



# **BOARD OF WATERWORKS COMMISSIONERS AGENDA**

**September 21, 2026 at 3:30 PM**

**Water Utility Admin Office, 72 Park Avenue, Sheboygan WI**

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Persons with disabilities who need accommodations to attend this meeting should contact the Sheboygan Water Utility, (920) 459-3805. Persons other than commission, committee, and board members who wish to participate remotely shall provide notice to the Utility at 920-459-3805 at least 24 hours before the meeting so that the person may be provided a remote link for that purpose.

## **OPENING OF MEETING**

1. Pledge of Allegiance

## **MINUTES**

2. Approval of Minutes: August 17, 2026 meeting

## **REPORTS**

- [3.](#) Financial reports and approval of vouchers
- [4.](#) Superintendent's report including operations, construction-maintenance, and customer relations/fiscal

## **ITEMS FOR DISCUSSION AND POSSIBLE ACTION**

5. Approval of 2027 Water Utility budget and transmittal to Council
6. Update on health insurance renewal plans
7. Approval of feasibility study on Sheboygan River crossing alternatives
- [8.](#) Update on 2026 lead and copper testing results
9. Update on review of possible future WTP sites
- [10.](#) Approval of update in water meter setting specifications
- [11.](#) Approval of purchase of replacement 200 hp motor VFD at Erie Ave pump station

## **PERSONNEL**

## **NEXT MEETING DATE**

12. Next scheduled meeting: October 19, 2026

## **ADJOURN**

### 13. Motion to Adjourn

**In compliance with Wisconsin's Open Meetings Law, this agenda was posted in the following locations more than 24 hours prior to the time of the meeting:**

City Hall • Mead Public Library  
Sheboygan County Administration Building • City's website



## REPORT OF BILLING

AUGUST 2026

|                                  | <u>2026</u>         | <u>2025</u>         | <u>Increase or<br/>(Decrease)</u> |
|----------------------------------|---------------------|---------------------|-----------------------------------|
| <b><u>Quarterly Metered*</u></b> |                     |                     |                                   |
| (Dist III - south of Union Ave)  |                     |                     |                                   |
| Residential                      | 326,220.29          | 324,348.04          | 1,872.25                          |
| Multi-Family                     | 35,964.95           | 38,872.04           | (2,907.09)                        |
| Commercial                       | 58,915.38           | 53,485.76           | 5,429.62                          |
| Industrial                       | 32,486.57           | 31,198.29           | 1,288.28                          |
| Public                           | <u>18,114.14</u>    | <u>15,195.19</u>    | <u>2,918.95</u>                   |
| <b>Subtotal</b>                  | <b>471,701.33</b>   | <b>463,099.32</b>   | <b>8,602.01</b>                   |
| Public Fire Protection           | 82,019.80           | 81,408.66           | 611.14                            |
| Monthly Metered                  | <u>588,106.07</u>   | <u>551,767.40</u>   | <u>36,338.67</u>                  |
| <b>Sheboygan Net</b>             | <b>1,141,827.20</b> | <b>1,096,275.38</b> | <b>45,551.82</b>                  |
| Sheboygan Falls                  | 92,603.98           | 83,741.77           | 8,862.21                          |
| Kohler                           | <u>56,623.26</u>    | <u>53,385.22</u>    | <u>3,238.04</u>                   |
| <b>Total</b>                     | <b>1,291,054.44</b> | <b>1,233,402.37</b> | <b>57,652.07</b>                  |

\* Billing for scheduled district only for the three preceding months usage.

Total accumulative billing for 2026 is \$8,787,790.83. An increase of \$438,409.02 from 2025 accounted for as follows:

|                 | <u>2026-Total Year to Date</u> |
|-----------------|--------------------------------|
| Sheboygan       | 378,891.39                     |
| Sheboygan Falls | 23,249.16                      |
| Kohler          | <u>36,268.47</u>               |
|                 | 438,409.02                     |

