



## *Water Works and Lighting Commission*

*221 16<sup>th</sup> Street South P.O. Box 399 Wisconsin Rapids, WI 54495-0399 715/423-6300 FAX: 715/423-2831*

### **AGENDA**

There will be a Regular Meeting of the Water Works and Lighting Commission in the conference room on Wednesday, January 11, 2023, at 2:00 PM.

Listed below is the agenda for this meeting.

1. Call to order
2. Approval, additions, or corrections to the minutes of the following meeting
  - 2.1. Regular Commission Meeting held December 14, 2022
  - 2.2. Special Commission Meeting held December 19, 2022
3. Action items
4. Department updates
  - 4.1. Safety Committee
  - 4.2. Line Superintendent
  - 4.3. Water Department Operations
  - 4.4. Customer Support Supervisor
  - 4.5. Director of Finance
  - 4.6. Information Systems Administrator
  - 4.7. Conservation Manager
  - 4.8. Electrical Engineer
  - 4.9. Director of Engineering & Electric Operations
  - 4.10. General Manager
5. Review of accounts payable
6. Adjourn

*If given 72 hours' notice, efforts will be made by the General Manager's office to accommodate the needs of disabled individuals through sign language interpreters and other auxiliary aids.*

## Regular Meeting of the Water Works and Lighting Commission Wednesday, December 14, 2022

### **There were present:**

Commissioner Jay Bemke  
Commissioner John Bergin  
Commissioner John Harper  
Commissioner Rick Merdan  
Commissioner Jeff Penzkover

Also in attendance: Jem Brown, Roxanne Gronski, Jeff Kuhn, Todd Weiler, Josh Elliott, Lynn Schroer, Dale Scheunemann, Adam Breunig, Shawn Reimer, Matt Stormoen, Tyler Sneen, and Sean Wall.

### **1. Call to Order**

Acting Chairman Rick Merdan called the meeting to order at 2:00 PM and turned the meeting over to Acting Secretary John Bergin to call for the reorganization of officers.

#### **1.1 Reorganization of officers**

Acting Secretary John Bergin called for nominations for the position of Chairperson.

Jay Bemke nominated John Bergin to serve as Chairperson of the Water Works and Lighting Commission. Nominations were called three times and then closed. There were no other nominations. There was a motion made by Jay Bemke, seconded by Rick Merdan, and carried to cast a unanimous vote to elect John Bergin as Chairperson of the Water Works and Lighting Commission. There were no nay votes recorded.

Chairperson John Bergin continued the meeting and called for nominations for the position of Secretary. John Harper nominated Rick Merdan to serve as secretary of the Water Works and Lighting Commission. Nominations were called three times and then closed. There were no other nominations. There was a motion made by John Harper, seconded by Jay Bemke, and carried to cast a unanimous vote to elect Rick Merdan as Secretary of the Water Works and Lighting Commission. There were no nay votes recorded.

## **2. Approval, additions or corrections to the minutes of the following meeting**

### **2.1 Regular Commission Meeting held November 9, 2022**

There was a motion made by John Harper, seconded by Rick Merdan, and carried to approve the minutes of the Regular Commission Meeting held on November 9, 2022, and to place them on file. There were no nay votes recorded.

## **3. Action items**

**3.1** There were no action items.

## **4.0 Department updates**

### **4.1 Safety Committee Report**

The commissioners reviewed the November safety committee report and the safety coordinator's monthly report. Sean Wall answered questions regarding the recent emergency action plan training. This training gives employees hands-on fire extinguisher experience along with training on how to remain safe in the event of an emergency event such as a tornado, bomb threat, active shooter.

### **4.2 Line Superintendent's Report**

This report was reviewed and discussed. Josh Elliott answered questions regarding the number of trouble slips, work orders and call-ins for December.

### **4.3 Water Department Operations Report**

This report was reviewed and the November water projects were discussed. Dale Scheunemann took a few minutes to announce that this would be his last commission meeting as he will be retiring at the end of December after 30 years with Water and Light; the last 12 years of which were as Water Superintendent. Dale stated that he has enjoyed his time here and wanted to say thank you to the commission.

### **4.4 Customer Support Supervisor's Report**

This report was reviewed and discussed. Lynn expanded on the meeting with the Wisconsin Rapids Area Property Landlords held on December 12<sup>th</sup>. This meeting was to discuss water disconnections and give an update on the tax roll for 2022. Lynn stated that she felt the meeting went extremely well and helped with the Utility/landlord relationship.

#### **4.5 Director of Finance's Report**

This report was reviewed and there was a lengthy discussion regarding the financial statements. Jeff answered questions regarding the RFP for electric locating services that was recently put out for bids. Jeff stated that we will have a contract in place before the current contract expires so there will be no interruption in service.

#### **4.6 Information System's Administrator's Report**

This report was reviewed and Matt Stormoen answered questions regarding Microsoft licensing and the possibility of migrating our e-mail system to the Microsoft cloud platform next year.

#### **4.7 Conservation Manager's Report**

This report was reviewed and discussed. Shawn Reimer answered questions regarding an on-site visit with Farmland Management Cranberry Marsh. Shawn stated that we again sponsored the nationally recognized National Theatre for Children. This program delivers energy conservation education to elementary school students, teachers and family members through a live, in-school assembly platform.

#### **4.8 Electrical Engineer's Report**

This report was reviewed and discussed. Todd Weiler answered questions regarding the retention tank automation programming and the High School Sub fiber repair.

#### **4.9 Director of Engineering & Electric Operations**

This report was reviewed and discussed. Todd Weiler stated that he attended the monthly Great Lakes Utility meeting and answered questions regarding GLU's Lakeswind Project.

#### **4.10 General Manager's Report**

This report was reviewed and discussed. Jem Brown answered questions regarding a meeting that was held with McMillan Library's director to discuss their solar project.

### **5. Review of accounts payables**

A listing of all invoices and checks covering November was provided to the

commission for review.

## **6. Adjourn**

The Commission thanked Dale Scheunemann for his years of service to our utility and wished him years of happy retirement. There was a motion made by Rick Merdan, seconded by John Harper, and carried to adjourn at 2:35 PM. No nay votes were recorded.

Respectfully submitted,

Rick Merdan, Secretary

Special Meeting of the Water Works and Lighting Commission  
Monday, December 19, 2022

There were present:

Commissioner Jay Bemke  
Commissioner John Bergin  
Commissioner John Harper  
Commissioner Rick Merdan  
Commissioner Jeff Penzkover

Also present: Jem Brown

**1. Call to Order**

Chairperson Tom Nowak called the meeting to order at 9:00 AM.

**2. Consideration of adjournment into closed session pursuant to Wisconsin State Statute 19.85(1)(c) for purposes of considering employment, compensation, and performance evaluation data of a public employee over which the governmental body has jurisdiction. Performance evaluations of employees.**

Upon unanimous roll call vote the commission adjourned into closed session to discuss performance evaluations.

