



2024
annual
REPORT

RAMSEY-WASHINGTON
METRO WATERSHED DISTRICT

ANNUAL REPORT

RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

YEAR IN REVIEW

INTRO

Message from the Administrator.....1

OVERVIEW

Staff & Board 2-3

THE WATERSHED
RWMWD Boundary Map 4-5

Capital Improvement Projects 6-7

Education & Outreach 8-10

Gallery of Pictures 10-11

Natural Resources 12-13

Events & Awards 14-15

Inspecting & Permitting 16-17

Water Monitoring 18-19

By the Numbers 20



LETTER FROM THE ADMINISTRATOR

ADVANCING THE MISSION, ADAPTING TO ORGANIZATIONAL & COMMUNITY NEEDS

THIS PAST YEAR WAS A PERIOD OF TRANSITION AND GROWTH FOR THE RAMSEY-WASHINGTON METRO WATERSHED DISTRICT.

We continued to advance our mission while adapting to organizational and community needs across the watershed. A key milestone in 2024 was co-hosting the Minnesota Watersheds Summer Tour with Capitol Region Watershed District.

This event provided an opportunity to highlight local projects, share knowledge with watershed professionals from across the state, and reinforce the importance of collaboration in protecting Minnesota's water resources.

In 2024, the District also completed an internal restructuring to better align staff expertise with programmatic priorities. Six staff members now serve as program managers, strengthening coordination across work areas and enhancing our ability to deliver effective, timely, and innovative watershed solutions. This structure positions the District well as we continue to respond to evolving water quality, flooding, and climate-related challenges.

This year also marked the retirement of Engagement Specialist Sage Passi after more than 20 years of service to the District. Sage played a central role in shaping the District's education program into what it is today and building lasting relationships throughout the community. I sincerely thank her for her many contributions and dedication to the District's mission.

None of this work would be possible without the continued support of our Board of Managers, partner agencies, cities, community organizations, volunteers, and staff. As we close out 2024, we look ahead to 2025, our 50th anniversary year. We look forward to connecting with our community, reflecting on five decades of watershed protection, and continuing to preserve and improve water resources now and for future generations.

Tina Carstens



2024 STAFF & PARTICIPANTS

Board Members & CAC Advocates Watershed Staff



Board of Managers Tour at Pioneer Park (3)

2024 CITIZEN ADVISORY COMMITTEE MEMBERS

Cliff Aichinger
John Chikkala
Jill Danner
Randee Edmundson
Hallie Finucane
Mark Gernes
Jennifer Gruetzman
Ben Karp
Katheryn Keefer
Stuart Knappmiller
Dana Larsen-Ramsay
Tammy McCulloch
Gary Nelson
Glen Olson
Gary Schroeder
Scott Ramsay
Karen Wold
Stephanie Wang

2024 RWMWD BOARD

Val Eisele	Board President
Benjamin Kar	Vice President
Matt Kramer	Treasurer
Mark Gernes	Secretary
Stephanie Wang	Member



