AGENDA SHAKOPEE PUBLIC UTILITIES COMMISSION REGULAR MEETING

August 5, 2024 at 5:00 PM

- Call to Order at 5:00pm in the SPU Service Center, 255 Sarazin Street
 Roll Call
- 2. Communications
 - 2a) Customer Communications ref Backflow Testing & Penalties (GD)
- 3. Consent Agenda
 - C=> 3a) Approval of July 1, 2024 Minutes (GD)
 - C=> 3b) Approval of August 5, 2024 Agenda (JK)
 - C=> 3c) August 5, 2024 Warrant List (KW)
 - C=> 3d) Monthly Water Dashboard for April 2024 (LS)
 - C=> 3e) 2024 Flushing Program Progress Map (LS)
 - C=> 3f) MMPA June 2024 Meeting Update (GD)
 - C=> 3g) MMPA July 2024 Meeting Update (GD)
 - C=> 3h) Guidance for Commissioners on Direct Communication with Employees (GD)
 - C=> 3i) June 2024 Financial Report (KW)
 - C=> 3j) Res #2024-25 Resolution Setting the Amount of the Trunk Water Charge Approving of Its Collection and Authorizing Water Service to Certain Property Described as: Highview Park 3rd Addition (JA)
 - C=> 3k) Res #2024-26 Resolution Approving All Matters Required for Completing Plat Filing and Development of Property (JA)
 - ** Motion to approve the Consent Agenda
- 4. **Public Comment Period.** Please step up to the table and state your name and address for the record.
- 5. Reports: Water Items
 - 5a) 2024 Comprehensive Water Plan Update by SEH, Inc. (JA)
 - ** Motion to accept the report and the recommendations contained within, request more information or direct revisions to the report.
 - 5b) Water System Operations Report Verbal (LS)
 - 5c) Combined Minnesota Department of Health/SPU PFAS Results (LS)
 - 5d) 11th Ave Watermain Improvement Bid Award (RH)
 - ** Motion to approve the Bid Award for the 11th Ave Watermain Improvements to Minger Construction Co Inc, in the amount of \$163,131.07, a 10% construction contingency budget and authorize reimbursement to the City of Shakopee in the Amount of \$68,010.01 for the 100-foot portion of the public water main constructed as part of the City park project
- 6. **Liaison Report** (JD)

7. Reports: Electric Items

- 7a) Electric System Operations Report Verbal (BC)
- 7b) Xcel Energy Notice of Blue Lake Substation Upgrade (JA)

8. **Reports: General**

- 8a) Marketing/Key Accounts Report Verbal (SW)
- 8b) General Manager Report Verbal (GD)
- 8c) NES WTP Site Search Update: Shakopee Gravel/Hawkins potential site plans (GD) ***
- *** A portion of this meeting may be closed under Minnesota Statutes, Section 13D.05, subdivision 3(c) to review confidential or protected nonpublic appraisal data and to develop or consider offers or counteroffers for the purchase of property at 1776 Mystic Lake Drive S

9. **Items for Future Agendas**

10. Tentative Dates for Upcoming Meetings

- September 9, 2024
- September 23, 2024 Workshop
- October 7, 2024

11. Adjournment

15th July 2024

Greg Drent

General Manager, Shakopee Public Utilities gdrent@shakopeeutilities.com

Dear Mr. Drent,

I am writing to you about the required backflow assembly testing. I had my backflow tested on July 9th to avoid the fine. I don't think that I should be required to have my backflow tested on an annual basis at \$100 or more for the following reasons.

- 1. I am compliant with the Minnesota plumbing code. My assembly was installed in 2002. The MN plumbing code requires assemblies installed after January 23, 2016.
- 2. I spoke with two different local sprinkler installers and service companies and they stated that it would be impossible for my system to back up into my house, much less the Shakopee water main.
- 3. You indicated to me over the telephone that the likelihood of my irrigation system having a problem and backing up to the Shakopee Main water line is highly unlikely.
- 4. Cities around Shakopee are either not requiring testing at all or are following the plumbing code of which I wouldn't need to test.

I understand that the SPU Committee wanted to be more conservative in testing to protect the water main. There are other options to consider.

- 1. Have the city require a permit to ensure people aren't hooking things up to their irrigation system that shouldn't be hooked up. Require those residents to test annually. The percentage would be small.
- 2. Only require testing every five years for commercial or ten years residential irrigation backflow systems.
- 3. If the concern is to have backflow hit the water main, put backflow protection on the main instead of relying on each household.

Please consider this letter an official appeal for annual backflow testing for my address.

Sincerely,



PO Box 470 - 255 Sarazin Street Shakopee, Minnesota 55379 Main 952.445-1988 - Fax 952.445-7767 www.shakopeeutilities.com

July 16, 2024

Thank you for contacting SPU with your letter of appeal regarding annual backflow prevention testing. In response to this appeal, I would like to address each of your concerns individually. Please see below.

- 1. I am compliant with the Minnesota plumbing code. My assembly was installed in 2002. The MN plumbing code requires assemblies installed after January 23, 2016.
 - a. The SPU Commission set policy to not only comply with the 2020 plumbing code but to 1) provide the greatest protection to the distributed water system, and 2) develop a consistent and efficient policy that can be administered across our entire customer base. That is why all backflow devices are included in our policy, regardless of installation date. Further, given there are internal seals and parts that may wear out, become damaged or clogged over time, we feel it prudent and logical to test older backflow assemblies as well as newer devices.
- 2. I spoke with two different local sprinkler installers and service companies and they stated that it would be impossible for my system to back up into my house, much less the Shakopee water main.
 - a. While the risk is not high, under the right circumstances, it is possible for water to back up into your home water supply or the water main. Unforeseen changes in pressure could trigger a backflow situation. As the water purveyor for Shakopee, SPU is responsible for safe drinking water and will do everything possible to continue to protect the water system from potential contamination.
- You indicated to me over the telephone that the likelihood of my irrigation system having a problem and backing up to the Shakopee Main water line is highly unlikely.
 - a. That is correct, the likelihood of an issue for an individual resident is low but there are over 6,000 backflow devices connected to the distributed water system, and it is the collective risk those systems represent that we are not willing to take. It would be irresponsible to put others in harm's way knowing the risk exists, adding risk using date-based exceptions or doing nothing to protect the overall water system.
- 4. Cities around Shakopee are either not requiring testing at all or are following the plumbing code of which I wouldn't need to test.
 - a. SPU sets policy independent of surrounding utilities. SPU's Backflow Prevention and Cross-Connection policy states that all backflow devices should be tested annually. This is consistent with manufacturer recommendations.



PO Box 470 * 255 Sarazin Street Shakopee, Minnesota 55379 Main 952.445-1988 Fax 952.445-7767 www.shakopeeutilities.com

I understand that the SPU Committee wanted to be more conservative in testing to protect the water main. There are other options to consider.

- 1. Have the city require a permit to ensure people aren't hooking things up to their irrigation system that shouldn't be hooked up. Require those residents to test annually. The percentage would be small.
 - a. Additional "hook ups" are not the only possible way to contaminate the water supply. SPU believes the most effective and practical way to protect the system is to have backflow protection on irrigation systems that are regularly tested.
- 2. Only require testing every five years for commercial or ten years residential irrigation backflow systems.
 - This would go against manufacturer recommendations, the plumbing code and SPU policy.
- 3. If the concern is to have backflow hit the water main, put backflow protection on the main instead of relying on each household. Backflow is only required on irrigation systems.
 - a. As with any policy, the feasibility of implementing and enforcing said policy must be considered. If the backflow prevention assemblies were to be made at the point of connection to the water main from every service line, they would still need to be maintained and tested. That would be thousands of tests all underground. If the device needed to be repaired or replaced It would be further cost prohibitive to do so (i.e., tear up a street). The cost for such a practice would ride on the shoulders of the ratepayers.

We understand this is a new policy and a change in practice, but we assure you SPU is not the first utility to enact such a policy, nor is Minnesota the first state to set such code. We are doing everything within our power to provide the safest drinking water we can to our customers and believe that is the most important focus we should have as the water purveyor. Thank you for having your system tested this year. We appreciate your compliance and contribution to keeping Shakopee's water safe.

If you accept this response to your appeal, please acknowledge this by responding to us in writing (email is acceptable). If you are not in agreement, you have the right to request an audience with our commission. To do this you will need to contact me (General Manager) and request to be added to an upcoming agenda for public discussion.

Sincerely,

Mr. Greg Drent SPU General Manager

Appeal of backflow testing penalty

From:		
To:		
General Manager of SPU		

Hello,

Recently I got a \$150 penalty for not testing my garden sprinkler's backflow and I want you to inform you that it is not legal charge and I ask you to remove this charge from my account because:

- 1. First of all Minnesota law 603.5. that was passed in 2015 was designated and refer to **Fire sprinklers systems but not to garden sprinklers systems.** (See attached document)
- That law requires to test backflow assemblies that were installed in 2016 or later but not those that were installed before 2016 year. Even your own paper says that. (See attached documents)

So, I consider this penalty charge baseless and unlawful since there is no law in Minnesota that requires testing garden backflow devices installed before 2016. Also, there is no way for water to come to the city water through pipes from garden sprinklers since there is no back pressure in the sprinklers system after sprinklers is turned off. That's why I ask you to remove this penalty from my account.

(651) 284-5067 www.dli.mn.gov/Plumbing.asp

What you need to know about backflow protection and fire sprinkler systems in the new 2015 Minnesota Plumbing Code

This information sheet provides some highlights relating to building water supply backflow requirements and transitional guidance relating to the installation of fire protection systems. This is not intended to be a comprehensive list of the Code. To access the plumbing code, please visit http://www.dli.mn.gov/CCLD/codes15.asp

Backflow Protection (Chapter 4714, section 603.5.15)

- 1. Low hazard fire sprinkler system application (wetted system without introduction of any chemicals) connected to the building water supply system must be provided with a double check valve assembly (DC). A single detector check valve is no longer acceptable under this code.
- 2. High hazard fire sprinkler system application (with introduction of inhibitors, chemicals, etc) connected to the building water supply must be provided with a reduced pressure zone backflow assembly (RP).
- 3. Fire department connections (FDC) with secondary nonpotable water sources taken from river, lakes, or fire trucks carrying unsafe or treated water must be provided with an RP backflow device. The local fire department should also be consulted for determination of proper backflow protection.
- 4. Exception: One-or two- family dwellings or townhouse buildings with stand-alone residential fire sprinkler systems (separated from the domestic water supply system via a "tee" connection) may continue to have a single check valve if the fire protection system is piped with materials approved in the new plumbing code for potable water piping.

Types of Backflow Devices (Chapter 4714, Table 603.2)

- 1. Acceptable double check assembly (DC).
 - a. Double check detector fire protection backflow prevention assembly must be listed to ASSE 1048; or
 - Double check valve backflow prevention assembly must be listed to ASSE 1015, AWWA C510, or CSA B64.5.1)
- 2. Acceptable reduced pressure zone (RP)
 - a. Reduced pressure reduced pressure detector fire protection backflow prevention assembly zone must be listed to ASSE 1047; or
 - Reduced pressure principle backflow prevention assembly must be listed to ASSE 1013, AWWA C511, CSA B64.4 or CSA B64.4.1
- 3. Installation of DC and RP devices must be in accordance with the manufacturer's installation instructions and provided with minimum of 12 inches above finished floor for maintenance.

Testing of Backflow Devices (Chapter 4714, section 603.5.23)

- 1. DC and RP devices must be tested and inspected annually, and notifications of installation are required.
- 2. DC and RP devices must be tested by a DLI certified backflow prevention tester. For more information about this, see http://www.dli.mn.gov/CCLD/PlumbingBackflow.asp

DLI Code Transition Guidance

- 1. Fire sprinkler systems reviewed and approved under the existing 2012 plumbing code, Chapter 4715, prior to January 23, 2016, can proceed with construction in accordance with the approved plans and permit application.
- 2. Fire sprinkler systems designed and date stamped by the designer prior to January 23, 2016, can be submitted for review and approval for permit application under the existing 2012 plumbing code, Chapter 4715.
- 3. Large projects currently under design to the existing plumbing code, Chapter 4715, and will be signed by the designer after the effective date of Jan. 23, 2016, a reasonable extension may be requested through the Authority Having Jurisdiction.
- 4. Fire sprinkler systems designed after January 23, 2016, backflow protection must be designed to meet the new plumbing code, Chapter 4714.

FACT SHEET: BACKFLOW DEVICES

2020 MINNESOTA PLUMBING CODE

Minnesota Department of Labor and Industry

REQUIREMENTS

Refer to the 2020 Minnesota Plumbing Code Parts 603.5.23 through 603.5.23.4 for details about the backflow prevention requirements discussed in this fact sheet.

Devices that need to be tested

The 2020 Minnesota Plumbing Code requires that all **testable** backflow devices be tested upon installation and at least annually thereafter by a certified backflow assembly tester. Testable devices include:

- Reduced pressure principal backflow prevention assemblies,
- Reduced pressure detector fire protection backflow prevention assemblies,
- Double check backflow prevention assemblies,
- Pressure vacuum breaker backflow prevention assemblies,
- Double check detector fire protection backflow prevention assemblies, and
- Spill resistant pressure vacuum breakers.

Installing the device

- A licensed plumber must perform the installation of a backflow prevention device.
- The public water supplier must be notified within 30 days following installation of the device on a community public water system.

 A plumbing permit must be obtained from the administrative authority prior to installation.

Testing and maintenance

- The backflow device must be tested upon initial installation and at least annually thereafter.
- Test results must be submitted to the administrative authority and to the community public water supplier within 30 days of testing.

Applicability

- Reduced pressure (RPZ) devices have had testing requirements for many years. New and existing RPZ installations must be tested annually.
- The testing requirements for testable non-RPZ devices became effective for installations made on or after Jan. 23, 2016.

Tester qualifications

Testing of backflow prevention devices requires certification to ASSE Standard 5110. Testing of reduced pressure principal devices (RPZs) requires an additional certification by the Minnesota Department of Labor and Industry.

RESPONSIBILITIES

Responsibility of the municipality

The municipality is responsible for notifying owners of backflow devices of the need for initial and annual testing of backflow devices. This can be done through the plumber when the plumbing permit is issued. It may be helpful for the municipality to prepare an information sheet to provide to the plumber at time of the plumbing permit application. As a condition of the permit, the plumber informs the device owner of the requirements.

Responsibility of the owner

The owner of the backflow prevention device is responsible for making sure the backflow device is tested upon installation and at least annually thereafter. The owner is responsible for arranging for a backflow device tester to test devices at least annually.

Responsibility of the backflow tester

- The backflow device tester is responsible for testing the backflow device and tagging it with the testing date, tester signature and backflow certification number.
- Written records of testing and maintenance must be maintained and submitted to the administrative authority and the community public water supplier within 30 days following the test.

Responsibility of water purveyor

- The Safe Drinking Water Act holds the water purveyor responsible for ensuring the quality of the water all the way to the free-flowing outlet of the consumer.
- The water purveyor must maintain records of the backflow prevention devices and ensure the device testing is recorded on a yearly basis.

Responsibility of the plumbing contractor

The plumbing contractor is responsible for informing the building owner of the need to have their backflow devices tested upon installation and at least annually thereafter.

Construction Codes and Licensing Division • www.dli.mn.gov • 651-284-5067



PO Box 470 255 Sarazin Street Shakopee, Minnesota 55379 Main 952.445-1988 Fax 952.445-7767 www.shakopeeutilities.com

March 29, 2023

IMPORTANT INFORMATION REGARDING BACKFLOW PREVENTION AND IRRIGATION SYSTEMS

Dear Resident:

SPU has recently introduced a **Backflow Prevention** and **Cross Contamination Policy**, in accordance with the MN State Plumbing code. This policy was adopted by the SPU Commission in March 2022 as part of a three-year plan to help safeguard our drinking water from contaminants that may enter the drinking water system from irrigation systems. As the water purveyor for Shakopee, it is our responsibility to keep potable (drinking) water safe for all users and preventing backflow is just one measure in this process.

- 2022 Announce policy and provide information on backflow prevention to customers.
- **2023** Continue to educate customers on the dangers of cross contamination and communicate the inspection requirements for an irrigation system, per SPU policy and state code.
- 2024 Reiterate required backflow prevention actions with seasonal reminders from The Compliance Engine and enforce annual testing of irrigation systems. (The Compliance Engine is a third party, web-based service SPU utilizes for inspection reporting and tracking compliance for backflow assemblies on irrigation systems.)

This letter is intended to provide more information regarding SPU's new policy and to prompt property owners with an irrigation system to complete the required testing of the backflow assembly on their irrigation system. Per MN State Plumbing code, backflow assembly testing is required upon installation and then annually thereafter. This code was enacted for systems installed in 2016 and forward; however, to treat all SPU customers consistently and further protect the drinking water, SPU policy includes all irrigation systems regardless of installation date.

Property owners are responsible for all testing and maintenance of the backflow assembly, and any associated costs, on active systems. If you are no longer using your irrigation system it can be locked out and no further testing is required until system is returned to service. You can request this lockout through SPU's Water Department. Information regarding testing requirements, as well as a list of certified testers, is available on our website – ShakopeeUtilities.com. Additional information can also be found on the MN Dept of Health website. We highly recommend visiting our site to learn more about code, backflow prevention and cross contamination. Many questions can be answered on this page. Our Water Department staff is also available to address your questions. They can be reached at 952-233-1503, Monday-Friday, 7:00 a.m. – 3:30 p.m.

This brings me to Renewal/Anniversary dates for annual testing and compliance. The desired action is for annual testing to be done upon system startup as this provides the best line of defense throughout the irrigating season. A date of April 1, 2023 was previously communicated to many customers; however, we are extending this date to July 15, 2023 for all customers due to the late spring this year. Note: If you had your system tested later than July 15 in 2022 (i.e., at the end of the season), you do not need to have it tested again for twelve months from that date <u>unless</u> you want to transition to the 'season startup' schedule. Going forward all individual Anniversary/Renewal dates will be 12 months from the last system test date entered in The Compliance Engine by your tester.

Thank you for working together to keep Shakopee's drinking water safe.

