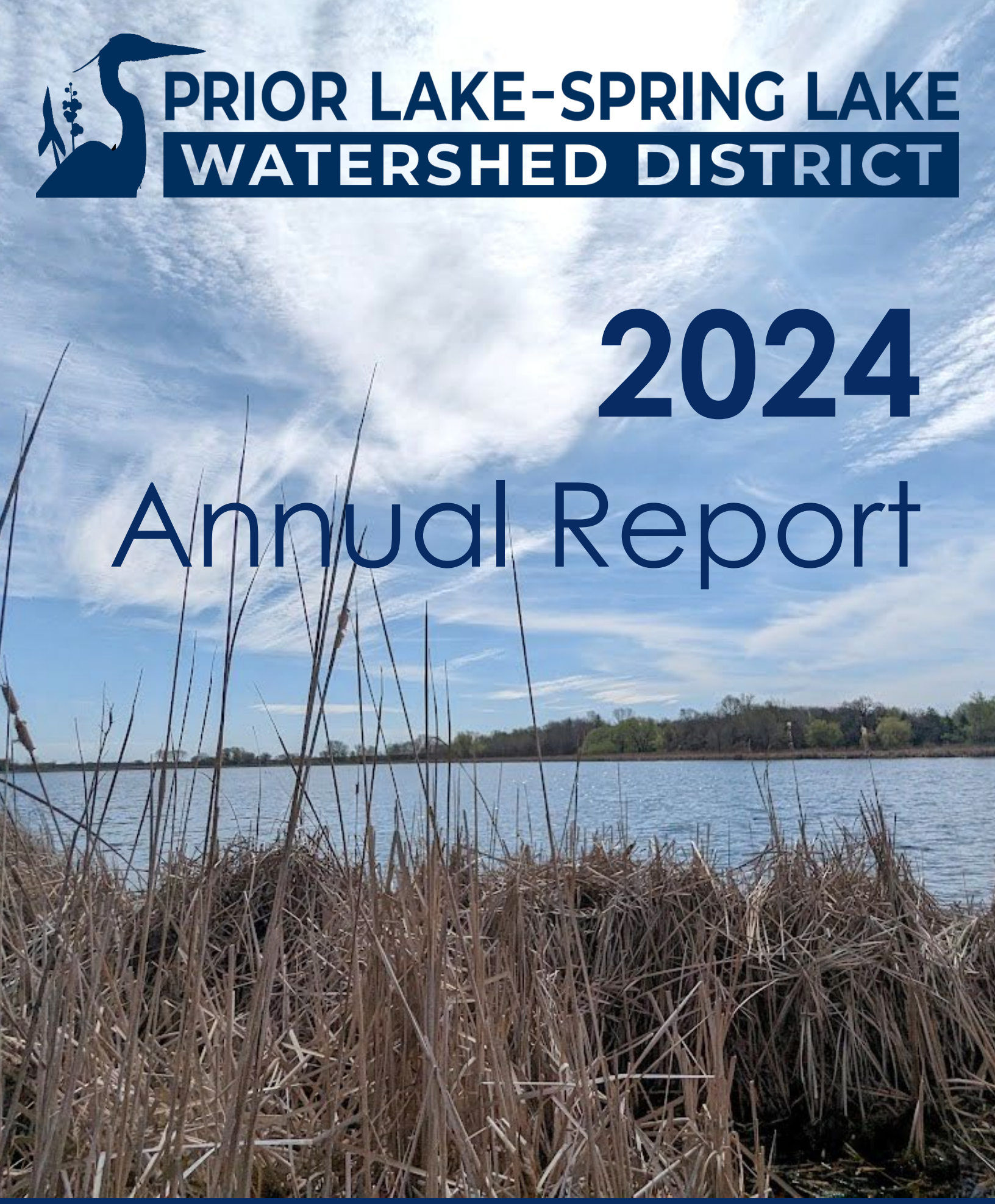
PRIOR LAKE-SPRING LAKE
WATERSHED DISTRICT

2024
Annual Report



4646 Dakota St SE, Prior Lake, MN 55372
info@plslwd.org | 952-447-4166

This report has been prepared by the Prior Lake-Spring Lake Watershed District (PLSLWD, or District) and details the activities of the District through the calendar year 2024. The report will focus on the District's program and project accomplishments relative to the approved Capital Improvement Plan established in the 2020 PLSLWD Water Resources Management Plan and annual work plan. Annual reporting requirements listed in Minnesota Rules Chapter 8410.0150, Subpart 3 will also be included in this report.

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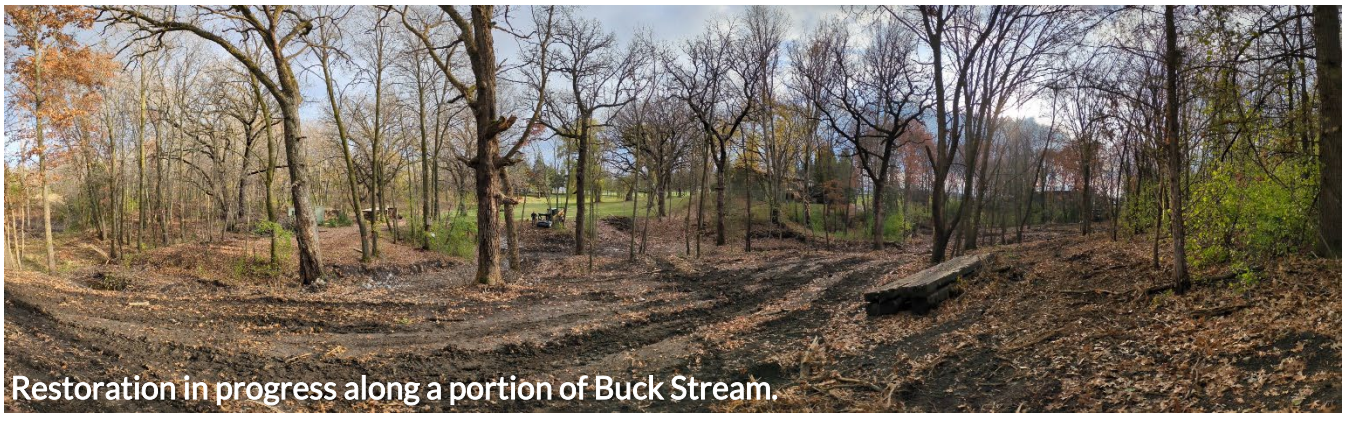


Restoration in progress along a portion of Buck Stream.

ABOUT PLSLWD

Our mission is to manage and preserve the water resources of the Prior Lake-Spring Lake Watershed District to the best of our ability using input from our communities, sound engineering practices, and our ability to efficiently fund beneficial projects which transcend political jurisdictions.

The Prior Lake-Spring Lake Watershed District was established on March 4, 1970, by order of the Minnesota Water Resources Board (MWRB) under the authority of the Minnesota Watershed Act (Minnesota Statutes, Chapter 112). The order was in response to a petition filed by resident landowners within the watershed on June 24, 1969. This citizen petition sought establishment of the District for the purposes of wisely managing and conserving the waters and natural resources of the watershed.

HYDROLOGIC BOUNDARY

The PLSLWD is approximately 42 square miles in size and located in north central Scott County, Minnesota, encompassing parts of the cities of Prior Lake, Shakopee, and Savage, parts of Sand Creek and Spring Lake Townships, and a portion of the Shakopee Mdewakanton Sioux Community (SMSC) tribal lands (Fig. 1). PLSLWD Boundaries roughly follow the Lower Prior Lake hydrologic watershed boundaries.

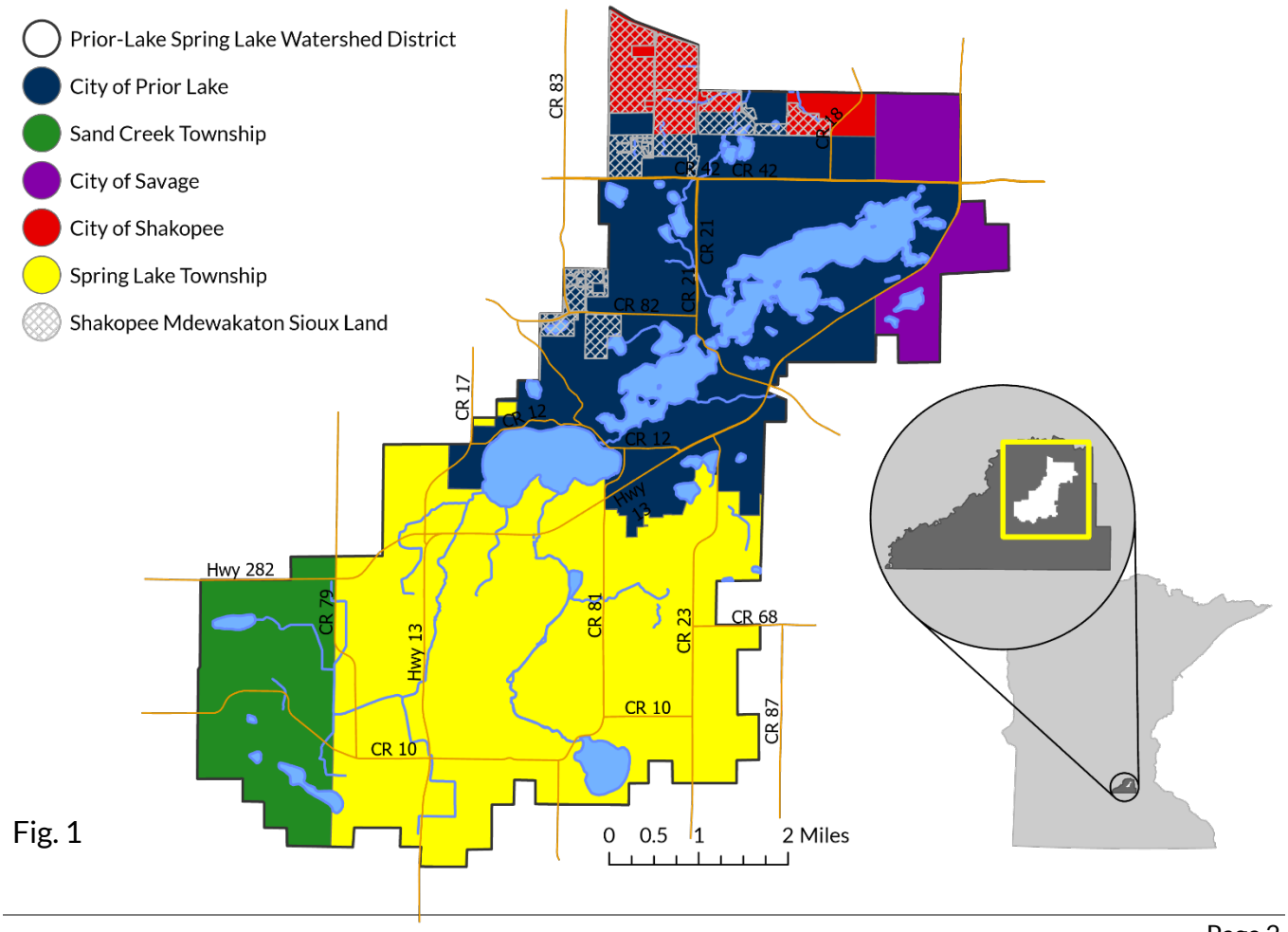


Fig. 1

BOARD OF MANAGERS

PLSLWD is administered by a five-person Board of Managers (Board) appointed by the Scott County Commissioners. Current Board members, terms, and contact information is maintained on the District's website. The Board meets on the third Tuesday of each month at 6:00 PM at Prior Lake City Hall, located at 4646 Dakota St. SE, Prior Lake, MN 55372. Meeting notices, agendas and approved minutes are available on the District website.

Board members who served during the calendar year 2024 are listed below.			
Manager	**Position**	**Residence**	**Term Expiration**
Bruce Loney	President	Prior Lake	03/02/2025
Frank Boyles	Vice President	Prior Lake	06/25/2026
Christian Morkeberg	Treasurer	Spring Lake Twp	03/02/2025
Ben Burnett	Secretary	Prior Lake	03/04/2027
Matt Tofanelli	--	Prior Lake	06/11/2025

CITIZEN ADVISORY COMMITTEE

The Prior Lake-Spring Lake Watershed District formalized its Citizen Advisory Committee (CAC) in 2011. The CAC consists of residents who provide input and recommendations to the Board on projects, reports, prioritization, and act as the primary interface for the Board to integrate the current issues of concern of the local citizens. The CAC meets on the last Thursday of odd months at 6:00 PM at the Prior Lake City Hall, located at 4646 Dakota St. SE, Prior Lake, MN 55372.

CAC members that served during the calendar year 2024 are listed below.			
Member	**Position**	**Residence**	**Term Expiration**
Loren Hanson	Chair	Spring Lake Twp	04/15/2027
Maureen Reeder	Vice Chair	Spring Lake Twp	03/31/2024
Curtis Witt	Vice Chair	Prior Lake	03/31/2025
Ron Hoffmeyer	Secretary	Prior Lake	03/31/2025
Anna Alswager	--	Prior Lake	11/13/2026
Amy Butani	--	Spring Lake Twp	01/15/2027
Richard Schirber	--	Prior Lake	01/15/2027
Ryan Murr	--	Prior Lake	03/18/2027
Aaron Pietsch	--	Savage	11/18/2027

STAFF

Day-to-day operations of the Prior Lake-Spring Lake Watershed District are managed by a District Administrator and staff. All staff can be contacted through the main District phone number, 952-447-4166, or at the District Office, 4646 Dakota Street SE, Prior Lake, MN 55372.

