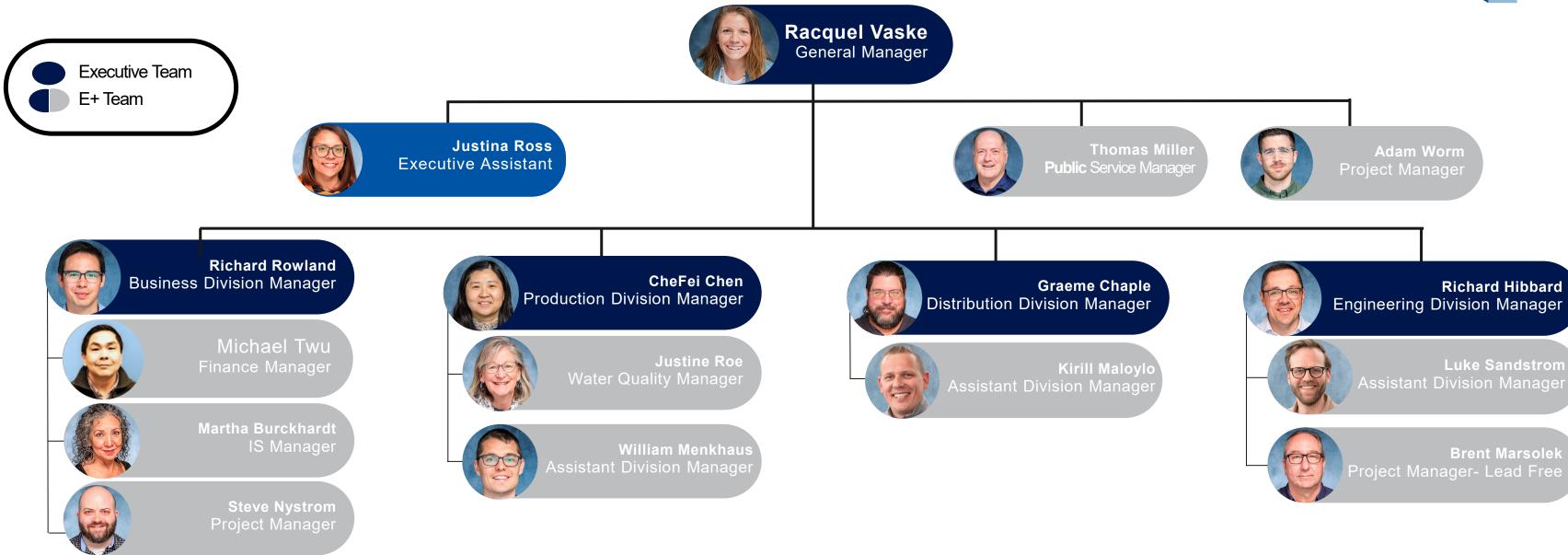
SAINT PAUL REGIONAL WATER SERVICES

Modernizing McCarrons Treatment Plant and Tour

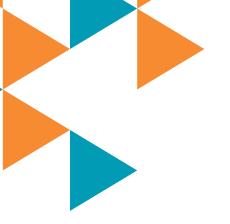