Waterfest Community Event Information Tent Staff & Volunteers

2024 STAFF LIAISONS

Sage Passi
Carrie Magnuson



Board and Staff at the 2024 Minnesota Watersheds Conference

2024 RWMWD STAFF



Tina Carstens
Administrator



Paige Ahlborg
Assistant Administrator



Paul Erdman
Natural Resources Program Manager



Mary Fitzgerald
Regulatory Specialist



Lauren Hazenson
Communications and Engagement Program Manager



Emily Kamin
Administrative Assistant



Eric Korte
Water Monitoring and Research Program Manager



Kyle Kubitza
Water Monitoring Technician



Carrie Magnuson
Communications Specialist



Shelly Melser
Office Manager



Sage Passi
Engagement Specialist



Lyndsey Flaten
Monitoring Technician



Ashley Ricci
Grant Program Specialist



Nicole Maras
Regulatory Program Manager



Joe Tillotson
Natural Resources Technician



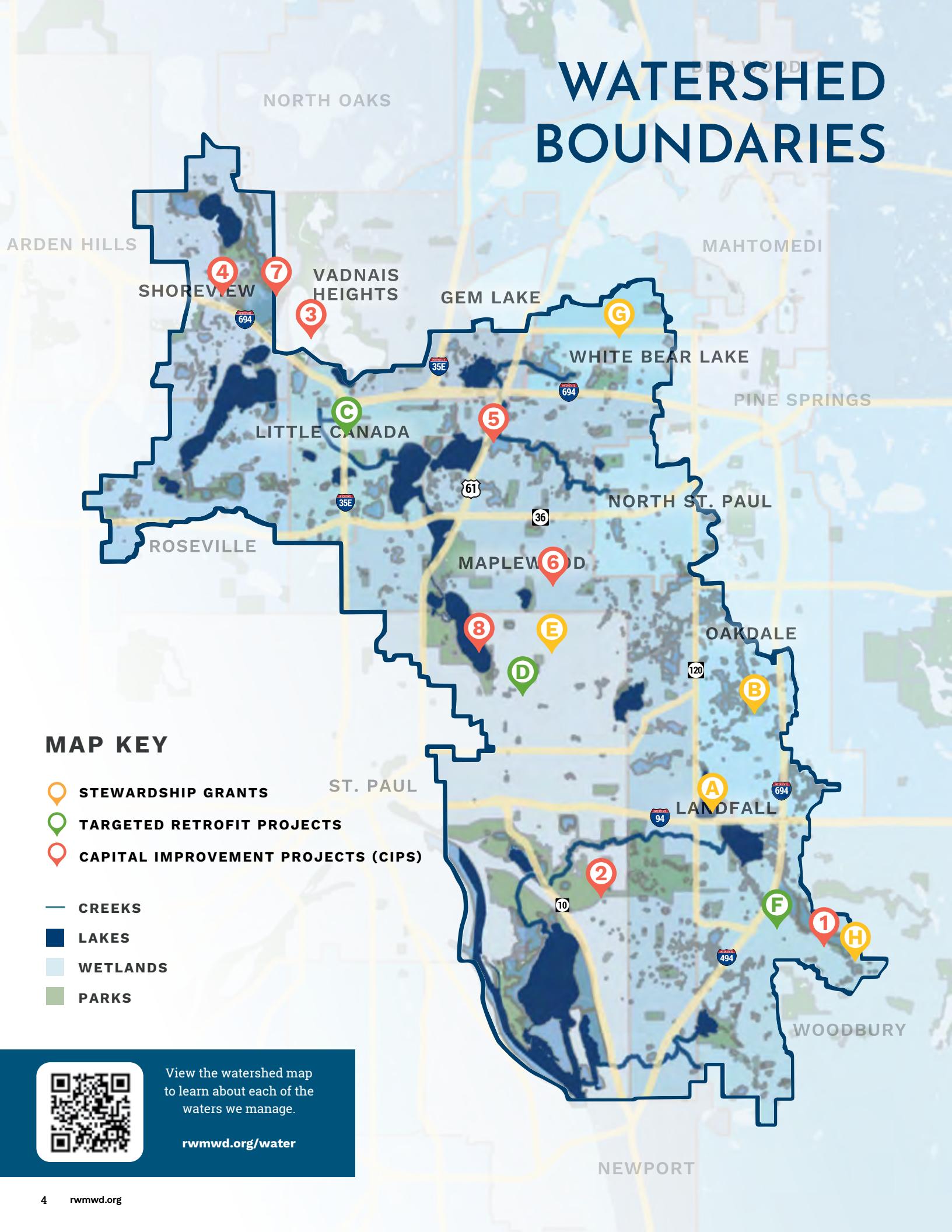
Dave Vlasin
Watershed Project Coordinator



Pat Williamson
Natural Resources Specialist

RWMWD STAFF

WATERSHED BOUNDARIES



View the watershed map
to learn about each of the
waters we manage.

rwmwd.org/water



RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

2024 PROJECTS & LOCATIONS

- 1 **PFS Basins** — Paver Cleaning
- 2 **Lower Afton Road** — Treatment Bay Sediment Removal
- 3 **West Vadnais Lake** — Maintenance Ramp
- 4 **Grass Lake** — Maintenance Ramp
- 5 **Kohlman Basin** — CC-17 Placement
- 6 **Aldrich Area** — Splash Block Repair
- 7 **West Vadnais** — Drainage improvements
- 8 **Ramsey Count Arlington** — Pond Cleanout
- A **Landfall 2024** — Street Sweeping
- B **Oakdale 2024** — Street Sweeping
- C **Pioneer Park** — Reuse
- D **Roosevelt Homes** — Phase 2
- E **St. Paul 2024** — Street Sweeping
- F **Target Woodbury** — Retrofit
- G **White Bear Lake 2024** — Street Sweeping
- H **Woodbury 2024** — Street Sweeping

OUR MISSION

To **PRESERVE** and **IMPROVE** water resources and related ecosystems to **SUSTAIN** their long-term health & integrity and **CONTRIBUTE** to the well-being and engagement of stakeholders within the community.

OUR BACKGROUND

Ramsey Washington Metro Watershed District works across municipal boundaries to manage about 65 square miles that eventually drain into the Mississippi River, including 25 lakes, five streams and over 1,000 wetlands.

We contribute funding and technical expertise to water infrastructure projects, help regulate development through permitting, manage natural resources and educate the public on watershed issues. As a special-purpose unit of government, we were established in 1975 under what is now the Minnesota Watershed Act. This provides planning, regulatory and taxing authority to coordinate watershed management efforts between city, county and state agencies.

Capital Improvement & Stewardship Grants

2024 PROJECTS HIGHLIGHTS

[CLICK HERE TO LEARN MORE ABOUT PROJECT HIGHLIGHTS](#)

Capital Improvement Projects (CIP) and the Stewardship Grant Program work together to deliver effective, long-term improvements to water quality, flood risk management, and local ecological health. The CIP Program focuses on large-scale solutions to reduce flooding and improve water quality, including stormwater treatment systems, outlet control structures, and other stormwater infrastructure.