**3. The commission will return to open session**

There was a motion made by John Harper, seconded by Rick Merdan, and carried to return to open session. No nay votes were recorded.

**4. Possible action on items discussed in closed session.**

After discussion there was a motion made by Rick Merdan, seconded by John Harper, and carried to implement compensation adjustments based upon performance and utility industry compensation surveys. No nay votes were recorded.

**5. Adjourn**

There was a motion made by Jay Bemke, seconded by Jeff Penzkover, and carried to adjourn at 10:35 AM.

Respectfully submitted,

Secretary, Rick Merdan

**SAFETY COMMITTEE MEETING MINUTES FOR JANUARY 4, 2023**

Discussion with: Adam Breunig, Todd Weiler, Josh Elliott, Justin Armagost, Bob Nash, Jason Warren, Tyler Sneen, Randy Rosicky and Sean Wall

**OLD BUSINESS**

There was no old business.

**NEW BUSINESS**

There were no new safety concerns brought forward at this time.

**SAFETY TRAINING/DISCUSSION**

The members reviewed and discussed the Bloodborne Pathogens (BBP) Program and found no changes required at this time.

There was a discussion regarding winter safety and the need to be very aware of changing weather conditions. Also due to recent news events a brief discussion into the importance of CPR, Emergency Action Plans, and how they relate/benefit our Utility.

**UPCOMING TRAININGS**

Bloodborne Pathogens (BBP) training is scheduled for January 16<sup>th</sup>, 2023.

Safety Committee meeting ended at 7:40 AM.



## **Wisconsin Rapids Water Works & Lighting Commission**

**December 2022**

Prepared By: Sean T. Wall, MEUW Senior Regional Safety Coordinator

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# **SAFETY REPORT**

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### **ACCOMPLISHMENTS**

#### **1. Training**

- a. Emergency Action Plan / Fire Ext. hands on training (Office & crew make up training)

#### **2. Audits/Inspections**

- a. Facility walk through inspection.
  - i. Follow ups sent to Jason Warren. No major issues.

#### **3. Compliance/Risk Management**

- a. Attended Safety Committee meeting
- b. Attended Commission meeting
- c. Bloodborne Pathogens written safety program sent out for review at Safety Committee

### **GOALS AND OBJECTIVES**

#### **1. Training**

- a. Bloodborne Pathogens safety training (crews)
  - i. Office training to take place at a later date

#### **2. Audits/Inspections**

- a. No inspections planned

#### **3. Compliance/Risk Management**

- a. Attend Safety Committee meeting
- b. Attend Commission meeting
- c. Starting up 2023 annual written program review process





### *Water Works and Lighting Commission*

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## **LINE SUPERINTENDENT'S REPORT December 2022**

### **Work Performed**

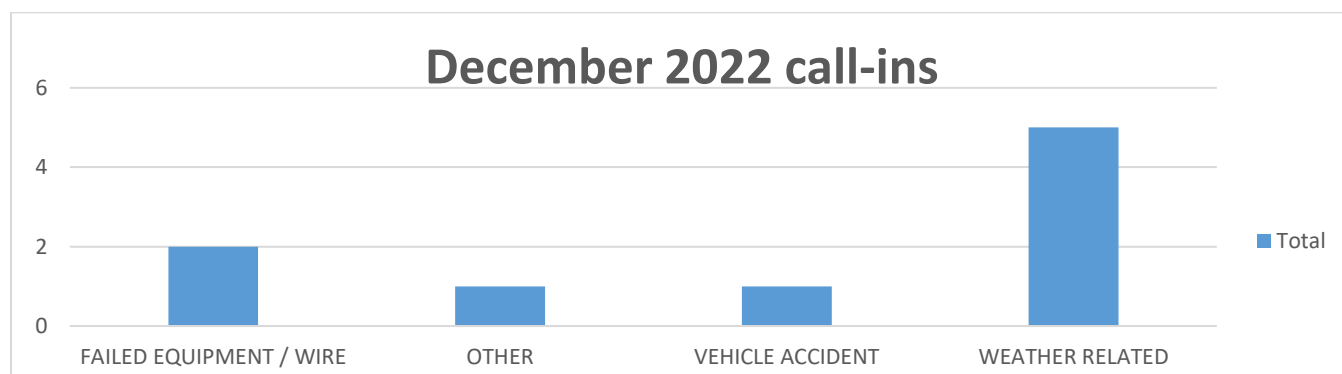
During December, the Electric Department processed 3 work orders, 2 electric service orders, and 84 trouble slips.

### **Other Projects**

- Continued pole replacements
- Continued tree trimming
- Completed multiple customer projects
- Completed 2022 inventory
- **2022 total call-ins were over 17% below 7-year average at 130**

### **After Hours Calls**

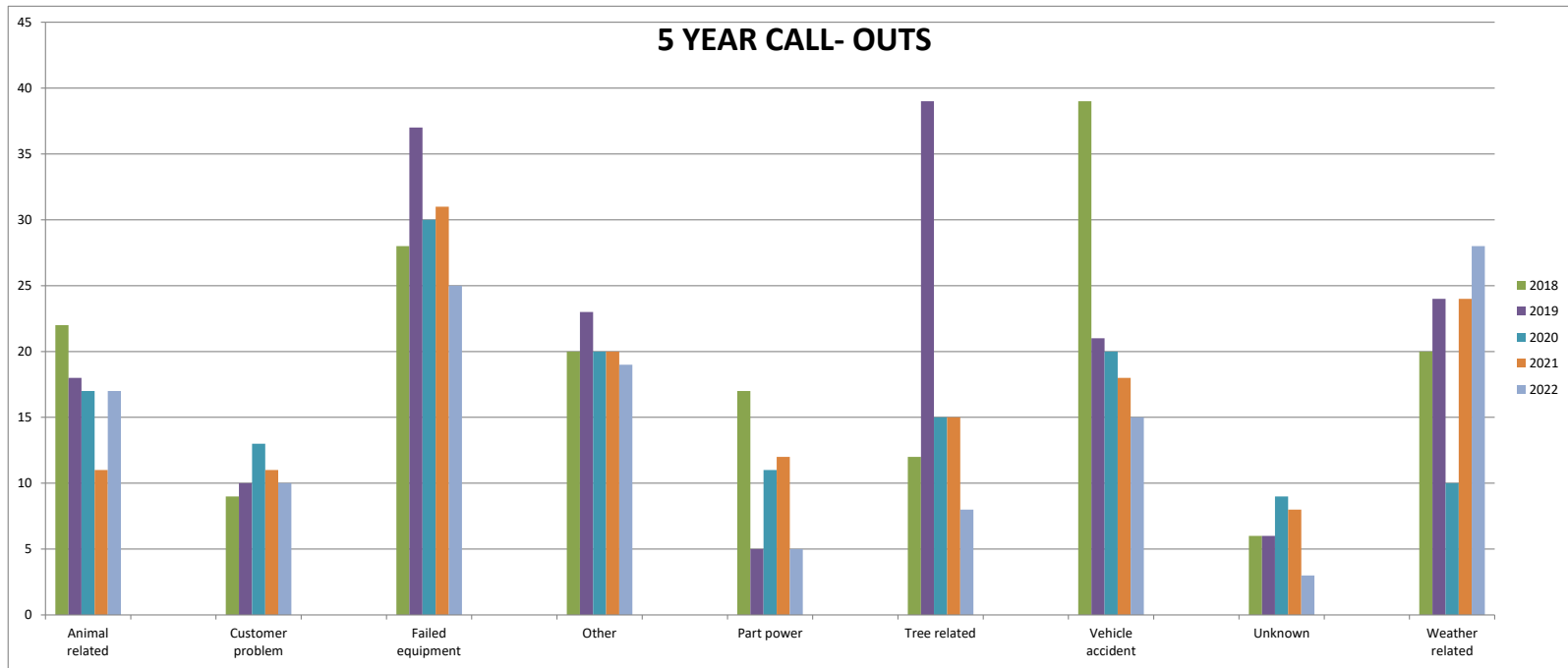
In December there were 9 after hour call-ins.