SAINT PAUL REGIONAL WATER SERVICES

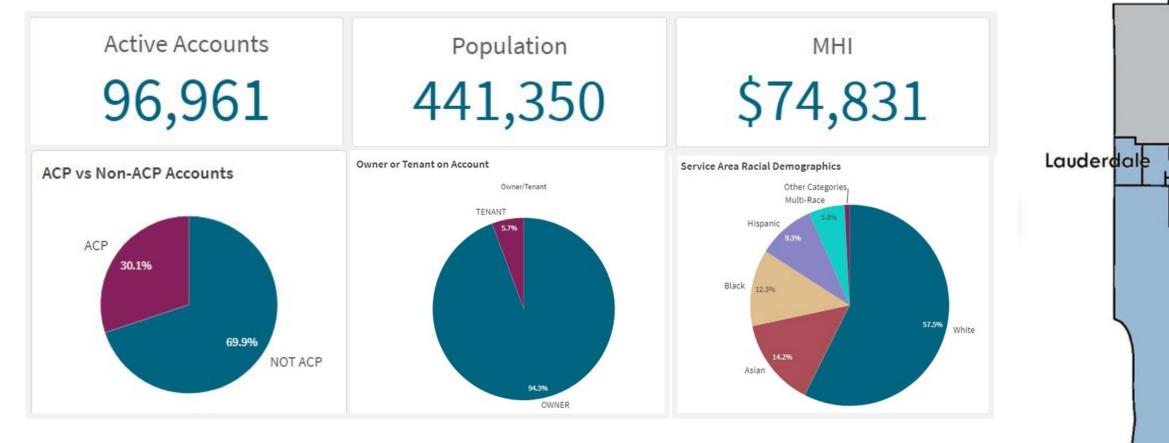
Administration Organizational Chart

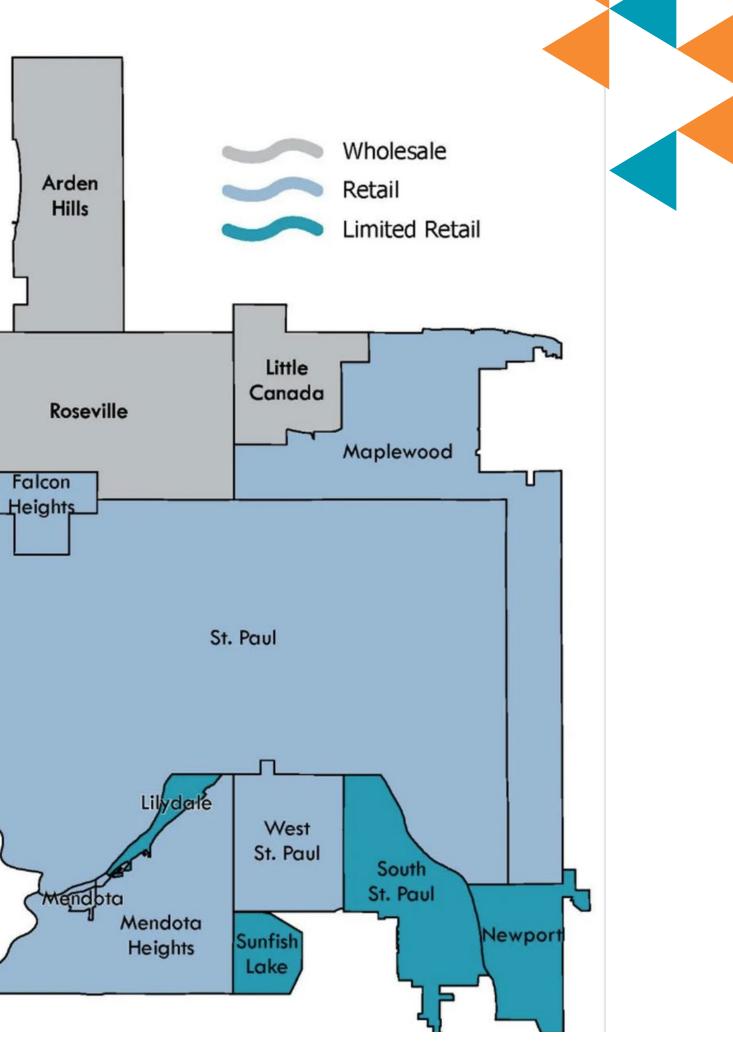