Staff	Title	Contact
Joni Giese	District Administrator	jgiese@plslwd.org
Jeff Anderson	Water Resources Coordinator	janderson@plslwd.org
Emily Dick	Water Resources Project Manager	edick@plslwd.org
Patty Dronen	Administrative Assistant	pdronen@plslwd.org
Zach Nagel	Water Resources Technician	znagel@plslwd.org
Danielle Studer	Water Resources Specialist	dstuder@plslwd.org

CONTACT PERSON

Joni Giese
(952) 440-0067
jgiese@plslwd.org
4646 Dakota Street SE, Prior Lake, MN, 55372(952) 440-0067

CONSULTING SERVICES

In accordance with MN Statutes 103B.227, the District solicits proposals for legal, professional, or technical consultant services at least every two years. The following are the consulting firms selected in 2023 for 2024/25 consulting services:

Role	Consultant	Contact Person	Phone	Website
Audit	Abdo	Andrew Berg	952-835-9090	www.abdosolutions.com
Legal Services	Smith Partners, PLLP	Charles Holtman	612-344-1400	www.smithpartners.com
District Engineer	Emmons and Olivier Resources, Inc.	Carl Almer	651-770-8448	www.eorinc.com
Accountant	CliftonLarsonAllen LLP (CLA)	Christopher Knopik	612-376-4500	www.claconnect.com

WATER MANAGEMENT PLANS

LOCAL WATER PLAN ADOPTION AND IMPLEMENTATION

Minnesota Rules Chapter 8410 required that local units of government adopt their local water plans not more than two years before their local comprehensive plan is due. The District has previously reviewed and/or approved: the Scott WMO's Comprehensive Water Resources Management Plan; Lower MN River Watershed District's Watershed Management Plan; the City of Savage's Local Water Plan; the City of Shakopee's Surface Water Management Plan and Prior Lake's Local Surface Water Management Plan. PLSLWD participated in an advisory committee for the Lower Minnesota River East Comprehensive Watershed Plan. PLSLWD did not adopt the plan and will continue to use the District's Water Resources Management Plan to direct the District's programs and projects. PLSLWD is currently serving on the Technical Advisory Committee for the Scott WMO's Comprehensive Water Resources Management Plan update.

PLSLWD WATER RESOURCES MANAGEMENT PLAN

The Minnesota Board of Water and Soil Resources (BWSR) approved the District's fourth generation 2020 to 2030 Water Resources Management Plan (WRMP) on June 24, 2020, and the District Board adopted the plan at its July 14, 2020, meeting. It was amended on May 21, 2024. A digital copy of the WRMP is available on the District website or by request, and hard copies are available at the District office.

The WRMP is centered on the three priority concerns listed below:

- Water Quality: Maintaining or improving the water quality in PLSLWD's resources with most emphasis on lakes that have public access and are most widely used.
- Aquatic Invasive Species (AIS): Continued monitoring and management of existing AIS (curly-leaf pondweed, Eurasian water milfoil, zebra mussels and common carp), as well as prevention of new AIS.
- Flood Reduction: Making strides toward flood reduction goals on Prior Lake (e.g. upstream storage) and reducing the impacts of flooding in other areas in the District.

ASSESSMENT OF THE 2024 WORK PLAN

The assessment of the 2024 work plan is organized by the implementation action categories listed in the WRMP. Each section will start with a table showing the actions listed in the 2024 Work Plan from the 2023 Annual Report, followed by a narrative report. The status of tasks will be denoted with the symbols below:

☑	Completed, no additional details.
!	Completed, additional details below.
☒	Not completed, no additional details below.
⚠	Not completed, additional details below.

CAPITAL PROJECTS

In 2024, the District made significant progress in securing landowner support for several potential capital projects in 2024.

Secure landowner support for several capital projects.	!

SWAMP LAKE IRON-ENHANCED SAND FILTER

The Swamp Lake Phosphorus and Peak Flow Reduction feasibility study was completed in 2023 and provided a concept design of a preferred alternative. The proposed alternative is predicted to achieve an 89.1 lb. reduction of total phosphorus, which would aid in meeting nutrient targets in the Spring Lake TMDL. Staff worked with the landowner in early 2024 to procure a permanent easement for the access and project footprint. Staff retained Emmons and Olivier Resources, Inc. for engineering consulting services to advance the project to final design, bidding, and construction in late 2024, with construction proposed for 2025/2026.

BUCK STREAM STABILIZATION

The District partnered with Scott SWCD and two landowners to restore 1,300 feet of Buck Stream, a tributary to the east of Buck Lake, in 2024. The project area focused around a highly erosive segment of the stream that was estimated to contribute 56 tons of sediment and 56 pounds of phosphorus per year downstream and into Buck Lake. This section of Buck Stream had become disconnected from its natural

floodplain and continued to erode further into the soil as bank stability decreased. The problem was exacerbated by an aggressive presence of invasive species, particularly common buckthorn, in the riparian zone. These invasives outcompete native plants and prevent good root growth to stabilize banks.

Construction was completed in the late fall of 2024 and included removing invasive plants and using natural materials like rock, logs, and root wads to reestablish bank stability and structure. The stream stabilization also includes features designed to slow down the water in stepped banks, riffles and pools. It is expected that the project will establish a long-term erosion-resilient stream. The District will continue invasive plant management in 2025 and 2026 to assist with native plant establishment, after which the landowners will be responsible for maintenance. The District holds a temporary conservation easement for a period of 10 years on the properties to protect the intent of the project.

200 STREET POND IMPROVEMENT

The 2023 Fish Lake Management Plan identified the 200 Street Pond Improvement project as a proposed project to address watershed nutrient loading to Fish Lake. In 2024, District Staff worked with Scott SWCD and landowners to progress design concepts of the pond improvements. The project is expected to reduce phosphorus loading to Fish Lake by 4 pounds per year. Construction is expected in Winter 2025/2026.

FERRIC CHLORIDE SYSTEM IMPROVEMENTS

The District completed an assessment of Ferric Chloride system components in 2023. The Board authorized initiating the recommended improvements in 2024, and EOR was contracted for final design, quote solicitation, and construction observation. On the District's behalf, EOR administered two Request for Quotes (RFQ) cycles in 2024. The first RFQ encompassed all the improvements in one scope of work. The second RFQ cycle separated driveway improvements and building improvements into two different solicitations. Two contractors were selected for contracting in December 2024, with construction expected in Spring 2025.

OPERATIONS AND MAINTENANCE

The carp will be tracked using PIT tags, radio tags, and visual observations.	!
The District plans to stock bluegills in the FeCl desilt pond where carp continue to be observed	!
The District will continue removal efforts of carp from Spring Lake and shift efforts to conducting a mark and recapture study on Upper Prior Lake.	!
Aquatic point intercept vegetation surveys will be performed on three District lakes and ponds in 2024.	!
Aquatic vegetation treatment may occur in Fish, Prior, and Spring Lakes, depending upon the survey reports.	!
The District will continue to perform AIS inspections at boat launches on Spring, Upper Prior, Lower Prior and Fish Lakes.	!
Continue Operation and Maintenance of FeCl Facility.	!
Complete the Ferric Chloride System Assessment to evaluate the lifespan of the existing ferric chloride system elements and make recommendations.	!
Complete some near-term FeCl Facility system updates, and/or designs to support larger updates in further years.	!
Vegetation maintenance will continue at the District's Spring Lake parcel restoration site.	☑
Continue Cost Share Program.	!
Continue Farmer-Led Council.	!

CARP MANAGEMENT

The Carp Management Program seeks to enhance the water quality of the District's lakes by reducing total phosphorus levels through the Integrated Pest Management (IPM) Plan. The program consists of various elements, such as monitoring carp populations and their movement, methods to reduce these populations, and involving the local community.

In 2024, the District continued to track the movement of 17 radio-tagged carp in Spring Lake and Upper Prior Lake using a Yagi antenna and receiver to create spatio-temporal maps. The District also tracks carp

through Passive Integrated Transponder (PIT) tags, which function like a pet microchip. Five PIT stations were installed throughout the watershed to record carp movement.

Approximately 700 of the 1200 active PIT tags were implanted for a mark-and-recapture population study for Upper Prior Lake in 2024. This study estimated the population has dropped to 48.5 +/- 6 kg/ha in Upper Prior Lake, which surpasses the District's biomass goal of 100 kg/ha.


Remote-controlled gate used to trap carp for 2024 population study.

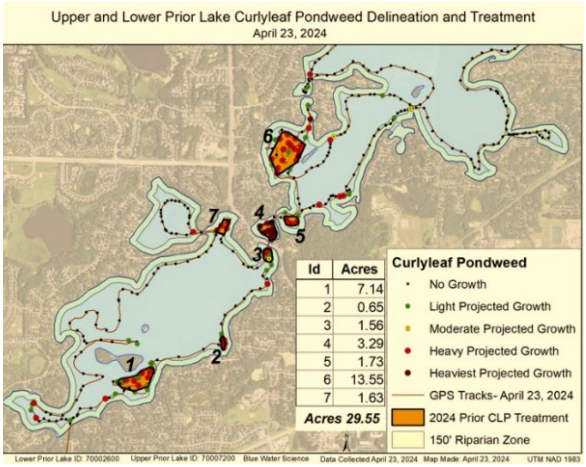
For several years, common carp were observed inhabiting and spawning in the ferric chloride system desilt pond. A total of 1,850 bluegills, which are prolific eaters and will prey on carp eggs, were stocked in the desilt pond to act as biocontrol. Bluegill stocking is a management strategy used to reduce recruitment and overall population numbers.

District staff also maintained six carp barriers to prevent access to spawning areas. In 2024, these were located at: 12/17 Wetland, Tadpole Pond, Desilt Pond, FeCl Weir, Arctic Lake Outlet, and Northwoods Pond. Carp migration spawning activity will be monitored to see if any additional barriers are needed moving forward.

The District's goal in 2025 is to focus efforts on carp removals from Spring Lake and shift to maintenance activities as outlined in the IPM plan for Upper Prior Lake.

AQUATIC VEGETATION MANAGEMENT

Aquatic vegetation management for curly-leaf pondweed (CLP) was conducted on Spring, Upper Prior, and Lower Prior Lakes in 2024. PLM Lake and Land Management Corporation treated 19.34, 10.95, and 18.56 acres respectively, using the herbicide Diquat. Curly-leaf pondweed treatment was funded primarily by Scott County's AIS Prevention funds from the Minnesota Legislature with a small portion by District levy.



The image on the right shows the delineation and treatment map for Upper and Lower Prior Lakes. Locations identified as 1 through 7 were treated where Blue Water Science delineated projected heavy growth of CLP. In addition to CLP treatments, the District supported Spring Lake Association actions to manage Eurasian Watermilfoil (EWM) found in Spring Lake through aquatic plant delineations.

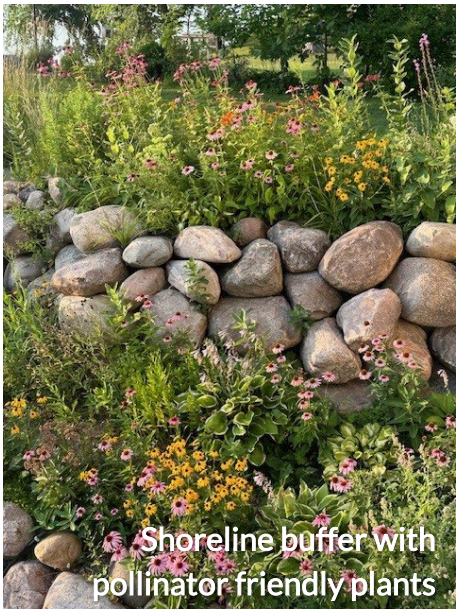
FERRIC CHLORIDE TREATMENT FACILITY

In 1998, the PLSLWD constructed the ferric chloride ($FeCl_3$) treatment system to remove phosphorus from County Ditch 13, the main inflow to Spring Lake. Updates were made to the system in 2013 at the injection point and in 2020 at the weir in response to MPCA permit requirements and to improve maintenance and carp management. In 2023, the District began a system assessment to review equipment wear, dosing, and operations, and to recommend improvements for performance and optimization. The system assessment took shape in 2024 with the replacement of the system electronics including the sensors that monitor surface water flow and tank level, as well as the data logger that controls the automated dosing. Other structural updates, including reinforced driveway, pump skid, piping, garage door, and tank, are anticipated to be completed in 2025 through the capital project "Ferric Chloride Site Improvements." The system assessment also evaluated potential efficiency gains from altered dosing, chemicals, mixing, and desiltation pond alterations. The assessment recommended an altered seasonal dosing rate to improve phosphorus removal in seasonal flows, and to further assess desiltation pond alterations.

In 2024, water entering the desiltation pond was treated with a total of 5,620 gallons of ferric chloride from April 1 to November 26. Dosing was intermittent during late summer when lower flows occurred. Due to the planned replacement of the ferric chloride tank in the winter of 2024/2025, dosing continued until the tank was run dry. Over the year, the system achieved higher than average nutrient reductions, with the total phosphorus (TP) within water flowing through the system decreasing by 30% and ortho-phosphorus (OP) by 63%, coinciding with calculated removal rates of 972.94 lbs of TP and 851.75 lbs of OP being removed.

COST SHARE

The District has a cost share incentive program for residents and agricultural producers coordinated with the Scott Soil and Water Conservation District (Scott SWCD). Scott SWCD received requests for assistance and provided follow-up to 56 landowners, of which 55 were new requests for conservation assistance. There were 27 projects approved, and 26 cost share projects completed. Cost share projects completed in 2024 include 3.8 acres of prescribed burn, 2 rain gardens, and several projects amounting to 45,230 square feet of natural landscaping (native prairie, pollinator, natural shoreline), and 1,313 feet of streambank restoration. The cost share program in 2024 amounted to 223.9 lbs of phosphorus reduction and 192.1 tons of sediment reduction.


