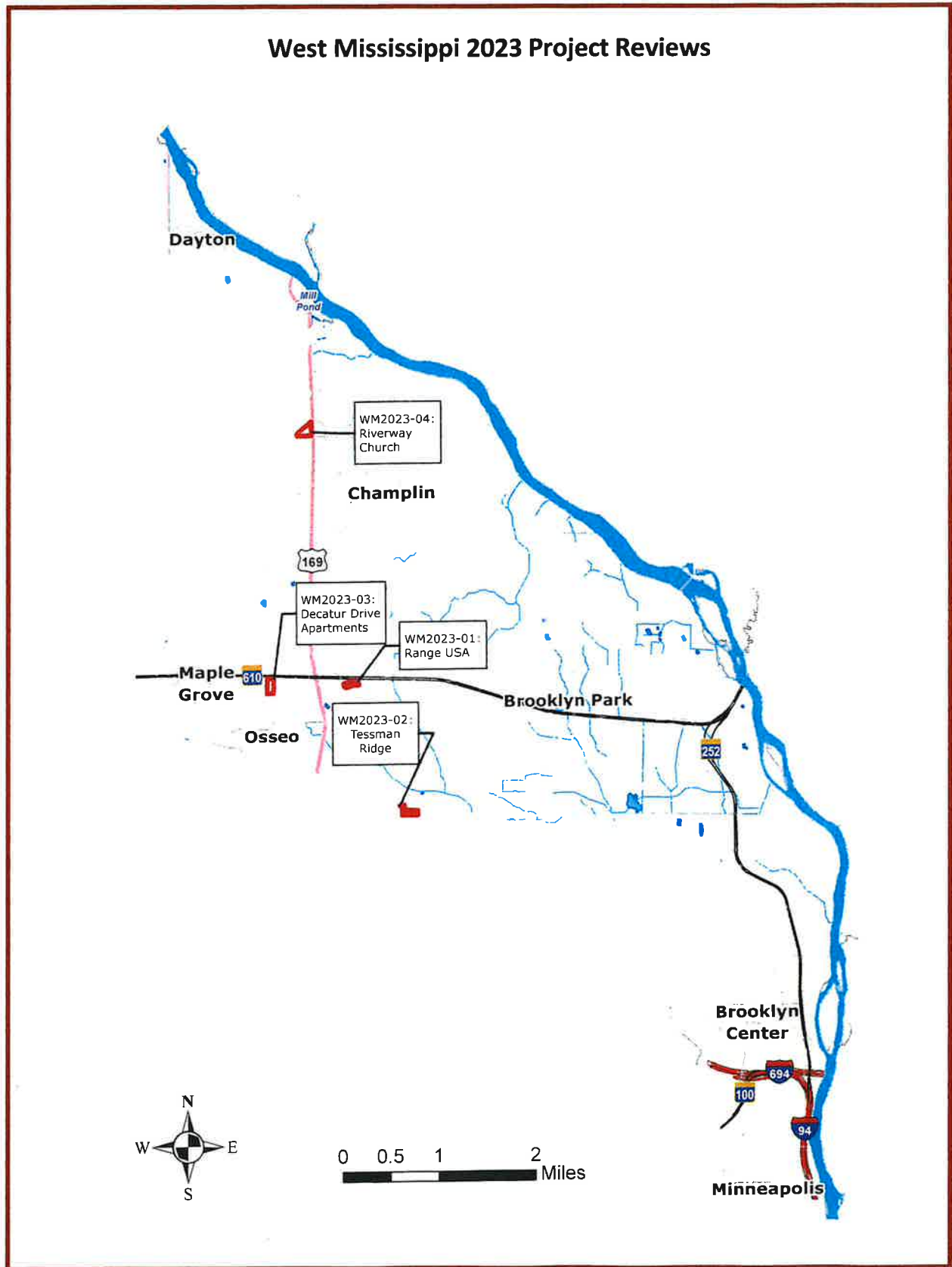
**2023 Shingle Creek and West Mississippi Project Reviews**