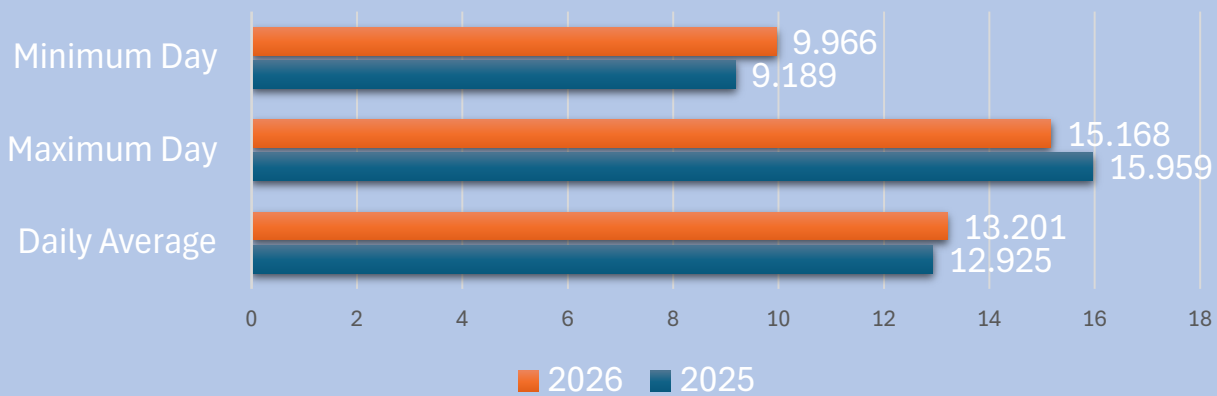
Total bills mailed August, 2026: 6,770

|                  |              |                |            |
|------------------|--------------|----------------|------------|
| Residential      | 6,167        | Wholesale      | 5          |
| Multi-Family     | 93           | Multi-Family   | 12         |
| Commercial       | 328          | Commercial     | 20         |
| Industrial       | 45           | Industrial     | 70         |
| Public           | 27           | Public         | 3          |
| <b>Quarterly</b> | <b>6,660</b> | <b>Monthly</b> | <b>110</b> |

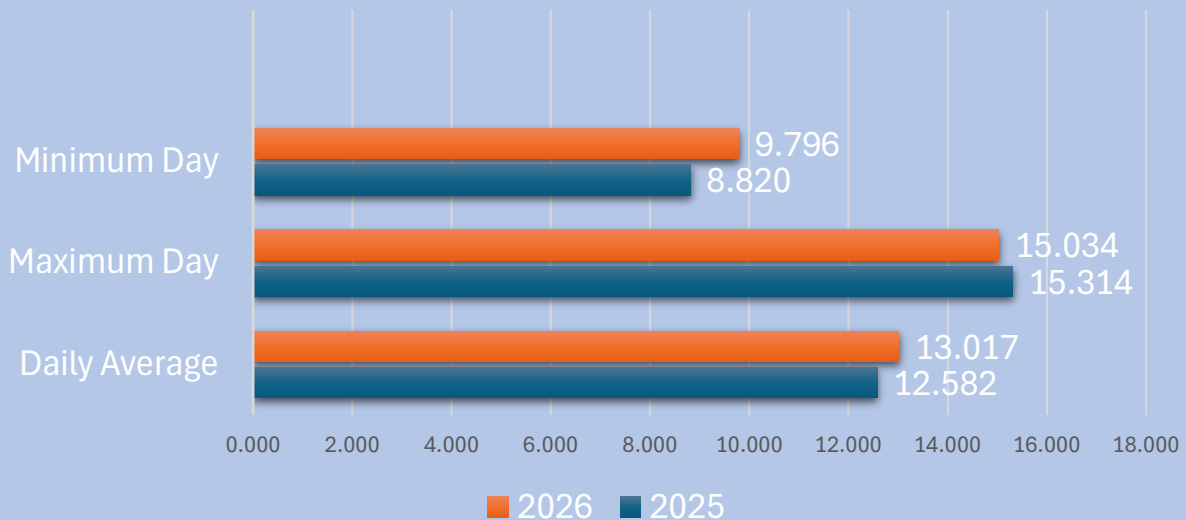
# OPERATIONS MONTHLY REPORT

## PUMPING

### Raw Water Pumpage (MGD)



### Finished Water Pumpage (MGD)



**2,839,440,000**  
Gallons Pumped YTD

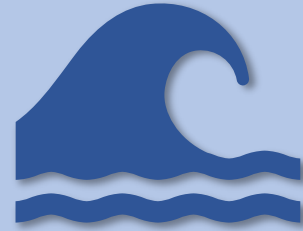
AUGUST  
2026

# OPERATIONS MONTHLY REPORT

## WATER QUALITY

### Raw Water

|                                  | 2025  | 2026  |
|----------------------------------|-------|-------|
| Turbidity                        | 0.7   | 1     |
| pH                               | 8.28  | 8.25  |
| Alkalinity                       | 108.5 | 107.9 |
| Temperature                      | 59.7  | 56.2  |
| Positive Bacteriological Testing | 1.9   | 6.3   |



### Finished Water

|                         | 2025  | 2026  |
|-------------------------|-------|-------|
| Turbidity               | 0.044 | 0.044 |
| pH                      | 7.72  | 7.69  |
| Alkalinity              | 103   | 102.1 |
| Temp.                   | 61.1  | 56.1  |
| Chlorine Residual       | 0.94  | 0.88  |
| Fluoride Residual       | 0.65  | 0.65  |
| Orthophosphate Residual | 1.5   | 1.6   |
| Bacteriological Testing | 0     | 0     |