Greg Drent, General Manager

MINUTES OF THE SHAKOPEE PUBLIC UTILITIES COMMISSION July 1, 2024 Regular Meeting

- 1. <u>Call to Order.</u> President Krieg called the July 1, 2024 meeting of the Shakopee Public Utilities Commission to order at 5:00 P.M. President Krieg, Vice President Letourneau, Commissioner DuLaney, Commissioner Fox, and Commissioner Mocol were present.
- 2. <u>Consent Agenda.</u> Items 3e and 3i were pulled for further discussion. Commissioner Mocol moved approval of the remaining consent agenda items:
 - (a) Approval of June 3, 2024 minutes;
 - (b) Approval of June 18, 2024 Joint Meeting Minutes;
 - (c) July 1, 2024 Agenda
 - (d) July 1, 2024 Warrant List;
 - (f) Monthly Water Dashboard for April 2024;
 - (g) 2024 Flushing Program Progress Map;
 - (h) Nitrate Results;
 - (j) Primary Drinking Water Regulations/Underground Contaminant Monitoring Rules;
 - (k) Water Tower Space Lease Agreement for Emergency Radio Response System; and
 - (l) Res #2024-24 Resolution Setting the Amount of the Trunk Water Charge, Approving of Its Collection, and Authorizing Water Service to Certain Property Described as: Maras Street 1st Addition.

Commissioner Fox seconded the motion. Ayes: Krieg, Letourneau, DuLaney, Fox, and Mocol. Nays: None.

As to item (3e), PFAS Class Action Settlement Update, President Krieg asked about the fees outlined in the class action counsel agreement. Commissioner Fox moved approval of filing claims for SPU as to the PFAS class action settlements and the counsel Retainer Agreement if needed to submit these claims. Commissioner Mocol seconded the motion. Ayes: Krieg, Letourneau, DuLaney, Fox, and Mocol. Nays: None.

As to item (3i), 2023 Consumer Confidence Report, President Krieg requested that SPU provide additional explanatory information to customers regarding this report due to its technical content. Commissioner Mocol moved approval of the 2023 Consumer Confidence Report and directed staff to summarize the report and include on SPU's website. Vice President Letourneau seconded the motion. Ayes: Krieg, Letourneau, DuLaney, Fox, and Mocol. Nays: None.

- 3. <u>Public Comment Period.</u> No public comments were offered.
- 4. <u>Liaison Report</u>. Commissioner DuLaney thanked staff for the Year End Review that was presented at joint Commission/City Council meeting. He noted that Representative Tabke received a customer question about SPU's backflow prevention policy, and Commissioner DuLaney explained the state requirements.

- 5. <u>Water Report.</u> Dave Hagen, Water Distribution Supervisor, reported that the hydrant flushing was put on hold due to flooding. He noted that hydrant paining will start this month, with plans to paint 200 hydrants. Mr. Hagen noted that Well #16 was pulled and videoed, with very little settlement, and that it is expected be back in service by August. Mr. Hagen gave an update on Pumphouse #23, backflow prevention testing, water service lines, Tower #9, and key projects. He referenced the Primary Drinking Water Regulations/Underground Contaminant Monitoring in the packet and noted that SPU is currently testing for approximately 200 contaminants.
- 6. <u>Riverview Generator Bids Award Recommendation</u>. Mr. Hagen reported that on June 20, Barr Engineering opened bids for this generator re-bid. He noted that the apparent responsible low bidder was Medina Electric at \$259,464 an amount below the approved CIP budget. The Commissioners noted the significantly lower bid responses as compared to the first set of bids. Vice President Letourneau moved to award the Riverview Generator contract to Medina Electric in the amount of \$259,464. Commissioner DuLaney seconded the motion. Ayes: Krieg, Letourneau, DuLaney, Fox, and Mocol. Nays: None.
- 7. <u>Electric Report.</u> Brad Carlson, Electric Superintendent, reported five outages since the last Commission meeting, mostly caused by uprooted trees due to excess water, and one animal related. Mr. Carlson also provided an update on projects, including energizing Highview Park; Co Rd 78 and Brickyard Road; and 101 relocation of overhead. He also noted that SPU has received another 300 replacement streetlights and that SPU averted flooding at the Shakopee Substation. Mr. Carlson reported that the Bonnevista Terrace manufactured home park has applied for a grant to redo electric infrastructure and streetlighting; if approved, the facilities will be moved underground.
- 8. Revisions to easement regarding 9427 Boiling Springs Lane. Joseph Adams, Planning and Engineering Director, described the background regarding the proposed easement encroachment agreement, in which CenterPoint Energy would be permitted to use a portion of SPU's recorded easement for CenterPoint's underground gas line providing service to a neighboring property. He explained that the document has not yet been provided to CenterPoint Energy, and that staff will bring back the final document for approval. Commissioner Mocol moved to approve the Easement Encroachment Agreement as presented; Commissioner Fox seconded the motion. Ayes: Krieg, Letourneau, DuLaney, Fox, and Mocol. Nays: None.
- 9. <u>Marketing/Key Accounts Report</u>. Sharon Walsh, Director of Key Accounts/Marketing/Special Projects, reported that SPU has installed approximately 4,300 automated meter infrastructure (AMI) electric meters and 2,000 AMI water meters. Ms. Walsh also noted that SPU is sponsoring the Rhythm on the Rails event on July 31, and shared the customer information to be provided.

- 10. <u>Smart Hub Paperless & Electronic Payment Incentives</u>. Kelley Willemssen, Administration and Finance Director, presented information as to potential incentives to customers with going paperless and ACH payments, and staff recommendations. After discussion, Commissioner Mocol moved to direct staff to consider budget impacts of potential incentives for 2025 as part of the rate study process. Vice President Letourneau seconded the motion. Ayes: Krieg, Letourneau, DuLaney, Fox, and Mocol. Nays: None.
- 11. <u>May 31, 2024 Financial Report</u>. Ms. Willemssen presented the financial reports as of May 31, 2024. Vice President Letourneau moved to accept the financial report ending May 31, 2024. Commissioner Fox seconded the motion. Ayes: Krieg, Letourneau, DuLaney, Fox, and Mocol. Nays: None.
- 12. <u>Guidance for Commissioners on Direct Communication with Employees</u>. Greg Drent, General Manager, presented the proposed guidance on Commissioner communication with employees, which Debra Englund, HRExpertiseBP, helped prepare. The Commission requested additional information to consider.
- 13. General Manager Report. Mr. Drent provided an update of recent projects, including the Commission's Joint Meeting with the City, Xcel's upgrades at the Blue Lake Substation and the potential impact on the East Shakopee Substation, an upcoming inspection of well casing near the gravel pit development, and the transmission and renewable energy queue at MISO. He reported that at the APPA National Conference that he attended, a key topic was the significant electric usage for AI projects. Mr. Drent asked for up to two Commissioners to volunteer to assist with an informal working group to consider staffing issues resulting from a meter reader retirement and the AMI project; Commissioner Mocol and President Krieg volunteered. Mr. Drent also noted that Shakopee is being considered as a finalist as a location for a potential large use customer.
- 14. <u>Future Agenda Items</u>. Commission Fox requested further information on microplastics in the water.
- 15. <u>Adjourn.</u> Motion by Vice President Letourneau, seconded by Commissioner DuLaney, to adjourn. Ayes: Krieg, Letourneau, DuLaney, Fox, and Mocol. Nays: None.

Greg Drent, Commission Se	ecretary

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SHAKOPEE PUBLIC UTILITIES COMMISSION

WARRANT LISTING

August 5, 2024

By direction of the Shakopee Public Utilities Commission, the Secretary does hereby authorize the following warrants drawn upon the Treasury of Shakopee Public Utilities Commission:

WEEK	OF	06/28/20	3.4

AMARIL UNIFORM COMPANY

ARROW ACE HARDWARE

BELL LUMBER & POLE COMPANY

BORDER STATES ELECTRIC SUPPLY

MARIA DOLORES BORJA

BRO-TEX INC

CDW GOVERNMENT LLC

JASON CHARTER

CHOICE ELECTRIC INC

CUSTOMER CONTACT SERVICES

DGR ENGINEERING

DOMINIC DRENT

ECM PUBLISHERS, INC

FERGUSON US HOLDINGS, INC.

GRAINGER INC

GREYSTONE CONSTRUCTION CO

HARRIS ST PAUL, INC

CAROLYN HEIDAL

HERMAN'S LANDSCAPE SUPPLIES INC.

HIGH POINT NETWORKS, LLC

INNOVATIVE OFFICE SOLUTIONS

INTEGRATED PROCESS SOLUTIONS, INC

IRBY - STUART C IRBY CO

J. BECHER & ASSOCIATES, INC.

JOHNSON CONTROLS FIRE PROTECTION LP

JT SERVICES

LINK LUMBER

JOE MACK

MIDWEST MAINTENANCE & MECHANICAL

MILWAUKEE ELECTRIC TOOL CORP.

MINN VALLEY TESTING LABS INC

MINNESOTA SECURITY CONSORTIUM

MINNESOTA SODDING CO

GERRY NEVILLE

THOMAS NGUYEN

CINDY NICKOLAY

NORTHERN BALANCE & SCALE INC.

OFFICE OF MNIT SERVICES

JON OLSON

RESCO

SHORT ELLIOTT HENDRICKSON INC

GREG TRIPLETT

HUY VU

WESCO RECEIVABLES CORP.

FURTHER - ACH

PAYROLL DIRECT DEPOSIT 06.28.24 BENEFITS & TAXES FOR 06.28.24

Total Week of 06/28/2024

\$289.08 SPU CLOTHING ORDER FOR M.GLYNN(W)

\$193.95 NOZZLE/HOSE(E)

\$23,246,00 WOOD POLES

\$136,010.68 BOX PAD(E)

\$105,00 BACKFLOW TESTING REFUND

\$283.41 PK SOYL STARTER PK(E)

\$1,242.58 ARUBA 3YR EXCH SVC

\$225.00 ENERGY STAR DISHWASHER REBATE

\$140.00 TROUBLESHOOT PUMP ON BOILER#2

\$517,77 ANSWERING SVC 6/25-7/22 2024

\$10,209.00 WO#2817 WARNET OVERHEAD TIE

\$115.96 REIMBURSE SAFETY BOOT

\$121,12 APPRENTICE LINE WORKER SHAKOPEE AD

\$106,06 MARK WAND(W)

\$89.09 WHITE FLAGGING TAPE

\$500,00 REFUND HYDRNT MTR NOT TAKEN OUT

\$735.00 REPAIR BOILER

\$150,00 ENERGY STAR DISHWASHER REBATE

\$398.50 WASHED SAND WO#2874

\$3,139.63 JUNE BACKUP/DISASTER RECOVERY SERVICE

\$647.21 OFFICE SUPPLIES

\$1,043.00 PUMPHOUSE#6 SERVICE CALLWO2849 SCADA

\$4.513.04 INSULATED PARKING BUSHING

\$2,819.00 INTERIOR LIGHTING REBATE

\$2,237.05 SPRINKLER HEADS PULLED FOR TESTING

\$406.41 TAG KIT(E)

\$18.12 MISC SCREWS, ANCHORS, BOLTS

\$500.00 ENERGY STAR COOLING/HEATING REBATE

\$16,911,00 WO#2805 ENTERPRISE NEW SVC/UG/OH REFUND

\$211.86 SWITCH ASSY/BLADE

\$377.00 WATER TESTING NITRATES

 $33,000.00\ v\text{CISO}$ SVCs FOR Q2 (APR, MAY,JUN) 20

\$1,374.40 HYDRNT METER REFUND

\$64,99 REIMBURSE 97 MILES

\$105,00 REIMBURSEMENT FOR PVB TESTING

\$56.28 REIMBURSE 84 MILES

\$285,00 1 POINT CALIBRATION

\$1,468.02 NOVEMBER WAN CHARGES

\$150,00 ENERGY STAR DISHWASHER REBATE

\$82,785.83 1 75KVA 3PH TRANSFORMER

\$21,275.71 WO#2868 11TH AVE W WM IMPROVEMENTS

\$77.72 REIMBURSE 116 MILES

\$175.00 ENERGY STAR CLOTHES WASHER REBATE

\$21,739.67 CONTAX INHIBITOR

\$192.31 DAYCARE CLAIM FLEX REIMB.

\$136,538,27 \$131,418.60

\$608,208.32

WEEK OF 07/02/2024

AAR BUILDING SERVICE CO.

ALTEC INDUSTRIES INC

ARAMARK REFRESHMENT SERVICES INC

BARR ENGINEERING CO.

RON BARTUSEK

BORDER STATES ELECTRIC SUPPLY

CAMFIL USA INC

CORE & MAIN LP

DAKOTA SUPPLY GROUP

DSI/LSI

BRITTANY DUNBAR

ELIZABETH DUNCAN

FERGUSON US HOLDINGS, INC.

DELORES GARDNER

RYAN HALVERSON

HAWKINS INC

HENNEN'S AUTO SERVICE INC.

HIGH POINT NETWORKS, LLC

SEAN HORGAN

HREXPERTISEBP LLC

INT'L UNION OF OPER ENGINEERS LOCAL 49

JT SERVICES

KENNEDY & GRAVEN, CHARTERED

KYLE KUEPKER

SHAWN LARSON

LLOYD'S CONSTRUCTION SERVICES

LOCATORS & SUPPLIES INC

MASTER ELECTRIC

MINN VALLEY TESTING LABS INC

MN DEPT OF HEALTH

NCPERS GROUP LIFE INS.

GERRY NEVILLE

THU VAN NGUYEN

WILLIAM NICHOLS

CINDY NICKOLAY

NORTH AMERICAN SAFETY, INC.

PDQ.COM CORPORATION

PLUNKETT'S PEST CONT, INC.

POWER TESTING AND ENERGIZATION INC.

SARAH STEFFEN

BRIAN STRAND

TEST GAUGE & BACKFLOW SUPPLY INC

GREG TRIPLETT

UNITED SYSTEMS & SOFTWARE INC

USABLUEBOOK

VERIZON WIRELESS

VESSCO, INC

VIVID IMAGE, INC.

WESCO RECEIVABLES CORP.

CENTERPOINT ENERGY - ACH

FURTHER - ACH

PRINCIPAL LIFE INS, COMPANY

MINNESOTA LIFE

HEALTHPARTNERS

DELTA DENTAL PLAN OF MN

\$4,298,63 JULY CLEANING SVC SPU BLDG

\$1,182,82 REPAIR WINCH (E)

\$117,09 COFFEE

\$17,330,73 WO#2683 TANK 9 APR-MAY ENG SVCS

\$213,77 REIMBURSE FOR SAFETY GLASSES

\$466,743,75 AMI FORM 2S, CL200, 240VW/ REMOTE

\$654,49 116300005 24 APIII 24X24X2 \$14,670,00 OMNI WATER METERS

\$476.76 VALVE BOX/WRENCH(W)

\$445_11 JULY 2024 GARBAGE SERVICE

\$175.00 ENERGY STAR CLOTHES WASHER REBATE

\$255,00 ENERGY STAR DISHWASHER REBATE

\$554.37 5 LB HYD GRSE(W)

\$105.00 ENERGY STAR REFRIGERATOR REBATE

\$1,857,24 PER DIEM/REIMB MILEAGE/CAR RENTAL ACE(W)

\$350,00 CHLORINE CYLINDERS

\$28.82 TIRE REPAIR MUSTANG

\$300,00 IAAS IMPLENTATION

\$75.00 ENERGY STAR REFRIGERATOR REBATE

\$1,531.25 MAY- JUNE 2024 HR CONSULTING

\$645.00 HOURS WORKED 5/27-6/7/2024

\$156,06 YELLOW&BLACK NUMBER LABELS

\$144_00 WO#2634 WATER TRTMNT SITE ACQUISITION

\$500.00 ENERGY STAR COOLING/HEATING REBATE

\$206.54 WO#2878 POOL HOUSE SVC FINAL CLOSED PROJ

\$465,00 20 YD DEMO&CONSTR 6/3/24-6/17/24

\$104.50 INSECT REPELLENT \$10,238.43 REPLACE VARIOUS WELL FILTERS

\$420.00 WATER TESTING COLIFORM

\$30,223.45 2ND QTR 2024 COMM WATER SUPPLY SVC CONN

\$192.00 JUNE LIFE INS.

\$101.17 REIMBURSE 151 MILES

\$179.10 IRRIGATION CONTROLLERS REBATE

\$175,00 ENERGY STAR CLOTHESWASHER REBATE

\$37.52 REIMBURSE 56 MILES

\$145.95 RAIN JACKETS

\$18,00 REMAINING TIME DUE PDQ CONNECT

\$153,97 GENERAL PEST CONTROL 857 VALLEY PARK DR

\$66,929.00 SOUTH SUBSTATION T1 LTC SVC WO2850 \$105,00 ENERGY STAR REFRIGERATOR REBATE

\$143.28 IRRIGATION CONTROLLERS REBATE

\$620,63 REPAIR KIT/COPPER TEE/ADAPTER(W)

\$96.48 REIMBURSE 144 MILES

\$7,294,66 ITRON MOUNTING KIT/5' CABLE(W)

\$505.31 HACH DPD (W)

\$4,015.20 5/24-6/23 2024 BILLING PERIOD

\$257.80 EVOQUA TAILWAY/NOZZLES

\$550.00 RETAINER ESSENTIAL+PLAN 7/1/24-7/31/24

\$980.25 CONTAX INHIBITOR

\$667.20 GAS USAGE 10TH AVE WEST 5/7-6/7 2024

\$558.57 JUNE HSA ADM. FEES

\$4,695.52 JUNE LTD AND STD. BENEFITS

\$1,130.94 JUNE LIFE INS. PREMIUMS

\$69,297,41 JULY INVOICE, JUNE CHARGE MONTH \$5,713,88 JUNE DENTAL INVOICE

Total Week of 07/02/2024

\$719,031.65

WEEK OF 07/12/2024

CREDIT REFUNDS

ABDO LLP

KATIE J ADAMS

ALTEC INDUSTRIES INC

AMARIL UNIFORM COMPANY

BARNUM COMPANIES INC

BORDER STATES ELECTRIC SUPPLY

CALIAN CORP.

CDW GOVERNMENT LLC

CHOICE ELECTRIC INC

CITY OF PRIOR LAKE

CITY OF SHAKOPEE

CITY OF SHAKOPEE

CITY OF SHAKOPEE

CITY OF SHAKOPEE

CONCRETE CUTTING & CORING INC

CORE & MAIN LP

TIM DAGGY

DITCHWITCH OF MINNESOTA

DIVERSIFIED ADJUSTMENT SERVICES INC

FERGUSON US HOLDINGS, INC.

FLYTE HCM LLC

FRONTIER ENERGY, INC.

MICHAEL GEHLSEN

GOPHER STATE ONE-CALL

GRAINGER INC

HAWKINS INC

HENNEN'S AUTO SERVICE INC.

HERMAN'S LANDSCAPE SUPPLIES INC.

INTERSTATE ALL BATTERY CTR

IRBY - STUART C IRBY CO

KATAMA TECHNOLOGIES, INC.