	<b>Project</b>	<b>City</b>	<b>WCA LGU</b>	<b>Project Description</b>	<b>Impervious Area</b>	<b>Approved</b>
SC2023-01	Crystal Airport	Crystal	Comm	Construction of two service roads, one taxiway on 4.07 acres.	Following development, site will be 29% impervious with 96 acres of impervious, an increase of 1.88 acres.	4-13-2023
SC2023-02	Bass Lake Road Mixed Use	Plymouth	City	Construction of multi-family apartment and commercial lots on 11.32 acres.	Following development site will be 35% impervious, with 3.94 acres impervious surface, an increase of 3.94 acres.	5-11-2023
SC2023-03	Silver Creek Senior Living Third Addition	Maple Grove	City	Construction of 8 senior living townhomes on 3.13 acres.	Following development site will be 54% impervious, with 1.7 acres impervious surface, an increase of 1.1 acres.	6-8-2023
SC2023-04	Nathan Lane Improvements	Plymouth	City	Construction /reconstruction of Nathan Lane, 56th and 54th Aves., 169 service road on 10.7 acres.	Following development site will be 81% impervious, with 8.7 acres impervious surface, an increase of 0.6 acres.	6-8-2023
SC2023-05	Arbor Lakes Building 8	Maple Grove	City	Construction of one industrial building and associated parking on 9.75 acres.	Following development site will be 85% impervious, with 8.2 acres of impervious, an increase of 8.19 acres.	6-8-2023
SC2023-06	Project Libre	Maple Grove	City	Construction of mixed-use industrial building and parking on 29.8 acres	Following development site will be 51% impervious with 15.1 acres of impervious surface, an increase of 13.3 acres.	9-14-2023

Project	City	WCA LGU	Project Description	Impervious Area	Approved
SC2023-07	Maple Grove	City	Construction of office building, lab, extension of existing Revere Lane and 73rd place on 44.8 acres.	Following construction site will be 80% impervious with 35.8 acres of impervious, an increase of 30.0 acres	9-14-2023
SC2023-08	Brooklyn Park	Comm	Trail construction, culvert repair and maintenance along Zane Ave. from Brooklyn Blvd. to 63rd Ave.	Following development 2.2-acre site will be 61% impervious with 1.35 acres impervious surface, an increase of 0.65 acres	12-14-2023
WM2023-01	Brooklyn Park	Comm	Construction of 15,000 sq. ft. building, parking lot on 4.87 acres	Following development, site will be 36% impervious, 1.73 acres impervious surface, an increase of 1.73 acres.	2-9-2023
WM2023-02	Brooklyn Park	Comm	Construction of two multi-family apartments with childcare center, parking located on NW corner of 85th Ave. and College Pkwy.	Following final development, 6.15-acre site will be 55% impervious with 3.36 acres of impervious surface, an increase of 3.28 acres.	4-13-2023
WM2023-03	Brooklyn Park	Comm	Construction of two apartment buildings, associated parking at NW quadrant of Jefferson Hwy. and Decatur Drive.	Following development 7.8-acre site will be 59% impervious with 4.61 acres of impervious surface, an increase of 4.61 acres.	7-13-2023
WM2023-04	Champlin	City	Construction of church and parking lot north of 117 Ave., east of Champlin Dr., west of Hwy. 169	Following development 7.46-acre site will be 39% impervious with 2.88 acres of impervious, an increase of 2.88 acres.	10-12-2023