## ADDITIONAL ACTIVITIES

- ◆ Routine Plant Operations
- ◆ Routine Plant and Remote Site Maintenance
- ◆ Annual WDNR Lab Testing and Monitoring
- ◆ Filter Project Rehab Project Work
- ◆ Safety Equipment Checks
- ◆ Property grounds, cleaning, and building maintenance
- ◆ Safety program management and training
- ◆ Chemical Systems Maint
- ◆ Shift Coverage

AUGUST  
2026

# DISTRIBUTION MONTHLY REPORT

## WATER MAIN

Water Main Installed

**39.5'**

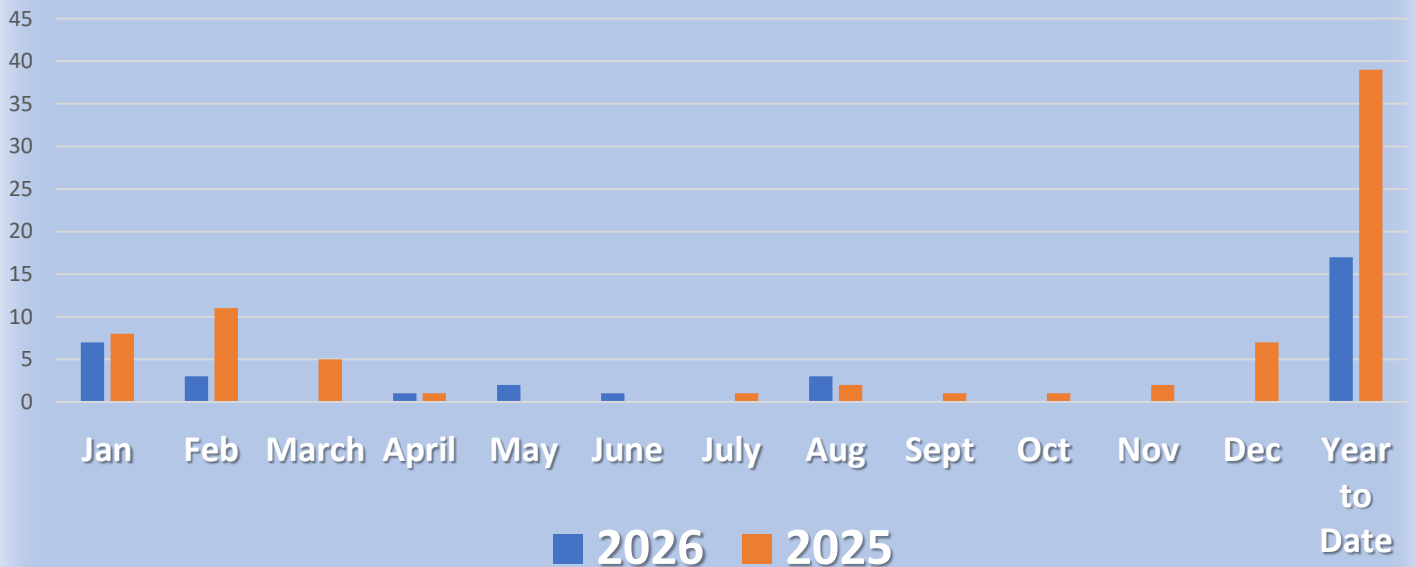
YTD

Street, Curb, and  
Sidewalk Restoration

**5,982**

Cu Ft  
YTD

## Water Main Breaks



## HYDRANTS YEAR TO DATE

**235**

Inspected

**8**

Installed

## VALVES YEAR TO DATE

**795**

Exercised

**1**

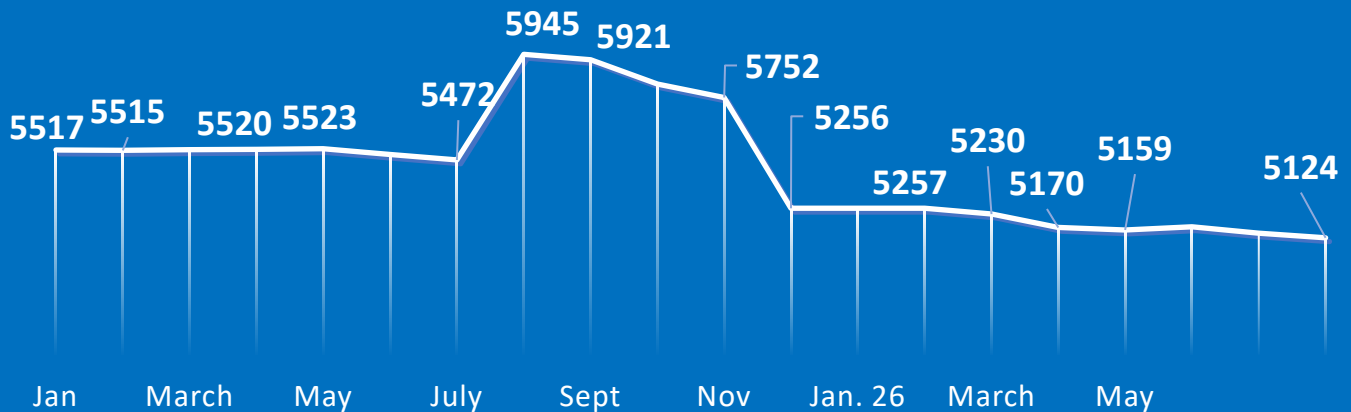
Installed

**AUGUST  
2026**