KLM ENGINEERING INC

LEAGUE OF MINN CITIES INS TRUST

LOCATORS & SUPPLIES INC

LOFFLER COMPANIES - 131511

MATHESON TRI-GAS INC

MICHELS UTILITY SERVICES

MINN VALLEY TESTING LABS INC

MINNESOTA UI

NAPA AUTO PARTS

GERRY NEVILLE

CINDY NICKOLAY

NISC

OFFICE OF MNIT SERVICES

JEFF OLSON

ORACLE AMERICA INC

RESCO

RW BECK GROUP, INC, LEIDOS ENG. LL

SHORT ELLIOTT HENDRICKSON INC

STAR ENERGY SERVICES

STINSON LLP

TOM KRAEMER, INC

GREG TRIPLETT

TRUE NORTH CONTROLS

BARRY VAN DUYN

VERIZON

VESSCO, INC

MICHAEL VOURLOS

WESCO RECEIVABLES CORP.

WSB & ASSOCIATES INC.

XCEL ENERGY

AMERICAN NATL BANK_MASTERCARD_ACH

FURTHER - ACH

MMPA C/O AVANT ENERGY

MN DEPT OF REVENUE ACH PAYMENTS

PAYROLL DIRECT DEPOSIT 07.12.24

BENEFITS & TAXES FOR 07.12.24

Total Week of 07/12/2024

\$204,230.82 CREDIT REFUNDS

\$6,162.50 JUNE FS ACCOUNTING 2023-2024

\$126,48 REIMBURSE 2ND QTR 2024 MILEAGE

\$761,84 BUG WRENCH/PLIERS(E)

\$230,00 SPU CLOTHING T.HANSON

\$286,55 SERVICE EMPLOYEE GATE

\$111,050,51 AMI INSTALL/TRAIN/SWITCHGEAR/RELIWRAP SHEETS

\$943.95 SYMANTEC RENEWAL 6/21/24-6/20/25

\$312,90 ARUBA TRIBAND ANTENNA

\$82.50 MALLARD DR DISCONN SAVER SWITCH

\$624.00 2ND OTR 2024 FRANCHISE FEE

\$5,471.20 JUNE FUEL BILL

\$467,269,08 JUNE SW\$357,481,49 & SD\$109,787,59

\$338,400.00 JUNE PILOT TRANSFER FEE

\$1,080.04 JUNE 2024 SD & SPU PROPERTIES

\$52,65 CHAIN LOOP (E)

\$30,360,00 AMI WATER METERS

\$125.00 ENERGY STAR CLOTHES WASHER REBATE

\$138,30 PARTS(E)

\$333,41 DUE TO AGENCY JUNE 2024 STMT

\$22,526.29 METER FLANGE KITS(W)

\$10,00 JUNE COBRA

\$6,821.00 JUNE PROF SVCS SHAKO C&I IMPLENTATION

\$105,00 REFUND FOR PVB TESTING

\$1,177.20 JUNE TICKETS

\$38.45 HANGER DOOR TRACK

\$6,714.65 HYRDOFLUOSILIC ACID,CHLORINE CYLINDERS

\$291.93 OIL CHG ELECT TRK#636

\$930,50 WASHED RED ROCK(E)

\$4.96 SIL 357(E)/CREDIT ON ACCT

\$3,419.75 SAFETY TESTING PROTECTIVE EQUIPMENT(E)

\$843.75 AMI WO#2472 GENERAL CONSULTING

\$1,500,00 WO#2886 GENERATOR INSTALL TMOBILE@TANK4

\$90.00 WC 1001728 7 FEE

\$777,35 RED CONSTRUCTION MARKING PAINT 20 OZ

\$3,673.84 MAINT, CONTRACT OVERAGE 4/1-6/30 2024

\$334.47 ACETYLENE IND(E)

\$7,579.48 WO2806 TRENCH WORK @ HIGHVIEW PARK 1B

\$332.00 WATER TESTING COLIFORM

\$5,655,36 2ND QTR 2024 MN UNEMPLOYMENT

\$206,74 BATTERY/HYDROAULIC FLUID,BRK CLEANER

\$104.52 REMBURSE 156 MILES

\$106,53 REIMBURSE 159 MILES

\$32,941.69 JUNE 2024 MISC \$734.01 JUNE WAN SERVICES

\$125.00 ENERGY STAR CLOTHES WASHER REBATE

\$37,931.22 ORACLE UTILTIES POWER 4/1/24-6/30/24

\$510.60 CLAMP WEDGE(E)

\$3,483.50 WO#2483 JUNE SPU W SUBSTATION DESIGN

\$4,051.86 WO#2868 11TH AVE W WM IMPROVMENT

\$120,00 NOVA POWER PORTAL BULK APPS

\$5,427.00 JUNE 2024 PROF SVCS LABOR MATTERS

\$628,59 JULY RENT AMI METERS WO2472 \$67,00 REIMBURSE 100 MILES

\$3,055.00 GE MDS ORBIT RADIO REPAIR(W)

\$100.00 ENERGY STAR DISHWASHER REBATE

\$627.20 JUNE TRUCK TRACKING

\$1,228.31 WO2851 EVOQUA NOZZLE,CHLORINE INJECTOR

\$40.19 REIMBURSE MILEAGE APR & MAY 2024

\$4,084.00 ENCLOSURE COVERS(E)

\$11,717.75 MAY PROF SCVS WO#2581 P.H.23

\$4,927.85 ELECT SVC VALLEY PARK 5/23-6/24 2024

\$15,641.49 JUNE 2024 CC STMT

\$192,31 FLEX DAYCARE CLAIM REIMB

\$3,931,946,03 JUNE POWER BILL

\$308,607.00 JUNE SALES & USE TAX PAYABLE

\$135,361.34

\$129,915.26 **\$5,864,749.70** WEEK OF 07/19/2024

AMARIL UNIFORM COMPANY

ARROW ACE HARDWARE

BARNA GUZY & STEFFEN LTD

BERGERSON-CASWELL INC

CHANDRA BHIMAVARAPU

BORDER STATES ELECTRIC SUPPLY

RHONDA BOSWORTH

COMCAST CABLE COMM INC.

TIM DAGGY

DGR ENGINEERING

DIGITAL IMPACT SOLUTIONS, LLC

JENNIFER DONNELLY

EUROFINS EATON ANALYTICAL, LLC

JEFF FRAZIER

GRAINGER INC

GRAYBAR ELECTRIC COMPANY INC

JOAN HANCOCK

HENNEN'S AUTO SERVICE INC.

CARL HENSLEY

INNOVATIVE OFFICE SOLUTIONS

IRBY - STUART C IRBY CO

MICHAEL KULAK

OLGA LITVINOVICH

LLOYD'S CONSTRUCTION SERVICES

MGX EQUIPMENT SERVICES, LLC

MID AMERICA METER INC

MINN VALLEY TESTING LABS INC

MMUA

JOHN MORAVEC

MPOWER TECHNOLOGIES, INC.

GERRY NEVILLE

CINDY NICKOLAY

NORTHERN STATES POWER CO

JEFF OLSON

REVA OLSON

POWERPLAN BF

RJ RYAN CONSTRUCTION

DENISE SAMAN

SANDALWOOD CORP.

SHERWIN WILLIAMS

SHORT ELLIOTT HENDRICKSON INC

SPENCER FANE LLP

GREG TRIPLETT

ELIZABETH UNZE

BARRY VAN DUYN

SUNITHA VANKITARAMAN

VERIZON WIRELESS

XIAOLI WANG

WATER CONSERVATION SERVICE INC

WESCO RECEIVABLES CORP.

Total Week of 07/19/2024

\$1,446.68 SPU CLOTHING ORDER DYLAN

\$73.67 WEED PUMPNGO(E)

\$400,00 WO#2844 E SHAKO SUB PROF SVCS

\$25,650,00 WO2840 INVESTIGATE WATER FLOW WELL#8

\$179,99 IRRIGATION CONTROLLERS REBATE

\$75,792.00 AMI WO2472 12S CL200 METERS

\$500_00 RESIDENTIAL SOLAR REBATE

\$2,30 CABLE FOR BREAKROOMS

\$50.00 ENERGY STAR CLOTHESWASHER REBATE

\$4,474,00 WO#2837 SS31 LATERAL 3 PHASE EXT 2024

\$425,00 DATA MERGE LETTERS(W)

\$175,00 ENERGY STAR CLOTHES WASHER REBATE

\$4.875.00 PFAS

\$500,00 ENERGY STAR COOLING/HEATING REBATE

\$148,91 IMPACT METER ADAPTER

\$2,196,99 CEMENT-QSET/AW

\$500,00 RESIDENTIAL SOLAR REBATE

\$158.88 OIL CHG ELECT TRK#618

\$500,00 ENERGY STAR COOLING/HEATING REBATE

\$368,02 OFFICE SUPPLIES

\$994.24 TOOL PARTS REPAIR

\$141.89 IRRIGATION CONTROLLERS REBATE

\$150,00 ENERGY STAR DISHWASHER REBATE

\$465.00 6/17-6/27 20YD DEMO & CONTRUCTION

\$453,45 POLE RISER,LOWER POLE,RAM MOUNT(E)

\$1,370.25 WO#2840 FLOW COMM KIT/TEST PROPELLER

\$71,00 WATER TESTING NITRATES

\$510,00 SUMMER CONF 8/19/24 BRAD CARLSON

\$50.00 ENERGY STAR CLOTHES WASHER REBATE

\$350,00 AMI MPOWER CLOUD HOSTING SERVER

\$109.88 REIMBURSE 164 MILES

\$116,58 REIMBURSE 174 MILES

\$3,245.29 JUNE POWER BILL.

\$50,00 ENERGY STAR CLOTHESWASHER REBATE

\$500.00 ENERGY STAR COOLING/HEATING REBATE

\$467.93 BLADES/PINS(E)

\$229.06 HYDT MTR#13213756 RETURN REFUND

\$500.00 ENERGY STAR COOLING/HEATING REBATE

\$105,00 REFUND 1 PROVATE HYDT MTR INSPECTION

\$33.35 PAINT(E)

\$6,388.65 WO#2868 11TH AVE W WM IMPROVEMENTS

\$11,225,00 JUNE LEGAS FEES

\$89.78 REIMBURSE 134 MILES

\$500.00 ENERGY STAR COOLING/HEATING REBATE

\$125,00 ENERGY STAR DISHWASHER REBATE

\$500,00 RESIDENTIAL SOLAR REBATE

\$106.87 6/6-7/5 BLIING PERIOD

\$500,00 ENERGY STAR COOLING/HEATING REBATE

\$723.54 LEAK LOCATES @ 858 HOLMES & 1343 BALSAM

\$1,244.00 ANCHOR HELIX(E)

\$149,732.20

WEEK OF 07/26/2024 ALTEC INDUSTRIES INC. AMARIL UNIFORM COMPANY ANCOM COMMUNICATIONS INC APPLE FORD OF SHAKOPEE BERGERSON-CASWELL INC BORDER STATES ELECTRIC SUPPLY CANTERBURY PARK CATERING & EVENTS JASON CHARTER CUSTOMER CONTACT SERVICES E & M CONSULTING INC. FRSECURE LLC GRAINGER INC HENNEN'S AUTO SERVICE INC. HIGH POINT NETWORKS, LLC INTERSTATE ALL BATTERY CTR IRBY - STUART C IRBY CO JT SERVICES UMA KANCHARAPU BRENDA LAKE LCM EMBLEM SHAKOPEE HOLDINGS LOCATORS & SUPPLIES INC. EMMETT LUETMER MICHELS UTILITY SERVICES MINN VALLEY TESTING LABS INC MMUA PRISCILLA NAGEL

WILLIAM NICHOLS
CINDY NICKOLAY
MARCI OSBORN
SANDY PATCHIN
PIONEER INDUSTRIES, INC.
POWERPLAN BF
RESCO
KARLA RICE

WANDA SCHWARZ SCOTT COUNTY TREASURER ANNIE SOK JASON T ST GEORGE

GREG TRIPLETT

WESTERN STATES ENVELOPE COMPANY

WILDERNESS ATHLETE LLC KELLEY WILLEMSSEN FURTHER - ACH ZAYO GROUP, LLC

PAYROLL DIRECT DEPOSIT 07,26,24 BENEFITS & TAXES FOR 07,26,24

Total Week of 07/26/2024

Grand Total

\$217,794,84 WO#2696 NEW BUCKET TRK#610 2023 F550 \$274.15 SPU UNIFORM CLOTHING DYLAN \$805,93 INSTALL NEW RADIO TRK #610(E) \$310.50 WATRE TRUCK COLOLANT REPAIR \$41,600,00 WO#2840 INSPECT @ WELL/PUMP #16 PUMP/MOT \$64,181.98 METER SOCKET 9S 3PHASE 13 TERMINAL W/BYP \$400,00 DEPOSIT FOR E.E. APPRECIATION DEC 2024 \$50.00 ENERGY STAR CLOTHES WASHER REBATE \$531,63 ANSWERING SVC 7/23-8/19 2024 \$206,95 ENHANCED BOX LISTING 2025 CHAMBER \$7,230.00 RISK ASSESSMENT YR 2 OF 5 \$295,62 SADDLE THRESHOLD(E) \$296,83 OIL CHANGE (E) TRK#617 \$19,627,32 INFRASTRUCTURE SVCS ANNUAL BILLING \$239.40 BATTERY(E) \$8,99 SHIPPING S013823114.002 \$5,520.00 PIPE 2" INNERDUCT \$105,00 ENERGY STAR REFRIGERATOR REBATE \$75:00 ENERGY STAR REFRIGERATOR REBATE \$2,847.75 WO#2602 EMBLEM SHAKO PROJ CLOSED REFUND \$717.30 BLUE MARKING PAINT(W) \$346.97 REIMBURSE SAFETY GLASSES \$8,728,49 WO#2869 TRENCHING WHISP WATER 2ND \$354.00 WATER TESTING NITRATES \$13,107,50 4-YR APPRENTICE LINEWORKER PROGRAM \$75,00 ENERGY STAR REFRIGERATOR REBATE \$30,00 RECYCLING REBATE \$144.05 REIMBURSE 215 MILES \$500,00 ENERGY STAR COOLING/HEATING REBATE \$175.00 ENERGY STAR DISH WASHER REBATE \$744,00 OFF SITE SHREDDING SERVICE

\$555.46 FILTERS(E)
\$99,383,34 750KVA/1000KVA 3PH TRANSFROMERS
\$175.00 ENERGY STAR CLOTHES WASHER REBATE
\$75.00 ENERGY STAR REFRIGERATOR REBATE
\$2,100,00 JULY FIBER
\$105.00 REFUND OF PVB TEST
\$150.00 ENERGY STAR DISHWASHER REBATE
\$112,56 REIMBURSE 168 MILES

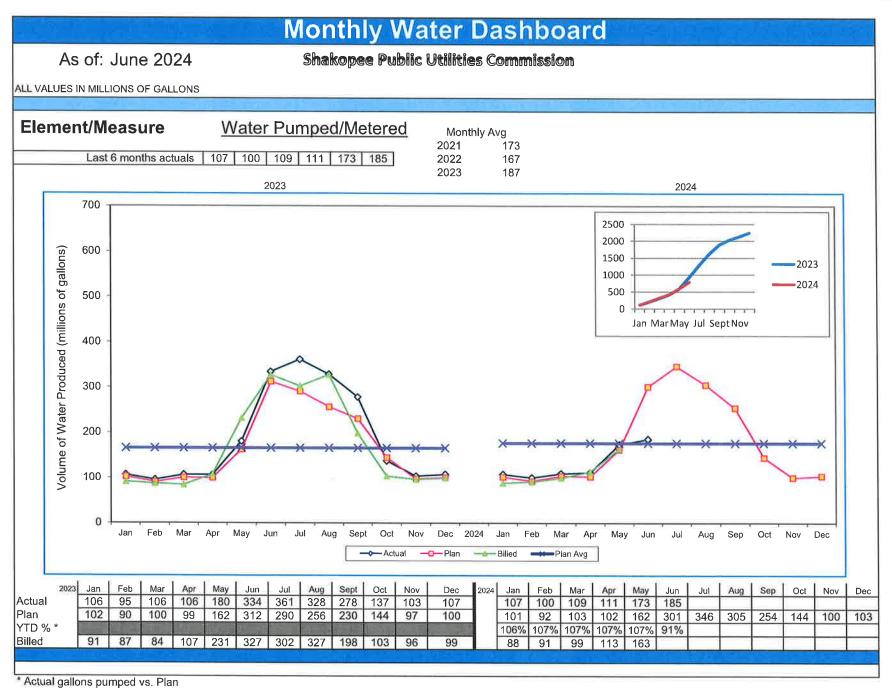
\$318,34 9 X 12 28 WESTERN SULPHITE \$190,03 HYDRATE RECOVERY PACKETS \$1,962,23 CUSTOMER CONN CONF 10/26-30 2024 KY \$192,31 DAYCARE FLEX CLAIM REIMB, \$3,315,71 T1 LINE, S SUB, PIKE LAKE, SPU

\$134,841.52 \$129,174.52

\$759,975,22

\$8,101,697.09

Presented for approval by	Willemsoen Director of Finance & Administration
Approved b	y General Manager
Approved by (Commission President





PO Box 470 • 255 Sarazin Street Shakopee, Minnesota 55379 Main 952.445-1988 • Fax 952.445-7767 www.shakopeeutilities.com

TO:

Greg Drent, General Manager

FROM:

Lon R. Schemel, Water Superintendent Afdurud

SUBJECT:

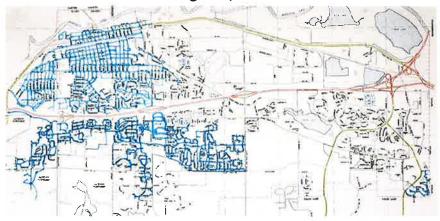
2024 Flushing Program Progress

DATE:

August 1, 2024

Completed flushing areas are highlighted in blue as of the dates indicated.

August 1, 2024



May 29, 2024





Proposed As Consent Item

PO Box 470 • 255 Sarazin Street Shakopee, Minnesota 55379 Main 952.445-1988 • Fax 952.445-7767 www.shakopeeutilities.com

To:

SPU Commissioners

From:

Greg Drent, General Manager

Date:

July 9th, 2024

Subject:

MMPA June 2024 Meeting Update

The Board of Directors of the Minnesota Municipal Power Agency (MMPA) met on June 25, 2024, at Chaska City Hall in Chaska, Minnesota and via videoconference.

The Board reviewed the Agency's operating and financial performance for May 2024.

Clean Energy Choice program participation remained at 5.5%.

The Board discussed the status of renewable projects the Agency is pursuing.

The Board discussed the upcoming MMPA annual dinner meeting with city officials.