Complementing these efforts, the Stewardship Grant Program provides financial, educational, and technical assistance to protect and enhance water resources throughout the watershed. Grant funding is available to public and private landowners for projects that filter and reduce runoff, protect groundwater, restore native ecosystems, prevent flooding, and mitigate drought impacts.

WOODBURY TARGET STORE — STORMWATER IMPROVEMENTS

An ongoing partnership with Target Corporation continues to advance stormwater management and pollution reduction at retail sites across the District. Following successful rain garden installations at the North St. Paul and Eastside St. Paul stores, the Woodbury Target became the third location to incorporate water-quality improvements in its parking lot in 2024. As demand for large parking areas has decreased with the rise of online shopping, unused pavement now offers ideal opportunities for green infrastructure. At the Valley Creek store, eight parking spaces were replaced with two expansive rain gardens and a trench drain system designed to capture and filter stormwater onsite. These new features will help reduce phosphorus loading to Battle Creek Lake and prevent untreated runoff from entering the storm sewer system. Beyond their water-quality benefits, the rain gardens will add

Roosevelt Basin



Woodbury Target infiltration basin rain garden



Target Stormwater management drainage



Woodbury Target tree trench

pollinator habitat and enhance the environmental performance of this highly used commercial property.

ROOSEVELT HOMES PHASE TWO – FLOOD REDUCTION AND HABITAT IMPROVEMENTS

Roosevelt Homes, a 23-acre affordable housing community on Ames Avenue built in 1951, is home to more than 500 residents and has long experienced periodic flooding that affects its playground, parking areas, and maintenance facility. The District has made flood reduction in this neighborhood a priority, completing upstream projects at a nearby school and the Eastside Boys and Girls Club before beginning on-site improvements in 2023. Flooding at Roosevelt Homes resulted from runoff from Ames Avenue, limited drainage within the property, and undersized stormwater infrastructure. To address these challenges, the District constructed two infiltration basin rain gardens that provide an additional 275 cubic yards of flood storage, completing this phase of improvements in 2024.

The West Rain Garden, located near Hazelwood Street, is designed as an infiltration basin planted with tallgrasses to create an attractive and low-maintenance feature. It temporarily holds rainfall that

previously flowed toward low-lying pavement, reducing nuisance flooding in the parking areas. The East Rain Garden, situated at the intersection of Ames Avenue and Germain Street, mirrors this design and features flowering black chokeberry shrubs and native grasses that help manage stormwater while offering habitat and winter food sources for wildlife. In addition, more than an acre of turf grass on a steep slope will be converted to prairie vegetation. This hillside planting will stabilize soils, slow runoff, improve safety for maintenance crews, and create vibrant pollinator habitat.

Together, these improvements reduce localized flooding, filter stormwater before it reaches the Mississippi River, enhance habitat for pollinators and other wildlife, and significantly improve the aesthetic quality of the Roosevelt Homes property, making it a more welcoming environment for residents.

PIONEER PARK STORMWATER REUSE SYSTEM

The stormwater reuse system at Pioneer Park represents a major investment in climate resilience and sustainable water use. The

park's two ponds collect runoff from surrounding tennis courts, athletic fields, trails, parking areas, shade structures, the pavilion, and nearby homes. The reuse system draws water from the upper foot of both ponds and provides an average of 1.8 million gallons of stormwater annually for irrigation of athletic fields and landscaping. This non-potable water supply will meet roughly 87 percent of the park's irrigation needs, significantly decreasing reliance on groundwater. The existing irrigation well will remain available only as a backup.

The system delivers substantial water-quality benefits by reducing the volume of stormwater that would otherwise flow to downstream areas prone to flooding during intense storms. In addition, the system provides an average annual reduction of approximately 1,200 pounds of total suspended solids and six pounds of phosphorus. While Gervais Lake currently meets state water-quality standards, its outlet stream, Gervais Creek, is at risk of impairment and the reductions provided through the reuse system contribute to downstream protection. 

2024

Education Communication & Outreach

ENGAGING THE COMMUNITY FOR THE FUTURE

Exceptional L.E.A.P. Tour St Peters



Jane Carlstrom, Ramsey City Master Gardener
cleans seeds third graders



Engagement table at the Hmongtown Farmer's Market



Harmony Learning Center Adult ESL students

[CLICK HERE TO LEARN MORE ABOUT EDUCATION & OUTREACH](#)

35

MASTER
GARDENERS

15

CLASSROOMS
AT FIVE
SCHOOLS

In 2024, the Watershed District's education team engaged thousands of students, teachers, and community members across dozens of schools and partner organizations. Staff participated in professional development opportunities early in the year, including the Science Museum of Minnesota's Community Network of STEM Justice training and a two-day workshop hosted by the Lower Sioux Indian Community focused on tribal history, sovereignty, and relationship-building—groundwork that strengthened ongoing partnerships with American Indian Magnet School.