Shoreline buffer with pollinator friendly plants

FARMER-LED COUNCIL

The Farmer-Led Council (FLC), created in 2013, helps the District reduce nutrient loading to Spring Lake. Because agricultural lands make up a large portion of Spring Lake's watershed, active input and participation from farmers is critical to achieving water quality goals.

The FLC, represented by local farm leaders, guides strategy development and implementation to achieve agriculture's share of the nutrient reduction goal. Specifically, the FLC aims to:

- Inform decision makers and the general public about practical issues and opportunities related to soil and water conservation on agricultural lands.
- Identify sustainable agriculture practices for both standard and site-specific applications.
- Define the approach for engaging with and assisting farmers to implement practices.
- Establish a schedule with reasonable milestones and timelines for progress.
- Identify potential barriers to implementation, along with tools and resources that are needed to overcome them.

The District held two FLC meetings in 2024 where a variety of agricultural topics related to water quality were discussed. One of the meetings also served as an awards luncheon for the 2024 Lake Friendly Farm awardees. The Lake-Friendly Farm (LFF) program was developed in 2017 to recognize and incentivize targeted phosphorus reduction in the upper watershed. In 2024, two new farms were certified. In total, 959 acres have been certified through the Lake Friendly Farm program. Approximately 16.7% of cropland in the District has been certified as "Lake-Friendly." The estimated phosphorus reduction benefit from the LFF program so far is 360 pounds of phosphorus and 272 tons of sediment a year.

The cover crop program is a top priority because cover crops provide significant and quantifiable water quality benefits while being compatible with production agriculture. Cover crops on 558 acres in 2024 resulted in a reduction of over 600 pounds of phosphorus. Since 2018, a total of 3,761 acres of cover crops have been planted resulting in estimated total phosphorus reductions of 2,474.4 pounds, or an average of 412.4 pounds per year.

Additionally, the FLC has promoted soil health practices that reduce erosion by leaving the previous year's crop on the ground and reducing tillage. These practices are collectively referred to as "high residue management" and provide quantifiable water quality benefits. In 2024, the FLC supported 449 acres of high residue management practices. These acres yielded an estimated phosphorus reduction of over 200 pounds per year.

EDUCATION AND OUTREACH

Meet the requirements of our MS4 permit.	☑
Improve understanding of local water resources and practices among all stakeholders in the District	!
Continue working with the Scott County Clean Water Education Program	!
Update the website and write articles for submittal to local newspapers	!
Complete the goals listed in the 2024 Education and Outreach Plan	!
Support, organize, and facilitate the Citizen Advisory Committee and its projects.	!

CITIZEN ADVISORY COMMITTEE

The Citizen Advisory Committee (CAC) serves to advise the District Board and staff on issues related to lakes and other water resources within the District and acts as voice of the community, helping the District to better understand its residents' concerns and priorities. The CAC met seven times in 2024, generally on a bimonthly schedule beginning in January. In June, the CAC met with the Board of Managers to discuss priorities for the 2025 budget and to tour projects completed through the District's cost share incentive program. Members also attended many outreach events and volunteered at Starry Trek and Fall Community Fest.

In previous years, many CAC members expressed concern about the impact of wake boats on lake health. In May 2024, the CAC voted to recommend that the Board of Managers provide funds to local lake associations to support the production of educational materials on the use of wake boats and other topics relevant to the District's goals. This recommendation was approved by the Board of Managers and Education and Outreach funds were used to support the production of Prior Lake and Spring Lake maps with educational messaging.

The CAC experienced significant membership growth in 2024. Despite one member not renewing membership, the CAC grew from five members at the end of 2023 to eight members at the end of 2024. Its membership now includes representation of a wider range of age, gender, and location throughout the District.

In 2025, members plan to work within subcommittees to identify opportunities to improve the District's work.

COMMUNITY INVOLVEMENT

The District worked with many partners in 2024 to create meaningful events and improve understanding of local water resources and projects across the community. A highlight of the outreach program in 2024 was an event series titled Watershed Week, which featured three events across a week in July and partnerships with other LGUs, local businesses, and social clubs. The series helped to make new connections with residents and attracted over 80 attendees across the week.


Great Scott Cycling Club learns about Artic Lake during Watershed Week

In the spring, the District worked with two local high school students to paint stormwater inlets with "Drains to Lake" messaging. The District also held a volunteer buckthorn removal event and subsequent buckthorn wreath-making event in the fall.


District Staff teaches the water cycle at Outdoor Education Days

The District is also a partner of the Scott Clean Water Education Program (SCWEP), a partnership of local government organizations in Scott County that strives to educate and inform residents about ways to improve the quality of our lakes and rivers. In 2024, SCWEP hosted five workshops, including a "Stabilize your Shoreline" workshop within the District. SCWEP also provides tabling assistance, news releases, including topics related to District activities, and youth education, including hosting the 38th annual Outdoor Education Days. A full list of outreach activities completed through SCWEP can be found in the 2024 SWCEP Annual Report.

A full report of the Education and Outreach completed in 2024 can be found on the District website detailed in the 2025 Education and Outreach plan.

PRESS AND SOCIAL MEDIA

In 2024, the District did a website overhaul to present a clean and modern look and provide up-to-date information to its residents. Residents can now navigate to lake level information from the website's home page.

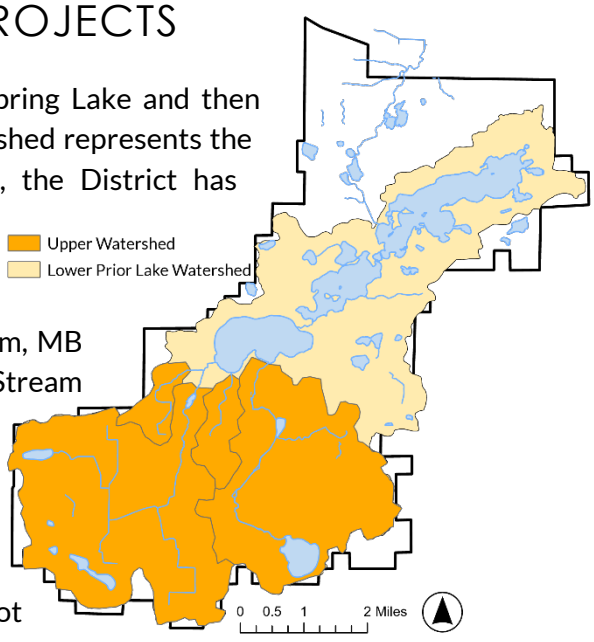
The District published 10 articles in 2024, which were featured in the Prior Lake Association's newsletter, Spring Lake Association's newsletter, the Scott County SCENE, and on the District's website. These covered topics ranging from project updates, general watershed science topics, and outreach event descriptions. The District also maintained a social media presence on Facebook and Instagram with over 14,000 views of our content.

PLANNING

Design, permitting, and construction for Swamp IESF	!
Actions identified in the Fish Lake Management Plan will be prioritized and acted upon as landowners are willing and funding allows.	!
The District will participate in a convening process to establish projects to be funded by the 2024/2025 WBIF grant.	☑
Design, permitting, and construction for Buck Stream Stabilization	!
Feasibility study for Buck Ferric Chloride System, as needed.	⚠
Feasibility study for MB CD-13 IESF, as needed.	⚠
Feasibility studies for two flood storage projects.	⚠
Design, permitting, and construction for Spring Lake West IESF	⚠

UPPER WATERSHED WATER QUALITY PROJECTS

The Upper Watershed is a 12,760-acre area that flows into Spring Lake and then downstream to Upper and Lower Prior Lakes. The Upper Watershed represents the primary contributor of drainage to the chain of lakes. Thus, the District has undertaken multiple efforts to identify and prioritize water quality projects in the Upper Watershed. These efforts have resulted in a targeted strategy to prioritize the implementation of the following projects: Buck Ferric Chloride Treatment System, MB CD-13 Iron Enhanced Sand Filter (IESF), Swamp Lake IESF, Buck Stream Stabilization, and Spring Lake West IESF. These projects all require partnership with private landowners. The status of these projects as of the close of 2024 are as follows:



- The Buck Ferric Chloride Treatment System, and MB CD-13 Iron Enhanced Sand Filter (IESF) projects were not advanced in 2024 due to limited engagement from landowners.
- Swamp Lake IESF and Buck Stream Stabilization projects were progressed in design and implementation and are reported in the Capital Projects section of this report.

- The Spring Lake West IESF project was progressed in alternate design concepts through conversations with landowners in 2024.

UPPER WATERSHED FLOOD STORAGE PROJECTS

Another key goal for the District is to reduce flooding. Flood reduction can be provided through the creation of water storage in the Upper Watershed. The District has undertaken multiple efforts to identify and prioritize flood reduction projects in the Upper Watershed. These efforts have resulted in a targeted strategy to prioritize the implementation of the following projects: Flood Storage Project 10 (Buck Lake) and Flood Storage Project 13 (Vergus Wetland).

Both projects require partnership with permitting agencies and private landowners. Flood Storage Project 10 (Buck Lake) was progressed through a survey and study by Scott SWCD of the historic and current outlet of the lake in 2024. The data will inform future feasibility in 2025. Flood Storage Project 13 (Vergus Wetland) was not progressed in 2024.

FISH LAKE MANAGEMENT PLAN ACTIONS

An update to the Fish Lake Management Plan was completed after in-depth study and stakeholder coordination throughout 2023. The Fish Lake Management Plan identifies a holistic approach to address both internal and external phosphorus loads: 659 and 103 lbs./yr. respectively. The District focused on implementation of projects to address external phosphorus loads in 2024. The target projects were Fish Lake West Field Nutrient Reduction, 200 St Pond Improvements, Shoreline Restoration, and the Lake Ridge Stormwater Retrofit Feasibility Study.

The District completed grid sampling in fall 2024 related to the Fish Lake West Field Nutrient Reduction and plans to continue to work with the farmer to track nutrient reduction on the field. District staff partnered with Scott SWCD and landowners to progress the 200 St Pond Improvements project, which is reported in the Capital Projects section of this report. Staff completed a Fish Lake campaign for shoreline restoration projects in 2024. The campaign included outreach advertising additional incentives for shoreline restoration and a free workshop at a local venue. Three landowners reported an interest in pursuing shoreline restoration. Future implementation will be reported through the cost share program. Lastly, the District contracted Stantec to complete the Lake Ridge Stormwater Retrofit Feasibility Study in 2024, with work to be completed in 2025.

MONITORING AND RESEARCH

Continue stream chemistry monitoring.	!
Continue flow monitoring.	!
Continue lake water quality monitoring.	!
Continue monitoring lake levels.	!
Complete plant surveys.	!
Continue plant density monitoring.	☑
Completed the migration of water quality data to the new WISKI database.	!
Monitor precipitation.	☑
Complete boat Inspections.	!

Monitoring was conducted in accordance with the Prior Lake-Spring Lake Watershed District Long Term Monitoring Plan and included a mix of staff, volunteer, and contract work, which incorporated in-lake monitoring, stream water quality & flow measurements, precipitation, and aquatic vegetation monitoring. Partners included Metropolitan Council Environmental Services, Minnesota Department of Natural Resources (DNR), Three Rivers Park District, Shakopee Mdewakanton Sioux Community (SMSC), Scott Soil and Water Conservation District (SWCD), Blue Water Science, Scott Watershed Management Organization (WMO), Waterfront Restorations, and Emmons and Oliver Resources (EOR).

WISKI DATABASE

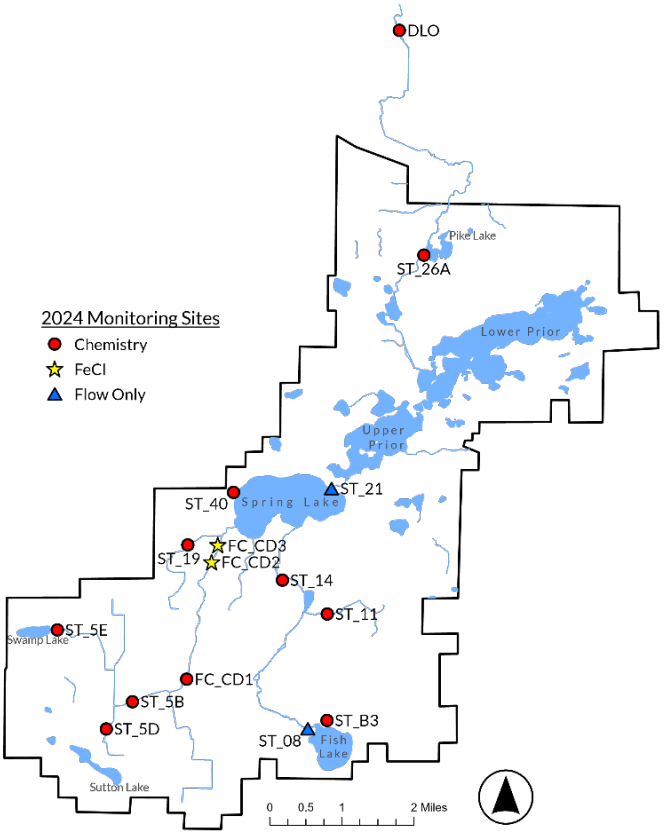
In 2024, the District finished transitioning past data to the new WISKI database – a product by Kisters North America. This database has many analysis tools and provides a central location for our data needs, which greatly improves staff efficiency and enhances data quality and analysis.

STREAM MONITORING DATA

STREAM CHEMISTRY SAMPLING

Stream chemistry samples were collected at 13 locations around the watershed by PLSLWD staff. Samples were analyzed for several parameters, such as phosphorus, nitrogen, and suspended sediment.

- Two sites were sampled weekly to fulfill the MPCA permit requirements for the Ferric Chloride site (FC_CD2, FC_CD3).
- The District Monitoring Program included eleven sites (DLO, FC_CD1, ST_B3, ST_5B, ST_5D, ST_5E, ST_11, ST_14, ST_19, ST_26A, and ST_40). These sites were monitored biweekly, provided there was sufficient flow.