Proposed As Consent Item





PO Box 470 • 255 Sarazin Stress Shakopee, Minnesota 55379 Main 952.445-1988 • Fax 952.445-7767 www.shakopeeutilities.com

To: SPU Commissioners

From: Greg Drent, General Manager

Date: July 31st, 2024

Subject: MMPA July 2024 Meeting Update

The Board of Directors of the Minnesota Municipal Power Agency (MMPA) met on July 23, 2024, at the Le Sueur Fire Hall in Le Sueur, Minnesota and via videoconference.

The Board reviewed the Agency's operating and financial performance for June 2024.

Clean Energy Choice program participation increased to 5.6%.

Management provided a preliminary projection of MMPA's rates for 2025, which is that there will be no increase in budgeted rates from 2024 to 2025.

The Board discussed the status of renewable projects the Agency is pursuing.

Following the Board meeting, MMPA held its annual dinner meeting with city officials.

Proposed As Consent Item





PO Box 470 > 255 Sarazin Street Shakopee, Minnesota 55379 Main 952.445-1988 • Fax 952.445-7767 www.shakopeeutilities.com

DATE:

July 22, 2024

TO:

Commissioners

FROM:

Greg Drent, General Manager

Subject:

Guidance for commissioners on direct communication with employees

At SPU's June and July commission meeting there was discussion on guidance for commissioners to follow if there is an employee requesting a meeting or discussion. SPU worked with Debra England HRExpertiesBP and attorney Kaela Brennan on this policy. We have created a one-page guide for commissioners on direct communication with employees.

Attached is the one-page document for your review.

SPU will be working on a new policy for reporting and investigating violations policy for your review as part of the employee handbook update later this year or spring of 2025

Action:

Approve Guidance for commission members on direct communications with employees and add to Commission Governance Handbook



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Guidance for Commissioners on Direct Communication with Employees

The Shakopee Public Utilities Commission has engaged a General Manager to oversee the operations and employees of Shakopee Public Utilities (SPU). If an employee of SPU or a representative of an employee (such as a family member) approaches an individual Commissioner regarding a complaint, policy violation, operations, or the consequences of an investigation conducted within Shakopee Public Utilities, the Commissioner should do the following.

- 1. If a meeting is requested, decline the request, and redirect the employee to the General Manager. State that they may not contact a Commissioner directly regarding internal SPU business.
- 2. If the employee contacts a Commissioner directly, politely, but firmly, stop the conversation if it ventures into the internal operations of SPU. Redirect them to the General Manager, Human Resources, or the SPU Employee Handbook.
- 3. If the employee persists, explain that if they have information that the Commission should hear, it must be presented through the General Manager.
- 4. If you receive an email or text message from an employee, it is best not to open or respond to the message or email. Instead, forward the communication to the General Manager.
- 5. If the concern regards the General Manager, refer the employee to Human Resources.
- The public comment period at each Commission meeting is available for employees and members
 of the public to discuss issues outside of employment matters or internal operations that may
 involve protected data.

If you have any concerns regarding these suggestions, reach out to the General Manager or Human Resources.



PO Box 470 • 255 Sarazin Street Shakopee, Minnesota 55379 Main 952.445-1988 • Fax 952.445-7767 www.shakopeeutilities.com

DATE:

July 30, 2024

TO:

Greg Drent, General Manager

FROM:

Kelley Willemssen, Director of Finance & Administration

SUBJECT:

June 30, 2024 - Financials Reports

As part of the June 30, 2024, financial reports we continued the practice of providing a component of analytical review. For the Water and Electric Operating Revenue and Expense budget to actual reports you will see comments at the bottom of each page. In addition to the analytical review, there are a few important points to note.

- The budget is projected on an annual basis rather than a monthly basis, so the information reported through June 30,2024, equates to 50% of the annual budget.
- Change in net position for the electric division as of 06/30/2024 is favorable at \$2.4M.
- Change in net position for the water division as of 06/30/2024 is favorable at \$1.3M.
- YTD electric operating revenues are down 1.7% from the prior year.
- YTD electric operating revenues are down 11.3% from budget due to less KWH usage than projected through June and the even budget spread for the full year.
- YTD electric expenses are down 6.6% (excluding depreciation) from the previous year.
 Depreciation for the electric division is higher due to the accelerated depreciation adjustment made for the retirement of old meters through the AMI project.
- YTD electric expenses are down (excluding depreciation) from budget mainly due to less purchase power costs through June.
- YTD water operating revenues are down 1.6% from the prior year.
- YTD water operating revenues are down 25.4% from budget due to less water usage than projected through June and the even budget spread for the full year.
- YTD water expenses are up 12% (excluding depreciation) from the previous year. Depreciation
 for the water division is higher due to the accelerated depreciation adjustment made for the
 retirement of old meters through the AMI project.
- YTD water expenses are down (excluding depreciation) from budget by 11%.

Included in this report are the following statements:

- Combined Statement of Revenues, Expenses and Changes in Fund Net Position
- Electric Operating Revenue and Expense Budget to Actual (with analytics)
- Water Operating Revenue and Expense
 Budget to Actual (with analytics)
- Electric Operating Revenue and Expense 2023 to 2024
- Water Operating Revenue and Expense 2023 to 2024

Request

The Commission is requested to accept the Financial Reports for the period ending 06/30/2024.

SHAKOPEE PUBLIC UTILITIES COMBINED STATEMENT OF REVENUES, EXPENSES AND CHANGES IN FUND NET POSITION

		Year to Date	Actual - June 30,	2024	Year to Date	Budget - June 30	0, 2024	Electi	ic	Water	- 1	Total Utili	ty
				Total			Total	YTD Actual v. B	udget B/(W)	YTD Actual v. Bu	dget B/(W)	YTD Actual v. Bud	iget B/(W)
		Electric	Water	Utility	Electric	Water	Utility	\$	%	\$	%	\$	%
OPERATING REVENUES	_\$	27,218,756	2,649,198	29,867,954	30,697,981	3,549,275	34,247,256	(3,479,225)	-11.3%	(900,077)	-25.4%	(4,379,302)	-12.8%
OPERATING EXPENSES													
Operation, Customer and Administrative		22,080,022	2,133,133	24,213,155	26,643,598	2,397,361	29,040,958	4,563,576	17.1%	264,228	11.0%	4,827,804	16.6%
Depreciation		2,117,324	1,573,470	3,690,794	1,630,985	1,003,388	2,634,373	(486,339)	-29.8%	(570,082)	-56.8%	(1,056,421)	-40.1%
Total Operating Expenses	_	24,197,346	3,706,603	27,903,949	28,274,583	3,400,749	31,675,331	4,077,237	14.4%	(305,854)	-9.0%	3,771,382	11.9%
Operating Income	-	3,021,409	(1,057,405)	1,964,005	2,423,398	148,528	2,571,926	598,011	24.7%	(1,205,932)	811.9%	(607,921)	-23.6%
NON-OPERATING REVENUE (EXPENSE)													
Rental and Miscellaneous		334,402	273,891	608,293	120,149	54,405	174,554	214,253	178.3%	219,486	403.4%	433,740	248.5%
Interdepartment Rent from Water		45,000	-	45,000	45,000	200	45,000	160	0.0%	68	0.0%	187	0.0%
Investment Income		705,618	639,783	1,345,401	509,327	243,583	752,910	196,291	38.5%	396,200	162.7%	592,491	78.7%
Interest Expense		(45,285)	(2,444)	(47,729)	(39,491)	(6,000)	(45,491)	(5,794)	-14.7%	3,556	59.3%	(2,238)	-4.9%
Gain/(Loss) on the Disposition of Property		8,663	12,765	21,428			3062	8,663	0.0%	12,765		21,428	9
Total Non-Operating Revenue (Expense)		1,048,398	923,996	1,972,394	634,985	291,988	926,973	413,413	65.1%	632,008	216.5%	1,045,421	112.8%
Income Before Contributions and Transfers		4,069,807	(133,409)	3,936,398	3,058,384	440,515	3,498,899	1,011,423	33.1%	(573,924)	-130.3%	437,499	12.5%
CAPITAL CONTRIBUTIONS MUNICIPAL CONTRIBUTION		183,835 (1,889,479)	1,699,331 (212,952)	1,883,167 (2,102,431)	365,331 (1,817,445)	1,824,956 (212,957)	2,190,287 (2.030,402)	(181,496)	49.7% -4.0%	(125,624) 4,50	-6.9% 0.0%	(307,120) (72,030)	-14.0% -3.5%
MUNICIPAL CONTRIBUTION	-	(1,009,479)	(212,952)	(2,102,431)	(1,817,445)	(212,957)	(2,030,402)	(72,034)	-4.0%	4.50	0.0%	(72,030)	-3.5%
CHANGE IN NET POSITION	\$	2,364,163	1,352,971	3,717,134	1,606,269	2,052,513	3,658,782	757,895	47.2%	(699,543)	-34.1%	58,352	1.6%

SHAKOPEE PUBLIC UTILITIES **ELECTRIC OPERATING REVENUE AND EXPENSE** For period ending June 30, 2024

	YTD Actual	YTD Budget	YTD Actual v. Bu Increase (decre	
	6/30/2024	6/30/2024	S (decre	%
OPERATING REVENUES	U/JU/ZUZ4	0/00/2024	Ψ	70
Sales of Electricity				
Residential	\$ 9,552,284	11,658,112	(2,105,828)	81.9
Commercial and Industrial	17,069,163		(1,301,286)	92.9
Total Sales of Electricity	26,621,447		(3,407,115)	88.7
Total Galob of Elocations	20,021,777	55,025,051	(0,407,110)	00.7
Forfeited Discounts	129,099	152,810	(23,710)	84.5
Free service to the City of Shakopee	72,031	66,182	5,849	108.8
Conservation program	396,179		(54,250)	88.0
Total Operating Revenues	27,218,756		(3,479,225)	88.7
•				
OPERATING EXPENSES				
Operations and Maintenance				
Purchased power	18,217,837		(3,660,944)	83.3
Distribution operation expenses	305,253		(139,975)	68.6 (
Distribution system maintenance	509,957		(109,206)	82.4
Maintenance of general plant	285,718		91,857	147.4 (
Total Operation and Maintenance	19,318,764	23,137,032	(3,818,268)	83.5
Customer Accounts				
Meter Reading	78,296	75,374	2,923	103.9
Customer records and collection	301,971		(180,868)	62,5 (
Energy conservation	63,516	455,694	(392,178)	13.9
Total Customer Accounts	443,783	1,013,906	(570,123)	43.8
Administrative and General				
Administrative and general salaries	456,741	569,198	(112,457)	80.2
Office supplies and expense	259,655	276,046	(16,391)	94.1
Outside services employed	226,083	287,813	(61,730)	78.6
Insurance	83,590	87,500	(3,910)	95.5
Employee Benefits	983,706	931,886	51,820	105.6
Miscellaneous general	307,700		(32,516)	90.4
Total Administrative and General	2,317,474	2,492,659	(175,185)	93.0
Total Operation, Customer, & Admin Expenses	22,080,022	26,643,598	(4,563,576)	82.9
Depreciation	2,117,324	1,630,985	486,339	129.8 (
Total Operating Expenses	\$ 24,197,346	28,274,583	(4,077,237)	85.6
Operating Income	\$ 3,021,409	2,423,398	598,011	124.7

Explanation of Items Percentage Received/Expended Less than 80% or Greater than 120% and \$ Variance Greater than \$15,000.

YTD Budget variance is due to an even 12M budget spread for misc distribution expenses (labor).

YTD Budget variance is mainly due to higher expenses through May - three new doors, new boiler & equipment repair. Should stabilize throughout the year

⁽³⁾ YTD Budget variance is due to lower credit card and collection expenses budgeted.

YTD Budget variance is mainly due to timing of rebates and the budget having an even spread. Should stabalize throughout the year.

The 2024 depreciation budget did not include the accelerated depreciation adjustment for the AMI project. \$648K was not budgeted and is causing the higher variance.

SHAKOPEE PUBLIC UTILITIES WATER OPERATING REVENUE AND EXPENSE For period ending June 30, 2024

. or ported enamy came co, 202.		YTD Actual	YTD Budget	YTD Actual v. Increase (deci	rease)	
		6/30/2024	6/30/2024	\$	%	
OPERATING REVENUES	•	2.640.700	2 500 200	(000.504)	74.0	
Sales of Water	\$	2,640,762	3,529,326	(888,564)	74.8	
Forfeited Discounts	-	8,436	19,949	(11,513)	42.3	
Total Operating Revenues		2,649,198	3,549,275	(900,077)	74.6	
OPERATING EXPENSES						
Operations and Maintenance						
Pumping and distribution operation		375,918	414,050	(38,132)	90.8	
Pumping and distribution maintenance		337,080	366,761	(29,680)	91.9	
Power for pumping		200,398	217,565	(17,167)	92.1	
Maintenance of general plant		37,637	34,954	2,684	107.7	
Total Operation and Maintenance)-	951,033	1,033,328	(82,295)	92.0	
Customer Accounts						
Meter Reading		38,287	35,651	2,636	107.4	
Customer records and collection		87,051	122,580	(35,529)	71.0	(1)
Total Customer Accounts		126,944	158,231	(31,287)	80.2	
Administrative and General						
Administrative and general salaries		266,343	339,088	(72,745)	78.5	(2)
Office supplies and expense		87,479	68,704	18,776	127.3	(3)
Outside services employed		102,037	183,973	(81,936)	55.5	(4)
Insurance		27,893	22,557	5,337	123.7	(5)
Employee Benefits		457,623	452,785	4,839	101.1	
Miscellaneous general		113,780	138,697	(24,917)	82.0	20
Total Administrative and General		1,055,155	1,205,802	(150,646)	87.5	
Total Operation, Customer, & Admin Expenses		2,133,133	2,397,361	(264,228)	89.0	
Depreciation		1,573,470	1,003,388	570,082	156.8	(6)
Total Operating Expenses	\$	3,706,603	3,400,749	305,854	109.0	ij S
Operating Income	\$	(1,057,405)	148,527	(1,205,931)	(711.9)	•

Item Explanation of Items Percentage Received/Expended Less than 80% or Greater than 120% and \$ Variance Greater than \$15,000.

⁽¹⁾ YTD Budget variance is due to lower credit card and collection expenses budgeted.

⁽³⁾ Variance is due to higher support services expenses. Expenses are annual so variance should stabilize throughout the year.

⁽⁴⁾ Variance is due to less outside services expensed than budgeted for first quarter - rate studies will be done in 2024 and variance should stabilize.

⁽⁵⁾ Variance is due to higher than budgeted insurance expenses. Expenses are annual so variance should stabilize throughout the year.

⁽⁶⁾ The 2024 depreciation budget did not include the accelerated depreciation adjustment for the AMI project. \$523K was not budgeted and is causing the higher variance.

SHAKOPEE PUBLIC UTILITIES ELECTRIC OPERATING REVENUE AND EXPENSE For period ending June 30, 2024

				2023-202	4
				Increase (decr	ease)
		2024	2023	\$	%
OPERATING REVENUES					
Residential	\$	9,552,284	9,770,779	(218,496)	97.8
Commercial and Industrial		17,069,163	17,304,515	(235,353)	98.6
Total Sales of Electricity		26,621,447	27,075,295	(453,848)	98.3
Forfeited Discounts		129,099	152,648	(23,549)	84.6
Free service to the City of Shakopee		72,031	69,052	2,979	104.3
Conservation program	2:	396,179	403,362	(7,183)	98.2
Total Operating Revenues	_	27,218,756	27,700,357	(481,601)	98.3
OPERATING EXPENSES					
Purchased power		18,217,837	19,813,442	(1,595,605)	91.9
Distribution operation expenses		305,253	332,365	(27,112)	91.8
Distribution system maintenance		509,957	508,878	1,079	100.2
Maintenance of general plant		285,718	192,713	93,005	148.3
Total Operation and Maintenance		19,318,764	20,847,398	(1,528,633)	92.7
Meter Reading		78,296	70.004	8,292	111.8
Customer records and collection		301,971	329,979	(28,008)	91.5
Energy conservation		63,516	153,803	(90,287)	41.3
Total Customer Accounts	-	443,783	553,786	(110,003)	80.1
Administrative and general salaries		456,741	390,173	66,568	117.1
Office supplies and expense		259,655	283,219	(23,564)	91.7
Outside services employed		226,083	200,889	25,195	112.5
Insurance		83,590	87,747	(4,157)	95.3
Employee Benefits		983,706	1,026,882	(43,176)	95.8
Miscellaneous general Total Administrative and General	-	307,700	243,169	64,531	126.5
Total Administrative and General Total Operating Expenses	-	2,317,474 22,080,022	2,232,078 23,633,262	85,396 (1,553,240)	103.8 93.4
, , ,					
Depreciation		2,117,324	1,382,281	735,043	153.2
Total Operating Expenses	\$_	24,197,346	25,015,543	(818,197)	96.7
Operating Income	\$_	3,021,410	2,684,814	336,596	112.5

SHAKOPEE PUBLIC UTILITIES WATER OPERATING REVENUE AND EXPENSE For period ending June 30, 2024

				2023-2024 Increase (decr	
	-	2024	2023	\$	%
OPERATING REVENUES	\$				
Sales of Water		2,640,762	2,682,772	(42,010)	98.4
Forfeited Discounts	_	8,436	9,802	(1,365)	86.1
Total Operating Revenues	-	2,649,198	2,692,573	(43,375)	98.4
OPERATING EXPENSES					
Operations and Maintenance					
Pumping and distribution operation		375,918	373,035	2,883	100.8
Pumping and distribution maintenance		337,080	179,326	157,754	188.0
Power for pumping		200,398	175,971	24,427	113.9
Maintenance of general plant	_	37,637	37,646	(9)	100.0
Total Operation and Maintenance		951,033	765,977	185,056	124.2
Customer Accounts					
Meter Reading		38,287	46,564	(8,277)	82.2
Customer records and collection		87,051	98,365	(11,314)	88.5
Energy conservation		556	380	176	146.3
Total Customer Accounts	-	125,894	145,309	(19,415)	86.6
Administrative and General					
Administrative and general salaries		266,343	238,461	27,882	111.7
Office supplies and expense		87,479	93,989	(6,510)	93.1
Outside services employed		102,037	76,122	25,915	134.0
Insurance		27,893	27,856	37	100.1
Employee Benefits		457,623	462,206	(4,583)	99.0
Miscellaneous general		113,780	89,257	24,523	127.5
Total Administrative and General	7	1,055,155	987,891	67,264	106.8
Total Operating Expenses		2,132,083	1,899,178	232,905	112.3
Depreciation		1,573,470	958,940	614,530	164.1
Total Operating Expenses		3,705,553	2,858,118	847,435	129.7
Operating Income	\$_	(1,056,355)	(165,545)	(890,810)	638.1

RESOLUTION #2024-25

RESOLUTION SETTING THE AMOUNT OF THE TRUNK WATER CHARGE, APPROVING OF ITS COLLECTION AND AUTHORIZING WATER SERVICE TO CERTAIN PROPERTY DESCRIBED AS:

HIGHVIEW PARK 3RD ADDITION Block 1, Lots 1- 11: Block 2, Lots 1 – 17; Block 3, Lots 1-14 Outlot A; and Outlot C

WHEREAS, a request has been received for City water service to be made available to certain property, and

WHEREAS, the collection of the Trunk Water Charge is one of the standard requirements before City water service is newly made available to an area, and

WHEREAS, the standard rate to be applied for the Trunk Water Charge has been set by separate Resolution,

NOW THEREFORE, BE IT RESOLVED, that the amount of the Trunk Water Charge is determined to be \$59,216.95 based on 11.05 net acres, and that collection of the Trunk Water Charge is one of the requirements to be completed prior to City water service being made available to that certain property described as:

HIGHVIEW PARK 3RD ADDITION Block 1, Lots 1- 11: Block 2, Lots 1 – 17; Block 3, Lots 1-14 Outlot A; and Outlot C

BE IT FURTHER RESOLVED, that all things necessary to carry out the terms and purpose of this Resolution are hereby authorized and performed.