NATIVE SEED STARTING AND PLANTING

The year kicked off with a series of native seed starting classes for adults and K-12 students. Between January and April, the education team and 35 Ramsey County Master Gardeners supported ten classrooms—from L'Etoile du Nord, Weaver Elementary, American Indian Magnet, St. John's, and Harmony Learning Center—in cleaning, stratifying, and transplanting hundreds of native seedlings. Plants grown by students were later shared at community events, including National Night Out, the Lake Phalen Pollinator Festival, and summer farmers markets. **Totals: 233 students, 35 Master Gardeners, 5 schools.**

WATER QUALITY EDUCATION

Throughout winter and spring, the Water Quality and Education teams partnered to bring hands-on water testing lessons to 22 classes at nine schools. Students compared their own dissolved oxygen and clarity measurements with Sonde data and learned how chloride, stormwater runoff, and native vegetation influence watershed health. Lessons were held at L'Etoile du Nord, American Indian Magnet, Farnsworth, Central Park Elementary, Mounds Park Academy, St. John's, AFSA, and Harmony Learning Center. **Totals: 491 students across 22 classes.**

KELLER LAKE RESTORATION & SCHOOL PLANTINGS

Spring brought extensive shoreline and rain garden planting at Keller Lake and school campuses. Students from Mounds Park Academy, American Indian Magnet, Farnsworth Aerospace, Weaver Elementary, L'Etoile du Nord, and Woodbury Elementary planted native shoreline species, learned about watershed restoration, and participated in cultural programming led by American Indian Magnet's cultural leader. **Totals: 263 students from 10 classes participated in Keller Lake plantings;**

56 Woodbury Elementary students planted in their school rain garden.

COMMUNITY OUTREACH

Education staff and Water Stewards participated in community events including Phalen Freeze Fest, Rivoli Bluff, and National Night Out, providing information about chloride reduction, native landscaping, and stewardship opportunities, along with distributing native plants grown by students.

FALL 2024 SCHOOL PARTNERSHIPS

In fall 2024, education staff met with 24 teachers and delivered watershed pre-lessons and hands-on activities to students at Island Lake Elementary, L'Etoile du Nord, Central Park Elementary, Mounds Park Academy, and Lionsgate Academy. Lessons included native plant identification, stormwater modeling with the Enviroscape, seed collection, field trips to local restoration sites, and the Project WET "Just Passing Through" activity.

American Indian Magnet students toured native plantings along Phalen Creek, while Mounds Park Academy's Environmental Chemistry class met with the District's Water Quality team during sampling at Wakefield Lake.

A student-led native tree planting project at Woodbury Elementary brought together Watershed staff, Washington County Master Gardeners, and Natural Resources interns to install two native basswood trees in the school's large rain garden.

SERVICE LEARNING AND STEWARDSHIP

Students engaged in real-world stewardship through leaf-removal events at Central Park Elementary and Farnsworth Aerospace, collecting and composting more than 130 bags of leaves to reduce nutrient-laden runoff. St. John's sixth graders visited the

District office and Gervais Mill Ponds to study BMPs, stormwater design, and aquatic ecosystems.

Communications & Engagement

RWMWD ADMINISTERS ITS FIRST TEXT MESSAGE DELIVERED COMMUNITY SURVEY

In February, the District conducted a community-wide survey delivered via text to approximately 25,000 phone numbers. The survey received 624 responses, representing a 3 percent return rate and a 4 percent margin of error, which is considered reliable for the population size. Responses reflected statistically significant variation across age, ethnicity, and income groups. FlashVote, the District's survey contractor, also provided geographic overlays showing trends by subwatershed, city, and equity priority areas.

The results highlight opportunities to strengthen public understanding of the District's work and improve visibility in certain areas. They also offer valuable insights into the water-related concerns residents identify as most important in their communities and which characteristics they consider indicators of "healthy and safe" water bodies.

WaterFest Evaluation and Survey

A total of 169 attendees completed on-site surveys. Among those surveyed, 81 percent reported familiarity with WaterFest's surface water conservation message, and 59 percent recognized RWMWD as the event host. All surveyed participants indicated they had committed to at least one water-friendly action or planned to continue learning about watershed protection. Full survey results and charts are included in the supplemental section at the end of this report. ☀

2024

In Pictures



Monitoring Technician Lyndsey Flaten collects a lake water sample



Aldrich arena rain garden



Bette Danielsen, Minnesota Water Steward assists American Indian Magnet fifth graders



Project Coordinator Dave Vlasin meets with contractors and engineers at the Woodbury Target site



Mounds Park Academy highschoolers tour Wakefield Pond



Natural Resources

CONSERVE & RESTORE

[CLICK HERE TO LEARN MORE ABOUT NATURAL RESOURCE ACTIONS](#)

The Natural Resources program focuses on conserving and restoring aquatic habitats, wetlands, and the surrounding subwatersheds to improve water quality, reduce erosion, and manage flood risk, while also supporting habitat for wildlife. This work includes managing aquatic invasive species, such as common carp, using targeted monitoring and removal approaches. Following project completion, ongoing and comprehensive maintenance helps ensure these restoration efforts remain effective over the long term.