STAGE AND FLOW MONITORING

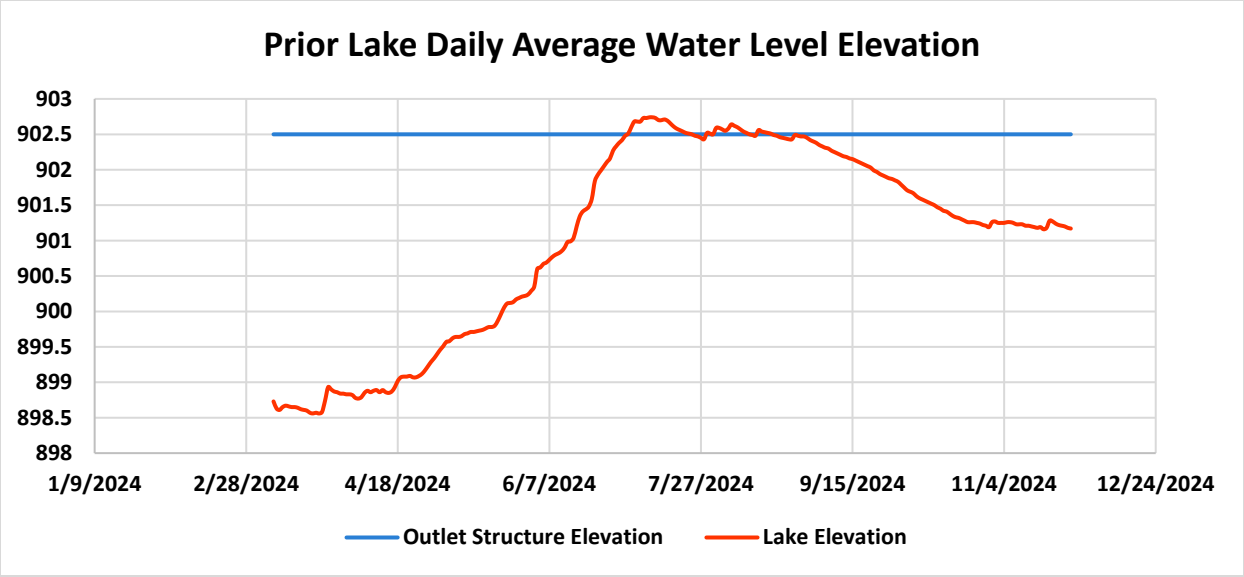
All chemistry sites were monitored for stage and flow using radar, pressure, or area-velocity sensors. We also worked with Scott SWCD to assist in collecting flow measurements. There were two additional sites, ST_08 and ST_21, that were monitored for stage and flow that did not have chemistry samples taken.

Integrating stream flow and chemistry data enables the calculation of pollutant loading and offers valuable insights for identifying the most cost-effective projects to reduce nutrient loading.

LAKE MONITORING DATA

LEVEL LOGGERS

Four telemetry level loggers were installed to monitor the lake levels on Fish, Pike, Prior, and Spring Lakes. The loggers are programmed to record the lake level every 15 minutes and then transmit the data to the PLSLWD website at least once a day, which is accessible to the public. Additionally, two non-telemetry loggers are used in Sutton and Buck Lakes. These require manual data download like the loggers used for all stream sites.



DNR STAFF GAUGES

Five staff gauges were monitored on Buck, Fish, Pike, Spring and Lower Prior Lakes. Staff gauges are surveyed every year by the DNR to tie the results to Mean Sea Elevation. The district shares lake elevation data with DNR at the end of the year.

THREE RIVERS PARK DISTRICT

Three Rivers Park District monitored five lakes in 2024: Fish, Pike, Upper Prior, Lower Prior and Spring Lakes. These lakes are monitored 13 times per year, and profile samples are collected when possible.

CAMP VOLUNTEER LAKE MONITORING

The Citizen Assisted Monitoring Program (CAMP) program was coordinated by the Metropolitan Council and locally coordinated by PLSLWD. Volunteers collected samples on five lakes through the CAMP program in 2024.

Lake	Volunteer
Haas	Tom Chaklos
Buck Lake	Steve Beckey
Cates	Paula Thomsen
Swamp Lake	PLSLWD staff
Crystal	Scott Thulien

Samples are typically collected every other week during ice-free conditions. Sampling includes parameters such as Secchi depth, phosphorus, and chlorophyll-a.

AQUATIC VEGETATION SURVEYS

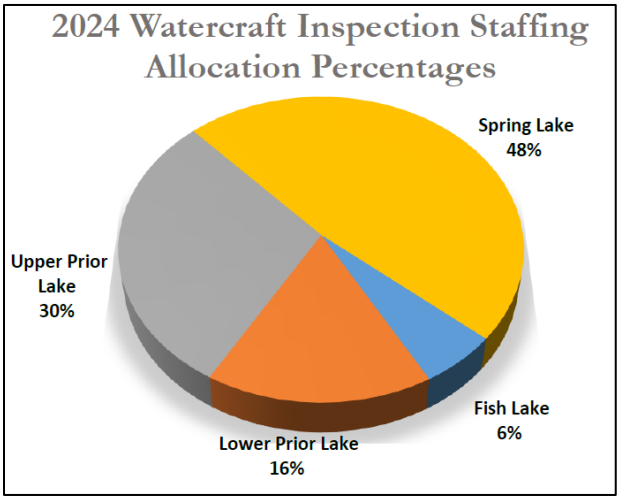
Using a point-intercept survey, Blue Water Science conducted summer aquatic vegetation surveys on five lakes: Crystal Lake, Jeffers Ponds, Lower Prior Lake, Pike Lake, and Swamp Lake. These surveys include the type and abundance of vegetation at predetermined sampling locations throughout the lakes during summer, which is the time most native vegetation is present.

Curly-leaf pondweed (CLP) surveys were completed in the spring on Fish Lake, Upper Prior Lake, Lower Prior Lake, and Spring Lake to determine if treatment was needed. Aquatic vegetation management for curly-leaf pondweed occurred on Spring Lake, Upper Prior Lake, and Lower Prior Lake in 2024.

BOAT INSPECTIONS (AIS)

In-person boat inspections were conducted within the District by Waterfront Restoration at the launches of Upper Prior, Lower Prior, Spring, and Fish Lakes. Totaling 935 hours, inspectors completed 3,300 inspections between the four lakes from May 10 through October 12, 2024.

A total of 56 entering violations were identified with majority from plant fragments followed by drain plugs left in. There were findings of significance on 270 exiting watercrafts, but because they were found and resolved before exiting the launch, they were not classified as violations.



REGULATION

Conservation easement inspections will be performed.	!
New conservation easements will be established through permitting activity.	!
Track and compile MS4 data to include in the next scheduled MPCA Annual Report.	☑
Construction inspections for existing and new permits will continue to occur.	!
The District will continue its work towards the establishment of rules equivalency MOAs with partnering LGUs to reduce permitting burden on the District and permittees.	☑

EASEMENT INSPECTIONS

The District holds many conservation easements and development agreements over wetland and watercourse buffer strips that were acquired through permit activity or capital project construction. These buffer strips and associated easement and agreement restrictions provide water quality benefits by protecting District water resources. The District's conservation easement program contains three components to ensure protection of its investments: inspections, effective communication with landowners, and an enforcement policy.

For 2024, PLSLWD retained the services of Scott Soil and Water Conservation District (Scott SWCD) to perform easement inspections and to assist with permit and conservation easement origination, inspection, and compliance activities. In 2024, one new conservation easement was accepted and recorded with Scott County. Conservation easement inspections were revised such that inspections are now conducted at least once every three years for parcels that have no ongoing compliance issues. Parcels with an identified violation are inspected annually until the violation is resolved. In 2024, inspections were performed on 113 parcels, with 52 parcels in full compliance. A current summary of violations that Scott SWCD are working to resolve include:

Violation Status

Priority	Description	ID'd in 2024	ID'd To Date	Resolved	Open
High	Fixed structures (e.g. homes, decks, privacy fences) and hard landscaping (e.g. paved trails, rock/brick retaining walls)	9	16	1*	15
Medium	Non-fixed structures (e.g. sheds, playsets, fencing) and altered vegetation (significant mowing, non-native landscaping, etc.)	19	36	3	33
Minor	Missing signs, feeders, lawn decorations, brush piles, etc.	35	107	60	47

*Resolved via encroachment agreement

Letters were sent thanking landowners who were found to be in compliance with easement requirements. Letters were also sent notifying property owners of violations. Scott SWCD is focusing on resolving high priority violations. Resolutions typically take the form of bringing the property owners back into voluntary compliance, easement amendments, encroachment agreements, or implementation of BMP mitigation strategies.

PERMIT ACTIVITY

The District inspected active permits to ensure that the conditions of the permit were being met. The District issued two new permits in 2024 (23.02 Fish Point Phase 3 and 24.01 City of Prior Lake Water Quality Retrofit) and conditionally approved a permit (24.02 City of Prior Lake TH 13 Trail).

No variances to District rules were applied for in 2024. One violation of the District's Floodplain Alteration Rule was identified in 2024 that was subsequently resolved via Scott County working with the property owner.

Forty inspections were performed on active construction projects for District open permits. The District continued to close out permits (18.02, 18.05, 18.06, 21.01, 22.01) as the projects met requirements.

The District continued to work with LGU partners to establish rules equivalency MOAs with partnering LGUs to reduce permitting burden on the District and permittees. The District provided application review comments to the District's LGU partners on 23 permit applications.

PRIOR LAKE OUTLET CHANNEL

Recurring annual operations such as inspections and vegetation management will continue in 2024.	☑
District will proceed with soliciting bids for pipelining construction.	☑

PRIOR LAKE OUTLET CHANNEL OPERATIONS

The Prior Lake Outlet Channel (PLOC) was originally constructed in 1982 and has been operating, with modifications, since 1983. The PLOC is utilized by the District and other partners in managing lake levels on Prior Lake as well as providing a 7-mile stormwater conveyance system for the surrounding communities. There is a Memorandum of Agreement between the Cities of Prior Lake, Shakopee, the Shakopee Mdewakanton Sioux Community, and the District that specifies operation and maintenance as well as cost-sharing. A visual overview of the outlet system is linked here in this ArcGIS StoryMap.

Some of the recurring annual activities include channel inspections, flow monitoring, contracting of invasive terrestrial vegetation management, maintaining permit compliance, and submitting annual reports. The 2024 annual report is available here on the PLSLWD website, which includes a summary of all activities that were completed along the channel.

PRIOR LAKE OUTLET PIPELINING

The first segment of the PLOC is a 0.4-mile pipe, which connects the outlet structure with the open channel leading to the Minnesota River. The outlet pipe has been televised routinely to monitor pipe conditions. After the 2022 televising, a Cast In Place Pipe (CIPP) lining was recommended to maintain the structural integrity of the pipe so it may continue to operate and offer flood relief. Additionally, the smoother surface of the pipe lining will increase the flow rate through the pipe and allow for additional flood relief.

The District contracted WSB to provide consulting services for pipelining design, soliciting and managing contractor bids, and management of construction. In August 2024, the District was awarded a grant from MPCA to cover $856,243.28 of eligible project costs. Once grant contracting was complete, WSB proceeded with bid administration in late 2024. Construction is expected in 2025.

FINANCIAL REPORT

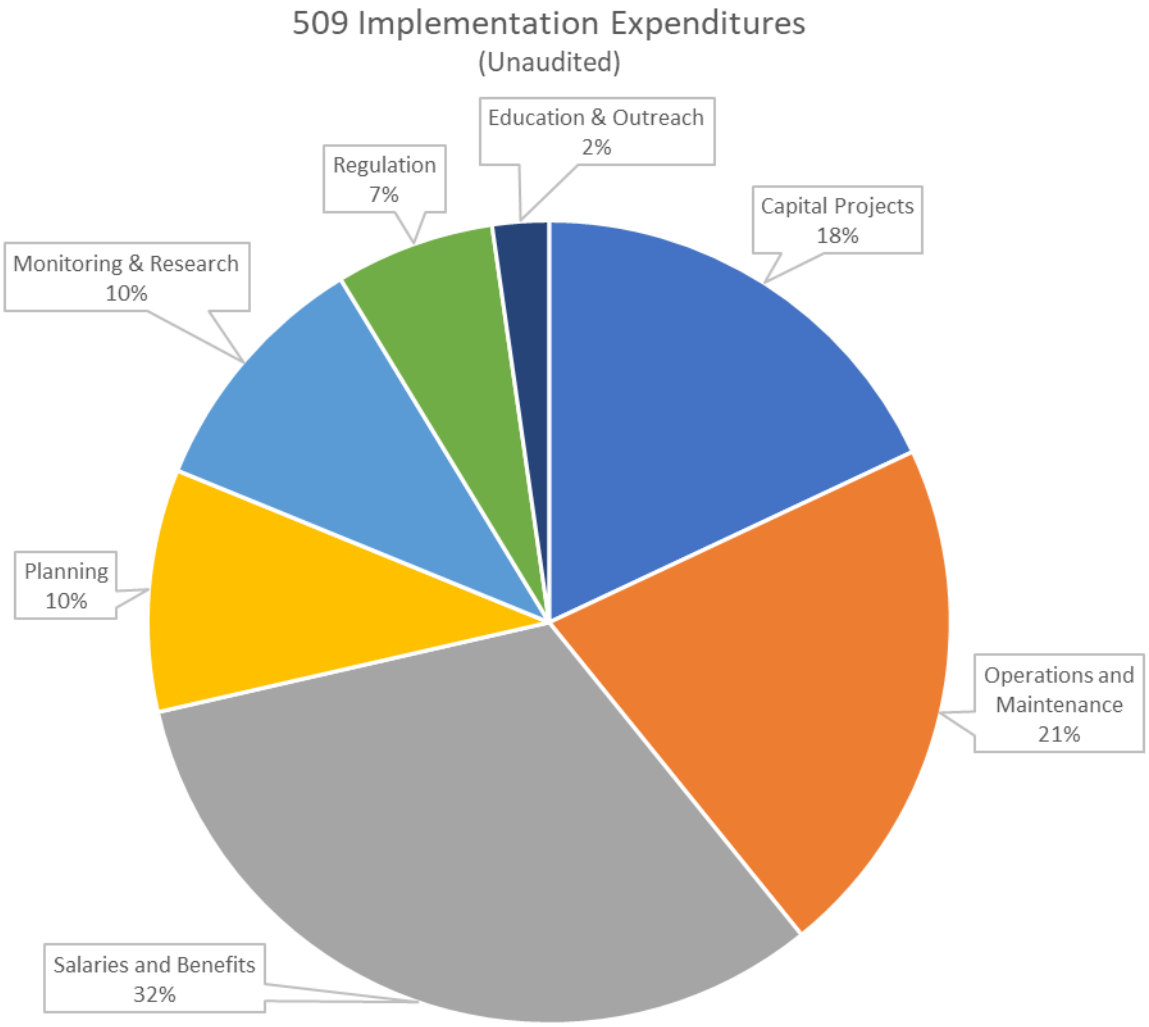
The 2024 PLSLWD audit was completed by Abdo and will include both the District's Annual Financial Report and an Executive Governance Summary for the year ended December 31, 2024. A copy of the 2024 Annual Audit will be available for review on the District website and at the District office after May 20, 2025, when it is scheduled to be approved by the Board of Managers.