CUSTOMER OVERVIEW





Supply System

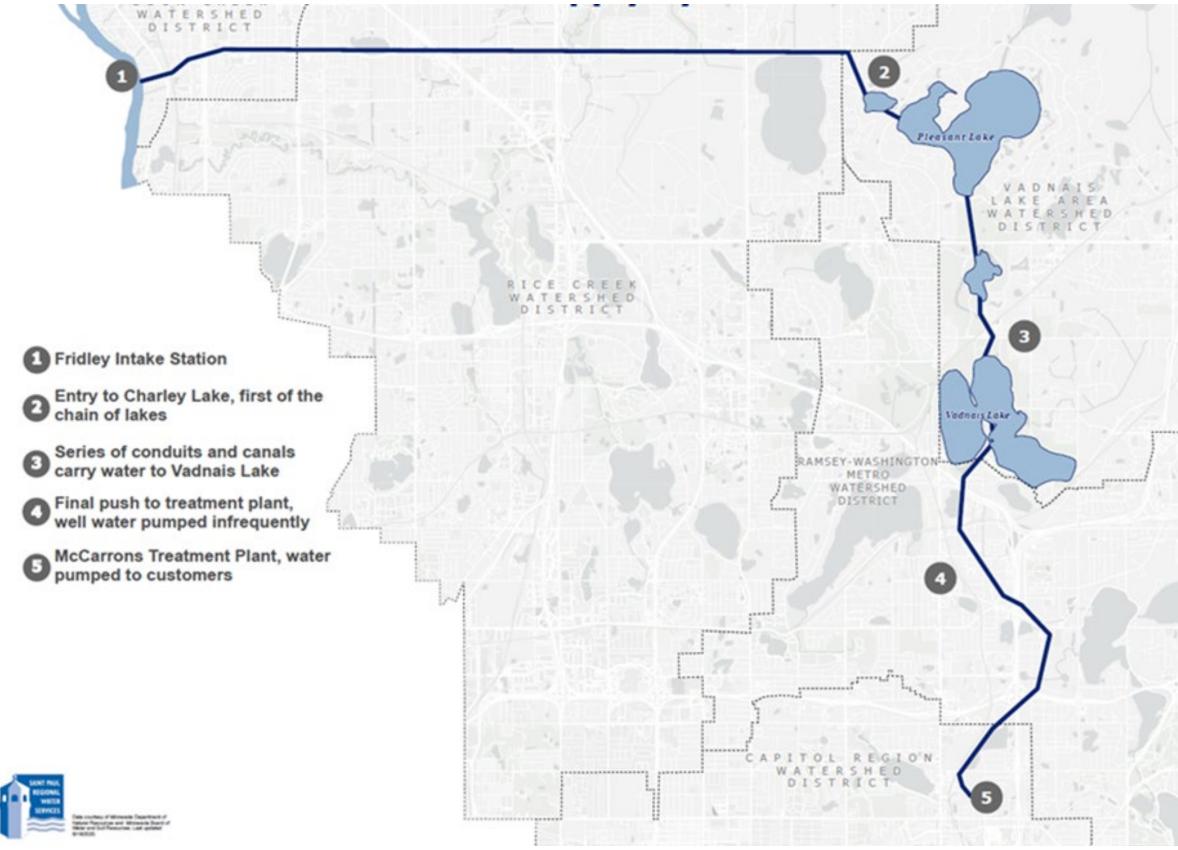
Mississippi River Appropriations Permit: Up to 109 MGD