Passed in regular session of the Shakopee Public Utilities Commission, this 5th day of August, 2024.

	Commission President: Justin Krieg
ATTEST:	
Commission Secretary: Greg Drent	

RESOLUTION NO. 2024-26

RESOLUTION APPROVING ALL MATTERS REQUIRED FOR COMPLETING PLAT FILING AND DEVELOPMENT OF PROPERTY

WHEREAS, the Shakopee Public Utilities Commission, a municipal utility commission organized under Minnesota law (the "Commission"), is proposing to finalize a plat for Reliakor Second Addition and enter into all documents (collectively, the "Plat Documents") and complete all matters required by or related to completing the platting and development of the property legally described in Exhibit A attached hereto (the "Property"); and

WHEREAS, the Commission has determined that it is appropriate to execute, accept and deliver the Plat Documents and complete all matters required by or related to completing the platting and development of the Property; and

WHEREAS, the Commission has determined that it is appropriate to finalize the transactions contemplated by the Plat Documents and to execute, accept and deliver such documents and complete all matters required by or related to carrying out such transactions; and

WHEREAS, the Commission has determined that the platting of the Property and the granting of the easements is in the public interest.

NOW, THEREFORE, BE IT RESOLVED BY THE SHAKOPEE PUBLIC UTILITIES COMMISSION AS FOLLOWS:

- 1. That the Commission hereby ratifies, confirms, authorizes and approves the execution, acceptance and delivery of the Plat Documents and authorizes and approves the transactions contemplated by the Plat Documents.
- 2. That the Commission has determined that it is appropriate to complete all matters required by or related to completing the platting and development of the Property.
- That the Commission hereby ratifies, confirms, authorizes and approves, and directs the President or the General Manager of the Commission to finalize, accept and/or deliver in the name and on behalf of the Commission, the Plat Documents and all documents, affidavits and certificates in such form and on such terms and conditions as deemed necessary or appropriate in connection with the Plat Documents and the platting and development of the Property, including all documents as may be required to complete the transactions contemplated by the Plat Documents.
- 4. That the President or the General Manager of the Commission is hereby authorized, empowered and directed to make such changes to the foregoing documents, affidavits and certificates and any other documents necessary to carry out the transactions contemplated by the Plat Documents or the platting and development of the Property as the President or the General Manager of the Commission deems reasonable and necessary.

5. That the President or General Manager of the Commission are authorized, empowered and directed to do all other acts and things as are deemed necessary or desirable in their discretion to effectuate this Resolution.

BE IT FURTHER RESOLVED, that all things necessary to carry out the terms and purposes of this Resolution are hereby authorized and performed.

Passed in regular session of the Shakopee Public Utilities Commission this 5^{th} day of August, 2024.

	Commission President: Justin Krieg
ATTEST:	
Secretary: Greg Drent	

EXHIBIT A

Legal Description of Property

That part of the West Half of the East Six-sevenths of the East Half of the Southeast Quarter of Section 12, Township 115 North, Range 22 West, Scott County, Minnesota, described as follows:

Commencing at the Southwest Corner of Lot 4, Block 1 of Maras Addition, according to the recorded plat thereof; said point being on the west line of said West Half of the East Six-sevenths of the East Half of the Southwest Quarter; thence on an assumed bearing of South 0 degrees 18 minutes 12 seconds East along said west line of the West Half of the East Six-sevenths of the East Half of the Southeast Quarter 767.25 feet to the actual point of beginning of the tract to be described; thence continuing South 0 degrees 18 minutes 12 seconds East along said west line of West Half of the East Six-sevenths of the East Half of the Southeast Quarter 448.91 feet to the Southwest Corner of said West Half of the East Six-sevenths of the East Half of the Southeast Quarter; thence South 89 degrees 58 minutes 54 seconds East along the south line of said West Half of the East six-sevenths of the East Half of the Southeast Quarter 283.905 feet; thence North 0 degrees 18 minutes 26 seconds West 449.00 feet; thence west parallel with the south line of said Lot 4, 283.87 feet to the actual point of beginning.



TO:

Greg Drent, General Manager

FROM:

Lon R. Schemel, Water Superintendent

SUBJECT:

Combined Minnesota Department of Health/SPU PFAS Results

DATE:

July 31, 2024

During the initial communications with the state about having a joint PFAS sampling program, I asked the compliance engineer how he would like to be copied on our results. Emailing the results would be sufficient since we would be using the same Environmental Protection Agency standard methodology. He said that they would appreciate having more data and that he would add our results to theirs. The SPU Commission can expect to receive quarterly results, which include the health risk index calculated by the Minnesota Department of Health and the hazard index from the Environmental Protection Agency.

The Minnesota Department of Health will be sampling the two combined discharges as one result, while SPU will be sampling the wells in those discharges separately. Combined Discharge 1 includes wells 6, 7, and 10. Combined Discharge 2 includes wells 12, 13, and 14.

SPU's planned sampling schedule for the weeks of:

- May 6: Wells 2, 4, 5, 6, 7, 8, 20, 21
- August 5: Wells 2, 4, 5, 6, 7, 8, 20, 21
- October 7: Wells 9, 11, 15, 16, 17
- November 4: Wells 2, 4, 5, 6, 7, 8, 20, 21
- February 3: Wells 2, 4, 5, 6, 7, 8, 20, 21
- May 5, 2025: Wells 2, 4, 5, 6, 7, 8, 20, 21

Please see the attached email and results calculations from Brian Rivers for details on Quarter 2.

Schemel, Lon

From: Rivers, Brian (He/Him/His) (MDH) <Brian.Rivers@state.mn.us>

Sent: Tuesday, July 16, 2024 12:32 PM **To:** Schemel, Lon; Myers, Tony

Cc: Karp, Andrew (He/Him/His) (MDH)
Subject: Quarter 2 PFAS results; Shakopee

Attachments: 24E1259_1 MDH_EnvHealth 06 13 24 0820.pdf; Shakopee PFAS Summary.xlsx

Good afternoon,

Attached above is:

- a laboratory report detailing results of PFAS samples taken during Quarter 2 (April 1st June 30th) of 2024.
- an updated summary spreadsheet that tracks the historical sample results at your public water system.
 - o Note: Eurofins results sent to MDH by Shakopee have been included in the summary spreadsheet

If you notice any discrepancy or would like copies of previous lab reports, please feel free to reply to this email.

How to read the spreadsheet:

- I direct your attention to the locations where we performed our last round of sampling:
 - o COMBINED DISCHARGE 1 (Wells 6, 7 & 10)
 - o Well #2 Entry Point
 - o Well #4 Entry Point
 - Well #5 Entry Point
 - o Well #20 Entry Point
 - Well #21 Entry Point
- The shading of the cells is explained on the righthand side of the spreadsheet; all dark red cells indicate an
 exceedance of the MCL, the light pink cells indicate results that are between half the MCL and the MCL. The color
 scheme is a little different for Minnesota's HRI calculation.
- An update to this round of tracking spreadsheets is that we are using a few different formulas to calculate the EPA Hazard Index and individual quarterly running annual average calcs, essentially they count as 0 any result under the practical quantification level (PQL).

Please keep in mind that the summary spreadsheet is meant to be a tool that MDH uses and provides to the water system for tracking a history of results. We manually enter data into this spreadsheet, so there is a possibility for error. This spreadsheet is not meant to be used as the only source of PFAS results – the laboratory reports should be referenced as the primary source of PFAS results.

Seen below is general information about PFAS, including details about the newly published EPA National Primary Drinking Water Regulation.

Links to PFAS resources are detailed in blue.

Thank you and have a great day!

Brian Rivers, EIT Minnesota Department of Health

What are PFAS?

Per- and polyfluoroalkyl substances (PFAS) are chemicals produced in the United States since the 1940s. They are used for applications ranging from firefighting to stain and waterproofing of consumer products, such as carpet, clothing, and food packaging. Some PFAS are no longer made due to environmental and human health concerns, but they persist in the environment and may contaminate surface waters and groundwaters near sites where they were made or used.

What We Know about Health Effects

Current peer-reviewed scientific studies have shown that exposure to certain levels of PFAS may lead to:

- Reproductive effects such as decreased fertility or increased high blood pressure in pregnant women.
- Developmental effects or delays in children, including low birth weight, accelerated puberty, bone variations, or behavioral changes.
- Increased risk of some cancers, including prostate, kidney, and testicular cancers.
- Reduced ability of the body's immune system to fight infections, including reduced vaccine response.
- Interference with the body's natural hormones.
- Increased cholesterol levels and/or risk of obesity.
- More information on potential health effects of PFAS can be found here.

Definitions

- Health Based Value (HBV)
 - Typically set by state primacy agency (MDH)
 - HBV is a level of a contaminant in drinking water that is considered safe to consume over a lifetime without any adverse health effects.
 - HBVs are used by health agencies to provide guidance on the safe level of a contaminant in drinking water and are typically more conservative than regulatory standards or guidelines. This is because HBVs are designed to protect even the most sensitive individuals, such as children and pregnant women, and consider potential cumulative effects of exposure to multiple contaminants.
 - HBV are non-enforceable standards.

Health Risk Index (HRI)

- Typically set by state primacy agency (MDH)
- Combinations of chemicals may cause health effects that are different from the health effects of each individual chemical. MDH evaluates the health effects of groups of chemicals such as PFAs using the following process:
 - For each chemical in the group, MDH calculates a ratio of the groundwater concentration of the chemical to the HBV appropriate to the length of exposure for that chemical. MDH adds the ratios for all the chemicals in the group to create a number called a Health Risk Index (HRI).
- Currently, an HRI over one indicates a possible health risk from PFAs.

Maximum Contaminant Level (MCL)

- Set by federal regulatory agency (EPA)
- An MCL is a regulatory standard for the maximum amount of a particular contaminant that is allowed in public drinking water systems under the Safe Drinking Water Act (SDWA).
- o MCL are enforceable standards.

Units

- Part Per Million (ppm) = milligrams per liter (mg/l)
- Part Per Billion (ppb) = micrograms per liter (μg/l)
- Part Per Trillion (ppt) = nanograms per liter (ng/l)

Conversions

- 1 ppm = 1,000 ppb = 1,000,000 ppt
- 1 ppt = 0.001 ppb = 0.000001 ppm

Current Health Standards/ Future Regulations

- State Level: MDH currently has an HRI of 1 to weigh the cumulative risk of multiple PFAS compounds.
 - In February of 2024, MDH published new HBV's for PFOS & PFOA (in red) and these values could change the HRI calculation when/ if implementation decisions are finalized. For now, the old HBV's listed in black below are still being applied to compliance calculations.
 - o MDH's current HRI is calculated by the following formula:
 - HRI = (cPFOS / PFOS_HBV) + (cPFOA / PFOA_HBV) + (cPFBS / PFBS_HBV) + (cPFBA / PFBA_HBV) + (cPFHxS / PFHxS_HBV) + (cPFHxA / PFHxA_HBV)
 - where cN = the concentration of N chemical that has been detected in groundwater.
 - o The health-based guidance values (HBV) used for these calculations are:
 - o PFOS HBV: 0.015 ug/L = 15 ppt; new value: 2.3 ppt
 - o PFOA HBV: 0.035 ug/L = 35 ppt; new value: 0.0079 ppt
 - \circ PFBS HBV: 0.1 ug/L = 100 ppt
 - \circ PFBA HBV: 7 ug/L = 7000 ppt
 - o PFHxS HBV: 0.047 ug/L = 47 ppt
 - \circ PFHxA HBV: 0.2 ug/L = 200 ppt
 - More Information on MDH's PFAS HRI can be found here.
- <u>Federal Level:</u> On April 26, 2024, EPA published a new National Primary Drinking Water Regulation (NPDWR), outlining six new MCL's for PFAS:

Compound	Final MCL (enforceable levels)
PFOA	4.0 parts per trillion (ppt) (also expressed as ng/L)
PFOS	4.0 ppt
PFHxS	10 ppt
PFNA	10 ppt
HFPO-DA (Commonly known as GenX Chemicals)	10 ppt
Hazard Index Mixtures containing two or more of PFHxS, PFNA, HFPO-DA, and PFBS	1 (unitless)

The PFAS NPDWR was promulgated (became effective) on June 25th, 2024. Public water systems are given until April 26th, 2027, to satisfy initial monitoring requirements and report results to the state. PWS must meet the new MCL compliance requirements by April 26th, 2029. More information on the PFAS National Primary Drinking Water Regulation can be found here: Per- and Polyfluoroalkyl Substances (PFAS) | US EPA

o The Hazard Index (HI) of 1 weighs the cumulative risk of multiple PFAS compounds. The HI is calculated by the following formula, comparing the measured concentration of the compound in the numerator of each term to the health-based water concentration (HBWC):

$$\label{eq:Hazard Index Index$$

PFHxS HBWC: = 10 ppt

■ GenX HBWC: = 10 ppt

PFNA HBWC: = 10 ppt

PFBS HBWC: = 2000 ppt

More Information:

- Per- and Polyfluoroalkyl Substances (PFAS) MN Dept. of Health (state.mn.us)
- Per- and Polyfluoroalkyl Substances (PFAS) | US EPA

Brian Rivers, EIT

Compliance Engineer | Community Public Water Supply

Minnesota Department of Health

Office: +1 651 201 4757 | Mobile: +1 612 477 4311











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CD1 (Wells 6, 7 & 10)

Date	PFOS ppt	PFOA ppt	PFBS ppt	PFBA ppt	PFHxS ppt	PFHxA ppt	HFPO-DA (Go	PFNA ppt	MDH HRI	HRI QRAA	EPA HI	HI QRAA	PFOS QRAA	PFOA QRAA	PFHxS QRAA
5/14/2024	0	1.3	1.8	13	0	3.9	0	0	0.1	0.2	0.0	0.0	0.0	0.0	0.0
1/17/2024	2.2	1.8	2.0	14.0	0,0	3.3	0.0	0.0	0.2	0.2	0,0	0,0	0,0	0.0	0.0
8/16/2023	1,8	0.0	0.0	12.0	0,0	2,6	0.0	0,0	0.1	0.2	0,0	0,0	0.0	0,0	0,0
5/24/2023	2.5	1,8	2.0	18.0	0.0	3.3	0.0	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.0
1/10/2023	1.8	0.0	0,0	14,0	0.0	2.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0
10/10/2022	1.8	0.0		13.0		1,9			0.1	0.2	0.0	0.0	0.0	0.0	#DIV/0I
9/8/2021	2.8	1,7	1.7	17.0		2.4			0,3	0.3	0.0	0.0	0.0	0.0	#DIV/0!

MN Hea	lth Based Valu	es	
RI = Health Risk Index	MDH Hea	Ith-Based Guidance	Values (HBVs) in ppt
RAA = Quarterly Running Annual Average		2022 MDH HBVs	HRI Calculation:
	PFOS	15	cPFOS/15
0.50 < HRI < 1.0	PFOA	35	cPFOA/35
HRI > 1.0	PFBS	100	cPFBS/100
	PFBA	7000	cPFBA/7000
	PFHxS	47	cPFHxS/47
	PFHxA	200	cPFHxA/200

EPA MO	CLS		
MCL = Maximum Contaminant Level	EPA MCLs	in ppt (ng/L)	
50%-100% MCL		2024 EPA MCL	PQL
>AGGRERACE	PFOS	4.0	4.0
//	PFOA	4.0	4.0
QRAA = Quarterly Running Annual Average	PFHxS	10	3.0
PQL = Practical Quantification Level	HFPO-DA (GenX)	10	5.0
If result is < PQL, it is set to 0 in QRAA & HI calcs for MCLs	PFNA	10	4.0
	PFBS	Use HI	3,0
HI = Hazard Index (MCL = 1) PA Hea	Ith-Based Water Concer	itrations (HBWC) in p	1
0.50 < HI < 1.4	2024 EPA HBWC	HI Calculation	ľ

PFBS

PFHxS

PFNA

HFPO-DA

PFAS Compounds

PFOS = Perfluorooctane Sulfonic Acid PFOA = Perfluorooctanoic Acid

PFBS = Perfluorobutane Sulfonic Acid

PFBA = Perfluorobutanoic acid

PFHxS = Perfluorohexane Sulfonic Acid

PFHxA = Perfluorohexanoic acid

HFPO-DA = GenX = Hexafluoropropylene Oxide Dimer Acid

PFNA = Perfluorononanoic acid

Conversions

2000

10

10

Part per Billion (ppb) = (μg/L) Part per Trillion (ppt) = (ng/L) 1 ppm = 1,000 ppb = 1,000,000 ppt 1 ppt = 0.001 ppb = 0.000001 ppm

cPFBS/2000

cPFHxS/10

cGenX/10

cPFNA/10 HI = Sum of Above c = concentration in ppt

HRI = Sum of Above c = concentration in ppt CD2 (Wells 12, 13 & 14)

Date	PFOS ppt	PFOA ppt	PFBS ppt	PFBA ppt	PFHxS ppt	PFHxA ppt	HFPO-DA (G	PFNA ppt	MDH HRI	HRI QRAA	EPA HI	HI QRAA	PFOS QRAA	PFOA QRAA	PFHxS QRAA
7/25/2022	0.0	0.0		3.1					0.0	0.0	0.0	0.0	0.0	0.0	#DIV/0!
9/8/2021	0.0	0.0		2.1					0.0	0.0	0.0	0.0	0.0	0.0	#DIV/0!