2024 FINANCIAL SUMMARY

Values presented in the chart and graph below are unaudited.

Fund	Starting Balance #	Approved Budget	Tax Levy Revenue*	Additional Revenue **	Transfers To/(From)	Expenditures	Ending Balance ***
General	324,643	261,000	251,384	10,912	-	267,272	319,667
509 Implementation	2,589,018	2,405,356	1,685,108	377,695	(38,981)	1,399,204	3,213,636
MOA/JPA Funds	342,936	-	-	47,414	38,981	100,700	328,631
Bond Debt Services	-	-	-	-	-	-	-
Total	3,256,597	2,666,356	1,936,492	436,021	-	1,767,176	3,861,934

This column was adjusted to reflect the ending balance from the December 31, 2023, audit.
* Tax levy revenues shown are actual tax levy dollars collected. The 2024 tax levy was $1,949,000.
** Additional revenue comprised of permit fees, investment income, grant funding, and insurance proceeds.
*** Ending balance is not audited, and subject to change with year-end adjustments and accruals.



GRANTS

Grants obtained by the District that were active in 2024 were as follows:

<u>Prior Lake Spring Lake Watershed Based Implementation Funding 22/23</u>

- Goal: Conduct a feasibility study and a lake management plan to determine suitability for possible future projects.
- Funding Source: BWSR
- Total Grant Amount: $82,806
- Effective: February 22, 2023, to February 1, 2024

Prior Lake Spring Lake Watershed Based Implementation Funding 2025

- Goal: Progress Swamp Lake IESF to final design and begin construction. Implement external load projects from the Fish Lake Management Plan.
- Funding Source: BWSR
- Total Grant Amount: $209,935
- Effective: September 27, 2024, to December 31, 2027

Spring Lake Township Fish Lake Management Plan Contribution

- Goal: Update the Fish Lake Management Plan.
- Funding Source: Spring Lake Township
- Total Amount: $4,000
- Effective: Upon completion of Fish Lake Management Plan update, invoiced January 29, 2024

Stormwater Resiliency Implementation Grant

- Goal: Progress the Prior Lake Outlet Pipelining project to implementation.
- Funding Source: MPCA
- Total Grant Amount: $856,243.28
- Effective: November 7, 2024, to June 30, 2027

Clean Water Fund Projects and Practices Grant 2025

- Goal: Construct Swamp Iron Enhanced Sand Filter and complete local outreach related to the project.
- Funding Source: BWSR
- Total Grant Amount: $443,975
- Effective: March 12, 2025*, to December 31, 2027 *awarded in 2024, executed in 2025

2025 WORK PLAN

The following is a summary of implementation activities planned to be completed in 2025.

Implementation Fund:	$3,074,025
General Fund:	$280,000

See the 2025 Budget for detailed budget information.

CAPITAL PROJECTS

Progress Swamp Lake Iron Enhanced Sand Filter to construction.
Progress 200 St Pond Improvements to construction.
Complete construction of Ferric Chloride Site Improvements .

OPERATIONS AND MAINTENANCE

Track carp using PIT tags, radio tags, and visual observations.
Stock bluegills in the FeCl desilt pond where carp continue to be observed.
Focus on removal efforts of carp from Spring Lake and shift to maintenance activities on Upper Prior Lake.
Perform aquatic point-intercept vegetation surveys on three District lakes and ponds.
Invasive aquatic vegetation may be treated in Fish, Prior, and Spring Lakes, depending upon the survey reports.
Continue to perform AIS inspections at boat launches on Spring, Upper Prior, Lower Prior, and Fish Lakes.
Continue Operation and Maintenance of FeCl Facility.
Vegetation maintenance at the District's Spring Lake parcel restoration site and Buck Stream Stabilization project site.
Continue Cost Share Program.
Continue Farmer-Led Council.

EDUCATION AND OUTREACH

Meet the requirements of our MS4 permit.
Continue working with the Scott County Clean Water Education Program
Continue to share updates and educational information via social media, website updates, newspaper articles, and presentations to local stakeholders.
Host events outlined within our 2025 Education and Outreach Plan to engage District residents.

PLANNING

Complete Lake Ridge Estates Stormwater Retrofit Feasibility Study.
Progress Target Water Quality and Flood Storage Projects in the Upper Watershed to Feasibility Studies (Buck Ferric Chloride Treatment System, MB CD-13 Iron Enhanced Sand Filter, Spring Lake West Iron Enhanced Sand Filter, Flood Storage Project 10 (Buck Lake), Flood Storage Project 13 (Vergus Wetland, or others).

MONITORING AND RESEARCH

Continue stream chemistry monitoring.
Continue flow monitoring.
Continue lake water quality monitoring.
Continue monitoring lake levels.
Complete plant surveys.
Continue plant density monitoring.
Continue watercraft inspections.

REGULATION

Perform conservation easement inspections.
Establish new conservation easements through permitting activity.
Track and compile MS4 data to include in the next scheduled MPCA Annual Report.
Complete construction inspections for existing and new permits.
Continue work towards the establishment of rules equivalency MOAs with partnering LGUs to reduce permitting burden on the District and permittees.

PRIOR LAKE OUTLET CHANNEL

Continue recurring annual operations such as inspections and vegetation management.
Proceed with pipelining construction.

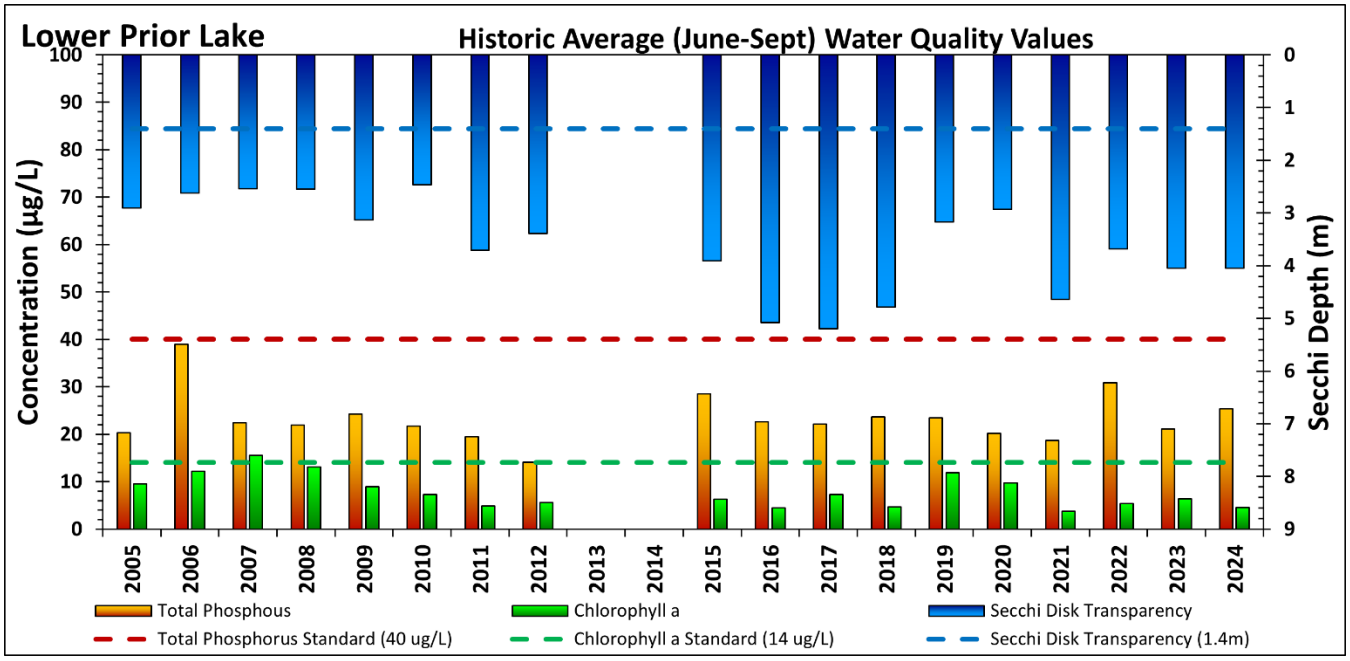
APPENDICES

APPENDIX A: MONITORING DATA TRENDS

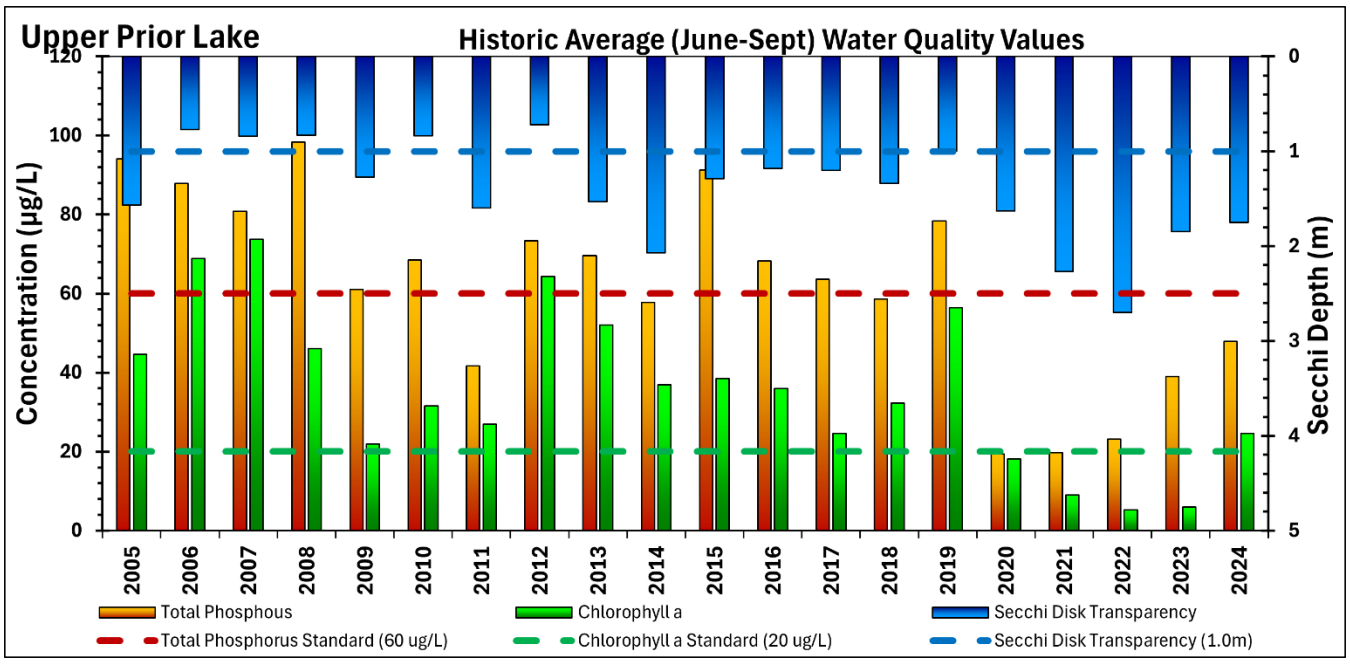
The following graphs indicate the status of the District's monitoring efforts on District lakes since 2004.

Continue on to next page.