### Shingle Creek 2023 Project Reviews







### Shingle Creek Watershed Management Commission

#### 2022-2023-2024 Operating Budgets

		Approved 2022 Budget	Approved 2023 Budget	Approved 2024 Budget
<b>REVENUE</b>				
1	Application Fees	\$20,000	\$15,000	\$15,000
2	Member Assessments	363,590	370,000	370,000
3	Blue Line Extension	0	0	0
4	Interest	5,000	250	20,000
<b>TOTAL REVENUE</b>		<b>\$388,590</b>	<b>\$385,250</b>	<b>\$405,000</b>
<b>EXPENSES</b>				
<b>ADMINISTRATION</b>				
5	Administrative Services	\$71,000	\$70,000	\$70,000
6	Engineering Support	17,000	15,000	15,000
7	Project Reviews/WCA	1,500	1,500	1,500
<b>Subtotal</b>		<b>\$89,500</b>	<b>\$86,500</b>	<b>\$86,500</b>
<b>ENGINEERING</b>				
9	Engineering Services	\$75,000	\$77,000	\$80,000
10	Grant Application Writing	12,000	11,000	12,000
11	Project Reviews/WCA	43,000	30,000	35,000
13	TMDL 5 Year Reviews	5,000	5,000	5,000
<b>Subtotal</b>		<b>\$135,000</b>	<b>\$123,00</b>	<b>\$132,000</b>
<b>LEGAL</b>				
14	Legal Services	\$5,500	\$6,000	\$6,000
<b>MISCELLANEOUS</b>				
15	Bookkeeping	8,000	8,000	8,000
16	Audit	6,500	7,500	7,500
17	Insurance & Bonding	3,200	3,200	3,200
18	Meeting Expense	5,000	5,000	6,000
<b>Subtotal</b>		<b>\$22,700</b>	<b>\$23,700</b>	<b>\$24,700</b>
<b>PROGRAMS</b>				
<b>Monitoring</b>				
19	Stream Monitoring	35,000	34,000	36,000
20	Stream Monitoring-USGS	4,200	4,200	4,200
21	Commission Lake Monitoring	28,000	28,000	30,000
22	Citizen Assisted Lake Monitoring	4,800	5,200	5,000
23	Vol Wetland Monitoring	2,000	0	0
24	Vol Stream Monitoring	1,000	2,000	2,000
25	Annual Monitoring Report	16,000	17,500	16,500
<b>Subtotal</b>		<b>\$91,000</b>	<b>\$90,900</b>	<b>\$93,700</b>

**Shingle Creek Watershed Management Commission  
2022-2023-2024 Operating Budgets**

		Approved 2022 Budget	Approved 2023 Budget	Approved 2024 Budget
	<i>Water Quality Education</i>			
26	Education Program	16,500	17,000	24,000
27	Education Grants	0		
28	WMWA Admin/Tech: SC Share	5,000	5,000	5,000
29	WMWA Impl Activities: SC Share	2,000	2,000	2,000
30	Rain Garden Workshops: SC Share	0	0	0
31	WMWA Educators: SC Share	4,500	4,500	4,500
	<b>Subtotal</b>	<b>\$28,000</b>	<b>\$28,500</b>	<b>\$35,500</b>
	MANAGEMENT PLANS			
32	3 <sup>rd</sup> Gen Plan/Plan Amendments	1,000	0	1,000
33	Subwatershed BMP Assessment	0	5,000	
	<b>Subtotal</b>	<b>\$1,000</b>	<b>\$5,000</b>	<b>\$1,000</b>
	PROJECTS			
34	Contribution to 5 <sup>th</sup> Generation Plan	0		
35	To/(From) Reserves	15,890	21,650	25,600
	<b>Subtotal</b>	<b>\$15,890</b>	<b>\$21,650</b>	<b>\$25,600</b>
	<b>TOTAL OPERATING EXPENSE</b>	<b>\$388,590</b>	<b>\$388,590</b>	<b>\$405,000</b>