MN Health Based Values

HRI = Health Risk Index

QRAA = Quarterly Running Annual Average

0.50 < HRI < 1.0 HRI > 1.0

MDH Health-Based Guidance Values (HBVs) in ppt (n 2022 MDH HBVs HRI Calculation: PFOS 15 cPFOS/15 PFOA 35 cPFOA/35 PFBS 100 cPFBS/100 PFBA cPFBA/7000 7000 cPFHxS/47 PFHxS 47 PFHxA 200 cPFHxA/200 HRI = Sum of Above

EPA MCLs

MCL = Maximum Contaminant Level

50%-100% MCL

QRAA = Quarterly Running Annual Average

PQL = Practical Quantification Level

If result is < PQL, it is set to 0 in QRAA & HI calcs for MCLs

EPA MCLs in ppt (ng/L)

2024 EPA MCL	PQL
4.0	4.0
4.0	4.0
10	3.0
10	5.0
10	4.0
Use HI	3.0
	4.0 4.0 10 10

c = concentration in ppt

HI = Hazard Index (MCL = 1)

HI > 100

0.50 < HI < 1.4

PA meann-c	ased water concentr	ations (newc) in pr
	2024 EPA HBWC HI	Calculation

	2024 EPA HBWC	HI Calculation
FBS	2000	cPFBS/2000
FHxS	10	cPFHxS/10
IFPO-DA (10	cGenX/10
FNA	10	cPFNA/10
		HI = Sum of Above

c = concentration in ppt

PFAS Compounds

PFOS = Perfluorooctane Sulfonic Acid

PFOA = Perfluorooctanoic Acid

PFBS = Perfluorobutane Sulfonic Acid

PFBA = Perfluorobutanoic acid

PFHxS = Perfluorohexane Sulfonic Acid

PFHxA = Perfluorohexanoic acid

HFPO-DA = GenX = Hexafluoropropylene Oxide Dimer Acid

PFNA = Perfluorononanoic acid

Conversions

Well 2

Date	PFOS ppt	PFOA ppt	PFBS ppt	PFBA ppt	PFHxS ppt	PFHxA ppt	HFPO-DA (Go	PFNA ppt	MDH HRI	HRI QRAA	EPA HI	HI QRAA	PFOS QRAA	PFOA QRAA	PFHxS QRAA
6/17/2024	2.0	0.0	2,2	13.0	0.0	0.0	0.0	0.0	0,2	0.1	0.0	0.0	0.0	0,0	0.0
5/14/2024	1.8	0.0	0.0	9.2	0,0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
1/17/2024	2.6	0.0	2.4	16.0	0.0	2.0	0.0	0.0	0,2	0.1	0.0	0,0	0,0	0.0	0,0
8/16/2023	0.0	0.0	0,0	6.4	0.0	0.0	0.0	0.0	0.0	0,1	0.0	0.0	0.0	0.0	0.0
5/24/2023	0.0	0.0	0.0	9.2	0,0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
1/10/2023	2.4	0,0	1.8	14.0	0.0	0,0	0.0	0,0	0.2	0.2	0.0	0,0	0.0	0.0	0.0
10/10/2022	2.9	1.3	2,7	18.0	1.4	2.3			0.3	0.2	0.0	0.0	0.0	0,0	0.0
8/17/2022	0.0	0.0		5.9					0.0	0,1	0.0	0.0	0.0	0.0	0,0
9/8/2021	1.6	0.8	1,5	11.0	0.9	1.9	-		0.2	0.2	0.0	0,0	0.0	0.0	0.0

MN Heal	ith Based Valu	es	
HRI = Health Risk Index	MDH Hea	ith-Based Guidance	Values (HBVs) in ppt (
QRAA = Quarterly Running Annual Average		2022 MDH HBVs	HRI Calculation:
	PFOS	15	cPFOS/15
0.50 < HRI < 1.0	PFOA	35	cPFOA/35
HRI > 1.0	PFBS	100	cPFBS/100
	PFBA	7000	cPFBA/7000
	PFHxS	47	cPFHxS/47
	PFHxA	200	cPFHxA/200
		1	HRI = Sum of Above
			c = concentration in p

EPA MCLs

MCL = Maximum Contaminant Level

50%-100% MCL

QRAA = Quarterly Running Annual Average

PQL = Practical Quantification Level

If result is < PQL, it is set to 0 in QRAA & HI calcs for MCLs

	2024 EPA MCL	PQL
PFOS	4.0	4.0
PFOA	4.0	4,0
PFHxS	10	3,0
HFPO-DA (GenX)	10	5.0
PFNA	10	4.0
PFBS	Use HI	3,0

HI = Hazard Index (MCL = 1)

0.50 < HI < 1.4

PA Health-Based Water Concentrations (HBWC) in p

	2024 EPA HBWC	HI Calculation
PFBS	2000	cPFBS/2000
PFHxS	10	cPFHxS/10
HFPO-DA (10	cGenX/10
PFNA	10	cPFNA/10
		HI = Sum of Above

c = concentration in ppt

PFAS Compounds

PFOS = Perfluorooctane Sulfonic Acid

PFOA = Perfluorooctanoic Acid

PFBS = Perfluorobutane Sulfonic Acid

PFBA = Perfluorobutanoic acid

PFHxS = Perfluorohexane Sulfonic Acid

PFHxA = Perfluorohexanoic acid

HFPO-DA = GenX = Hexafluoropropylene Oxide Dimer Acid

PFNA = Perfluorononanoic acid

Conversions

Well 4

Date	PFOS ppt	PFOA ppt	PFBS ppt	PFBA ppt	PFHxS ppt	PFHxA ppt	HFPO-DA (G	PFNA ppt	MDH HRI	HRI QRAA	EPA HI	HI QRAA	PFOS QRAA	PFOA QRAA	PFHxS QRAA
6/17/2024	0	0	0	14	0	12	0	0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
5/14/2024	0	1.5	2.8	24	0	21	0	0	0.2	0.2	0.0	0,0	0.0	0.0	0.0
1/17/2024	0	1.9	3.3	29	0	19	0	0	0.2	0.3	0.0	0.0	0.0	0.0	0,0
8/16/2023	0	0	2.9	26	0	21	0	0	0,1	0.3	0.0	0.0	0.0	0.0	0.0
5/24/2023	1.9	2.6	4.3	38	0	30	0	0	0.4	0.2	0.0	0,0	0,0	0,0	0.0
1/10/2023	2.2	2.8	3.4	36.0	0.0	17.0	0,0	0.0	0.4	0.2	0.0	0.0	0.0	0.0	0,0
10/10/2022	0.0	0.0	2.6	25.0	0,0	18.0			0.1	0.2	0.0	0.0	0.0	0.0	0.0
8/17/2022	0.0	0.0	2.5	23.0	0.0	19.0			0.1	0.2	0.0	0,0	0.0	0.0	0.0
9/8/2021	1.2	2.0	2.6	30.0	0,9	20.0			0.3	0.3	0.0	0.0	0.0	0.0	0.0

MN Health Based Values

HRI = Health Risk Index

QRAA = Quarterly Running Annual Average

0.50 < HRI < 1.0 HRI > 1.0

MDH Hea	Ith-Based Guidance	Values (HBVs) in ppt (
	2022 MDH HBVs	HRI Calculation:
PFOS	15	cPFOS/15
PFOA	35	cPFOA/35
PFBS	100	cPFBS/100
PFBA	7000	cPFBA/7000
PFHxS	47	cPFHxS/47
PFHxA	200	cPFHxA/200
		HRI = Sum of Above
		c = concentration in pp

EPA MCLs

MCL = Maximum Contaminant Level

50%-100% MCL

SERVICE MICH

QRAA = Quarterly Running Annual Average

PQL = Practical Quantification Level

If result is < PQL, it is set to 0 in QRAA & HI calcs for MCLs

EPA MCLs in ppt (ng/L)

	2024 EPA MCL	PQL
FOS	4.0	4.0
FOA	4.0	4.0
FHxS	10	3.0
IFPO-DA (GenX)	10	5.0
FNA	10	4.0
FBS	Use HI	3.0

HI = Hazard Index (MCL = 1)

0.50 < HI < 1.4

HI>2.0

PA Health-Based Water Concentrations (HBWC) in p

	2024 EPA HBWC	HI Calculation
PFBS	2000	cPFBS/2000
PFHx5	10	cPFHxS/10
HFPO-DA (10	cGenX/10
PFNA	10	cPFNA/10
		HI = Sum of Above

c = concentration in ppt

PFAS Compounds

PFOS = Perfluorooctane Sulfonic Acid

PFOA = Perfluorooctanoic Acid

PFBS = Perfluorobutane Sulfonic Acid

PFBA = Perfluorobutanoic acid

PFHxS = Perfluorohexane Sulfonic Acid

PFHxA = Perfluorohexanoic acid

HFPO-DA = GenX = Hexafluoropropylene Oxide Dimer Acid

PFNA = Perfluorononanoic acid

Conversions

Well 5

Date	PFOS ppt	PFOA ppt	PFBS ppt	PFBA ppt	PFHxS ppt	PFHxA ppt	HFPO-DA (Ge	PFNA ppt	MDH HRI	HRI QRAA	EPA HI	HI QRAA	PFOS QRAA	PFOA QRAA	PFHxS QRAA
6/17/2024	0	2.1	4.3	35	0	33	0	0	0.3	0.3	0.0	0.0	0.0	0.0	0.0
5/14/2024	0	2.1	4.6	37	0	33	0	0	0.3	0.3	0.0	0.0	0.0	0.0	0.0
1/17/2024	0	2.2	5.4	44	0	35	0	0	0,3	0.3	0.0	0.0	0.0	0.0	0.0
8/16/2023	0	2.2	4.7	38	0	34	0	0	0.3	0.4	0.0	0.0	0.0	0,0	0.0
5/24/2023	1.9	2.7	4.3	39	0	28	0	0	0.4	0.4	0.0	0.0	0.0	0.0	0.0
1/10/2023	2.3	2.9	3,6	37.0	0.0	18.0	0.0	0,0	0,4	0.4	0.0	0.0	0.0	0.0	0,0
10/10/2022	1.4	2.4	5.1	42.0	1.1	39.0			0.4	0.4	0.0	0.0	0.0	0.0	0.0
8/17/2022	0.0	1.9	4.3	36.0	0.0	33.0			0.3	0.3	0.0	0.0	0.0	0.0	0.0
9/8/2021	1.8	2.7	3.1	36.0	1.2	21.0			0.4	0.4	0.0	0.0	0.0	0.0	0.0

MN Health Based Values

QRAA = Quarterly Running Annual Average

0.50 < HRI < 1.0 HRI > 1.0

HRI = Health Risk Index

MDH Health-Based Guidance Values (HBVs) in ppt (2022 MDH HBVs HRI Calculation: PFOS cPFOS/15 PFOA 35 cPFOA/35 PFBS 100 cPFBS/100 PFBA 7000 cPFBA/7000 PFHxS cPFHxS/47 47 PFHxA 200 cPFHxA/200 HRI = Sum of Above c = concentration in ppt

EPA MCLs

MCL = Maximum Contaminant Level

50%-100% MCL

QRAA = Quarterly Running Annual Average

PQL = Practical Quantification Level If result is < PQL, it is set to 0 in QRAA & HI calcs for MCLs

HI = Hazard Index (MCL = 1) 0.50 < HI < 1.4

EPA MCLs in ppt (ng/L)

	2024 EPA MCL	PQL
PFOS	4.0	4.0
PFOA	4.0	4.0
PFHxS	10	3.0
HFPO-DA (GenX)	10	5.0
PFNA	10	4.0
PFBS	Use HI	3.0

PA Health-Based Water Concentrations (HBWC) in p

2024 EDA HRWC HI Calculation

	2024 EPA HBWC	mi Calculation
PFBS	2000	cPFBS/2000
PFHxS	10	cPFHxS/10
HFPO-DA (10	cGenX/10
PFNA	10	cPFNA/10
		HI = Sum of Above

c = concentration in ppt

PFAS Compounds

PFOS = Perfluorooctane Sulfonic Acid

PFOA = Perfluorooctanoic Acid

PFBS = Perfluorobutane Sulfonic Acid

PFBA = Perfluorobutanoic acid

PFHxS = Perfluorohexane Sulfonic Acid

PFHxA = Perfluorohexanoic acid

HFPO-DA = GenX = Hexafluoropropylene Oxide Dimer Acid

PFNA = Perfluorononanoic acid

Conversions

Date	PFOS ppt	PFOA ppt	PFBS ppt	PFBA ppt	PFHxS ppt	PFHxA ppt	HFPO-DA (G€	PFNA ppt	MDH HRI	HRI QRAA	EPA HI	HI QRAA	PFOS QRAA	PFOA QRAA	PFHxS QRAA
6/17/2024	0	0	2,4	17	0	0	0	0	0.0	0.0	0.0	0,0	0.0	0.0	0.0
8/16/2023	0	0	0	14	0	2.6	0	0	0.0	0.0	0,0	0.0	0.0	0.0	0.0
5/24/2023			1.7	16		3.2			0,0	0.0	0.0	0.0	0.0	0,0	0.0
1/10/2023	0.0	0.0	1.8	16.0	0.0	2.7			0.0	0.0	0.0	0.0	0.0	0.0	0.0
10/10/2022	0.0	0.0		15.0	0,0	2.1			0.0	0.0	0.0	0.0	0.0	0.0	0.0
8/17/2022	0.0	0.0		14.0	0.0	1.9			0.0	0.0	0.0	0.0	0.0	0.0	0.0

MN Hea	ith Based Valu	es	
HRI = Health Risk Index	MDH Hea	Ith-Based Guidance	Values (HBVs) in ppt (
QRAA = Quarterly Running Annual Average		2022 MDH HBVs	HRI Calculation:
	PFOS	15	cPFOS/15
0.50 < HRI < 1.0	PFOA	35	cPFOA/35
HRI > 1.0	PFBS	100	cPFBS/100
1	PFBA	7000	cPFBA/7000
	PFHxS	47	cPFHxS/47
	PFHxA	200	cPFHxA/200
		•	HRI = Sum of Above
			c = concentration in ppt

EPA	MCL	s
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MCL = Maximum Contaminant Level

50%-100% MCL

QRAA = Quarterly Running Annual Average

PQL = Practical Quantification Level

If result is < PQL, it is set to 0 in QRAA & HI calcs for MCLs

EPA MCLs in ppt (ng/L)

	2024 EPA MCL 4.0 4.0 10 X) 10	
	2024 EPA MCL	PQL
PFOS	4.0	4.0
PFOA	4.0	4.0
PFHxS	10	3.0
HFPO-DA (GenX)	10	5.0
PFNA	10	4.0
PFBS	Use HI	3.0

HI = Hazard Index (MCL = 1)

0.50 < HI < 1.4

²A Health-Based Water Concentrations (HBWC) in p

	2024 EPA HBWC	HI Calculation
PFBS	2000	cPFBS/2000
PFHxS	10	cPFHxS/10
HFPO-DA (10	cGenX/10
PFNA	10	cPFNA/10
		the constant

HI = Sum of Above c = concentration in ppt

PFAS Compounds

PFOS = Perfluorooctane Sulfonic Acid PFOA = Perfluorooctanoic Acid

PFBS = Perfluorobutane Sulfonic Acid

PFBA = Perfluorobutanoic acid

PFHxS = Perfluorohexane Sulfonic Acid

PFHxA = Perfluorohexanoic acid

HFPO-DA = GenX = Hexafluoropropylene Oxide Dimer Acid

PFNA = Perfluorononanoic acid

Conversions

Date	PFOS ppt	PFOA ppt	PFBS ppt	PFBA ppt	PFHx5 ppt	PFHxA ppt	HFPO-DA [G	PFNA ppt	MOH HRI	HRI QRAA	EPA HI	HI QRAA	PFOS QRAA	PFOA QRAA	PFHxS QRAA
6/17/2024	3.6	2.7	2.9	21		5.2			0,4	0.4	0.0	0.0	2.1	0,0	0.0
8/16/2023	6.5	2.7	2,3	20	0	4.2	0	0	0.4	0.4	0.0	0.0	2.1	0,0	0.0
5/24/2023	3.6	2.3	2,2	20		3.6			0.3	0.4	0.0	0.0	1.1	0.0	0.0
1/10/2023	6.8	2.3	2.4	21.0	0.0	3.2			0.4	0.4	0.0	0.0	1,4	0,0	0.0
10/10/2022	3.7	1.9	2.1	19.0	0.0	3.0			0.3	0.3	0.0	0.0	0.0	0,0	0.0
8/17/2022	3.8	1.9	2.0	18.0	0.0	2.7			0.3	0.3	0.0	0.0	0.0	0.0	0.0

MN Hea	ith Based Valu	es	V Su			
HRI = Health Risk Index	MDH Health-Based Guidance Values (HBVs) in ppt (
QRAA = Quarterly Running Annual Average		2022 MDH HBVs	HRI Calculation:			
	PFOS	15	cPFQS/15			
0.50 < HRI < 1.0	PFOA	35	cPFOA/35			
HRI > 1.0	PFBS	100	cPFBS/100			
	PFBA	7000	cPFBA/7000			
	PFHxS	47	cPFHxS/47			
	PFHxA	200	cPFHxA/200			
			HRI = Sum of Above			
			c = concentration in pr			

EPA MC	Ls		
MCL = Maximum Contaminant Level	EPA MCLs	in ppt (ng/L)	
50%-100% MCL		2024 EPA MCL	PQI
>100k MCL	PFOS	4,0	4.0
	PFOA	4.0	4.0
QRAA = Quarterly Running Annual Average	PFHxS	10	3.0
PQL = Practical Quantification Level	HFPO-DA (GenX)	10	5.0
If result is < PQL, it is set to 0 in QRAA & HI calcs for MCLs	PFNA	10	4.0
	PFBS	Use HI	3.0

HI = Hazard Index (MCL = 1)