The call-ins for “Failed Equipment” were for a bad combination and a failed connection. The call for “Other” was for a structure fire.

Respectfully submitted,

Josh Elliott  
Electric Line Superintendent



Year	Animal related	Customer problem	Failed equipment	Other	Part power	Tree related	Vehicle accident	Unknown	Weather related	Total	% of average
2016	27	8	33	18	13	18	17	23	19	176	112.00%
2017	29	7	16	23	2	15	15	18	18	143	91.00%
2018	22	9	28	20	17	12	39	6	20	173	110.09%
2019	18	10	37	23	5	39	21	6	24	183	116.45%
2020	17	13	30	20	11	15	20	9	10	145	92.27%
2021	11	11	31	20	12	15	18	8	24	150	95.45%
2022	17	10	25	19	5	8	15	3	28	130	82.73%

7 year average	20.14286	9.714286	28.57143	20.42857	9.285714	17.42857	20.71429	10.42857143	20.42857143	157.1429	
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### *Water Works and Lighting Commission*

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## **WATER DEPARTMENT OPERATIONS REPORT December 2022**

### **WATER PROJECTS**

During December, the water department worked on the following projects.

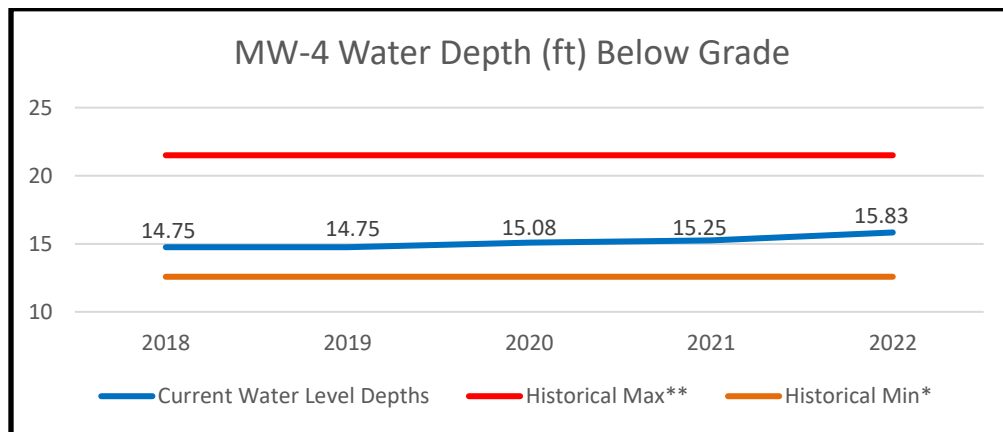
- Crews repaired a 6-Inch water main break located at 8<sup>th</sup> St S and Chestnut St.
- Crews installed a 1" water service for a new development at 1810 Spencer St.
- Crews finalized the 2022 material inventory report.
- Crews began the winter flushing program to improve water quality and prevent freezing potential on dead end water mains.

### **TROUBLE CALLS**

The water meter crew responded to 24 trouble calls. Tested 21 meters.

### **WATER DEPTHS AT MONITORING WELL (MW) 4 FOR THE LAST 5 YEARS**

The readings given below were taken during the last week of December of the year.



\* Historical minimum depth below grade for MW-4 was 12'-7" on July 2<sup>nd</sup>, 2004.

\*\* Historical maximum depth below grade for MW-4 was 21'-6" on September 11<sup>th</sup>, 2009.

Sincerely,

*Adam Breunig*

Water Superintendent

**Water Works and Lighting Commission**221 16<sup>th</sup> Street S, P.O. Box 399 Wisconsin Rapids, WI 54495-0399 (715) 423-6300**CUSTOMER SUPPORT SUPERVISOR'S REPORT  
DECEMBER 2022****COLLECTIONS**

Below is the comparison of active and inactive accounts receivable.

<b>ALL PROVIDERS – Active Accounts</b>			
	<b><u>December 2020</u></b>	<b><u>December 2021</u></b>	<b><u>December 2022</u></b>
<b>30 day</b>	245,594	192,738	220,687
<b>60 day</b>	129,603	86,214	98,932
<b>90 day</b>	458,810	49,373	49,897
<b>Current</b>	1,780,419	2,211,452	2,242,768
<b>Total Active</b>	2,614,426	2,539,777	2,612,284
<b>Total Inactive</b>	111,653	140,390	38,146
<b>Total AR</b>	2,726,079	2,680,167	2,650,430

Our past due accounts receivable is comparable for the month of December. There were 25 properties tagged for water disconnection in December resulting in four disconnections and three reconnections (one property is vacant and water remains disconnected). With the holiday season in December, we are a little more conservative with disconnections, but 302 letters have already been sent for water disconnection in January. We also made 70 cold calls to customers who were past due encouraging them make a payment to stay in good standing during the electric moratorium.

**Commercial Disconnections**

In December, 30 commercial accounts were notified of a past due balance resulting in three disconnections and three reconnections. In 2022, 406 commercial accounts were notified of a past due balance and 14 locations were disconnected.

**Tax Refund Interception Program (TRIP) and State Debt Collection (SDC)**

We received \$520 through SDC in December. Below is a four-year comparison for TRIP and SDC.

	<b>SDC</b>	<b>TRIP</b>	<b>Total</b>
2019	68,368	2,242	72,629
2020	53,721	2,467	58,208
2021	49,495	61,980	113,496
2022	66,461	17,995	86,478

**OFFICE INFORMATION**

- ✚ Sixty-two welcome letters were sent to new customers for a yearly total of 930.
- ✚ Sixty-four properties were verified for cross connection inspection for a yearly total of 590.
- ✚ Sara Oleson and I attended the Wisconsin Rapids Area Property Landlord meeting on December 12<sup>th</sup>. We reviewed our electric disconnections in 2022, communication preference between the utility and property owners, and explained the upcoming water disconnection process. It was great to hear positive feedback and ways to improve communication moving forward.
- ✚ Erick Rheam presented a two-day customer service workshop for all employees who directly work with our customers. We received positive feedback from all who attended.