Natural Resources staff and interns complete a shoreline planting

GOODRICH GOLF COURSE: EXPANDING PRAIRIE HABITAT

Work at Goodrich Golf Course continued to gain momentum in 2024. Ramsey County and Superintendent Scott Weik remain enthusiastic about the restoration efforts that began in 2022, noting strong support from golfers for converting more no-mow turf into native habitat. In the fall, we expanded Site 7 in the northwest corner of the course from a quarter-acre to just over one acre of prairie. The project included removing turf



Natural Resources intern Sommer and Natural Resources Specialist Pat install biologs at the Keller Lake shoreline restoration



RWMWD staff at the Hanlo's Pond buckthorn volunteer event

grass and seeding 10 native grass species and 29 wildflower species. Staff will monitor and maintain the site as it establishes over the next several years, adding to the 2.5 acres of prairie already restored at Goodrich and laying the groundwork for future expansion.

PRESCRIBED FIRE PROGRAM

Prescribed fire remains one of our most effective tools for maintaining healthy prairies and woodlands. In 2024, staff completed burns at 20 sites, totaling approximately 17 acres. These controlled burns help manage invasive species, stimulate native plant growth, and support long-term ecological resilience.

CARP MANAGEMENT

Our carp management program made significant progress in 2024. A total of 735 carp were removed from District waters—a substantial increase from 2023, when drought conditions limited migration and capture. Removals included 635 carp from the Owasso chain of lakes and 100 from Gervais Mill Pond. Continued monitoring shows all managed lakes remain below the critical threshold of 100 kg/ha, the level at which carp begin to degrade water quality and habitat.

Population surveys conducted in 2024 further confirmed low biomass levels: Grass Lake (26.1 kg/ha), Lake Owasso (34.4 kg/ha), Gervais Lake (72.5 kg/ha), and Kohlman Lake (14.3 kg/ha). Trapnetting also detected no carp in Willow Lake and identified 94 in Wetland A, a closed basin where

carp likely entered during a 2019 flood event.

Looking ahead, planned work for 2025 includes continued removal efforts, additional population surveys, installation of a new temporary barrier at Gervais Mill Ponds, exploration of an electric barrier for 2026, and coordination on a permanent barrier at the Lake Wabasso outlet. Staff will also begin assessing goldfish populations in Wakefield Lake, Markham Pond, and Wicklander Pond to determine whether management is needed.

In late 2024, the District contributed data to a statewide assessment of carp management effectiveness led by the University of Minnesota, with findings expected in spring 2025.

RESTORATION MAINTENANCE

Ongoing maintenance is essential to the long-term success of the District's natural areas. In 2024, the Natural Resources Program invested approximately 2,550 staff hours in maintaining more than 100 acres of prairies, wetlands, and woodlands across the watershed. Nearly one-third of this effort was allocated to the Keller Shoreline Restoration Project.

The team follows an Integrated Pest Management (IPM) approach that prioritizes prevention and employs mechanical, cultural, biological, and chemical methods to control invasive species and promote healthy native plant communities.

COMMUNITY STEWARDSHIP

This year also brought new opportunities for community engagement. In partnership with the City of White Bear Lake and our Citizen Advisory Commission, staff and volunteers held a buckthorn removal event at Hanlo's Pond in October. Volunteers cleared dense stands of buckthorn and other woody invasives, making way for native plantings to be seeded later in the fall. We look forward to expanding these collaborative stewardship efforts in the years ahead.

KELLER LAKE SHORELINE RESTORATION PROJECT

This project is a collaboration with Ramsey County Parks & Recreation and is part of the Keller Habitat Enhancement Project, which is funded by a Conservation Partners Legacy grant. The planting in 2025 will complete this project and the grant will be fully expended.

- **1,000 LIN FT** shoreline restored
- **263 STUDENTS** engaged
- **4,000+ NATIVES**
- **6 LBS OF SEED**
- **10 NATIVE SHRUBS** and vines
- **75+ PLANT SPECIES**
- **68 BIOLOGS**
- **33 TONS OF ROCK**
- **42 CU YDS OF SOIL**
- **442 NR Program Labor Hours**
- **\$33,000** approx. project cost

Events & Awards

NOV. 21
 Annual RWMWD
 Recognition
 Dinner

**AND THE
 WINNER IS**

...



LANDSCAPE ECOLOGY AWARDS PROGRAM (L.E.A.P.)

The Landscape Ecology Awards Program recognizes landowners in the Ramsey-Washington Metro Watershed District, including private residences, public and commercial properties, who use management practices that support clean water and wildlife habitat.

2024 L.E.A.P. RECIPIENTS

**Ramsey County Parks
 and Recreation**
 Maplewood

Rosie Hoffman
 Maplewood

**Sarah Barsel and
 Randy Neprash**
 Roseville

Janet Berryhill
 Roseville

WATERSHED EXCELLENCE AWARDS

The Watershed Excellence Awards celebrate accomplishments in watershed management, education, stewardship, advocacy, and collaboration.