0.50 < HI < 1.4

Mile Dide

PA Health-B	ased Water Conce	ntrations (HBWC) In
	2024 EPA HBWC	HI Calculation

	2024 EPA HBWC	HI Calculation
PFBS	2000	cPFBS/2000
PFHxS	10	cPFHxS/10
IFPO-DA (10	cGenX/10
PFNA	10	cPFNA/10
		HI = Sum of Above

c = concentration in ppt

PFAS Compounds

PFOS = Perfluorooctane Sulfonic Acid

PFOA = Perfluorooctanoic Acid

PFBS = Perfluorobutane Sulfonic Acid

PFBA = Perfluorobutanoic acid

PFHxS = Perfluorohexane Sulfonic Acid

PFHxA = Perfluorohexanoic acid

HFPO-DA = GenX = Hexafluoropropylene Oxide Dimer Acid

PFNA = Perfluorononanoic acid

Conversions

Date	PFOS ppt	PFOA ppt	PFBS ppt	PFBA ppt	PFHxS ppt	PFHxA ppt	HFPO-DA (G	PFNA ppt	MDH HRI	HRI QRAA	EPA HI	HI QRAA	PFOS QRAA	PFOA QRAA	PFHxS QRAA
6/17/2024	0	0	0	18	0	4.7	0	0						V.	
1/17/2024	2.6	0.0	2.0	20.0	1.9	3.5	0.0	0.0	0.3	0.2	0.0	0,0	0.0	0,0	0.0
8/16/2023	2.4	0,0	0.0	16.0	0.0	3.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0,0	0.0
5/24/2023	2.2	0.0	0.0	17.0	0.0	3.5	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0
1/10/2023	0.0	0.0	0.0	19.0	0.0	5.1	0.0	0.0	0.0	0.2	0.0	0.0	0,0	0.0	0.0
10/10/2022	2.9	0.0	1.9	20.0	1.8	3.5			0.3	0.2	0.0	0.0	0,0	0.0	0.0
8/17/2022	2.2	0.0	0.0	15.0	0.0	2.6			0.2	0.2	0.0	0.0	0.0	0.0	0.0
9/8/2021	2.7	1.2	1.5	17.0	1.6	2.9			0.3	0.3	0.0	0,0	0.0	0.0	0.0

MNHea	ith Based Valu	es	
HRI = Health Risk Index	MDH Hea	Ith-Based Guidance	Values (HBVs) in ppt
QRAA = Quarterly Running Annual Average		2022 MDH HBVs	HRI Calculation:
	PFOS	15	cPFOS/15
0.50 < HRI < 1.0	PFOA	35	cPFOA/35
HRI > 1.0	PFBS	100	cPFBS/100
	PFBA	7000	cPFBA/7000
	PFHxS	47	cPFHxS/47
	PFHxA	200	cPFHxA/200
			HRI = Sum of Above

EPA MCLs

MCL = Maximum Contaminant Level

50%-100% MGL

QRAA = Quarterly Running Annual Average

PQL = Practical Quantification Level

If result is < PQL, it is set to 0 in QRAA & HI calcs for MCLs

EPA MCLs in ppt (ng/L)							
	2024 EPA MCL	PQL					
PFOS	4.0	4.0					
PFOA	4.0	4.0					
PFHxS	10	3.0					
HFPO-DA (GenX)	10	5.0					
PFNA	10	4.0					
PFBS	Use HI	3.0					

c = concentration in ppt

HI = Hazard Index (MCL = 1)

0.50 < HI < 1.4

PA Health-Based Water Concentrations (HBWC) in p

	2024 EPA HBWC	HI Calculation
PFBS	2000	cPFBS/2000
PFHxS	10	cPFHxS/10
HFPO-DA (10	cGenX/10
PFNA	10	cPFNA/10
		HI = Sum of Above

c = concentration in ppt

PFAS Compounds

PFOS = Perfluorooctane Sulfonic Acid

PFOA = Perfluorooctanoic Acid

PFBS = Perfluorobutane Sulfonic Acid

PFBA = Perfluorobutanoic acid

PFHxS = Perfluorohexane Sulfonic Acid

PFHxA = Perfluorohexanoic acid

HFPO-DA = GenX = Hexafluoropropylene Oxide Dimer Acid

PFNA = Perfluorononanoic acid

Conversions

Date	PFOS ppt	PFOA ppt	PFBS ppt	PFBA ppt	PFHxS ppt	PFHxA ppt	HFPO-DA (G	PFNA ppt	MDH HRI	HRI QRAA	EPA HI	HI QRAA	PFOS QRAA	PFOA QRAA	PFHxS QRAA
10/10/2022	0,0	0.0		7,1	0.0				0.0	0.0	0,0	0,0	0.0	0.0	0.0
8/17/2022	0.0	0,0		7.4	0.0				0.0	0.0	0.0	0,0	0.0	0.0	0.0
9/8/2021	0.0	0,0	0.9	10.0	0.0				0.0	0.0	0.0	0.0	0,0	0,0	0.0

MN Hea	Ith Based Valu	es				
HRI = Health Risk Index	MDH Health-Based Guidance Values (HBVs) in ppt (
QRAA = Quarterly Running Annual Average		2022 MDH HBVs	HRI Calculation:			
	PFOS	15	cPFOS/15			
0.50 < HRI < 1.0	PFOA	35	cPFOA/35			
HRI > 1,0	PFBS	100	cPFBS/100			
	PFBA	7000	cPFBA/7000			
	PFHxS	47	cPFHxS/47			
	PFHxA	200	cPFHxA/200			
		*	HRI = Sum of Above			

EPA MCLs

MCL = Maximum Contaminant Level

50%-100% MCL >100% MCL

QRAA = Quarterly Running Annual Average

PQL = Practical Quantification Level

If result is < PQL, it is set to 0 in QRAA & HI calcs for MCLs

EPA MCLs in ppt (ng/L)

	2024 EPA MCL	PQL
PFOS	4.0	4.0
PFOA	4.0	4.0
PFHxS	10	3.0
HFPO-DA (GenX)	10	5.0
PFNA	10	4.0
PFBS	Use Hi	3.0

c = concentration in ppt

HI = Hazard Index (MCL = 1)

0.50 < HI < 1.4

10 > 3.4

PA Health-Based Water Concentrations (HBWC) in p

2024 EPA HBWC	HI Calculation
2000	cPFBS/2000
10	cPFHxS/10
10	cGenX/10
10	cPFNA/10
	HI = Sum of Above
	2000 10 10 10

c = concentration in ppt

PFAS Compounds

PFOS = Perfluorooctane Sulfonic Acid

PFOA = Perfluorooctanoic Acid

PFBS = Perfluorobutane Sulfonic Acid

PFBA = Perfluorobutanoic acid

PFHxS = Perfluorohexane Sulfonic Acid

PFHxA = Perfluorohexanoic acid

HFPO-DA = GenX = Hexafluoropropylene Oxide Dimer Acid

PFNA = Perfluorononanoic acid

Conversions

Date	PFOS ppt	PFOA ppt	PFBS ppt	PFBA ppt	PFHx\$ ppt	PFHxA ppt	HFPO-DA (G	PFNA ppt	MDH HRI	HRI QRAA	EPA HI	HI QRAA	PFOS QRAA	PFOA QRAA	PFHxS QRAA
10/10/2022	0.0	0.0							0,0	0.0	0.0	0.0	0.0	0.0	#DIV/0I
8/17/2022	0.0	0,0							0.0	0.0	0.0	0.0	0.0	0.0	#DIV/0I

MN He	olth Based Value	15							
HRI = Health Risk Index	lealth Risk Index MDH Health-Based Guidance Values (HBVs								
QRAA = Quarterly Running Annual Average		2022 MDH HBVs	HRI Calculation:						
	PFOS	15	cPFOS/15						
0.50 < HRI < 1.0	PFOA	35	cPFOA/35						
HRI > 1.0	PFBS	100	cPFBS/100						
	PFBA	7000	cPFBA/7000						
	PFHxS	47	cPFHxS/47						
	PFHxA	200	cPFHxA/200						
		100	HRI = Sum of Above						

EPA MCLs

MCL = Maximum Contaminant Level

50%-100% MCL

QRAA = Quarterly Running Annual Average

PQL = Practical Quantification Level

If result is < PQL, it is set to 0 in QRAA & HI calcs for MCLs

EPA MCLs in ppt (ng/L) 2024 EPA MCL PQL PFOS PFOA 4.0 4.0 4.0 4.0 PFHxS 3.0 10 5.0 HFPO-DA (GenX) 10 PFNA PFBS 10 4.0

Use HI

c = concentration in ppt

HI = Hazard Index (MCL = 1)

0.50 < HI < 1.4

PA Health	-Based Wa	ter Conce	ntrations	(HBWC) in p
	2024 55	A LIBRAGO	LU Caland	-41

	2024 EPA HBWC	HI Calculation
PFBS	2000	cPFBS/2000
PFHxS	10	cPFHxS/10
HFPO-DA (10	cGenX/10
PFNA	10	cPFNA/10
		HI = Sum of Above

c = concentration in ppt

3.0

PFAS Compounds

PFOS = Perfluorooctane Sulfonic Acid

PFOA = Perfluorooctanoic Acid

PFBS = Perfluorobutane Sulfonic Acid

PFBA = Perfluorobutanoic acid

PFHxS = Perfluorohexane Sulfonic Acid

PFHxA = Perfluorohexanoic acid

HFPO-DA = GenX = Hexafluoropropylene Oxide Dimer Acid

PFNA = Perfluorononanoic acid

Conversions

Date	PFOS ppt	PFOA ppt	PFBS ppt	PFBA ppt	PFHxS ppt	PFHxA ppt	HFPO-DA (G	PFNA ppt	MDH HRI	HRI QRAA	EPA HI	HI QRAA	PFOS QRAA	PFOA QRAA	PFHxS QRAA
10/10/2022	0.0	0.0		5.6					0,0	0.0	0.0	0.0	0.0	0.0	#DIV/0!
8/17/2022	0.0	0.0		4.4					0,0	0.0	0.0	0.0	0.0	0.0	#DIV/0I
9/8/2021	0.0	0.0		5.4					0.0	0.0	0.0	0.0	0.0	0.0	#DIV/0!

MN Health Based Values

HRI = Health Risk Index
QRAA = Quarterly Running Annual Average

0.50 < HRI < 1.0 HRI > 1.0

	2022 MDH HBVs	HRI Calculation:
PFOS	15	cPFOS/15
PFOA	35	cPFOA/35
PFBS	100	cPFBS/100
PFBA	7000	cPFBA/7000
PFHxS	47	cPFHx5/47
PFHxA	200	cPFHxA/200
	"	HRI = Sum of Above
		c = concentration in pp

EPA MCLs

MCL = Maximum Contaminant Level

50%-100% MCL

>1009s MCL

QRAA = Quarterly Running Annual Average

PQL = Practical Quantification Level

If result is < PQL, it is set to 0 in QRAA & HI calcs for MCLs

EPA MCLs	EPA MCLs in ppt (ng/L)							
	2024 EPA MCL	PQL						
PFOS	4.0	4,0						
PFOA	4.0	4.0						
PFHxS	10	3.0						
HFPO-DA (GenX)	10	5.0						
PFNA	10	4.0						
PFBS	Use HI	3.0						

HI = Hazard Index (MCL = 1)

0.50 < HI < 1.4

● # 3 E W

2A Health-Based	Water Concentrations (HBWC) in	nn.

	2024 EPA HBWC	HI Calculation	
PFBS	2000	cPFBS/2000	
PFHx5	10	cPFHxS/10	
HFPO-DA (10	cGenX/10	
PFNA	10	cPFNA/10	
		HI = Sum of Above	

c = concentration in ppt

PFAS Compounds

PFOS = Perfluorooctane Sulfonic Acid

PFOA = Perfluorooctanoic Acid

PFBS = Perfluorobutane Sulfonic Acid

PFBA = Perfluorobutanoic acid

PFHxS = Perfluorohexane Sulfonic Acid

PFHxA = Perfluorohexanoic acid

HFPO-DA = GenX = Hexafluoropropylene Oxide Dimer Acid

PFNA = Perfluorononanoic acid

Conversions

Date	PFOS ppt	PFOA ppt	PFBS ppt	PFBA ppt	PFHxS ppt	PFHxA ppt	HFPO-DA (G	PFNA ppt	MDH HRI	HRI QRAA	EPA HI	HI QRAA	PFOS QRAA	PFOA QRAA	PFHxS QRAA
10/10/2022	0,0	0.0		2.0					0.0	0.0	0,0	0.0	0.0	0.0	#DIV/0!
8/17/2022	0.0	0.0		1,8					0.0	0.0	0.0	0.0	0.0	0.0	#DIV/0!

MN Hea	Ith Based Valu	05					
HRI = Health Risk Index	MDH Health-Based Guidance Values (HBVs) in ppt (
QRAA = Quarterly Running Annual Average		2022 MDH HBVs	HRI Calculation:				
	PFOS	15	cPFOS/15				
0.50 < HRI < 1.0	PFOA	35	cPFOA/35				
HRI > 1.0	PFBS	100	cPFBS/100				
	PFBA	7000	cPFBA/7000				
	PFHxS	47	cPFHxS/47				
	PFHxA	200	cPFHxA/200				
).		HRI = Sum of Above				
			c = concentration in pp				

EPA MC	Ls		
MCL = Maximum Contaminant Level	EPA MCLs	in ppt (ng/L)	
50%-100% MCL		2024 EPA MCL	PQL
>100% MCL	PFOS	4.0	4.0
	PFOA	4,0	4.0
QRAA = Quarterly Running Annual Average	PFHxS	10	3.0
PQL = Practical Quantification Level	HFPO-DA (GenX)	10	5.0
If result is < PQL, it is set to 0 in QRAA & HI calcs for MCLs	PFNA	10	4.0
	PFBS	Use HI	3.0

HI = Hazard Index (MCL = 1)

0.50 < HI < 1.4

History

	2024 EPA HBWC	HI Calculation
PFBS	2000	cPFBS/2000
PFHxS	10	cPFHxS/10
HFPO-DA (10	cGenX/10
PFNA	10	cPFNA/10
		HI = Sum of Above
		THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.

c = concentration in ppt

PFAS Compounds

PFOS = Perfluorooctane Sulfonic Acid

PFOA = Perfluorooctanoic Acid

PFBS = Perfluorobutane Sulfonic Acid

PFBA = Perfluorobutanoic acid

PFHxS = Perfluorohexane Sulfonic Acid

PFHxA = Perfluorohexanoic acid

HFPO-DA = GenX = Hexafluoropropylene Oxide Dimer Acid

PFNA = Perfluorononanoic acid

Conversions

Date	PFOS ppt	PFOA ppt	PFBS ppt	PFBA ppt	PFHxS ppt	PFHxA ppt	HFPO-DA (Ge	PFNA opt	MDH HRI	HRI QRAA	EPA HI	HI QRAA	PFOS QRAA	PFOA QRAA	PFHxS QRAA
10/10/2022	0.0	0,0		2,6					0,0	0.0	0,0	0,0	0.0	0,0	#DIV/0!
8/17/2022	0.0	0.0		2,4					0.0	0.0	0.0	0.0	0,0	0.0	#DIV/0!

MN Hea	Ith Based Valu	ies	
HRI = Health Risk Index	MDH Hea	Ith-Based Guidance	Values (HBVs) in ppt
QRAA = Quarterly Running Annual Average		2022 MDH HBVs	HRI Calculation:
	PFOS	15	cPFOS/15
0.50 < HRI < 1.0	PFOA	35	cPFOA/35
HRI > 1.0	PFBS	100	cPFBS/100
	PFBA	7000	cPFBA/7000
	PFHxS	47	cPFHxS/47
	PFHxA	200	cPFHxA/200
	· CHILI		HRI = Sum of Above

EPA MCLs

MCL = Maximum Contaminant Level

50%-100% MCL >100% MCI

QRAA = Quarterly Running Annual Average

PQL = Practical Quantification Level

If result is < PQL, it is set to 0 in QRAA & HI calcs for MCLs

EPA MCLs in ppt (ng/L)

	2024 EPA MCL	PQL
PFOS	4.0	4.0
PFOA	4.0	4.0
PFHxS	10	3,0
HFPO-DA (GenX)	10	5.0
PFNA	10	4.0
PFB\$	Use HI	3.0

c = concentration in ppt

HI = Hazard Index (MCL = 1)

0.50 < HI < 1.4

H1>0.0

PA Health-Based Water Concentrations (HBWC) in pl

	2024 EPA HBWC	HI Calculation
PFBS	2000	cPFB\$/2000
PFHxS	10	cPFHxS/10
HFPO-DA (10	cGenX/10
PFNA	10	cPFNA/10
		HI = Sum of Above

c = concentration in ppt

PFAS Compounds

PFOS = Perfluorooctane Sulfonic Acid

PFOA = Perfluorooctanoic Acid

PFBS = Perfluorobutane Sulfonic Acid

PFBA = Perfluorobutanoic acid

PFHxS = Perfluorohexane Sulfonic Acid

PFHxA = Perfluorohexanoic acid

HFPO-DA = GenX = Hexafluoropropylene Oxide Dimer Acid

PFNA = Perfluorononanoic acid

Conversions

Part per Billion (ppb) = (µg/L)
Part per Trillion (ppt) = (ng/L)
1 ppm = 1,000 ppb = 1,000,000 ppt

1 ppt = 0.001 ppb = 0.000001 ppm

Date	PFOS ppt	PFOA ppt	PFBS ppt	PFBA ppt	PFHxS ppt	PFHxA ppt	HFPO-DA (Go	PFNA ppt	MDH HRI	HRI QRAA	EPA HI	HI QRAA	PFOS QRAA	PFOA QRAA	PFHxS QRAA
10/10/2022	0.0	0.0		9.8					0.0	0.0	0,0	0.0	0.0	0,0	#DIV/0!
8/17/2022	0.0	0.0		9.8					0,0	0.0	0,0	0.0	0.0	0.0	#DIV/01
9/8/2021	0.0	0.0	1.2	9,4		1.1			0,0	0.0	0.0	0.0	0.0	0,0	#DIV/0!