## Shingle Creek Watershed Management Commission

### Member Assessments –2022-2023-2024

2022 Community	Acreage	2021 Tax Capacity	Cost Allocation		Cost Based		Total Cost	
			Based on Area		on Tax Capacity		%age	Dollars
			%age	Dollars	%age	Dollars		
Brooklyn Center	3,720	20,453,640	13.07%	23,762.382	10.58%	19,230.292	11.82%	42,992.67
Brooklyn Park	7,080	44,158,668	24.88%	45,225.179	22.84%	41,517.503	23.86%	86,742.68
Crystal	2,480	14,200,096	8.71%	15,841.588	7.34%	13,350.777	8.03%	29,192.37
Maple Grove	5,020	38,788,473	17.64%	32,066.441	20.06%	36,468.504	18.85%	68,534.94
Minneapolis	1,950	13,204,556	6.85%	12,456.087	6.83%	12,414.781	6.84%	24,870.87
New Hope	2,070	17,617,989	7.27%	13,222.616	9.11%	16,564.243	8.19%	29,786.86
Osseo	300	2,345,474	1.05%	1,916.321	1.21%	2,205.189	1.13%	4,121.51
Plymouth	4,380	31,478,480	15.39%	27,978.289	16.28%	29,595.727	15.83%	57,574.02
Robbinsdale	1,460	11,112,638	5.13%	9,326.096	5.75%	10,447.982	5.44%	19,774.08
<b>Total</b>	<b>28,460</b>	<b>193,360,014</b>	<b>100%</b>	<b>181,795</b>	<b>100%</b>	<b>181,795</b>	<b>100%</b>	<b>363,590</b>
2023 Community	Acreage	2022 Tax Capacity	Cost Allocation		Cost Based		Total Cost	
			Based on Area		on Tax Capacity		%age	Dollars
			%age	Dollars	%age	Dollars		
Brooklyn Center	3,720	20,453,640	13.07%	24,181	10.46%	19,344	11.76%	43,525
Brooklyn Park	7,080	44,158,668	24.88%	46,022	22.61%	41,835	23.75%	87,857
Crystal	2,480	14,200,096	8.71%	16,121	7.49%	13,853	8.10%	29,973
Maple Grove	5,020	38,788,473	17.64%	32,632	20.19%	37,349	18.91%	69,980
Minneapolis	1,950	13,204,556	6.85%	12,676	6.67%	12,347	6.76%	25,023
New Hope	2,070	17,617,989	7.27%	13,456	9.02%	16,688	8.15%	30,144
Osseo	300	2,345,474	1.05%	1,950	1.19%	2,197	1.12%	4,148
Plymouth	4,380	31,478,480	15.39%	28,472	16.23%	30,024	15.81%	58,495
Robbinsdale	1,460	11,112,638	5.13%	9,491	6.14%	11,363	5.64%	20,854
<b>Total</b>	<b>28,460</b>	<b>193,360,014</b>	<b>100%</b>	<b>185,000</b>	<b>100%</b>	<b>185,000</b>	<b>100%</b>	<b>370,000</b>
2024 Community	Acreage	2023 Tax Capacity	Cost Allocation		Cost Based		Total Cost	
			Based on Area		on Tax Capacity		%age	Dollars
			%age	Dollars	%age	Dollars		
Brooklyn Center	3,720	20,453,640	13%	24,181	10%	18,689	12%	42,871
Brooklyn Park	7,080	44,158,668	25%	46,022	22%	41,451	24%	87,473
Crystal	2,480	14,200,096	9%	16,121	7%	13,698	8%	29,819
Maple Grove	5,020	38,788,473	18%	32,632	21%	38,801	19%	71,433
Minneapolis	1,950	13,204,556	7%	12,676	6%	12,002	7%	24,678
New Hope	2,070	17,617,989	7%	13,456	9%	16,637	8%	30,093
Osseo	300	2,345,474	1%	1,950	1%	2,265	1%	4,216
Plymouth	4,380	31,478,480	15%	28,472	16%	30,354	16%	58,826
Robbinsdale	1,460	11,112,638	5%	9,491	6%	11,102	6%	20,593
<b>Total</b>	<b>28,460</b>	<b>193,360,014</b>	<b>100%</b>	<b>185,000</b>	<b>100%</b>	<b>185,000</b>	<b>100%</b>	<b>370,000</b>