SPRWS Current Demand

Winter: ~ 40 MGD Summer: Max ~ 70 MGD

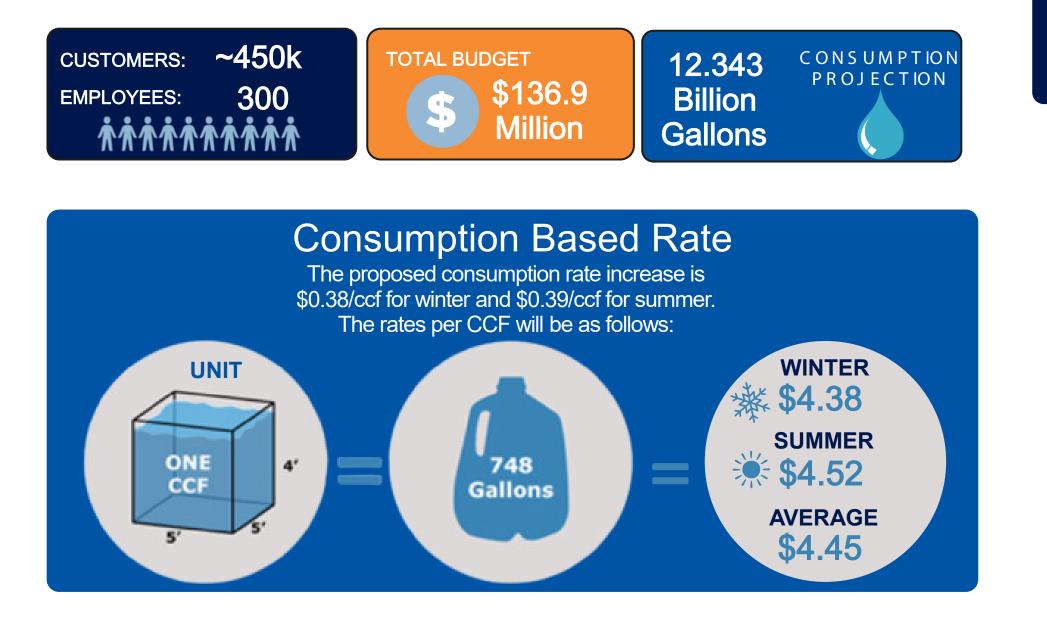
Treatment Capacity

New Treatment Plant: Max ~112 MGD Full Redundancy: ~ 84 MGD **Ability to build 5th clarifier for an additional 28 MGD**





2025 Budget Overview





DRINKING WATER BILL

The following details the SPRWS bill structure and rates utilizing these assumptions:

Single-family residential account Average residential consumption which is 6 units/month Averages winter + summer rates

	2025	
Consumption Charge	\$4.45 * 6 units = \$26.70	Average Bill 53777 PER MONTH for 4,488 gallons of drinking water Did You k 1 Gallon = \$
Water Service Base Fee	\$7.94	
Water Main Surcharge	\$0.26 * 6 units = \$1.56	
Right-of-Way Recovery Fee	\$1.50	
MONTHLY TOTAL	\$37.70 per month	
ANNUAL TOTAL	\$452.40 per year	



ESTIMATED PROJECT COST MILLION



Background & Vision

Originally built in 1920, the McCarrons plant has served the region well for over a century. However, its aging infrastructure, while functional, poses increasing risks to reliability. Recognizing this, SPRWS began a multi-phase modernization effort in 2018. The project includes complete replacement of key treatment components, integration of ozonation, and demolition of obsolete systems, all with a focus on long-term public health, costefficiency, and sustainability.

Key Project Features

Ozonation integration to improve taste, odor control, and removal of emerging contaminants

Advanced treatment technology to improve efficiency and allow flexible future upgrades

Infrastructure consolidation to reduce maintenance costs and prepare for future system needs

Historic preservation efforts to honor the facility's history

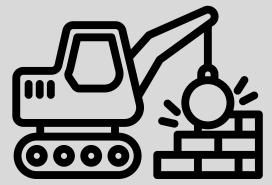




Construction (2022 - 2025)Construction of new treatment facility



Testing & Transition (Summer 2025) Commissioning and regulatory validation of all new systems



Upcoming Priorities

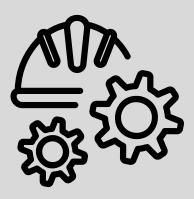
Bringing the new facility online mid-2025 following rigorous testing and validation

Training and certifying staff to operate new systems with advanced technologies and safety protocols

Maintaining or improving water quality standards, ensuring a seamless transition for customers

Monitoring emerging contaminants of concern, including PFAS, and planning for future plant updates if needed