2024 RECIPIENTS

**Outstanding Partner
 Awards**
 City of Landfall

Good Steward Award
 Gary Schroeder

**Outstanding
 Educator Award**
 Mitch Thomsen

**Roger Lake Stewardship
 Excellence Award**
 Simba Blood



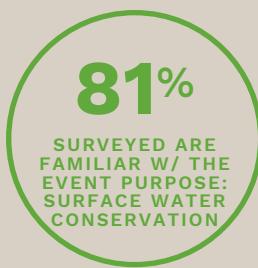
JUNE 1

Annual Waterfest Community Event



CELEBRATING CLEAN LAKES WITH OUR WATERSHED COMMUNITY

This free, family festival celebrating our clean lakes provides an opportunity for outdoor hands-on learning about clean water, wildlife, and land and water conservation.



Inspections Permits & Regulatory

PROTECTING PUBLIC WATER RESOURCES

Inspections Intern Kendra and Barr Engineering staff Gareth complete underground inspections

LEARN MORE ABOUT PROJECT HIGHLIGHTS

Multiple levels of government play distinct roles in protecting water resources at the local, state, and federal levels. Like other watershed districts, RWMWD serves as a local regulatory authority. The District's permitting program establishes standards for stormwater management, flood control, wetland protection, erosion and sediment control, and the prevention of illicit discharges and connections to the stormwater conveyance system. Permits are required for development and redevelopment projects that disturb one acre or more of soil, or that involve land alterations within wetlands or floodplains. For sites larger than one acre, the rules require capture of 1.1 inches of rainfall, along with measures to prevent erosion and runoff-related pollution during and after construction. Full permitting rules, along with additional guidance, are available at rwmwd.org/permits.



Kendra investigating non compliance

REGULATORY PROGRAM

The Regulatory Team is growing! In 2024, we hired a seasonal inspection intern, Kendra, who focused on inspection of stormwater best management practices and active construction sites for erosion and sediment control. In August, Kendra accepted a full-time permanent position as a Regulatory Technician. With three full-time regulatory staff, we've been able to increase oversight of projects and facility maintenance activities, contributing to a cleaner, healthier watershed.

GOLD LINE BUS RAPID TRANSIT: 2024

OVERVIEW

The Metro Transit Gold Line Bus Rapid Transit (BRT) project saw significant progress this year. The entire transit lane was paved, and all 34 permanent water-quality best management practices were installed. District staff conducted 18 enforcement inspections in 2024, each requiring 3 to 5 hours on-site and an additional 2 to 3 hours for reporting, totaling an estimated 90 to 144 hours dedicated to regulating this project alone. Inspections occurred in all conditions, from a low of 5°F to a high of 87°F. Collaboration with Metro Transit construction staff remained essential throughout the year. ☀️

Largest Active Permit Sites in 2024

224 ACRES

Metro Transit Gold Line BRT

Landfall, Maplewood, Oakdale, St. Paul, Woodbury

112 ACRES

The Heights Redevelopment

St. Paul

34.3 ACRES

Shoreview Deluxe Redevelopment

Shoreview

25.8 ACRES

Hodgson Road Reconstruction

Ramsey County, Shoreview

21.6 ACRES

Pioneer Commons Residential Development

Little Canada

Active Construction Sites by Project Type



2 office | 1 infrastructure | 1 water quality
1 wetland restoration | 1 community center
1 public works facility