MN Hea	Ith Based Value	es .						
HRI = Health Risk Index	MDH Health-Based Guidance Values (HBVs) in ppt (
QRAA = Quarterly Running Annual Average		2022 MDH HBVs	HRI Calculation:					
	PFOS	15	cPFOS/15					
0.50 < HRI < 1.0	PFOA	35	cPFOA/35					
HRI > 1.0	PFBS	100	cPFBS/100					
	PFBA	7000	cPFBA/7000					
	PFHxS	47	cPFHx5/47					
	PFHxA	200	cPFHxA/200					
		-	HRI = Sum of Above					
			c = concentration in pp					

EPA MCLs

MCL = Maximum Contaminant Level

50%-100% MCL

QRAA = Quarterly Running Annual Average PQL = Practical Quantification Level

If result is < PQL, it is set to 0 in QRAA & HI calcs for MCLs

EPA MCLs in ppt (ng/L)

2024 EPA MCL PQL PFOS 4.0 4.0 PFOA 4.0 4.0 PFHxS 10 3.0 HFPO-DA (GenX) 10 5.0 PFNA 10 4.0

Use HI

3,0

HI = Hazard Index (MCL = 1)

0.50 < HI < 1.4 HI > 1.4 PA Health-Based Water Concentrations (HBWC) in p

PFBS

	2024 EPA HBWC	HI Calculation
PFBS	2000	cPFBS/2000
PFHxS	10	cPFHxS/10
HFPO-DA	10	cGenX/10
PFNA	10	cPFNA/10
		HI = Sum of Above

c = concentration in ppt

PFAS Compounds

PFOS = Perfluorooctane Sulfonic Acid

PFOA = Perfluorooctanoic Acid

PFBS = Perfluorobutane Sulfonic Acid

PFBA = Perfluorobutanoic acid

PFHxS = Perfluorohexane Sulfonic Acid

PFHxA = Perfluorohexanoic acid

HFPO-DA = GenX = Hexafluoropropylene Oxide Dimer Acid

PFNA = Perfluorononanoic acid

Conversions

Date	PFOS ppt	PFOA ppt	PFBS ppt	PFBA ppt	PFHxS ppt	PFHxA ppt	HFPO-DA (G	PFNA ppt	MDH HRI	HRI QRAA	EPA HI	HI QRAA	PFOS QRAA	PFOA QRAA	PFHxS QRAA
10/10/2022	0.0	0.0		10.0					0.0	0.0	0.0	0.0	0.0	0.0	#DIV/0!
8/17/2022	0.0	0.0		11.0					0,0	0.0	0.0	0.0	0.0	0.0	#DIV/0!
9/8/2021	0.0	0.0	1.5	11.0					0.0	0.0	0.0	0.0	0.0	0.0	#DIV/0I

MN Hea	ith Based Valu	es	
HRI = Health Risk Index	MDH Hea	lth-Based Guidance	Values (HBVs) in ppt (n.
QRAA = Quarterly Running Annual Average		2022 MDH HBVs	HRI Calculation:
	PFOS	15	cPFOS/15
0.50 < HRI < 1.0	PFOA	35	cPFOA/35
HRI > 1.0	PFBS	100	cPFBS/100
	PFBA	7000	cPFBA/7000
	PFHxS	47	cPFHxS/47
	PFHxA	200	cPFHxA/200
	1.	•	HRI = Sum of Above
			c = concentration in pp

	EPA MCLs
MCL = Maximum Contaminant Level	

50%-100% MCL

QRAA = Quarterly Running Annual Average PQL = Practical Quantification Level

If result is < PQL, it is set to 0 in QRAA & HI calcs for MCLs

	2024 EPA MCL	PQI
PFOS	4.0	4.0
PFOA	4.0	4.0
PFHxS	10	3.0
HFPO-DA (GenX)	10	5.0
PFNA	10	4.0
PFBS	Use HI	3.0

HI = Hazard Index (MCL = 1)

0.50 < HI < 1.4

	2024 EPA HBWC	HI Calculation				
PFBS	2000	cPFBS/2000				
PFHxS	10	cPFHxS/10				
HFPO-DA (10	cGenX/10				
PFNA	10	cPFNA/10				
		HI = Sum of Above				

c = concentration in ppt

PFAS Compounds

PFOS = Perfluorooctane Sulfonic Acid

PFOA = Perfluorooctanoic Acid

PFBS = Perfluorobutane Sulfonic Acid

PFBA = Perfluorobutanoic acid

PFHxS = Perfluorohexane Sulfonic Acid

PFHxA = Perfluorohexanoic acid

HFPO-DA = GenX = Hexafluoropropylene Oxide Dimer Acid

PFNA = Perfluorononanoic acid

Conversions

Date	PFOS ppt	PFOA ppt	PFBS ppt	PFBA ppt	PFHxS ppt	PFHxA ppt	HFPO-DA (Gr	PFNA ppt	MDH HRI	HRI QRAA	EPA HI	HI QRAA	PFOS QRAA	PFOA QRAA	PFHx\$ QRAA
10/10/2022	0.0	0.0	2.2	14.0		2,0			0,0	0,0	0.0	0.0	0.0	0.0	#DIV/0!
8/17/2022	0,0	0,0	2,7	15.0		2.0	ji ji		0.0	0.0	0.0	0.0	0.0	0.0	#DIV/0!
9/8/2021	0.0	0,0	1.6	11,0					0.0	0.0	0.0	0.0	0.0	0.0	#DIV/0!

MN Hea	Ith Based Valu	es					
HRI = Health Risk Index	MDH Health-Based Guidance Values (HBVs) in ppt (
QRAA = Quarterly Running Annual Average		2022 MDH HBVs	HRI Calculation:				
	PFOS	15	cPFOS/15				
0.50 < HRI < 1.0	PFOA	35	cPFOA/35				
HRI > 1.0	PFBS	100	cPFBS/100				
	PFBA	7000	cPFBA/7000				
	PFHxS	47	cPFHxS/47				
	PFHxA	200	cPFHxA/200				
			HRI = Sum of Above				

F	p	Δ	M	C

MCL = Maximum Contaminant Level

50%-100% MCL

>100% MCL

QRAA = Quarterly Running Annual Average

PQL = Practical Quantification Level

If result is < PQL, it is set to 0 in QRAA & HI calcs for MCLs

EPA MCLs in ppt (ng/L)

	2024 EPA MCL	PQL
PFOS	4.0	4.0
PFOA	4.0	4.0
PFHx5	10	3.0
HFPO-DA (GenX)	10	5.0
PFNA	10	4.0
PFBS	Use HI	3.0

c = concentration in ppt

HI = Hazard Index (MCL = 1)

0.50 < HI < 1.4

HI 2.3.4

PA Health-Based Water Concentrations (HBWC) in p

	2024 EPA HBWC	HI Calculation
PFBS	2000	cPFBS/2000
PFHxS	10	cPFHxS/10
HFPO-DA (10	cGenX/10
PFNA	10	cPFNA/10

HI = Sum of Above c = concentration in ppt

PFAS Compounds

PFOS = Perfluorooctane Sulfonic Acid

PFOA = Perfluorooctanoic Acid

PFBS = Perfluorobutane Sulfonic Acid

PFBA = Perfluorobutanoic acid

PFHx5 = Perfluorohexane Sulfonic Acid

PFHxA = Perfluorohexanoic acid

HFPO-DA = GenX = Hexafluoropropylene Oxide Dimer Acid

PFNA = Perfluorononanoic acid

Conversions

Date	PFOS ppt	PFOA ppt	PFBS ppt	PFBA ppt	PFHxS ppt	PFHxA ppt	HFPO-DA (G	PFNA ppt	MDH HRI	HRI QRAA	EPA HI	HI QRAA	PFOS QRAA	PFOA QRAA	PFHxS QRAA
6/17/2024	0	0	0	13	0	0	0	0	0.0	0.0	0.0	0,0	0.0	0.0	0.0
5/14/2024	0	0	0	12	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0,0
1/17/2024	0	0	0	14	0	0	0	0	0.0	0.0	0_0	0.0	0.0	0,0	0.0
8/16/2023	0	0	0	11	0	0	0	0	0,0	0.0	0.0	0,0	0.0	0.0	0.0
5/24/2023	0	2.1	0	15	0	2,7	0	0	0,1	0.0	0.0	0.0	0,0	0.0	0,0
10/10/2022	0.0	0.0		12,0					0.0	0,0	0.0	0.0	0,0	0,0	#DIV/01
8/17/2022	0,0	0.0		10.0					0,0	0.0	0.0	0,0	0.0	0,0	#DIV/0!
9/8/2021	0.0	1.1	1.0	11.0		1.4			0.1	0.1	0.0	0.0	0,0	0.0	#DIV/0!

MN Health Based Values HRI = Health Risk Index MDH Health-Based Guidance Values (HBVs) in ppt (2022 MDH HBVs HRI Calculation: QRAA = Quarterly Running Annual Average PFOS cPFOS/15 0.50 < HRI < 1.0 PFOA 35 cPFOA/35 HRI > 1.0 PFBS 100 cPFBS/100 PFBA 7000 cPFBA/7000 PFHxS 47 cPFHxS/47 PFHxA 200 cPFHxA/200 HRI = Sum of Above c = concentration in ppt

EPA MCLs

MCL = Maximum Contaminant Level

50%-100% MCL

QRAA = Quarterly Running Annual Average

PQL = Practical Quantification Level

If result is < PQL, it is set to 0 in QRAA & HI calcs for MCLs

EPA MCLs	n ppt (ng/L)	
	2024 EPA MCL	PQL
PFOS	4,0	4,0
PFOA	4.0	4.0
PFHxS	10	3.0
HFPO-DA (GenX)	10	5.0
PFNA	10	4.0
PFBS	Use HI	3.0

HI = Hazard Index (MCL = 1)

0.50 < HI < 1.4

³A Health-Based Water Concentrations (HBWC) in p

	2024 EPA HBWC	HI Calculation
PFBS	2000	cPFBS/2000
PFHxS	10	cPFHxS/10
HFPO-DA (10	cGenX/10
PFNA	10	cPFNA/10
		HI - Sum of Above

c = concentration in ppt

PFAS Compounds

PFOS = Perfluorooctane Sulfonic Acid

PFOA = Perfluorooctanoic Acid

PFBS = Perfluorobutane Sulfonic Acid

PFBA = Perfluorobutanoic acid

PFHxS = Perfluorohexane Sulfonic Acid

PFHxA = Perfluorohexanoic acid

HFPO-DA = GenX = Hexafluoropropylene Oxide Dimer Acid

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Conversions

Date	PFOS ppt	PFOA ppt	PFBS ppt	PFBA ppt	PFHxS ppt	PFHxA ppt	HFPO-DA (Gr	PFNA ppt	MDH HRI	HRI QRAA	EPA HI	HI QRAA	PFOS QRAA	PFOA QRAA	PFHxS QRAA
6/17/2024	0	0	0	12	0	0	0	0	0.0	0.1	0,0	0.0	0.0	0.0	0.0
5/14/2024	0	2.2	1.9	17	0	6.9	0	0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
1/17/2024	0	2.6	2.3	21	0	11	0	0	0.2	0.1	0,0	0,0	0.0	0.0	0.0
8/16/2023	0	0	0	11	0	0	0	0	0,0	0.1	0,0	0.0	0,0	0,0	0.0
5/24/2023	0	0	0	11	0	0	0	0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
10/10/2022	0.0	2,5	2.5	20.0		12,0			0.2	0.1	0,0	0.0	0.0	0.0	#DIV/0!
8/17/2022	0.0	2,3	2,3	18.0		9.5			0,1	0.1	0.0	0,0	0,0	0.0	#DIV/0!
9/8/2021	0.0	1.7	1.5	14.0		4.3			0.1	0.1	0.0	0.0	0.0	0,0	#DIV/0!

MN Health Based Values

HRI = Health Risk Index

QRAA = Quarterly Running Annual Average

0.50 < HRI < 1.0 HRI > 1.0

	2022 MDH HBVs	HRI Calculation:				
PFOS	15	cPFOS/15				
PFOA	35	cPFOA/35				
PFBS	100	cPFBS/100				
PFBA	7000	cPFBA/7000				
PFHxS	47	cPFHxS/47				
PFHxA	200	cPFHxA/200				
		HRI = Sum of Above				

c = concentration in ppt

EPA MCLs

MCL = Maximum Contaminant Level

50%-100% MCL >100% MCL

QRAA = Quarterly Running Annual Average

PQL = Practical Quantification Level

If result is < PQL, it is set to 0 in QRAA & HI calcs for MCLs

	2024 EPA MCL	PQI
PFOS	4.0	4.0
PFOA	4.0	4.0
PFHxS	10	3.0
HFPO-DA (GenX)	10	5.0
PFNA	10	4.0
PFBS	Use HI	3.0

HI = Hazard Index (MCL = 1)

0.50 < HI < 1.4

PA Health-Based Water Concentrations (HBWC) in p

	2024 EPA HBWC	HI Calculation
PF8S	2000	cPFBS/2000
PFHxS	10	cPFHxS/10
HFPO-DA (10	cGenX/10
PFNA	10	cPFNA/10
		HI = Sum of About

HI = Sum of Above c = concentration in ppt

PFAS Compounds

PFOS = Perfluorooctane Sulfonic Acid

PFOA = Perfluorooctanoic Acid

PFBS = Perfluorobutane Sulfonic Acid

PFBA = Perfluorobutanoic acid

PFHxS = Perfluorohexane Sulfonic Acid

PFHxA = Perfluorohexanoic acid

HFPO-DA = GenX = Hexafluoropropylene Oxide Dimer Acid

PFNA = Perfluorononanoic acid

Conversions



SHAKOPEE PUBLIC UTILITIES **MEMORANDUM**

Greg Drent, General Manager July Joseph Adams, Engineering Director TO:

Ryan Halverson, Water Engineering Supervisor FROM:

11th Avenue Water Main Improvements Bid Award SUBJECT:

DATE: August 5, 2024

ISSUE

Staff is proposing the award of a contract to Minger Construction Co. Inc., for a 2024 SPU funded project to replace and upsize the public water main in 11th Avenue and authorization to make payment to the City of Shakopee for the 100 feet of public water main into Lions Park (the point where the first city water service connects for the log cabin), that was recently constructed as part of the Lion's Park and Sand Venture Pool Improvements.

BACKGROUND

At its regular meeting on March 4th 2024, the SPU Commission was presented with an update to the City of Shakopee's planned improvements to Lion's Park, most notably the reconstruction of the Sand Venture Pool and addition of a year-round restaurant use at the park. The existing water main serving the park is undersized and cannot provide adequate fire flows to support the proposed redevelopment and additions to Lion's Park.

The Commission approved by motion, development of construction plans and specifications and authorized bidding, to upgrade the water main along 11th Avenue to correct the existing deficient service and insufficient fire flows to the Lion's Park and Sand Venture Pool.

DISCUSSION

Construction plans and specifications were developed by SEH Inc., in coordination with SPU and City staff. The plans call for horizontal directional drilling a new 8-inch water main from the intersection of Quincy Street and 11th Avenue to the driveway entrance of Lion's Park. The



existing 6-inch main will be abandoned in place. This construction method will preserve the existing roadway and represents a more cost-effective manner to upgrade the water main to the park.

In accordance with Minnesota Statute Section 471.345 Uniform Municipal Contracting Law, staff sent out the construction plans and specifications and a request for quotations to seven local construction contractors, seeking bids for the 11th Avenue Water Main Improvements Project. The bid opening was held at 11a.m., Friday July 12th, 2024. Only one bid was received by Minger Construction Co. Inc., of Jordan, Minnesota in the amount of \$163,131.07. The engineer's estimate from the engineering consultant, SEH, INC., was \$126,703.50.

While the bid is higher than the engineer's estimate, staff feels that the bid is reasonable and represents a fair price for constructing the project as specified. Horizontal directional drilling ductile water main pipe is a specialized construction process with few local contractors able to complete this portion of the project. Additionally, the construction time frame to complete the work that was specified in the contract documents was short. This was intentional to avoid disruption to the Lion's Park operations, including Sand Venture Pool, Splash Pad and the opening of a proposed restaurant in the new building.

The City of Shakopee has since finalized construction of the underground utilities serving Lion's Park, including the 100 foot section of water main from the park entrance to point of service of the log cabin building that has always been considered public water main. The final construction costs for that portion of work amount to \$68,010.01. This work was originally estimated to cost approximately \$75,000.

PROJECT BUDGET

Low Bid (Minger Construction Co.)	\$ 163,131.07
10% Construction Contingency	\$ 16,000.00
Engineering (SEH Inc.)	\$ 15,000.00
City Project (SPU portion of water main)	\$ 68,010.01
Total Proposed Project Cost	\$ 262,141.08

FUNDING

Within the 2024 Capital Projects budget are two line items listed under the Reconstruction Fund that provide some of the necessary resources for a successful project. First there is \$80,000 for correcting deficient services and additionally there is \$50,000 for a yet to be determined water main reconstruction project. None of those funds are committed yet to a specific project in 2024. Staff is proposing the combined total of \$130,000 be dedicated to the SPU cost of the proposed projects. This leaves an estimated budget shortfall of approximately \$132,141.08.



Currently, the Reconstruction Fund is healthy with a balance slightly over \$1,900,000. Water customers pay a usage rate into the Reconstruction Fund for planned expenses and this fee can be adjusted by the Commission (and is usually annually) but was not changed for 2024. It is likely this rate may be adjusted downward in the future as the City is not proposing as many full depth street reconstruction projects as in the past. The Commission's past philosophy has been to compare expected expenses vs. revenues over a rolling five year period and adjust the rate to keep a positive fund balance equal to an average year's expenses.

REQUESTED ACTION

Staff requests the Commission motion to award the construction contract for the 11th Avenue Water Main Improvement to Minger Construction Co. Inc., in the amount of \$163,131.07, a 10% construction contingency budget and authorize reimbursement to the City of Shakopee in the amount of \$68,010.01 for the 100 foot portion of the public water main constructed as part of the City park project.



SHAKOPEE PUBLIC UTILITIES MEMORANDUM

TO: Greg Drent, General Manager A

FROM: Joseph D. Adams, Planning & Engineering Director

SUBJECT: Xcel Energy Notice of Blue Lake Substation Upgrade

DATE: July 24, 2024

ISSUE

We have received notice from Xcel Energy of their intention to replace both existing 25 MVA power transformers in their Blue Lake substation beginning this fall with unit 2. Unit 1 may be replaced in the next couple of years. The new transformers will be 50 MVA capacity and that results in potential for increased fault current levels on our distribution system.

BACKGROUND

SPU has two existing 13.8 kV feeder circuits exiting from Xcel Energy's Blue Lake substation, SPU's BL-20 and BL-22. BL-20 was energized in 1976 and BL-22 in 1992. Per a since expired facilities agreement, SPU continues to limit its combined demand on the two feeder circuits to 8.3 MVA. And SPU continues to pay a \$0.47 monthly transformation charge and a nominal monthly O&M fee to Xcel Energy for having SPU facilities energized in their substation.

The original facilities agreement expired when SPU ceased purchasing wholesale power from Xcel Energy and attempts to create a replacement agreement were not successful.

DISCUSSION

SPU purchased a parcel located along Hansen Avenue at Maras Street for the purpose of constructing a new substation, East Shakopee, as soon as 2027. The SPU capacity in Xcel Energy's Blue Lake substation may be replaced when this new facility is energized. Until then we are reliant on the two circuits, BL-20 and BL-22 to serve load in east Shakopee and back up other circuits during contingencies.



Staff has engaged Leidos' Kevin Favero to analyze the vulnerability of SPU's distribution facilities due to the increased available fault current and to make recommendations. The possibilities range from no effect to installing a device called a "line reactor" on each circuit to limit downstream fault current to levels within the ratings of the existing distribution facilities. Kevin would also estimate the cost of any recommended improvements. When Kevin's report is completed, staff will bring the results back for any necessary action and budget impact.

REQUESTED ACTION

None currently, this is an informational item.