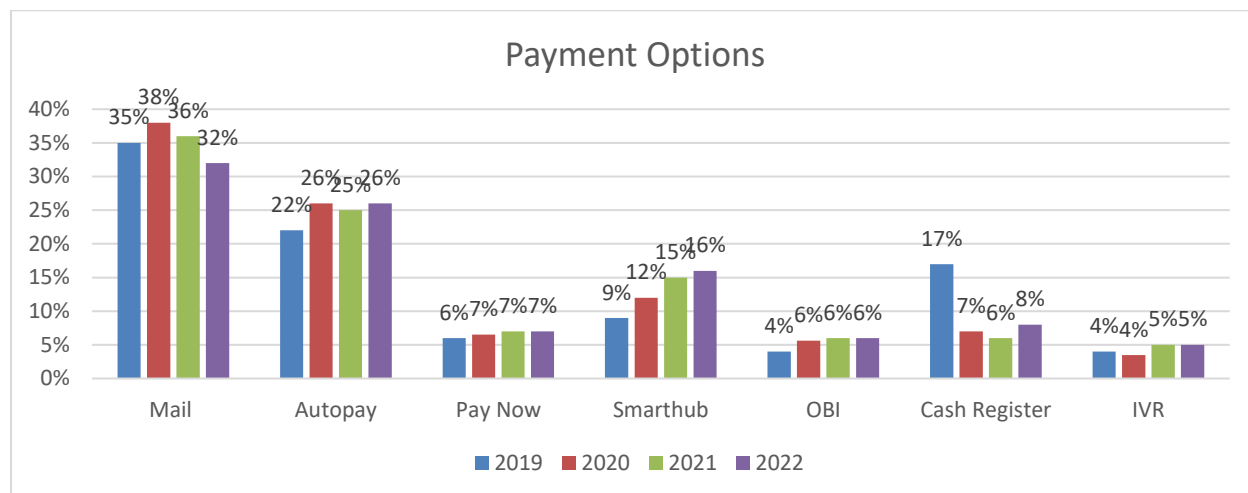
## OFFICE INFORMATION CONTINUED

- Office staff answered 1,599 customer calls in December.
- In person customer service at the front counter was 685 for a yearly total of 9,621.
- The office staff processed 229 electric and 122 water move orders. Thirty-eight of these orders were received electronically. The chart below shows the total orders in the last four years. The number of orders we receive electronically through our website has significantly increased over the last two years.

	New Electric Services	New Water Services	Electric Move Orders	Water Move Orders	Website Orders
2019	51	17	2851	1496	239
2020	136	9	2785	1223	185
2021	44	11	2755	1352	311
2022	56	17	2653	1266	378

## OFFICE PAYMENTS

We received a total of 15,034 payments in December. The chart below shows the breakdown by payment option for the last four years. It is encouraging to see the increase in payments through Smarthub.



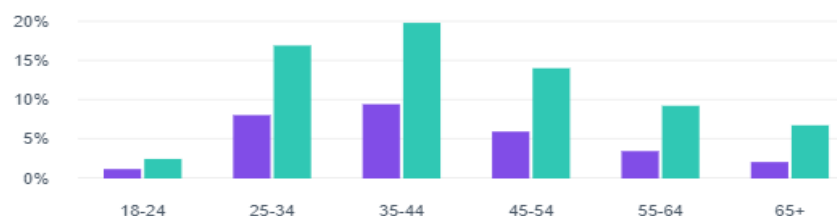
## SOCIAL MEDIA



We posted three messages on social media. Below is our demographic profile of our 3,746 Facebook followers.

### Age and Gender

- Men 30.40%
- Women 69.60%



Respectfully submitted,  
*Lynn Schroer*  
 Customer Support Supervisor



*Water Works and Lighting Commission*

*221 16<sup>th</sup> Street S, P.O. Box 399 Wisconsin Rapids, WI 54495-0399 (715) 423-6300*

**Director of Finance Report**

**December 2022**

**Financial Reports**

Included in this month's packet are the November 2022 interim financial statements. The electric utility is showing an operating income of \$824,954 for 2022, compared with \$1,970,651 for the same time last year. With Power Cost Adjustments removed, total electric sales revenue has fallen \$67,700, or 0.3% in 2022.

The water utility posted a \$434,491 operating income through November, down nearly 57% from 2021's figure (\$1,006,191). The main driver of lower revenue is the well cleaning expense for cleaning multiple wells in 2022. Source of supply expense is \$583,500 in 2022, compared to \$108,500 in 2021. Our radial wells historically have gone between 9-12 years between cleanings.

December's cash flow was positive \$262,517 for the month. For the year, the utility had a negative cash flow of \$131,381, compared to a negative cash flow of \$163,857 for 2021.

**2022 Year End Requirements**

The year-end close process is already underway. The auditors were on site for physical inventory verification on December 19, which went well. Final fieldwork will begin in late February or early March. We have had several discussions with the auditors on new standards and requirements.

Respectfully submitted,

*Jeff Kuhn*

Jeff Kuhn  
Director of Finance

Wisconsin Rapids Water Works and Lighting Commission  
Cash Flow Summary  
for Month Ending December 31, 2022

	<u>Current Month</u>	<u>Year to Date</u>	<u>Prior Year to Date</u>
Cash Receipts:			
Utility Receipts, Net of Returns	\$ 3,578,035	\$ 41,560,552	\$ 39,302,838
Interest and Dividends	\$ 65	\$ 3,391	\$ 3,602
Transfer from Investments	\$ -	\$ 4,048,957	\$ 2,589,242
ATC Dividend Payment	\$ -	\$ 480,128	\$ 527,885
Total Cash Receipts	<u>\$ 3,578,100</u>	<u>\$ 46,093,028</u>	<u>\$ 42,423,567</u>
Disbursements			
AP Payments	\$ (1,123,808)	\$ (18,465,450)	\$ (15,043,830)
GLU Power Bill	\$ (1,600,628)	\$ (19,547,159)	\$ (17,886,751)
Transfer to Investments	\$ (200,000)	\$ (3,065,000)	\$ (5,015,000)
ATC - Voluntary Capital Call		\$ (285,524)	\$ -
Sales Tax Payment	\$ (90,011)	\$ (777,292)	\$ (733,644)
Payroll	\$ (297,969)	\$ (4,030,690)	\$ (3,855,041)
Service Fees	\$ (3,167)	\$ (53,295)	\$ (53,158)
Total Disbursements	<u>\$ (3,315,583)</u>	<u>\$ (46,224,409)</u>	<u>\$ (42,587,424)</u>
Net Cash Flow	<u><u>\$ 262,517</u></u>	<u><u>\$ (131,381)</u></u>	<u><u>\$ (163,857)</u></u>