# DISTRIBUTION MONTHLY REPORT

## LEAD SERVICE LINE INFORMATION

### LEAD SERVICE LINES REMAINING



# 300

2026 Replacement  
Goal

# 63%

2026 Replacement  
Goal Completed

# 141

YTD WIDNR Lead  
Brochures  
Distributed

## ADDITIONAL ACTIVITIES

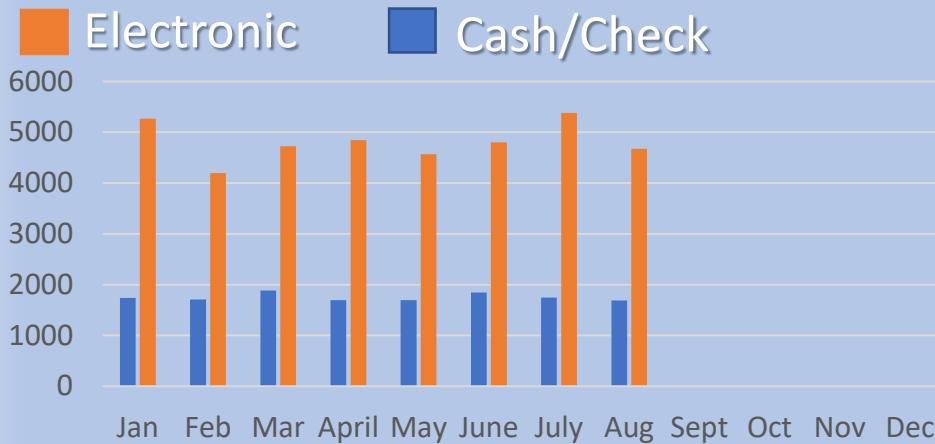
- ◆ Distribution staff worked with public works to lower watermain in conflict with storm sewer at Evans Street and Erie Avenue.
- ◆ Engineering staff completed ESRI forms and dashboard to enable digital project management and inspection capabilities.
- ◆ Contractor to begin watermain project on Clara Avenue and Julson Court in October.
- ◆ Continued water quality flushing throughout the distribution system.
- ◆ Watermain break locations: 1240 Plath Ct, 630 S 13th Street, N Franklin Street and Center Ave.