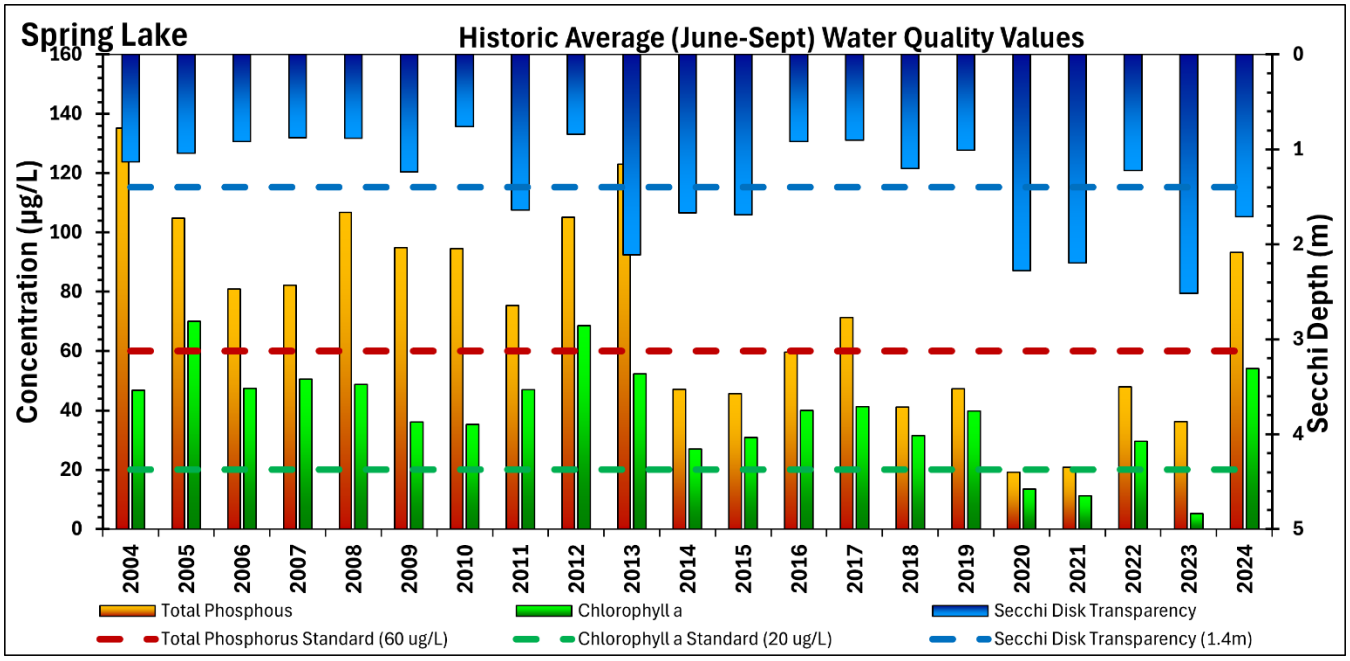
LOWER PRIOR LAKE



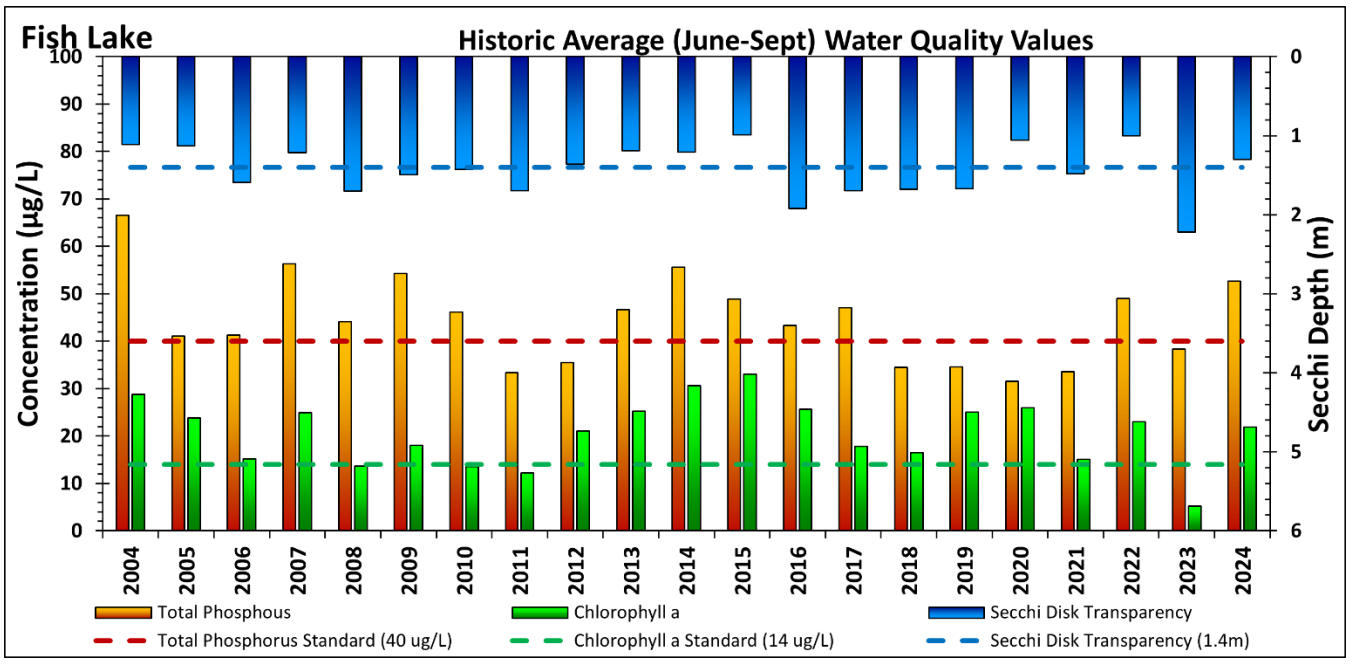
UPPER PRIOR LAKE



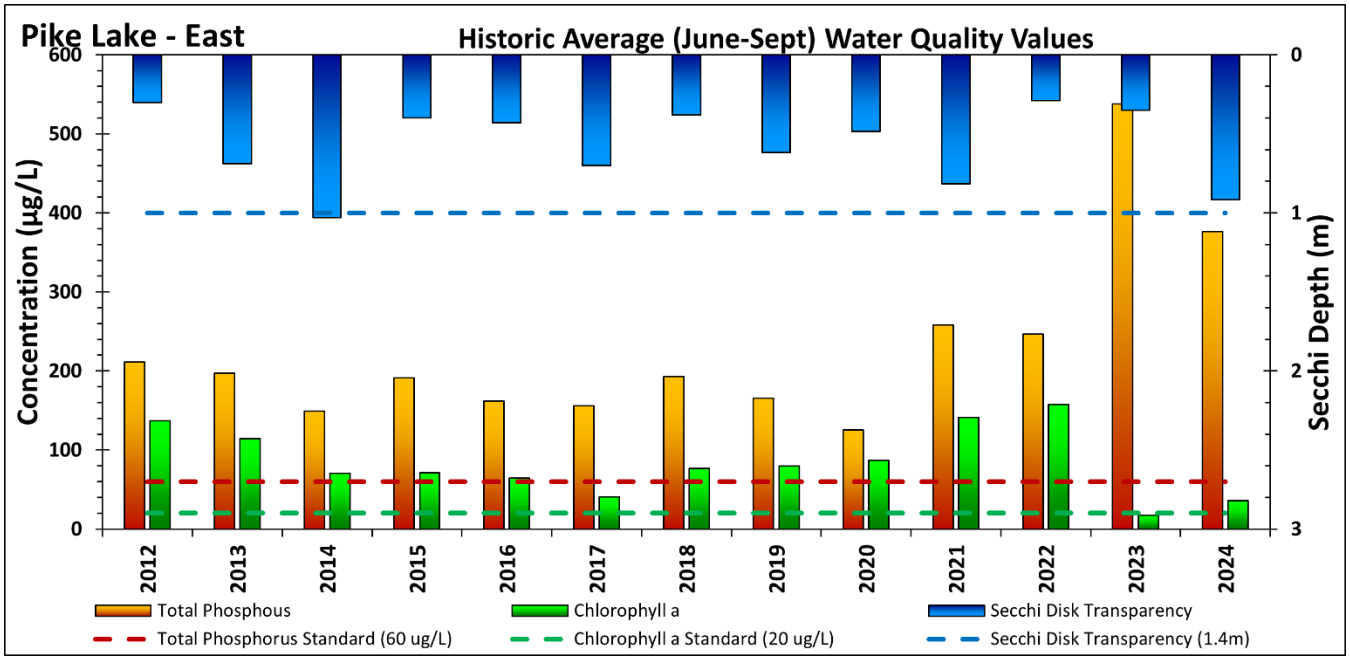
SPRING LAKE



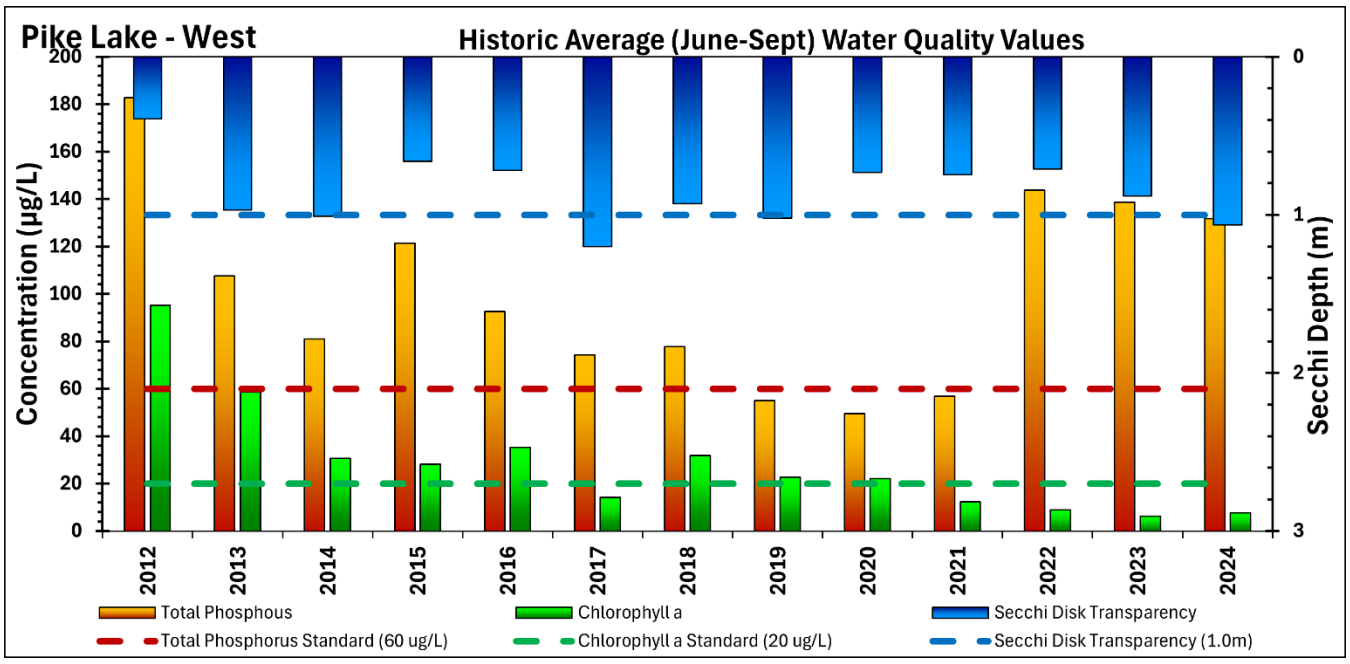
FISH LAKE



PIKE LAKE-EAST



PIKE LAKE-WEST



APPENDIX B: EVALUATION OF PROGRESS DASHBOARD

The Districts 2020-2030 Water Resources Management Plan, adopted July 14, 2020, includes the Outcome and Measures Dashboards to serve as a tool for evaluating progress on watershed goals and to assess whether adjustments are needed. Outcomes and Measures Dashboards are attached as Appendix B. The Water Resources Management Plan states the dashboards will be updated every two years. The dashboards were updated in 2024 to reflect progress made in 2022 and 2023 by the District related to the Water Resources Management Plan's stated goals.

Continue on to next page.

Goal WQ1

Maintain or improve 5-year average for TP, Chlorophyll-a and Secchi depth in Lower Prior Lake.

Performance Measures:	**Every two years, evaluate water quality trends on a 5-year running average to ensure water quality is maintained or improved.**

Benchmark Measures:	
Total Phosphorus (TP)	**24 µg/l**
Chlorophyll-a (Chl-a)	**6.9 µg/l**
Secchi depth	**4.43 m**

5-Year Average Tracking:	
Total Phosphorus (TP)	
2021	**21.61**
2023	**22.86**
2025	
2027	
2029	
Chlorophyll-a (Chl-a)	
2021	**7.45**
2023	**7.42**
2025	
2027	
2029	
Secchi depth	
2021	**4.15**
2023	**3.7**
2025	
2027	
2029	

PROJECTS THAT WILL HELP ACHIEVE THE GOAL:

Capital Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Public Infrastructure Projects*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Lower Prior Lake Subwatershed Project*		✓									
Storage & Infiltration Projects*		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Streambank Restoration Program				✓	✓	✓		✓	✓	✓	

Operations & Maintenance Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
AIS Prevention & Management	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cost Share Program	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Project Maintenance	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Planning Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Feasibility Reports		✓		✓		✓		✓		✓	
Lower Prior Lake Diagnostic Study Update					✓						
Regional Stormwater Planning		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Monitoring Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Lake Monitoring	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Stream & Ditch Monitoring	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Effectiveness/BMP Monitoring	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Regulation Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Permit Priogram	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Conservation Easement Program	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
District Rules Updates	✓					✓					✓

** Projects in **bold** have the greatest potential to achieve water quality improvement results.*

<u>If one or more of the three water quality measures begins to show downward trends, the following should be explored:</u>

1) Have all scheduled projects above been completed according to the timeline? *If not, consider implementing them.*
2) Is there an unexpected, external factor affecting water quality? *If so, consider a feasiblity study to explore solutions.*
3) Are there additional/enhanced opportunities in the projects listed in bold above? *Consider working with partners and exploring grants.*

Goal WQ2

Meet the state water quality standards for aquatic recreation on Spring Lake.