Final Demolition (Sept 2025–June 2026) Removal of obsolete structures

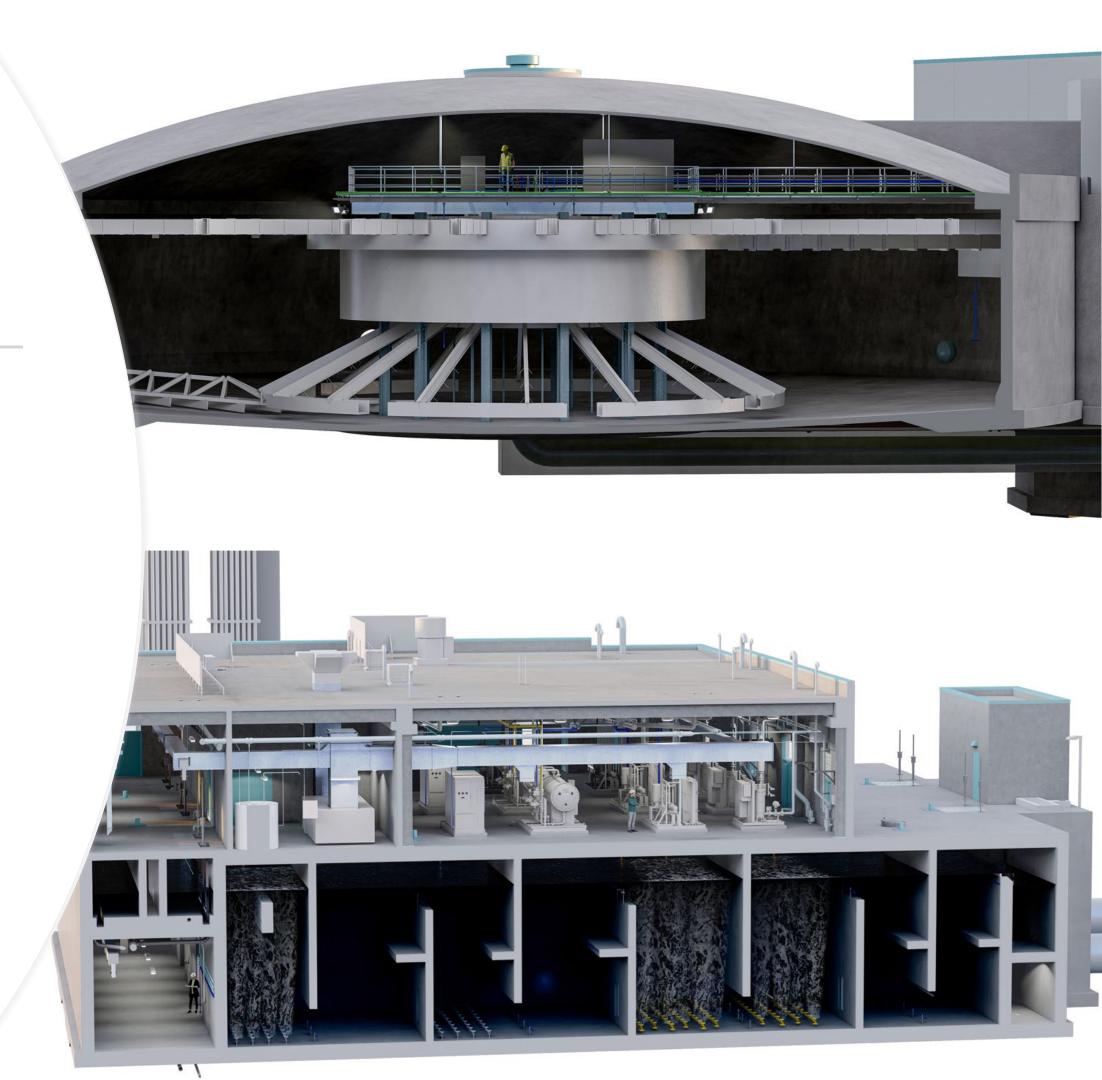


Final Construction (Nov 2025–July 2026)

New water quality lab, site restoration, and landscaping

Project Scope: Treatment Basins

- Softening Clarifiers (4)
 - Physically settle out suspended solids, dissolved calcium and magnesium, etc.
- Recarbonation and Ozonation Basins
 - Adjust pH of water to desired range
 - Remove compounds that can cause taste and odor problems
 - Remove/neutralize Contaminants of Emerging Concern





Project Scope: Chemical Feed Systems

- Lime Slurry removes dissolved calcium and magnesium
- Alum/Ferric Sulfate primary chemicals used to help suspended particles settle
- Ferric Chloride/Sodium Silicate secondary chemicals used to help suspended particles settle
- Carbon Dioxide reduces pH of water to target range
- Ozone removes taste and odor compounds; removes contaminants of emerging concern