2024

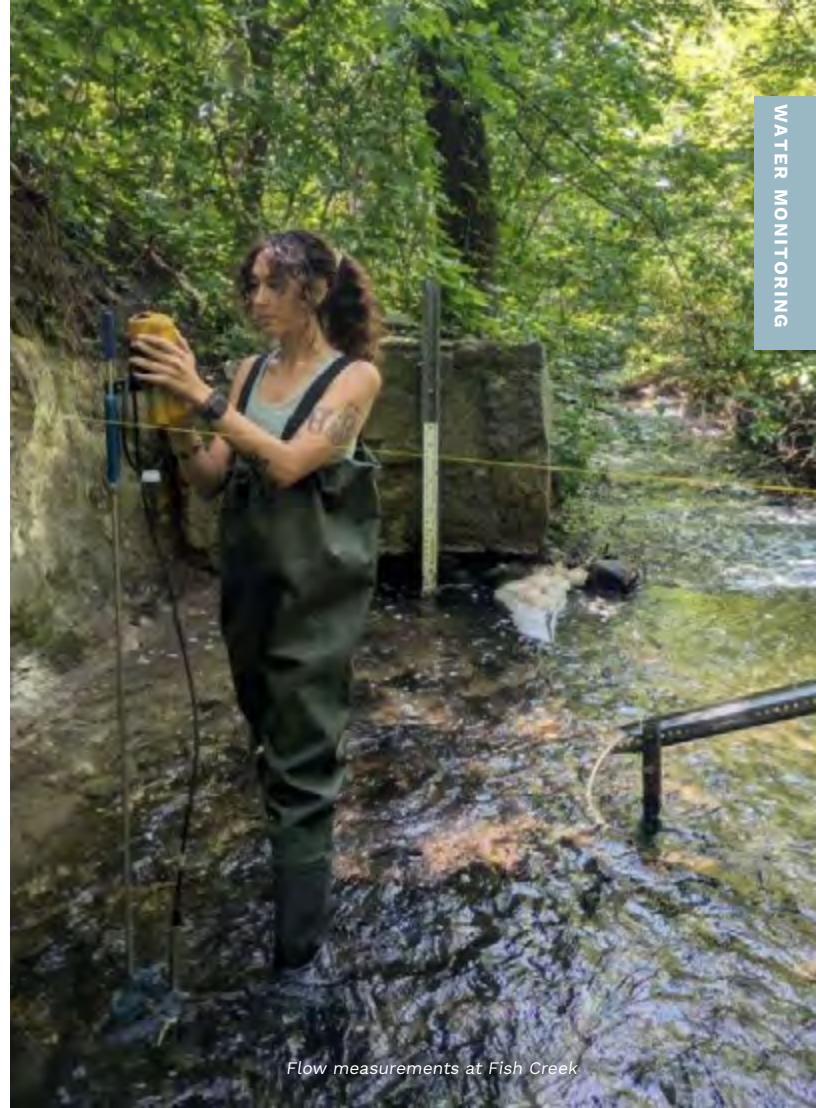
Water Monitoring



CLEAN, HEALTHY & SAFE WATERS

[CLICK FOR WATER MONITORING DETAILS](#)

Interns Kendra and Mia and RWMWD staff Lyndsey Flaten conduct lake sample grabs



District Lake and Stream Water Quality Trends – Long-term monitoring data indicate mixed trends in water quality across District lakes in 2024.

DISTRICT LAKE AND STREAM WATER QUALITY TRENDS FOR 2024

Long-term monitoring data indicate mixed trends in water quality across District lakes in 2024. Lake Wabasso, Lake Owasso, and Wakefield Lake all showed improvements over the past year, while Battle Creek Lake, Keller Lake, and Kohlman Lake experienced declines. Stream monitoring results tell a similar story: although Battle Creek, Fish Creek, Kohlman Creek, the Beltline Interceptor, and Gervais Creek have shown decades of gradual improvement, progress appears to have plateaued in recent years. In some cases, water quality has trended slightly downward over the last decade. This year also marked the tenth year of lake and stream chloride monitoring for most waterbodies in the District. Several lakes now show a ten-year worsening trend in chloride concentrations, reflecting regional increases in chloride use and the cumulative impacts of winter maintenance practices.

Despite recent challenges, long-term data demonstrate that water quality improvements in District lakes and streams have been substantial. Many of these gains can be attributed to the implementation of best management practices (BMPs), although shifts in precipitation patterns also contributed to this change. Over the past twenty years, the District has deployed a new generation of BMPs designed to remove not only particulate phosphorus but also dissolved phosphorus, a more difficult pollutant to treat. Their performance provides valuable insight into the effectiveness of treatment approaches and media types. Overall, monitoring results from 2024 emphasize the importance of continued investment in innovative BMPs and ongoing tracking of long-term trends. While many systems are performing well, rising chloride levels and emerging performance variability underscore the need for adaptive management as the District works to protect water quality under changing environmental conditions. ☀

By the Numbers

2024 GENERAL FUND BUDGET

Engineering	\$ 512,000
Attorney	\$ 40,000
Managers	\$ 10,000
Finance/Auditing	\$ 80,000
Miscellaneous	\$ 88,500
Administrative	\$ 2,000,000
Program Activities	\$157,000
	\$ 825,000