Wisconsin Rapids Water Works and Lighting Commission  
Combined Utility Income Statement  
Year to Date for Months Ending November 2022 and 2021

	Current Year to Date			Prior Year to Date			% Increase (Decrease)		
	Electric	Water	Total	Electric	Water	Total	Electric	Water	Total
Charges for Services	\$ 25,842,379	\$ 3,734,548	\$ 29,576,928	\$ 24,398,151	\$ 3,758,305	\$ 28,156,456	5.9%	(0.6%)	5.0%
Other Operating Revenues	\$ 401,907	\$ 1,666,582	\$ 2,068,489	\$ 380,168	\$ 1,628,031	\$ 2,008,199	5.7%	2.4%	3.0%
Total Operating Revenues	\$ 26,244,286	\$ 5,401,130	\$ 31,645,416	\$ 24,778,319	\$ 5,386,336	\$ 30,164,655	5.9%	0.3%	4.9%
Operating Expenses	21,812,761	3,224,787	25,037,549	19,324,762	2,593,125	21,917,887	12.9%	24.4%	14.2%
Depreciation Expense	2,120,496	843,452	2,963,947	2,072,155	920,770	2,992,925	2.3%	(8.4%)	(1.0%)
Taxes Expense	1,486,075	898,400	2,384,475	1,410,750	866,250	2,277,000	5.3%	3.7%	4.7%
Total Operating Expenses	25,419,332	4,966,639	30,385,971	22,807,668	4,380,145	27,187,812	11.5%	13.4%	11.8%
<b>Operating Income (Loss)</b>	<b>\$ 824,954</b>	<b>\$ 434,491</b>	<b>\$ 1,259,445</b>	<b>\$ 1,970,651</b>	<b>\$ 1,006,191</b>	<b>\$ 2,976,842</b>	<b>(58.1%)</b>	<b>(56.8%)</b>	<b>(57.7%)</b>
Non-Operating Income	835,472	96,238	931,709	764,774	57,528	822,303	9.2%	67.3%	13.3%
Interest Charges	146,353		146,353	155,064		155,064	(5.6%)		(5.6%)
Other Non-operating Exp	343,444	90,155	433,599	321,352	96,466	417,818	6.9%	(6.5%)	3.8%
<b>Net Income (Loss)</b>	<b>\$ 1,170,628</b>	<b>\$ 440,574</b>	<b>\$ 1,611,202</b>	<b>\$ 2,259,010</b>	<b>\$ 967,253</b>	<b>\$ 3,226,263</b>	<b>(48.2%)</b>	<b>(54.5%)</b>	<b>(50.1%)</b>

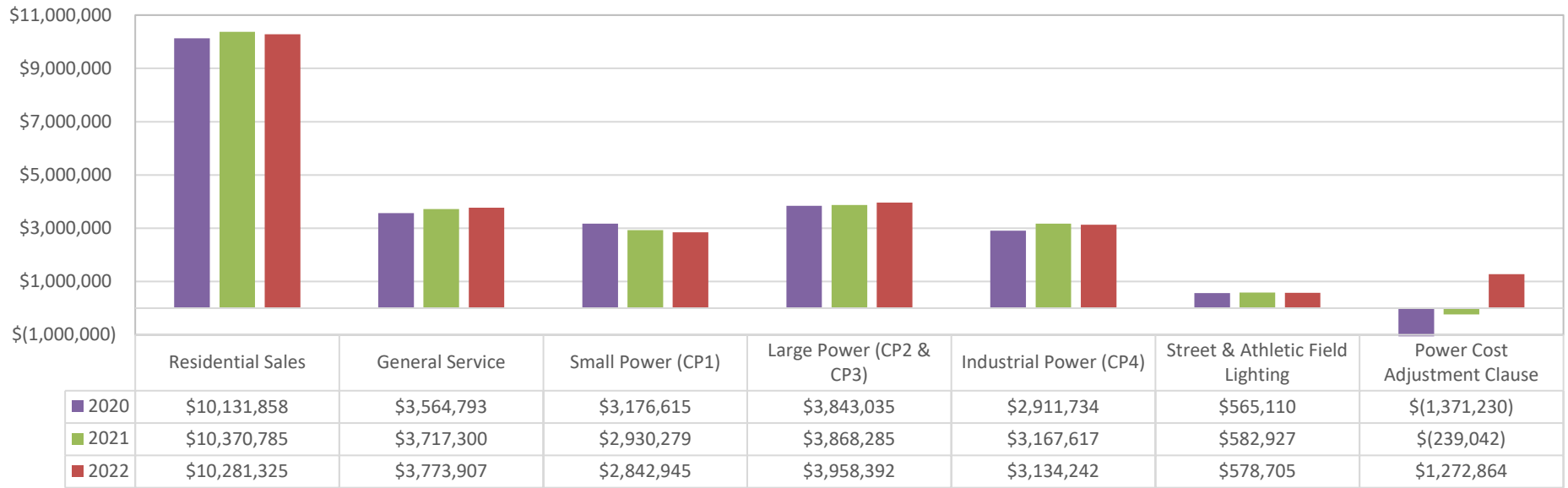


Wisconsin Rapids Water Works and Lighting Commission  
Electric Income Statement  
Year to Date for Months Ending November 2022, 2021, 2020