Performance Measures:	**Use in-lake water quality monitoring results for TP, Chl-a and Secchi depth to assess progress every two years; request delisting to MPCA.**

Benchmark Measures:	
Total Phosphorus (TP)	**60 µg/l**
Chlorophyll-a (Chl-a)	**20 µg/l**
Secchi depth	**1.4 m**

Outcome: **Request state delisting to MPCA by 2029**

2-Year Average Tracking:	
Total Phosphorus (TP)	
2021	**20.04**
2023	**42.09**
2025	
2027	
2029	
Chlorophyll-a (Chl-a)	
2021	**12.41**
2023	**17.37**
2025	
2027	
2029	
Secchi depth	
2021	**2.24**
2023	**1.87**
2025	
2027	
2029	

PROJECTS THAT WILL HELP ACHIEVE THE GOAL:

Capital Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
In-Lake Alum Treatments*	✓										
County Ditch 13 Restoration*						✓	✓	✓	✓	✓	✓
Public Infrastructure Projects*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fish Lake Watershed Projects			✓								
Spring Lake Regional Park Project				✓	✓						
Spring Lake West Subwatershed Project*		✓	✓								
Storage & Infiltration Projects*		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Streambank Restoration Program*				✓	✓	✓		✓	✓	✓	✓
Wetland Restoration & Enhancement*		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Wetland Banking Program				✓	✓	✓	✓	✓	✓	✓	✓

Operations & Maintenance Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
AIS Prevention & Management	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Carp Management Program*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cost Share Program	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Farmer-Led Council Initiatives*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ferric Chloride Treatment System	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Highway 13 Wetland Restoration						✓	✓				
Project Maintenance	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Planning Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Feasibility Reports		✓		✓		✓		✓		✓	
Regional Stormwater Planning		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Upper Watershed Blueprint	✓	✓									

Monitoring Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Lake Monitoring	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Stream & Ditch Monitoring	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Effectiveness/BMP Monitoring	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Regulation Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Permit Priogram	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Conservation Easement Program	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
District Rules Updates	✓					✓					✓

** Projects in **bold** have the greatest potential to achieve water quality improvement results.*

If at least two of the water quality measures are not meeting benchmarks by 2025, the following should be explored:

1) Have all scheduled projects above been completed according to the timeline? *If not, consider implementing them.*
2) Is there an unexpected, external factor affecting water quality? *If so, consider a feasiblity study to explore solutions.*
3) Are there additional/enhanced opportunities in the projects listed in bold above? *Consider working with partners and exploring grants.*

Goal WQ3

Meet the state water quality standards for aquatic recreation on Upper Prior Lake.

Performance Measures:	**Use in-lake water quality monitoring results for TP, Chl-a and Secchi depth to assess progress every two years; request delisting to MPCA.**

Benchmark Measures:	
Total Phosphorus (TP)	**40 µg/l**
Chlorophyll-a (Chl-a)	**14 µg/l**
Secchi depth	**1.4 m**

Outcome: **Request state delisting to MPCA by 2029**

2-Year Average Tracking:	
Total Phosphorus (TP)	
2021	19.53
2023	31.12
2025	
2027	
2029	
Chlorophyll-a (Chl-a)	
2021	13.6
2023	5.61
2025	
2027	
2029	
Secchi depth	
2021	1.95
2023	2.27
2025	
2027	
2029	

PROJECTS THAT WILL HELP ACHIEVE THE GOAL:

Capital Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
In-Lake Alum Treatments*	✓	✓			✓	✓	✓				
Public Infrastructure Projects*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Arctic Lake BMP Projects				✓				✓			
Fish Lake Watershed Projects		✓	✓								
Spring Lake West Subwatershed Project		✓	✓								
Storage & Infiltration Projects*		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Streambank Restoration Program*	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓
Wetland Restoration & Enhancement*		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Wetland Banking Program		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Operations & Maintenance Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
AIS Prevention & Management	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Carp Management Program*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cost Share Program	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Farmer-Led Council Initiatives*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
FeCl Treatment System	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Highway 13 Restoration						✓	✓				
Project Maintenance	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Planning Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Feasibility Reports		✓		✓		✓		✓		✓	
Regional Stormwater Planning		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Upper Watershed Blueprint	✓	✓									

Monitoring Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Lake Monitoring	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Stream & Ditch Monitoring	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Effectiveness/BMP Monitoring	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Regulation Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Permit Priogram	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Conservation Easement Program	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
District Rules Updates	✓					✓					✓

** Projects in **bold** have the greatest potential to achieve water quality improvement results.*

If at least two of the water quality measures are not meeting benchmarks by 2025, the following should be explored:

1) Have all scheduled projects above been completed according to the timeline? *If not, consider implementing them.*
2) Is there an unexpected, external factor affecting water quality? *If so, consider a feasiblity study to explore solutions.*
3) Are there additional/enhanced opportunities in the projects listed in bold above? *Consider working with partners and exploring grants.*

Goal WQ4

Improve water quality in Fish Lake by reducing annual phosphorus load by 40 lbs/year.

Performance Measures:	**Every two years, assess water quality to measure improvements in TP, Chl-a and Secchi depth; reduce annual P load by 40 lbs/year by 2029.**

Baseline Measures *(2005-2014)*:	
Total Phosphorus (TP)	**42 µg/l**
Chlorophyll-a (Chl-a)	**20 µg/l**
Secchi depth	**1.3 m**

<u>Outcome:</u> Implement projects to reduce annual P load by 40 lbs/yr, resulting in improved water quality in one or more measures by 2029.

2-Year Average Tracking:			
	TP	Chl-a	Secchi
2021	**32**	**20.5**	**1.27**
2023	**44**	**14.11**	**1.61**
2025			
2027			
2029			

Annual P Load Reductions:	
Projects Implemented (lbs/year)	
2021	**None**
2022	**None**

PROJECTS THAT WILL HELP ACHIEVE THE GOAL:

Capital Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Fish Lake Watershed Projects*		✓	✓								
Streambank Restoration Program*	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓
Wetland Restoration & Enhancement*		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Operations & Maintenance Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
AIS Prevention & Management	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Carp Management Program	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cost Share Program	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Farmer-Led Council Initiatives*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Planning Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Feasibility Reports		✓		✓		✓		✓		✓	

Monitoring Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Lake Monitoring	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Effectiveness/BMP Monitoring	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Regulation Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Permit Priogram	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Conservation Easement Program	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
District Rules Updates	✓					✓					✓

** Projects in **bold** have the greatest potential to achieve water quality improvement results.*

<u>If at least two of the water quality measures have not shown improvement by 2025, the following should be explored:</u>

1) Have all scheduled projects above been completed according to the timeline? *If not, consider implementing them.*
2) Is there an unexpected, external factor affecting water quality? *If so, consider a feasiblity study to explore solutions.*
3) Are there additional/enhanced opportunities in the projects listed in bold above? *Consider working with partners and exploring grants.*

Goal WQ5

Improve water quality in Arctic Lake by supporting SMSC's improvement efforts to reduce watershed phosphorus loading by 37 lbs/yr and by partnering with SMSC, the City of Prior Lake and the Three Rivers Park District on future projects as opportunities arise.

Performance Measures:	**Every two years, assess water quality (TP, Chl-a and Secchi) to measure improvements; track load reductions associated with project implementation.**

Baseline Measures *(2008-2017)*:	
Total Phosphorus (TP)	**127.5 µg/l**
Chlorophyll-a (Chl-a)	**40 µg/l**
Secchi depth	**0.43 m**

<u>Outcome:</u> Support & coordinate with SMSC on projects, resulting in improved water quality in one or more measures by 2029.

2-Year Average Tracking:			
	TP	Chl-a	Secchi
2021	**94.11**	**33.74**	**0.42**
2023**	**83.9**	**38.9**	**0.74**
2025			
2027			
2029			

**2022 data only

Load Reduction Tracking		
Project	**Year**	**lb/year**

PROJECTS THAT WILL HELP ACHIEVE THE GOAL:

Capital Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Arctic Lake BMP Projects*				✓				✓			

Operations & Maintenance Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Carp Management Program*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cost Share Program	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Planning Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Feasibility Reports		✓		✓		✓		✓		✓	

Monitoring Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Lake Monitoring	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Regulation Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Permit Priogram	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Conservation Easement Program	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
District Rules Updates	✓					✓					✓

** Projects in **bold** have the greatest potential to achieve water quality improvement results.*

<u>If at least two of the water quality measures have not shown improvement by 2025, the following should be explored:</u>

1) Have all scheduled projects above been completed according to the timeline? *If not, consider implementing them.*
2) Is there an unexpected, external factor affecting water quality? *If so, consider a feasiblity study to explore solutions.*

Goal WQ6

In partnership with SMSC and the City of Prior Lake, improve Pike Lake by achieving 10% percent improvement in TP concentrations to work toward the TMDL pollutant reduction requirements.

Performance Measures:	**Every two years, assess TP concetrations to measure improvements; track load reductions associated with project implementation.**

Baseline Measures *(2012-2017)*:		
	West Side	**East Side**
Total Phosphorus (TP)	**102 µg/l**	**170 µg/l**

10% Improvement GOAL:		
	West Side	**East Side**
Total Phosphorus (TP)	**92 µg/l**	**153 µg/l**

2-Year Average Tracking:		
	West Side	**East Side**
Total Phosphorus (TP)		
2021	**53.23**	**192**
2023	**141.17**	**392**
2025		
2027		
2029		

Load Reduction Tracking		
Project	**Year**	**lb/year**

PROJECTS THAT WILL HELP ACHIEVE THE GOAL:

Operations & Maintenance Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Carp Management Program*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cost Share Program	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Farmer-Led Council Initiatives*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Planning Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Feasibility Reports		✓		✓		✓		✓		✓	

Monitoring Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Lake Monitoring	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Regulation Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Permit Priogram	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Conservation Easement Program	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
District Rules Updates	✓					✓					✓

** Projects in **bold** have the greatest potential to achieve water quality improvement results.*

<u>If there is not a documented decrease in TP concentrations by 2025, the following should be explored:</u>

1) Have all scheduled projects above been completed according to the timeline? *If not, consider implementing them.*
2) Is there an unexpected, external factor affecting water quality? *If so, consider a feasiblity study to explore solutions.*
3) Are there additional/enhanced opportunities in the projects listed in bold above? *Consider working with partners and exploring grants.*

Goal WQ7

Assess the quality of Sutton Lake and develop a Lake Management Plan.

Performance Measures:	**Assessment of lake quality and development of management plan.**

Performance Tracking:	
Step	Status
Install Outlet (2020)	**Completed 2021**
Complete Lake Management Plan (2020)	**In Progress**
Manage Outlet (2021)	**Complete**
Manage Outlet (2022)	**Complete**
Manage Outlet (2023)	**Complete**
Manage Outlet (2024)	
Manage Outlet (2025)	
Manage Outlet (2026)	
Manage Outlet (2027)	
Manage Outlet (2028)	
Manage Outlet (2029)	
Manage Outlet (2030)	

PROJECTS THAT WILL HELP ACHIEVE THE GOAL:

Capital Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Sutton Lake Outlet Structure*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Monitoring Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Lake Monitoring	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

** Projects in **bold** have the greatest potential to achieve the goal.*

Outcome: ***Lake Management Plan and effectively managed outlet structure.***

If there is no progress by 2022, the following should be explored:

1) Have all scheduled projects above been completed according to the timeline? *If not, consider implementing them.*
2) Is there an unexpected, external factor slowing the progress? *If so, consider a study to explore solutions.*
3) Are there additional/enhanced opportunities in the projects listed in bold above? *Consider working with partners and exploring grants.*

Goal WQ8

Assign a District water quality standard for Buck Lake and set management goals for the next 10-year plan.

Performance Measures:	**Conduct a lake diagnostic study to identify water quality standard; set management goals for next 10-year plan.**

Performance Tracking:	
Step	Status
Diagnostic Study (2026)	
Water Quality Standard (2026)	
Management Goals Set (2029)	

PROJECTS THAT WILL HELP ACHIEVE THE GOAL:

Monitoring Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Buck Lake Diagnostic Study						✓	✓				
Lake Monitoring	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

If there is no progress by 2026, the following should be explored:

1) Have all scheduled projects above been completed according to the timeline? *If not, consider implementing them.*
2) Is there an unexpected, external factor slowing the progress? *If so, consider a study to explore solutions.*

Goal WQ9

Assess the quality of Tier 3 Lakes and assign lake management classifications.

Performance Measures:	**In-lake water quality monitoring; assign lake classifications.**

Performance Tracking:	
Lake	Management Classification
Haas Lake	**Unclassified**
Crystal Lake	**Unclassified**
Rice Lake	**Unclassified**
Cates Lake	**Grade A for Chl-a, Secchi, and P**
Jeffers Pond	**Unclassified**
Swamp Lake	**Unclassified**

PROJECTS THAT WILL HELP ACHIEVE THE GOAL:

Monitoring Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Lake Monitoring	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

If there is no progress by 2028, the following should be explored:

1) Have all scheduled projects above been completed according to the timeline? *If not, consider implementing them.*
2) Is there an unexpected, external factor slowing the progress? *If so, consider a study to explore solutions.*

Goal WQ10

Maintain no net loss of wetland in the District.

Performance Measures:	**Every two years track and assess wetland impacts; fully establish wetland banking program.**

<u>Outcome:</u> Biennial wetland loss assessments and successful establishment of wetland banking program.

Performance Tracking:	
Biennial Permit / LGU Review	Status
2021	**Incomplete**
2023	**Incomplete**
2025	
2027	
2029	
Wetland Banking Program Steps	Status
Program Establishment (2021)	**Incomplete**
Reserve Fund Created (2022)	**Incomplete**
First Project Completed (2025)	

PROJECTS THAT WILL HELP ACHIEVE THE GOAL:

Capital Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Wetland Banking Program*		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Operations & Maintenance Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Cost Share Program	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Planning Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Feasibility Reports		✓		✓		✓		✓		✓	
Comprehensive Wetland Plan Update	✓				✓						

Monitoring Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Wetland Monitoring	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Regulation Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Permit Program*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Conservation Easement Program	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
District Rules Updates	✓					✓					✓

** Projects in **bold** have the greatest potential to achieve goals.*

<u>If wetland loss is occuring and/or wetland banking program has not reached the above milesones, the following should be explored:</u>

1) Have all scheduled projects above been completed according to the timeline? *If not, consider implementing them.*
2) Is there an unexpected, external factor affecting wetland preservation? *If so, consider a feasiblity study to explore solutions.*
3) Are there additional/enhanced opportunities in the projects listed in bold above? *Consider working with partners and exploring grants.*

Goal WQ11

Restore or enhance 5% (24 of 482 acres) of the restoration/enhancement management class of wetlands (as identified in the Comprehensive Wetland Plan), focusing on those that work towards prioritized and/or multiple District goals.