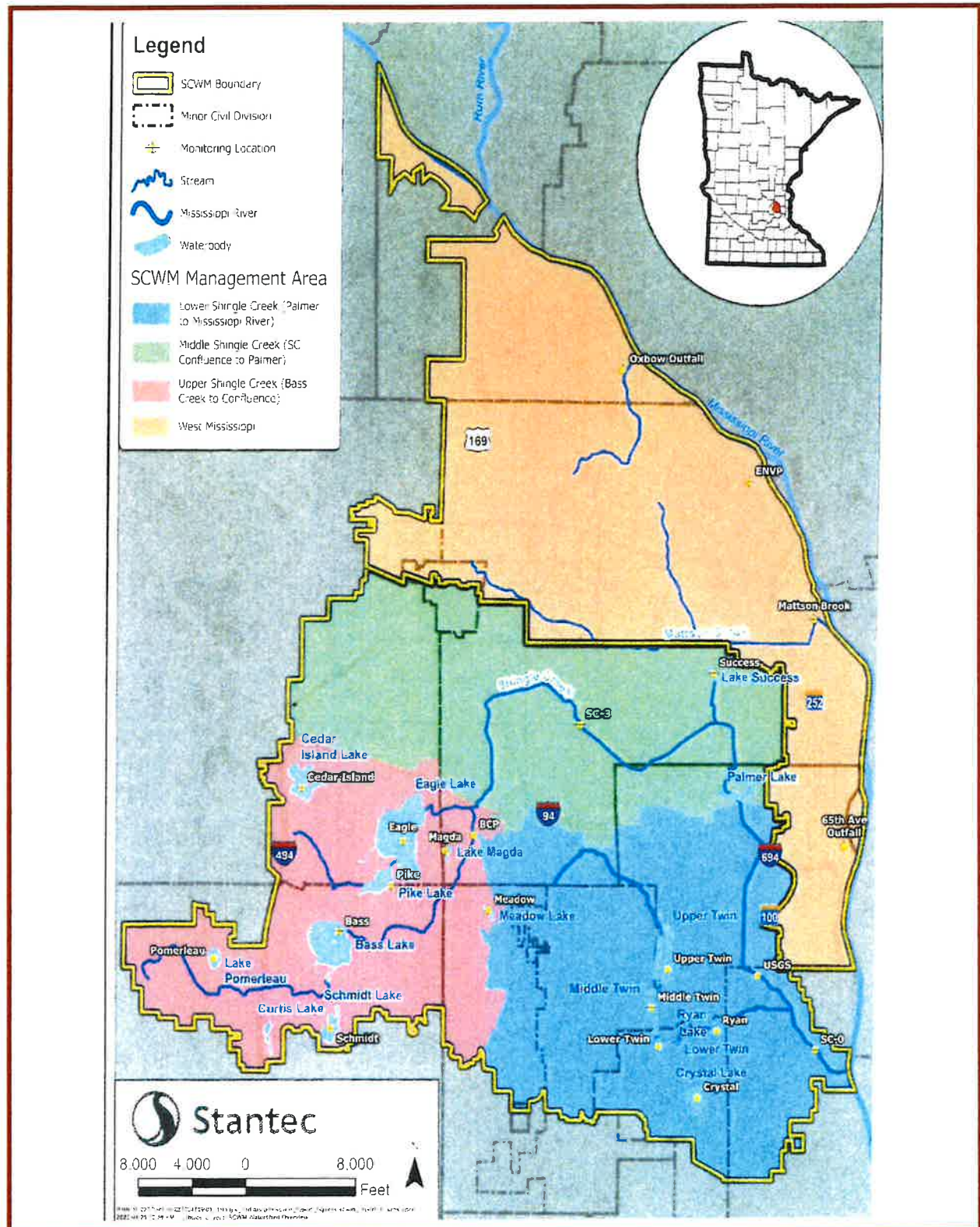
West Mississippi Watershed Management Commission 2022-2023-2024 Operating Budgets				
		2022 Budget	2023 Budget	Proposed 2024
<b>INCOME</b>				
1	Application fees	\$18,000	\$20,000	\$20,000
2	Interest income	2,500	100	5000
3	Assessment	156,200	156,200	160,000
4	Reserve - general	5,000	0	8,000
	<b>TOTAL INCOME</b>	<b>\$181,700</b>	<b>\$176,300</b>	<b>\$193,000</b>
<b>EXPENSES</b>				
	<i>Administration:</i>			
5	Administrative services	\$32,000	\$32,000	\$32,000
6	TAC/engineering support	4,000	4,000	4,000
7	Project reviews/WCA	1,500	1,500	1,500
	<b>Subtotal</b>	<b>\$37,500</b>	<b>\$37,500</b>	<b>\$37,500</b>
	<i>Engineering:</i>			
8	Engineering services	\$33,500	\$32,300	\$35,000
9	Grant writing	500	0	500
10	Project reviews/WCA	30,000	25,000	30,000
	<b>Subtotal</b>	<b>\$64,000</b>	<b>\$57,300</b>	<b>\$65,500</b>
	<i>Legal:</i>			
11	Legal services	\$4,500	\$5,000	\$5,000
	<b>Subtotal</b>	<b>\$4,500</b>	<b>\$5,000</b>	<b>\$5,000</b>
	<i>Miscellaneous:</i>			
12	Accounting	\$3,300	\$3,400	\$4,000
13	Audit	5,000	6,500	6,500
14	Insurance & bonding	3,100	3,000	3,000
15	Meeting expense	2,700	3,000	3,000
	<b>Subtotal</b>	<b>\$14,100</b>	<b>\$15,900</b>	<b>\$16,500</b>
	<i>Monitoring:</i>			
16	Vol stream monitoring	\$0	\$0	\$0
17	Vol wetland monitoring	2,000	2,000	0
18	Outfall & stream monitoring	22,600	22,600	24,000
19	Annual monitoring report	8,000	7,500	8,000
	<b>Subtotal</b>	<b>\$32,600</b>	<b>\$32,100</b>	<b>\$32,000</b>
	<i>Education:</i>			
20	Education program	\$16,500	\$17,000	\$24,000
21	WMWA implementation activities	11,500	11,500	11,500
	<b>Subtotal</b>	<b>\$28,000</b>	<b>\$28,500</b>	<b>\$35,500</b>
	<i>Management Plans:</i>			
22	Plan amendments	\$1,000	\$0	\$1,000
23	Subwatershed BMP assessment	0	0	0
	<b>Subtotal</b>	<b>\$1,000</b>	<b>\$0</b>	<b>\$1,000</b>
24	Contribution to 5th Gen Plan	0	0	0
25	To reserves (pre-audit)	0	0	0
	<b>TOTAL OPERATING EXPENSE</b>	<b>\$181,700</b>	<b>\$176,300</b>	<b>\$193,000</b>