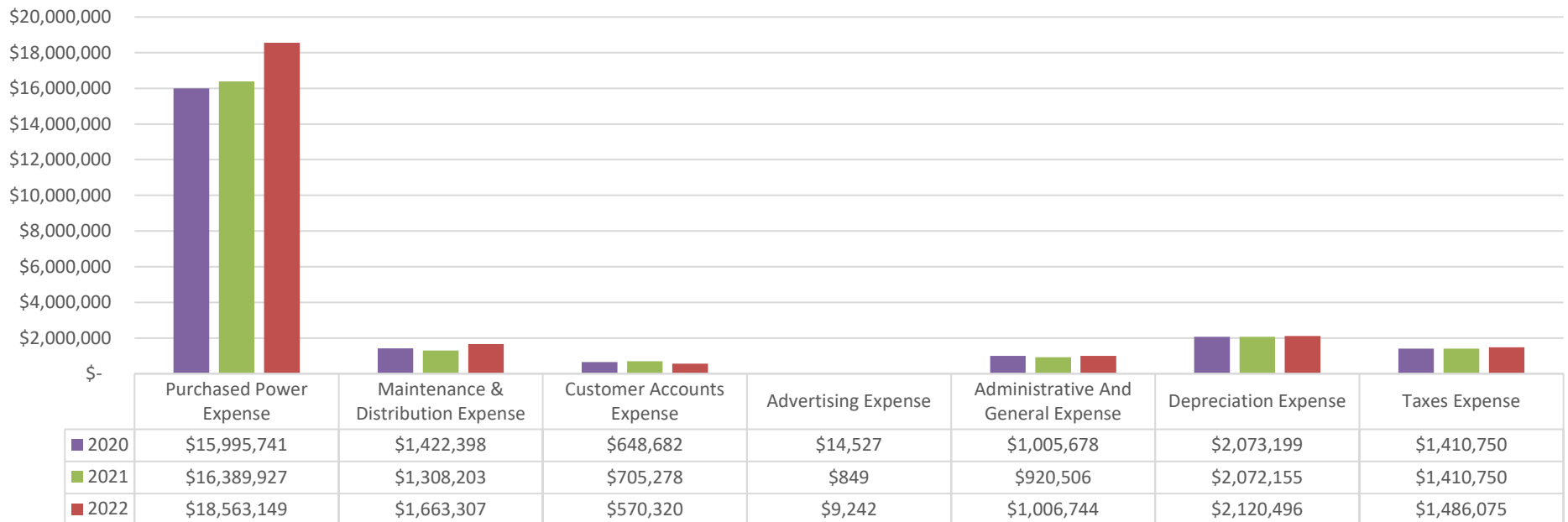
	Current Budget	2022 YTD	2021 YTD	2020 YTD	Remaining Budget
<b>Sales of Electricity</b>					
Residential Sales	\$ 11,298,000	\$ 10,281,325	\$ 10,370,785	\$ 10,131,858	\$ 1,016,675
General Service	\$ 4,145,000	\$ 3,773,907	\$ 3,717,300	\$ 3,564,793	\$ 371,093
Small Power (CP1)	\$ 3,220,000	\$ 2,842,945	\$ 2,930,279	\$ 3,176,615	\$ 377,055
Large Power (CP2 & CP3)	\$ 4,270,000	\$ 3,958,392	\$ 3,868,285	\$ 3,843,035	\$ 311,608
Industrial Power (CP4)	\$ 3,690,000	\$ 3,134,242	\$ 3,167,617	\$ 2,911,734	\$ 555,758
Street & Athletic Field Lighting	\$ 642,500	\$ 578,705	\$ 582,927	\$ 565,110	\$ 63,795
Power Cost Adjustment Clause	\$ (275,000)	\$ 1,272,864	\$ (239,042)	\$ (1,371,230)	\$ (1,547,864)
Total Sales of Electricity	\$ 26,990,500	\$ 25,842,379	\$ 24,398,151	\$ 22,821,915	\$ 1,148,121
<b>Other Operating Revenues</b>					
Misc Service Revenues - Reconnect Fees	\$ 30,000	\$ 46,575	\$ 38,645	\$ 245	\$ (16,575)
Rent From Electric Property	\$ 274,000	\$ 276,704	\$ 265,006	\$ 257,620	\$ (2,704)
Forfeited Discounts	\$ 92,000	\$ 75,174	\$ 67,652	\$ 41,433	\$ 16,826
Other Electric Revenues	\$ 3,500	\$ 3,454	\$ 8,865	\$ 2,985	\$ 46
Total Operating Revenues	\$ 27,390,000	\$ 26,244,286	\$ 24,778,319	\$ 23,124,198	\$ 1,145,714
<b>Operating Expenses</b>					
Purchased Power Expense	\$ 18,468,200	\$ 18,563,149	\$ 16,389,927	\$ 15,995,741	\$ (94,949)
Maintenance & Distribution Expense	\$ 1,659,000	\$ 1,663,307	\$ 1,308,203	\$ 1,422,398	\$ (4,307)
Customer Accounts Expense	\$ 776,200	\$ 570,320	\$ 705,278	\$ 648,682	\$ 205,880
Advertising Expense	\$ 24,000	\$ 9,242	\$ 849	\$ 14,527	\$ 14,758
Administrative And General Expense	\$ 1,326,600	\$ 1,006,744	\$ 920,506	\$ 1,005,678	\$ 319,856
Depreciation Expense	\$ 2,340,000	\$ 2,120,496	\$ 2,072,155	\$ 2,073,199	\$ 219,504
Taxes Expense	\$ 1,463,364	\$ 1,486,075	\$ 1,410,750	\$ 1,410,750	\$ (22,711)
Total Operating Expenses	\$ 26,057,364	\$ 25,419,332	\$ 22,807,668	\$ 22,570,976	\$ 638,032
<b>Operating Income</b>	<b>\$ 1,332,636</b>	<b>\$ 824,954</b>	<b>\$ 1,970,651</b>	<b>\$ 553,222</b>	<b>\$ 507,682</b>
Merchandise and Jobbing	\$ 40,000	\$ 88,587	\$ 18,700	\$ 32,032	\$ (48,587)
Interest and Dividend Income	\$ 703,900	\$ 545,148	\$ 626,027	\$ 670,396	\$ 158,752
Miscellaneous Non-Operating Income	\$ 160,000	\$ 201,736	\$ 120,047	\$ 1,816,376	\$ (41,736)
Total Other Income Additions	\$ 903,900	\$ 835,472	\$ 764,774	\$ 2,518,804	\$ 68,429
Interest Charges	\$ 163,117	\$ 146,353	\$ 155,064	\$ 170,253	\$ 16,764
Other Income Deductions	\$ 382,000	\$ 343,444	\$ 321,352	\$ 318,747	\$ 38,556
<b>Total Net Income</b>	<b>\$ 1,691,419</b>	<b>\$ 1,170,628</b>	<b>\$ 2,259,010</b>	<b>\$ 2,583,026</b>	<b>\$ 520,791</b>

Wisconsin Rapids Water Works and Lighting Commission  
Selected Electric Utility Financial Charts  
Year to Date for Months Ending November 2022, 2021, 2020