AUGUST  
2026

# CUSTOMER RELATIONS & FISCAL SUMMARY

## PAYMENT TRANSACTIONS



## PAPERLESS ENROLLMENT

**5,318**

## CUSTOMER TRANSFERS

**199**

## COLLECTIONS

### District 1

**\$1,235,629**

Total Billed

**\$248,968**

Outstanding  
After Due Date

**1143**

Past Due Letters Mailed

**399**

Owner/Landlord Letters  
Mailed

**\$136,300**

Outstanding At  
Month End

## METERS



**101**

Meters

**148**

Meters Tested

Installed/Replaced

## CROSS CONNECTION



**87**

Inspections Completed

## WEBSITE VISITORS

**4,254**



**AUGUST  
2026**

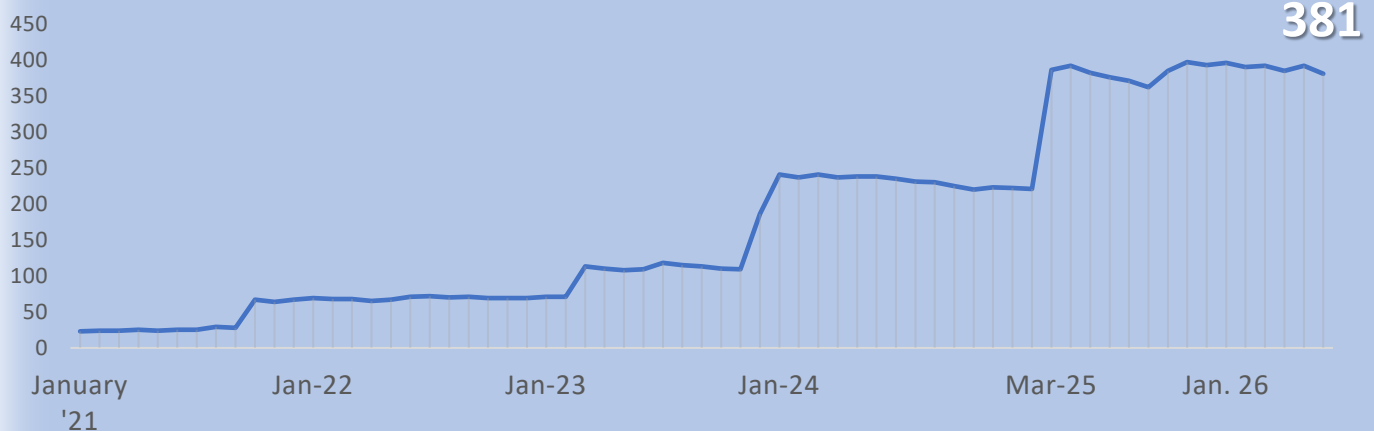
# CUSTOMER RELATIONS & FISCAL SUMMARY

## LEAK ALLOWANCES ISSUED

**2** Customer Requests      **140** CCF Allowed @ Reduced Rate



## LEAD SERVICE LINE REPLACEMENT LOANS



## ADDITIONAL CR/F ACTIVITIES

- ◆ Service Techs (STs) continue their work replacing meters due to age, and due to LSL replacements.
- ◆ Conducted small and large meter testing.
- ◆ Service Techs read meters for District 3 and Monthly.
- ◆ Customer Applications for LSL RFQ 3.

AUGUST  
2026

## Memorandum

Date: September 11, 2026  
To: Joe Trueblood, Superintendent  
From: Bill Swearingen, Operations Supervisor  
Subject: 2026 Lead and Copper Monitoring Update

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The Utility has completed its required 2026 lead and copper monitoring. A total of 30 customer sampling sites were tested as part of the monitoring period. The Wisconsin Department of Natural Resources (WDNR) has reviewed the sampling results and confirmed that the Utility has completed its 2026 lead and copper sampling requirements.

The final 90th percentile results were:

Lead: 2.2 µg/L

Copper: 19.7 µg/L

These 90th percentile results were below the applicable action levels for lead and copper.

In addition to completing the required sampling, all customer notifications were mailed within the required 30-day notification period. The Utility has completed the required 2026 lead and copper sampling and customer notification requirements, with no lead or copper 90th percentile action level exceedances.

Looking ahead, Wisconsin has incorporated the federal Lead and Copper Rule Improvements (LCRI) into NR 809, with the new LCRI requirements having a compliance date of November 1, 2027. Utility staff will continue preparing for these requirements, including the upcoming lead sampling requirements for elementary schools and licensed/certified child care facilities.