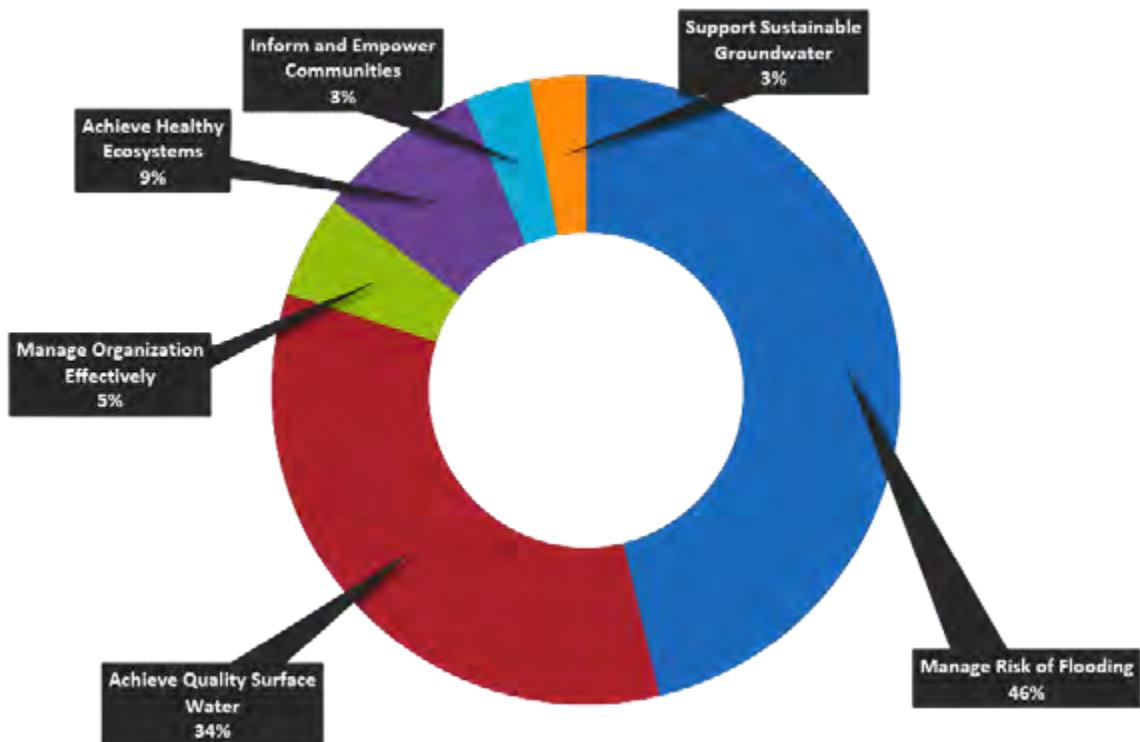
TOTAL = \$ 4,492,000

2024 CAPITAL IMPROVEMENT BUDGET

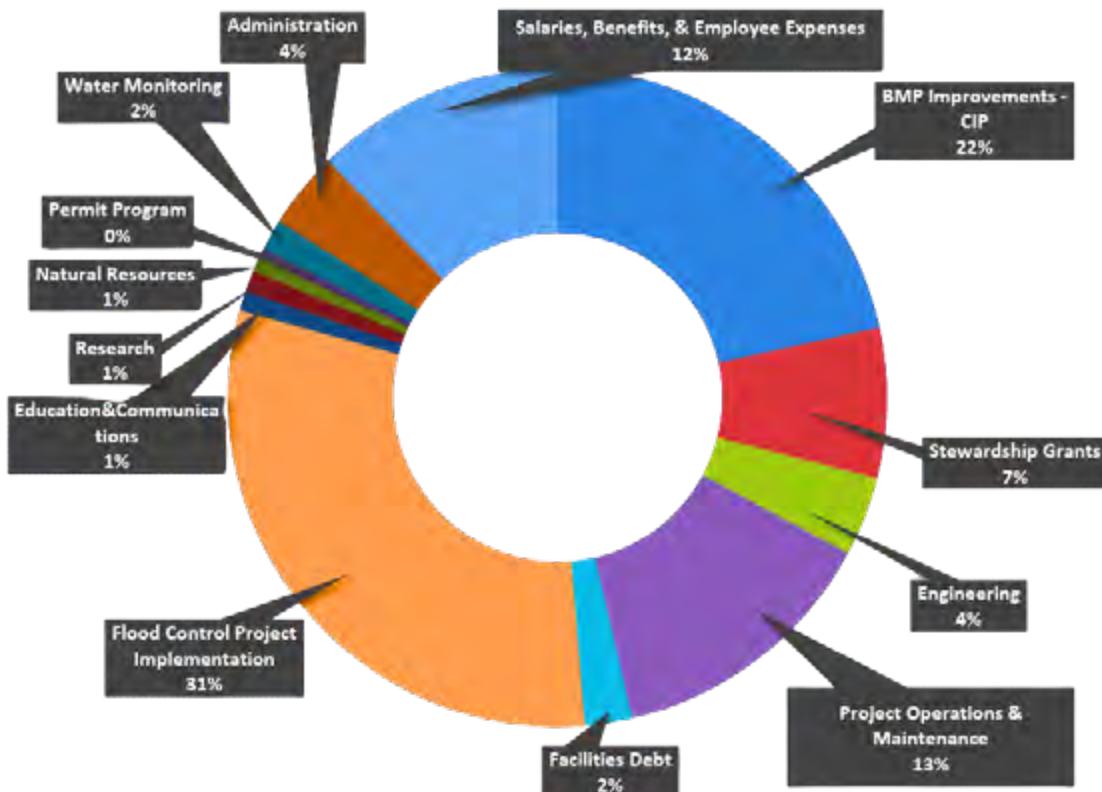
Maplewood Mall SRF Loan Debt Service	\$ 92,000
Summary Beltline & Battle Creek Tunnel Repair Debt Service	\$ 302,963
Targeted Retrofit Projects	\$ 2,100,000
Stewardship Grant Fund	\$ 1,250,000
Double Driveway Water Quality Optimization Implementation	\$ 1,275,000
Project Repair & Maintenance	\$ 1,600,000
Wetland Restoration Projects	\$ 700,000
Flood Risk Reduction Fund	\$ 5,200,00

TOTAL = \$ 7,319,963

2024 BUDGET BY PLAN/GOAL



2024 BUDGET BY PROGRAM





QUALITYWATER
for QUALITY LIFE



RAMSEY-WASHINGTON
METRO WATERSHED DISTRICT



rwmwd.org

2665 NOEL DRIVE LITTLE CANADA, MN 55117