Electric Utility Sales Revenue by Customer Type



YTD Electric Operating Expenses

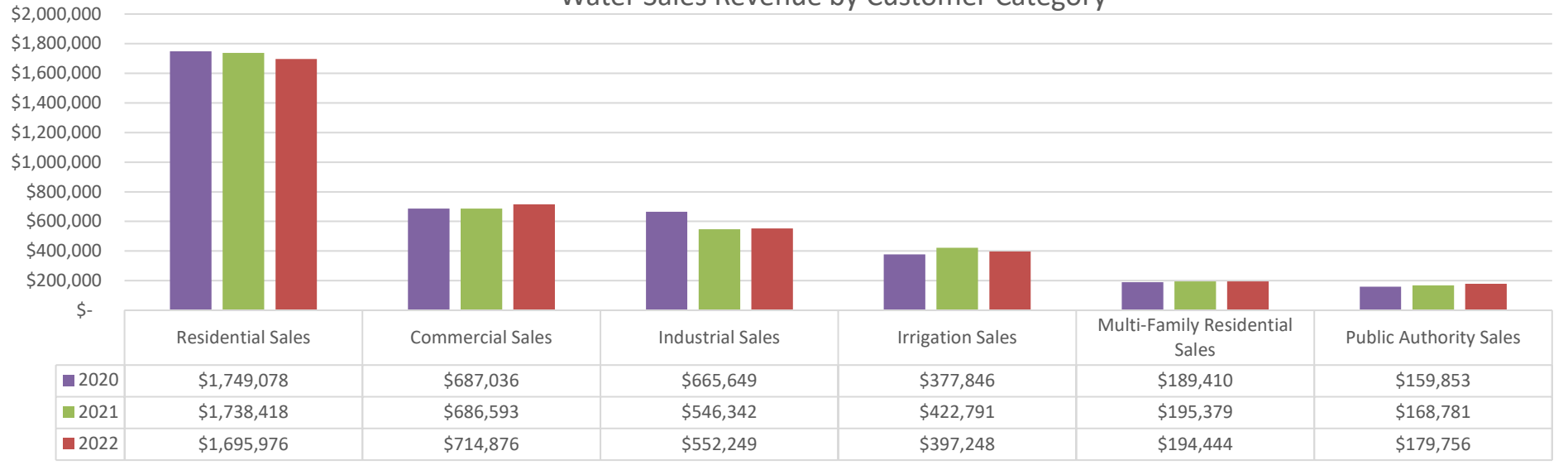


Wisconsin Rapids Water Works and Lighting Commission  
Water Income Statement  
Year to Date for Months Ending November 2022, 2021, 2020

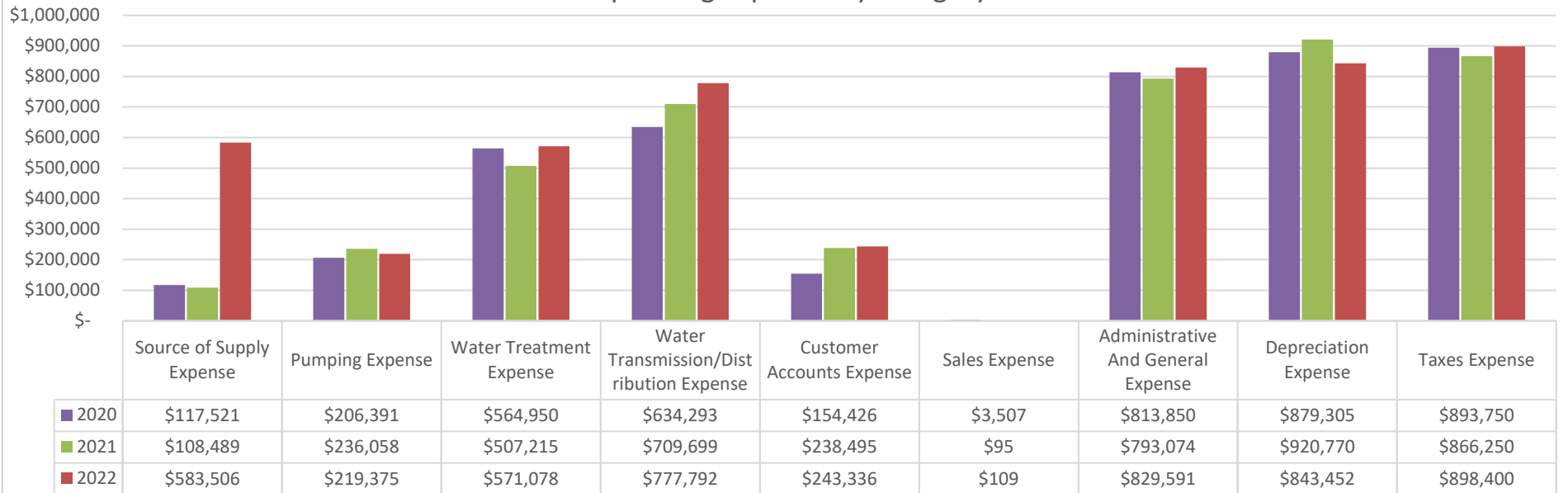
	Current Budget	2022 YTD	2021 YTD	2020 YTD	Remaining Budget
<b>Metered Sales of Water</b>					
Residential Sales	\$ 1,938,000	\$ 1,695,976	\$ 1,738,418	\$ 1,749,078	\$ 242,024
Commercial Sales	\$ 763,000	\$ 714,876	\$ 686,593	\$ 687,036	\$ 48,124
Industrial Sales	\$ 415,000	\$ 552,249	\$ 546,342	\$ 665,649	\$ (137,249)
Irrigation Sales	\$ 367,000	\$ 397,248	\$ 422,791	\$ 377,846	\$ (30,248)
Multi-Family Residential Sales	\$ 216,000	\$ 194,444	\$ 195,379	\$ 189,410	\$ 21,556
Public Authority Sales	\$ 188,000	\$ 179,756	\$ 168,781	\$ 159,853	\$ 8,244
Total Sales of Water	\$ 3,887,000	\$ 3,734,548	\$ 3,758,305	\$ 3,828,872	\$ 152,452
<b>Other Operating Revenues</b>					
Private Fire Protection	\$ 58,000	\$ 52,467	\$ 52,474	\$ 52,671	\$ 5,533
Public Fire Protection	\$ 1,305,000	\$ 1,176,555	\$ 1,159,383	\$ 1,155,849	\$ 128,445
Forfeited Discounts	\$ 25,000	\$ 35,345	\$ 31,179	\$ 24,279	\$ (10,345)
Miscellaneous Service Revenues	\$ 2,000	\$ 1,610	\$ 350	\$ 1,575	\$ 390
Rent From Water Property	\$ 87,000	\$ 79,350	\$ 82,596	\$ 75,050	\$ 7,650
Other Water Revenues	\$ 78,000	\$ 321,255	\$ 302,049	\$ 287,456	\$ (243,255)
Total Operating Revenues	\$ 5,442,000	\$ 5,401,130	\$ 5,386,336	\$ 5,425,752	\$ 40,870
<b>Operating Expenses</b>					
Source of Supply Expense	\$ 279,100	\$ 583,506	\$ 108,489	\$ 117,521	\$ (304,406)
Pumping Expense	\$ 248,100	\$ 219,375	\$ 236,058	\$ 206,391	\$ 28,725
Water Treatment Expense	\$ 603,200	\$ 571,078	\$ 507,215	\$ 564,950	\$ 32,122
Water Transmission/Distribution Expense	\$ 802,400	\$ 777,792	\$ 709,699	\$ 634,293	\$ 24,608
Customer Accounts Expense	\$ 134,700	\$ 243,336	\$ 238,495	\$ 154,426	\$ (108,636)
Sales Expense	\$ 1,000	\$ 109	\$ 95	\$ 3,507	\$ 891
Administrative And General Expense	\$ 1,002,000	\$ 829,591	\$ 793,074	\$ 813,850	\$ 172,409
Depreciation Expense	\$ 941,021	\$ 843,452	\$ 920,770	\$ 879,305	\$ 97,569
Taxes Expense	\$ 913,886	\$ 898,400	\$ 866,250	\$ 893,750	\$ 15,486
Total Operating Expenses	\$ 4,925,407	\$ 4,966,639	\$ 4,380,145	\$ 4,267,994	\$ (41,232)
<b>Operating Income</b>	<b>\$ 516,593</b>	<b>\$ 434,491</b>	<b>\$ 1,006,191</b>	<b>\$ 1,157,759</b>	<b>\$ 82,102</b>
Merchandise and Jobbing	\$ 1,500	\$ 1,325	\$ 445	\$ 1,206	\$ 175
Interest and Dividend Income	\$ 32,700	\$ 87,738	\$ 55,463	\$ 53,657	\$ (55,038)
Miscellaneous Non-operating Income	\$ 670,000	\$ 7,175	\$ 1,620	\$ -	\$ 662,825
Total Other Income Additions	\$ 704,200	\$ 96,238	\$ 57,528	\$ 54,863	\$ 607,962
Other Income Deductions	\$ 125,000	\$ 90,155	\$ 96,466	\$ 96,309	\$ 34,845
<b>Total Net Income</b>	<b>\$ 1,095,793</b>	<b>\$ 440,574</b>	<b>\$ 967,253</b>	<b>\$ 1,116,312</b>	<b>\$ 655,219</b>