### Final- 2026 Lead and Copper

| No. | Sample Site | Service L/C | Sample Location | Tier | Previous Sample Site | LEAD Results | Copper Results |
|-----|-------------|-------------|-----------------|------|----------------------|--------------|----------------|
| 1   | LC12        | L/C         | Kitchen Faucet  | 1    | Yes                  | 0.69         | 3              |
| 2   | LC15        | L/C         | Kitchen Faucet  | 1    | Yes                  | 0.41         | 9              |
| 3   | LC 18       | L           | Kitchen Faucet  | 1    | Yes                  | 0.95         | 1.3            |
| 4   | LC28        | L           | Kitchen Faucet  | 1    | Yes                  | 0.28         | 7.5            |
| 5   | LC31        | L           | Kitchen Faucet  | 1    | Yes                  | 0.20         | 0.97           |
| 6   | LC33        | L           | Kitchen Faucet  | 1    | Yes                  | 1.40         | 8.4            |
| 7   | LC35        | L           | Kitchen Faucet  | 1    | Yes                  | 2.40         | 17.4           |
| 8   | LC36        | L           | Kitchen Faucet  | 1    | Yes                  | 3.10         | 4.8            |
| 9   | LC37        | L           | Kitchen Faucet  | 1    | Yes                  | 1.60         | 1.9            |
| 10  | LC40        | L           | Kitchen Faucet  | 1    | Yes                  | 1.20         | 2.8            |
| 11  | LC41        | L           | Kitchen Faucet  | 1    | Yes                  | 1.60         | 12.5           |
| 12  | LC42        | L           | Kitchen Faucet  | 1    | Yes                  | 0.49         | 41.4           |
| 13  | LC45        | L           | Kitchen Faucet  | 1    | Yes                  | 1.30         | 4.8            |
| 14  | LC48        | L           | Kitchen Faucet  | 1    | Yes                  | <0.085       | 3.3            |
| 15  | LC50        | L           | Kitchen Faucet  | 1    | Yes                  | 1.70         | 19.7           |
| 16  | LC51        | L           | Kitchen Faucet  | 1    | Yes                  | 0.28         | 7.8            |
| 17  | LC 52       | L           | Kitchen Faucet  | 1    | Yes                  | 0.18         | 1.2            |
| 18  | LC55        | L           | Kitchen Faucet  | 1    | Yes                  | 0.60         | 5.5            |
| 19  | LC56        | L           | Kitchen Faucet  | 1    | Yes                  | 0.84         | 6.8            |
| 20  | LC57        | L           | Kitchen Faucet  | 1    | Yes                  | 0.29         | 1.9            |
| 21  | LC 58       | L           | Kitchen Faucet  | 1    | no                   | 1.00         | 10.3           |
| 22  | LC 59       | L           | Kitchen Faucet  | 1    | no                   | 0.87         | 4.1            |
| 23  | LC 60       | L           | Kitchen Faucet  | 1    | no                   | 0.62         | 15.6           |
| 24  | LC63        | L           | Kitchen Faucet  | 1    | no                   | 2.20         | 10.3           |
| 25  | LC67        | L           | Kitchen Faucet  | 1    | Yes                  | 0.61         | 6.8            |
| 26  | LC 68       | L           | Kitchen Faucet  | 1    | Yes                  | 0.61         | 0.75           |
| 27  | LC69        | L           | Kitchen Faucet  | 1    | no                   | 0.21         | 0.92           |
| 28  | LC 71       | L           | Kitchen Faucet  | 1    | no                   | <b>57.30</b> | 120            |
| 29  | LC 72       | L           | Kitchen Faucet  | 1    | no                   | 1.50         | 61.3           |
| 30  | LC 73       | L           | Kitchen Faucet  | 1    | no                   | 0.18         | 2.5            |

### 90th Percentile Results for Lead and Copper

|    | LEAD   | Copper |
|----|--------|--------|
| 30 | 57.3   | 120    |
| 29 | 3.1    | 61.3   |
| 28 | 2.4    | 41.4   |
| 27 | 2.2    | 19.7   |
| 26 | 1.7    | 17.4   |
| 25 | 1.6    | 15.6   |
| 24 | 1.6    | 12.5   |
| 23 | 1.5    | 10.3   |
| 22 | 1.4    | 10.3   |
| 21 | 1.3    | 9      |
| 20 | 1.2    | 8.4    |
| 19 | 1      | 7.8    |
| 18 | 0.95   | 7.5    |
| 17 | 0.87   | 6.8    |
| 16 | 0.84   | 6.8    |
| 15 | 0.69   | 5.5    |
| 14 | 0.62   | 4.8    |
| 13 | 0.61   | 4.8    |
| 12 | 0.61   | 4.1    |
| 11 | 0.60   | 3.3    |
| 10 | 0.49   | 3      |
| 9  | 0.41   | 2.8    |
| 8  | 0.29   | 2.5    |
| 7  | 0.28   | 1.9    |
| 6  | 0.28   | 1.9    |
| 5  | 0.21   | 1.3    |
| 4  | 0.20   | 1.2    |
| 3  | 0.18   | 0.97   |
| 2  | 0.18   | 0.92   |
| 1  | <0.085 | 0.75   |

90th Percentile

# Meter Setting Specifications Update

**September 2026**

**To: Board of Water Commissions**

**From: Tamara Scheuren, CRF Supervisor and Eric Radloff, Lead ST**

Staff is requesting Board approval to update the Residential and Commercial/Industrial Meter Setting Specifications to clarify the required location of the water meter inlet valve.

Wisconsin Plumbing Code requires the building control valve to be located within three feet of where the water service enters the building and upstream of the water meter; however, neither the plumbing code nor the Utility's current specifications establish a maximum distance between the building control valve and meter setting.

To provide clear and consistent guidance for contractors and property owners and to limit the amount of unmetered piping within a building, staff recommends requiring the meter inlet valve to be installed within six feet of the building control valve. This requirement would be added to both the Residential and Commercial/Industrial Meter Setting Specifications.

Please see the attached Meter Setting Specifications and proposed additions in yellow.