## West Mississippi Watershed Management Commission

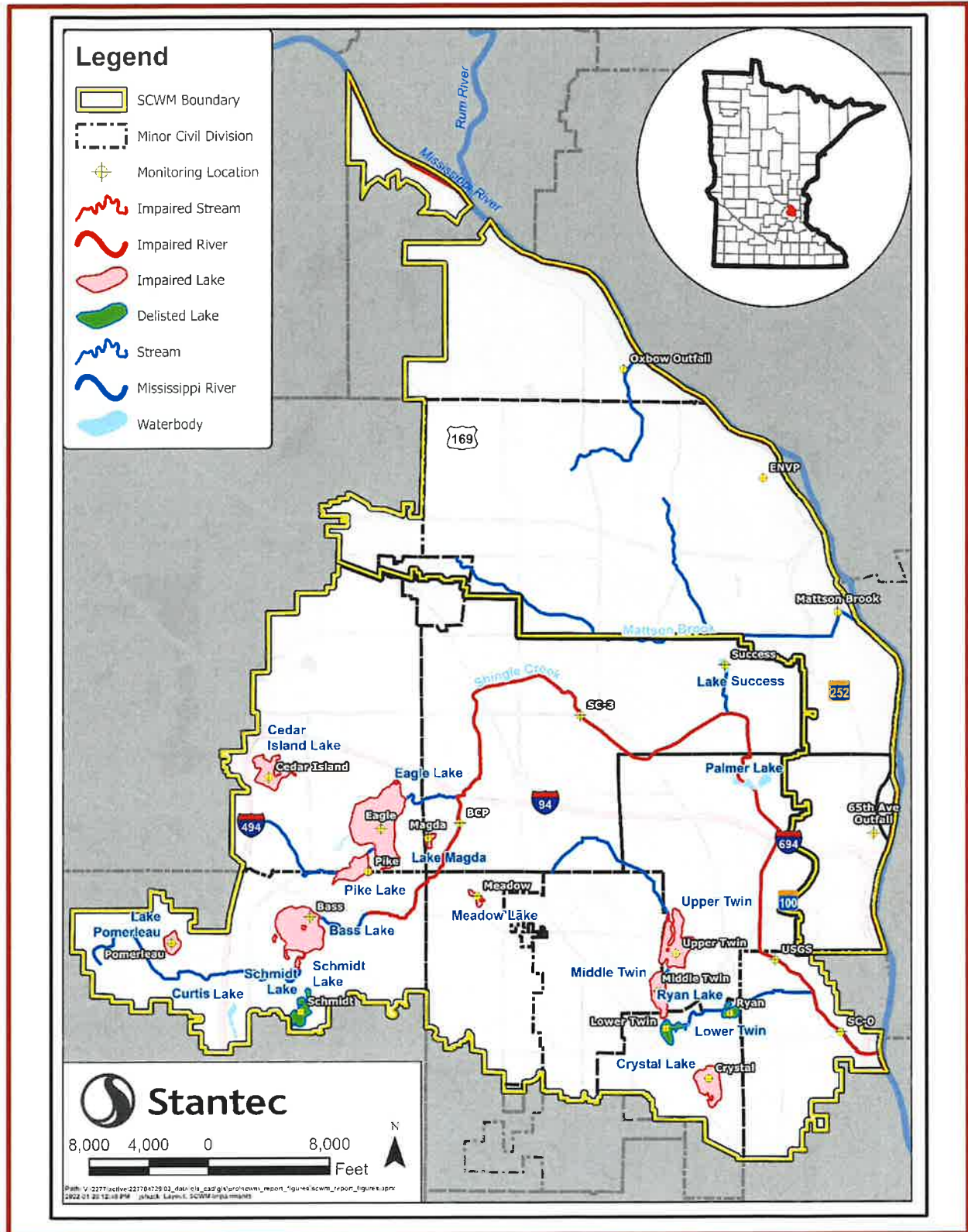
### 2022-2023-2024 Member Assessments

2022	2021 Tax Capacity		Cost Allocation		Cost Based		Total Cost	
Community	Acreage		Based on Area		on Tax Capacity			
			%age	Dollars	%age	Dollars	%age	Dollars
Brooklyn Center	1,660	9,968,236	10.46%	8,160	11.10%	8,666	10.78%	16,835
Brooklyn Park	9,880	53,164,616	62.26%	48,633	59.18%	46,220	60.72%	94,843
Champlin	3,620	21,941,714	22.81%	17,815	24.42%	19,076	23.62%	36,891
Maple Grove	530	3,264,297	3.34%	2,608	3.63%	2,838	3.49%	5,446
Osseo	180	1,495,320	1.13%	885	1.66%	1,300	1.40%	2,185
<b>Totals</b>	<b>15,870</b>	<b>89,834,183</b>	<b>100.00%</b>	<b>78,100</b>	<b>100.00%</b>	<b>78,100</b>	<b>100.00%</b>	<b>156,200</b>
2023	2022 Tax Capacity		Cost Allocation		Cost Based		Total Cost	
Community	Acreage		Based on Area		on Tax Capacity			
			%age	Dollars	%age	Dollars	%age	Dollars
Brooklyn Center	1,660	9,968,236	10.46%	8,160	10.41%	8,128	10.43%	16,298
Brooklyn Park	9,880	53,164,616	62.26%	48,633	60.16%	46,988	61.21%	95,611