Performance Measures:	**Track progress towards restored/enhanced wetland acres every two years.**

Performance Tracking:	
Project Milestones	Status
CWP Plan Update 2020	**Incomplete**
Create Wetland Reserve Fund (2021)	**Incomplete**
CWP Plan Update 2024	
Restoration Milestones	Acres
Wetland Restoration 1 (by 2025)	
Wetland Restoration 2 (by 2027)	
Wetland Restoration 3 (by 2029)	
Wetland Restoration 4	
Wetland Restoration 5	

PROJECTS THAT WILL HELP ACHIEVE THE GOAL:

Capital Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Wetland Restoration & Enhancement*		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Operations & Maintenance Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Cost Share Program	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Highway 13 Wetland Restoration		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Planning Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Feasibility Reports		✓		✓		✓		✓		✓	
Comprehensive Wetland Plan Update	✓				✓						

Monitoring Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Wetland Monitoring	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

** Projects in **bold** have the greatest potential to achieve goals.*

If there is no progress in meeting wetland restoration acreage goals by 2025, the following should be explored:

1) Have all scheduled projects above been completed according to the timeline? *If not, consider implementing them.*
2) Is there an unexpected, external factor affecting wetland preservation? *If so, consider a feasiblity study to explore solutions.*
3) Are there additional/enhanced opportunities in the projects listed in bold above? *Consider working with partners and exploring grants.*

Goal WQ12

Stabilize a minimum of ten bank erosion/slumping sites, prioritzing those that impact Tier 1 or Tier 2 Lakes and/or meet multiple District goals.

Performance Measures:	**Track progress on bank stabilization projects implemented every two years, 10 completed by 2029.**

Performance Tracking:	
Project Milestones	Status
Conduct Field Assessment (2021)	**Incomplete**
Strategic Outreach (2022)	**Ongoing**
Stabilization Milestones	Status
Streambank Restoration 1 (by 2023)	**Smith Lined Waterway Complete 2020**
Streambank Restoration 2 (by 2025)	**Moen Lined Waterway Completed 2022**
Streambank Restoration 3 (by 2025)	**Dubbe Lined Waterway Completed 2023**
Streambank Restoration 4 (by 2025)	
Streambank Restoration 5 (by 2027)	
Streambank Restoration 6 (by 2027)	
Streambank Restoration 7 (by 2027)	
Streambank Restoration 8 (by 2029)	
Streambank Restoration 9 (by 2029)	
Streambank Restoration 10 (by 2029)	

PROJECTS THAT WILL HELP ACHIEVE THE GOAL:

Capital Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
County Ditch 13 Restoration*		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Streambank Restoration Program*	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓

Operations & Maintenance Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Cost Share Program	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Planning Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Feasibility Reports		✓		✓		✓		✓		✓	

Monitoring Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Stream & Ditch Monitoring	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

** Projects in **bold** have the greatest potential to achieve goals.*

If no streambank stablization projects have been completed by 2025, the following should be explored:

1) Have all scheduled projects above been completed according to the timeline? *If not, consider implementing them.*
2) Is there an unexpected, external factor affecting completion of projects? *If so, consider a feasiblity study to explore solutions.*
3) Are there additional/enhanced opportunities in the projects listed in bold above? *Consider working with partners and exploring grants.*

Goal WQ13

Improve the stability of the Prior Lake Outlet Channel through annual maintenance and 10,000 linear feet of bank repair work.

Performance Measures:	**Track progress towards 10,000 linear feet of bank repair work every two years.**

Performance Tracking:	
Project Milestones	Status
Develop Bank Repair Plan (2021)	**Complete**
Complete Bank Repairs (2023)	
Inspection + Maintenance Review	Status
2021	**Complete**
2023	**Complete**
2025	
2027	
2029	

PROJECTS THAT WILL HELP ACHIEVE THE GOAL:

Operations & Maintenance Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
PLOC Bank Restoration	✓	✓	✓	✓							
PLOC Management	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Planning Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Feasibility Reports		✓		✓		✓		✓		✓	

<u>If 10,000 linear feet of bank repair work has not been completed by 2025, the following should be explored:</u>

1) Have all scheduled projects above been completed according to the timeline? *If not, consider implementing them.*
2) Is there an unexpected, external factor affecting completion of projects? *If so, consider a feasiblity study to explore solutions.*
3) Are there additional/enhanced opportunities in the projects listed above? *Consider working with partners and exploring grants.*

Goal WQ14

Active participation in groundwater planning efforts and prioritize projects, programs and priority areas (e.g. DWSMA's) that include groundwater benefits".

Performance Measures:	**Staff attendance at groundwater planning workshops/meetings and incorporation of groundwater considerations into project selection process.**

Performance Tracking:	
Groundwater Protection Planning	
YEAR	**MEETINGS ATTENDED**
2021	**0**
2023	**0**
2025	
2027	
2029	
Groundwater Considerations in Projects	
YEAR	**PROJECT UPDATES**
2021	**9 decommissioned wells**
2023	**5 decommissioned wells**
2025	
2027	
2029	

PROJECTS THAT WILL HELP ACHIEVE THE GOAL:

Planning Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Feasibility Reports		✓		✓		✓		✓		✓	
Groundwater Protection Plan		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Monitoring Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Groundwater						✓	✓	✓	✓	✓	✓

Goal AIS1

Develop and implement an Aquatic Invasive Species (AIS) Response and Prevention Plan in coordination with Scott County to help prevent new AIS from entering Tier 1 lakes (lakes with public access).

Performance Measures:	**Completed AIS Plan; regular monitoring for AIS and implementation according to plan.**

Performance Tracking:	
Project Milestones	Status
Create AIS Response Plan (2021)	**Complete**
Biennially review implementation of: *- CLP assessment & treatment* *- AIS Reponse Plan implementation*	Status
2021	**Complete**
2023	**Complete**
2025	
2027	
2029	

PROJECTS THAT WILL HELP ACHIEVE THE GOAL:

Operations & Maintenance Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
AIS Prevention & Management*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Planning Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Feasibility Reports		✓		✓		✓		✓		✓	
AIS Rapid Response Plan		✓		✓		✓		✓		✓	

Monitoring Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Lake Monitoring	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

** Projects in **bold** have the greatest potential to achieve goals.*

If new AIS is discovered in the District or an existing AIS has rebounded, the following should be explored:

1) Have all scheduled projects above been completed according to the timeline? *If not, consider implementing them.*
2) Is there an unexpected, external factor affecting AIS introduction/management? *If so, consider a feasiblity study to explore solutions.*
3) Are there additional/enhanced opportunities in the projects listed in bold above? *Consider working with partners and exploring grants.*

Goal AIS2

Effectively manage common carp in Tier 1 Lakes to 30 kg/ha or below.

Performance Measures:	**Annually update IPM Plan for Carp; implement activities in the Plan to achieve carp populations of 30 kg/ha or below in Tier 1 Lakes.**

Performance Tracking:

	2019	2021	2023*	2025	2027	2029
Lake	**Carp (kg/ha)**	**Carp (kg/ha)**	**Carp (kg/ha)**	**Carp (kg/ha)**	**Carp (kg/ha)**	**Carp (kg/ha)**
Lower Prior	**9.4**	**Incomplete**	**n/a**			
Upper Prior	**304.8**	**211**	**175;67**			
Spring	**266.2**	**226.9**	**199;125**			
Fish	**85.7**	**Incomplete**	**57**			

*Where two numbers are given, the first represents calculations based on the 2018 population estimate. The second is based on 2023 CPUE surveys.

PROJECTS THAT WILL HELP ACHIEVE THE GOAL:

O & M Projects	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Carp Management	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Planning Projects	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Feasibility Reports		✓		✓		✓		✓		✓	

If carp populations are not making significant progress towards meeting goals by 2025, the following should be explored:

1) Have all scheduled projects above been completed according to the timeline? *If not, consider implementing them.*
2) Is there an unexpected, external factor affecting carp management? *If so, consider a feasiblity study to explore solutions.*
3) Are there additional/enhanced opportunities in the District? *Consider working with partners and exploring grants.*

Goal AIS3

Monitor curly-leaf pondweed growth on Tier 1 Lakes and treat as needed to prevent adverse effects on water quality.

Performance Measures:	**Monitor curly-leaf pondweed; implement treatments of curly-leaf pondweed as needed.**

Performance Measures:					
	2021	**2023**	**2025**	**2027**	**2029**
Lake	**Status**	**Status**	**Status**	**Status**	**Status**
Lower Prior	**Complete**	**Complete**			
Upper Prior	**Complete**	**Complete**			
Spring	**Complete**	**Complete**			
Fish	**Complete**	**Complete**			

PROJECTS THAT WILL HELP ACHIEVE THE GOAL:

Operations & Maintenance Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
AIS Prevention & Management*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Monitoring Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2028**	**2029**
Lake Monitoring	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Goal AIS4

Implement new management techniques for zebra mussels as innovative, cost-effective methods are developed.

Performance Measures:	**Monitor advances in management techniques; implement control methods as available.**

Performance Measures:	
Research Review	Status
2021	**Complete**
2023	**Complete**
2025	
2027	
2029	

PROJECTS THAT WILL HELP ACHIEVE THE GOAL:

Operations & Maintenance Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
AIS Prevention & Management*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Planning Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Feasibility Reports		✓		✓		✓		✓		✓	

<u>Outcome:</u> Regular coordination with UMN and other research labs; feasibility study for new methods of zebra mussel management, if developed.

Goal RF1

Achieve the first-tier priority flood reducation goal to reduce the flood level on Prior Lake from 905.62 to 905.5 feet for the 25-year return period.

Performance Measures:	**Track storage created towards goal of 176 acre-feet on Prior Lake.**

Flood Levels *(25-Year Return Period)*	
Existing	**905.62 ft**
GOAL	**905.50 ft**

Upstream Storage	
GOAL:	**176 ac-ft**

Performance Tracking:	
Project	**Status**
Sutton Lake Outlet (2021)	**Complete**
Upstream Storage Status	**Acre-feet**
2023	**0**
2025	
2027	
2029	
Flood Level Status	**feet**
2025	
2027	
2029	

PROJECTS THAT WILL HELP ACHIEVE THE GOAL:

Capital Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
County Ditch 13 Restoration		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Storage & Infiltration Projects*		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sutton Lake Outlet Structure*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Wetland Restoration & Enhancement		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Wetland Banking Program		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Operations & Maintenance Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Cost Share Program	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Planning Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Comprehensive Wetland Plan Update	✓				✓						
Feasibility Reports		✓		✓		✓		✓			✓
Regional Stormwater Planning		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Upper Watershed Storage Strategy	✓	✓									

Monitoring Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Precipitation & Weather	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PCSWMM Model Update & Maintenance	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

** Projects in **bold** have the greatest potential to make progress towards achieiving the goal.*

<u>If the goal has not been achieved by 2027, the following should be explored:</u>

1) Have all scheduled projects above been completed according to the timeline? *If not, consider implementing them.*
2) Is there an unexpected, external factor affecting the achievement of the goal? *If so, consider a feasiblity study to explore solutions.*
3) Are there additional/enhanced opportunities in the projects listed in bold above? *Consider working with partners and exploring grants.*

Goal RF2

Continue to operate the Prior Lake Outlet Structure according to the Prior Lake Outlet Control Structure Management Policy and Operating Procedures (last revised July 3, 2017).

Performance Measures:	**Submit the Prior Lake Outlet System Annual Operations Report to MNDNR.**

Biennial Performance Tracking:	
Annual Reports Submitted	**Status**
2021	**Submitted**
2023	**Submited**
2025	
2027	
2029	

PROJECTS THAT WILL HELP ACHIEVE THE GOAL:

Operations & Maintenance Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
PLOC Management	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Goal RF3

Eliminate/reduce the impact of new development and redevelopment on flooding.

Performance Measures:	**Revised rules are adopted; District Rules effectively enforced**

Biennial Performance Tracking:	
Assess Permit Program	**Status**
2021	**Complete**
2023	**Complete**
2025	
2027	
2029	
Projects	**Status**
Revised Rules Adopted	**Adopted 2022**

PROJECTS THAT WILL HELP ACHIEVE THE GOAL:

Regulation Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Permit Program*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Conservation Easement Program	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
District Rules Updates	✓					✓					✓
District Boundary Revisions	✓	✓									

** Projects in **bold** have the greatest potential to make progress towards achieiving the goal.*

Goal RF4

In partnership with the City of Prior Lake, complete updates to the PCSWMM Model to refine and improve understanding of flooding in the watershed.

Performance Measures:	**Updated PCSWMM model.**

Biennial Performance Tracking:	
PCSWMM Updates	**Status**
2021	**Complete**
2023	**None Needed**
2025	
2027	
2029	

PROJECTS THAT WILL HELP ACHIEVE THE GOAL:

Monitoring Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Precipitation & Weather	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PCSWMM Model Update & Maintenance*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

** Projects in **bold** have the greatest potential to make progress towards achieiving the goal.*

Goal RF5

Assess progress on flood reduction goals and establish an updated flood reduction goal for the next water resources management plan.

Performance Measures:	**Track progress on development of Upper Watershed Storage Strategy; updated flood reduction goal by 2029.**

Performance Tracking:	
Updated Goals	**Status**
2029	**In Progress**

PROJECTS THAT WILL HELP ACHIEVE THE GOAL:

Planning Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Feasibility Reports		✓		✓		✓		✓		✓	
Upper Watershed Blueprint	✓	✓									

Monitoring Projects	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
Precipitation & Weather	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PCSWMM Model Update & Maintenance	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