# Meter Setting Specifications

## Residential

The following specifications provide consistent standards for water meter settings in the City of Sheboygan. Based on information obtained from American Water Works Association (AWWA) standards, Badger Meter Inc., and Master Meter Inc., these specifications help to ensure the meter's accuracy and the safety of workers who must maintain meters.

- **Horns:** Meter horns are required on all residential installations, including single and multiple dwelling units. Horns must not have built-in backflow prevention. Meter horns are not required on existing installations unless the entire meter setting must be rebuilt. Meter horns have a 7 1/2" inch laying length.
- **Valves:** All meter settings must have two valves (inlet and outlet). Existing installations with only a functional inlet valve are acceptable. If an existing setting has two valves in need of replacement, then the setting will need to be rebuilt, including the addition of a horn. Outlet valves shall not be installed closer than 12" from the meter horn flanges. Commercial settings must have a lockable in-valve, minimum 3/4", plumbed directly to the horn. Valves with removable handles are not acceptable. *The inlet valve must be installed within 6 feet of the building control valve.*
- **Support:** All meter horns shall be full pipe clamped to the wall or floor within 6" inches of the inlet and outlet of the horn. All support hardware must be compatible material to reduce the potential for galvanic action with the piping. Support hardware cannot distort, cut, or abrade the piping and must be sufficiently rigid to support the piping and its contents. Radiator clamps and pipe rests are not acceptable means of support.
- **Clearance:** All meter settings shall maintain 18" of unobstructed space from the floor to center pipe of the meter. The center pipe of the meter shall be no higher than 48" from the floor. A minimum of 12" of unobstructed space must be maintained above the meter lens.
- If multiple meters are stacked, 24" of unobstructed space shall be maintained between the bottom meter, center of pipe and the top meter, center of pipe. If multiple meters are parallel or in a row, 6" of space must be maintained between each meter horn. 36" of unobstructed space must be maintained in front of the meter setting.

**All water meters must be installed by Water Utility staff.** Contact the Utility meter shop at (920) 459-3814 at least 24 hours in advance to schedule the installation.

# Meter Setting Specifications

## Commercial

The following specifications provide consistent standards for water meter settings in the City of Sheboygan. Based on information obtained from American Water Works Association (AWWA) standards, Badger Meter Inc., and Master Meter Inc., these specifications help to ensure the meter's accuracy and the safety of workers who must maintain meters.

- **Valves:** All meter settings must have two new valves (inlet and outlet). In-valves that are 3/4" and 1" in size must be lockable ball valves (locking wing style) and plumbed directly to the meter horn. Valves with removable handles are not accepted. Outlet valves shall not be installed closer than 12" from the meter horn flanges. **The inlet valve must be installed within 6 feet of the building control valve.**
- **Laying lengths:** All 1 1/2" and larger disc, turbine, and compound meters must have a minimum of ten (10) pipe diameters upstream of straight and unobstructed pipe (no elbows, tees, reducers, or valves) and five (5) pipe diameters downstream. Mag meters (Model M2000) and E-Series meters must have a minimum of five (5) pipe diameters upstream of the meter and five (5) pipe diameters downstream. E-Series meters also require a test tee with a 2" outlet and ball valve, after the downstream lay lengths.
- **Flanges:** Flanges for 1 1/2" and 2" meter settings must be brass. Victaulic style flanges and fittings can be used except that the flanges at the meter must be flat flanges. The Utility only stocks flat, drop-in style gaskets.
- **Support:** All meter settings shall be supported from the wall or floor with full pipe clamps within 6" of the meter flange, but no closer than 3" from the meter flange to allow adequate support and wrenching space. All support hardware must be compatible material to reduce the potential for galvanic action within the piping. Support hardware cannot distort, cut, or abrade the piping and must be sufficiently rigid to support the piping and its contents. Radiator clamps and pipe rests are not acceptable means of support.
- **Clearance:** All meter settings must maintain a minimum of 18" of unobstructed space from the floor to center pipe of the meter. The center pipe of the meter shall be no higher than 48" from the floor. A minimum of 12" from the wall, or any other obstruction, around the meter flange must be maintained. Bypasses can be built tight to the wall, but 12" of clearance must be maintained between the bypass pipe and meter flange. Bypass valves shall not be more than 60" above the floor. 18" of unobstructed space must be maintained above the meter lens. 36" of unobstructed space must be maintained in front of the meter setting (including valves).
- If multiple meters are stacked, 24" of unobstructed space shall be maintained between the bottom meter, center of pipe and the top meter, center of pipe. If multiple meters are parallel or in a row, 6" of space must be maintained between each meter horn. 36" of unobstructed space must be maintained in front of the meter setting.