Champlin	3,620	21,941,714	22.81%	17,815	24.26%	18,947	23.54%	36,762
Maple Grove	530	3,264,297	3.34%	2,608	3.62%	2,824	3.48%	5,432
Osseo	180	1,495,320	1.13%	885	1.55%	1,213	1.34%	2,098
<b>Totals</b>	<b>15,870</b>	<b>89,834,183</b>	<b>100.00%</b>	<b>78,100</b>	<b>100.00%</b>	<b>78,100</b>	<b>100.00%</b>	<b>156,200</b>
2024	2023 Tax Capacity		Cost Allocation		Cost Based		Total Cost	
Community	Acreage		Based on Area		on Tax Capacity			
			%age	Dollars	%age	Dollars	%age	Dollars
Brooklyn Center	1,660	12,820,589	10.46%	8,368	10.04%	8,031	10.25%	16,399
Brooklyn Park	9,880	76,834,739	62.26%	49,806	60.16%	48,128	61.21%	97,933
Champlin	3,620	30,101,719	22.81%	18,248	23.57%	18,855	23.19%	37,103
Maple Grove	530	6,081,491	3.34%	2,672	4.76%	3,809	4.05%	6,481
Osseo	180	1,880,088	1.13%	906	1.47%	1,178	1.30%	2,084
<b>Totals</b>	<b>15,870</b>	<b>89,834,183</b>	<b>100.00%</b>	<b>78,100</b>	<b>100.00%</b>	<b>80,000</b>	<b>100.00%</b>	<b>160,000</b>

### Watershed Management Areas



### Water Monitoring Sites





### Revised Watershed Boundaries