Project Scope: Capacity and Redundancy

- Top-end capacity of new WTP 112 MGD
- Redundancy in all essential infrastructure
- 84 MGD production possible with any piece essential equipment out of service

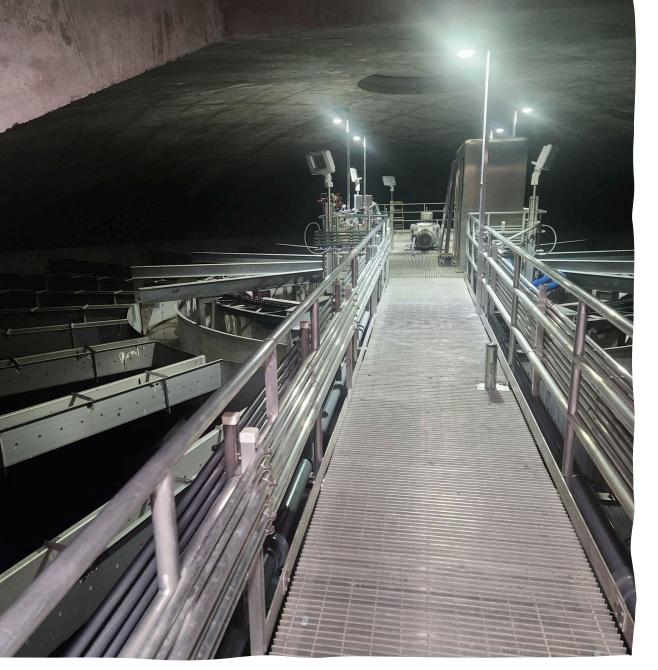


Unchanged: Filtration and Disinfection

- Last steps of treatment process
- Functioning well, no plans to modify in next 10 years
- Remove any particles too small to settle
- Eliminate viruses and bacteria

Gist: Treatment processes are tried and true but far more resilient and redundant.







Project Delivery – **Progressive Design-Build**

- Jacobs Engineering responsible for design <u>and</u> construction
- early and often
- Primary benefits

 - construction phases

Partnered with PCL and Magney – construction input

 Performance Guarantees as part of contract – reduce risk for SPRWS and customers Compressed schedule – overlap of design and



Project Timeline and Budget

- Design \$15.04M
 - Finished 5% under budget
- Construction Spent \$187.3M of \$236.7M to date
- Construction Began Feb. 2022
- Construction will continue till early 2027
- Treatment facilities are fully constructed and operational
- Remaining scope: demolition, grading, stormwater, new lab
- Financing from MN PFA (\$150M interest rates between 1% and 2.4%) and Revenue Bonds (\$103M interest rate 3.9%)

Water Is Flowing

- The new treatment processes began to produce water on July 8, 2025
- Extensive testing underway 24/7
- Small fraction of water from new plant presently
- As testing progresses well, more water will come from the new plant
- SPRWS will not "own" the new plant until Acceptance Testing is passed



How Can You Help?

Continue to Build Social Media Following and Development of Engaging Content to Keep Variety of Stakeholders Informed

Renovate the McCarron's Room in the Treatment Plant to Serve as an Interactive Learning Space

Expand Educational Opportunities Including School Visits and a Variety of Tour Options

Partner with Local Agencies and Cities in the North East Metro to Evaluate Regional Water Needs and Potential for an Expanded SPRWS Service Area

Involvement in **Political Advocacy** to Ensure Utility Needs Are Clearly Understood By Decision Makers Help Encourage Participation in the Lead Free SPRWS and Register Replacement Projects

Support the **Customer Contact Campaign** to Improve the Availability and Accuracy of Customer Contact Information to Assist in Better Communication

Expand Awareness and Use of the New Customer Portal including Auto Pay & E-Billing Services

Continue to Advocate for and Fund Low-Income Assistance Program: Water Works

Increase Program Awareness, Usability, and Participation