**All water meters must be installed by Water Utility staff.** Contact the Utility meter shop at (920) 459-3814 at least 24 hours in advance to schedule the installation. **Up to 60 days might be necessary to order and receive large meters.**

## Badger Meter Purchase

**September 2026**

**To: Board of Water Commissions**

**From: Eric Radloff, Lead Service Technician & Tamara Scheuren, CRF Supervisor**

This requisition is for budgeted Orion's used in our meter change out program and Orion change out program.

# REQUISITION

CITY OF SHEBOYGAN BOARD OF WATER COMMREQUISITION DATE 08/31/2026

Item 10.

VENDOR: BADGER METER INC  
4545 W BROWN DEER RD  
P. O. BOX 245036  
MILWAUKEE WI 53224

SHIP TO 72 Park Ave Sheboygan WI 53081

DATE REQUESTED BY 09/23/2026

REQUISITION NO. 5314

| QTY   | ITEM # | INVENTORY # | DESCRIPTION                        | UNIT PRICE | TOTAL PRICE |
|-------|--------|-------------|------------------------------------|------------|-------------|
| 360   |        |             | BMI Part No: 102-3383 M25 ME ORION | 218.40     | 78,624.00   |
|       |        |             |                                    |            |             |
|       |        |             |                                    |            |             |
|       |        |             |                                    |            |             |
|       |        |             |                                    |            |             |
|       |        |             | Total Freight Misc                 |            |             |
| NOTE: |        |             |                                    |            |             |
| TOTAL |        |             |                                    |            | 78,624.00   |

☐ CALL IN PURCHASE ORDER NUMBER PREPARED BY EricR  
PHONE NO. 800-616-3837

☐ FAX PURCHASE ORDER REQUESTED BY ER  
FAX NUMBER: 888-371-5982

☐ SEND ORIGINAL PURCHASE ORDER TO VENDOR APPROVED BY

☐ ALREADY ORDERED

## Memorandum

Date: September 11, 2026  
 To: Joe Trueblood, Superintendent  
 From: Bill Swearingen, Operations Supervisor  
 Subject: Erie Avenue Pump Station VFD Replacement

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The Erie Avenue Pump Station was constructed in 2007/2008 and includes a 200-horsepower variable frequency drive (VFD) used to control pump#1 of the station's pump/motor. The existing Square D ATV61 VFD is original to the pump station and has been in service for approximately 18 years.

In addition to the drive now being obsolete, Utility staff has experienced multiple faults with the VFD requiring troubleshooting and operational attention. Based on the recurring faults and troubleshooting/investigated work performed, the existing drive is in need of replacement. Given the age and obsolescence of the equipment, continued repair and troubleshooting is no longer considered a reliable long-term approach.

Specht Electric & Communications provided a proposal to replace the existing VFD with a new Square D ATV630 200-horsepower VFD. The work includes disconnecting and removing the existing drive, installing the new VFD within the existing cabinet, modifying the necessary power and control wiring, and providing Square D factory startup services. Factory startup will extend the manufacturer's warranty from 18 months to 60 months.

I would like to recommend proceeding with pump #1 VFD replacement at the Erie Avenue Pump Station.

2027 Budget Item:

\$50,000.00

Cost

Total: \$30,928.00

Sincerely,

*Bill Swearingen*

Operations Supervisor

Sheboygan Water Utility

920-459-3812

**SPECHT  
ELECTRIC****& Communications****SHEBOYGAN 457-7321****FOND DU LAC 923-6796**

3212 Wilgus Ave., Sheboygan, Wisconsin 53081  
(920) 457-7321 • Fax (920) 457-3886

571 Van Dyne Rd., Fond du Lac, Wisconsin 54937  
(920) 923-6796 • Fax (920) 923-6820

September 1, 2026

Sheboygan Water Utility  
72 Park Ave  
Sheboygan, WI 53081  
Attn: Bill Swearingen

RE: 4024 Erie Ave 200hp Pump Motor VFD Replacement  
Quote #2026-SWU-170

Bill,

We offer a quote of \$30,928.00 for the following scope of work.

- Disconnect and remove the existing obsolete ATV61 drive.
- Provide and install a new Square D ATV630 200 hp VFD in the existing cabinet.
- Modify existing power and control wiring to the new drive.
- Provide Square D start up services when ready. Requires a 3-week notice.
- Factory start up extends the 18-month warranty to 60 months.
- Current lead time for the drive is 8 weeks.

Due to the uncertainty about material costs and tariffs, this quote is valid for 30 days and can be reassessed at that time. Any change in the scope above will adjust the final project cost. No premium time is included unless stated above. Payment terms are within 30 days Due Net.

If you have any questions, please feel free to contact me at any time.

Sincerely,  
SPECHT ELECTRIC & COMMUNICATIONS



Andy Shircel  
Estimator

AS:dlj