Wisconsin Rapids Water Works and Lighting Commission  
Selected Water Utility Financial Charts  
Year to Date for Months Ending November 2022, 2021, 2020

Water Sales Revenue by Customer Category



Water Operating Expense by Category



Wisconsin Rapids Water Works and Lighting Commission  
Electric and Water Utility Balance Sheet  
Balances as of November 2022 & 2021

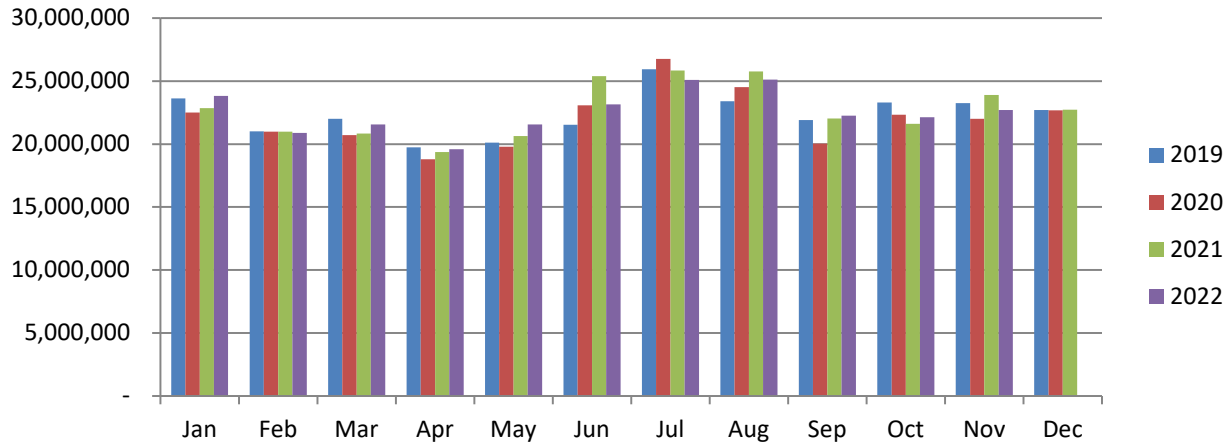
	2022			2021		
	Electric Utility	Water Utility	Combined Utilities	Electric Utility	Water Utility	Combined Utilities
<b>ASSETS</b>						
Utility Plant						
Utility Plant in Service	66,438,509	45,809,525	112,248,034	64,398,318	44,875,706	109,274,024
Utility Plant in Service - Common	7,894,496	2,689,445	10,583,942	7,844,878	2,669,469	10,514,348
Property Held for Future Use	500	104,255	104,755	500	104,255	104,755
Construction Work in Progress	2,966,233	3,177,325	6,143,558	3,061,979	954,760	4,016,739
<b>Total Utility Plant</b>	<b>77,299,739</b>	<b>51,780,550</b>	<b>129,080,289</b>	<b>75,305,675</b>	<b>48,604,190</b>	<b>123,909,866</b>
Less: Accumulated Depreciation						
Accumulated Depreciation	(29,624,359)	(19,193,675)	(48,818,035)	(28,093,182)	(18,375,595)	(46,468,778)
Accumulated Depreciation - Common	(6,041,482)	(1,897,436)	(7,938,918)	(5,782,485)	(1,833,088)	(7,615,573)
<b>Total Accumulated Depreciation</b>	<b>(35,665,841)</b>	<b>(21,091,111)</b>	<b>(56,756,952)</b>	<b>(33,875,668)</b>	<b>(20,208,683)</b>	<b>(54,084,351)</b>
<b>Net Utility Plant</b>	<b>41,633,897</b>	<b>30,689,439</b>	<b>72,323,336</b>	<b>41,430,007</b>	<b>28,395,507</b>	<b>69,825,514</b>
Current and Accrued Assets						
Cash	505,492	387,664	893,156	310,760	1,593,241	1,904,001
Working Funds	940	-	940	940	-	940
Rate Stabilization Deposit	(0)	-	(0)	507,765	-	507,765
Temporary Cash Investments	841,691	592,979	1,434,669	803,447	577,004	1,380,452
Customer Accounts Receivable	3,329,391	654,003	3,983,394	2,778,298	631,844	3,410,142
Other Accounts Receivable	118,076	448,280	566,357	112,899	394,740	507,639
Receivable From Municipality	6,152	-	6,152	-	-	-
Notes Receivable	500,000	-	500,000	500,000	-	500,000
Sewer Fee For Collections	-	315,367	315,367	-	309,138	309,138
Due To (From) Municipality	22,745	54,894	77,639	11,157	46,311	57,468
Plant Materials & Supplies	1,966,246	404,080	2,370,326	1,409,122	263,391	1,672,513
Stores Expense	(61,893)	(65,882)	(127,776)	(39,163)	(51,665)	(90,828)
Prepayments	260,248	7,559	267,807	254,042	12,611	266,653
Interest Receivable	-	-	-	-	-	-
<b>Total Current and Accrued Assets</b>	<b>7,489,089</b>	<b>2,798,943</b>	<b>10,288,031</b>	<b>6,649,268</b>	<b>3,776,615</b>	<b>10,425,883</b>
Other Investments						
Depreciation Fund	4,782,362	5,361,698	10,144,060	4,907,468	5,929,785	10,837,253
Other Investments	8,794,577	-	8,794,577	8,328,308	-	8,328,308
Other Special Funds	393,992	3,280	397,272	382,103	11,900	394,003
<b>Total Other Investments</b>	<b>13,970,931</b>	<b>5,364,978</b>	<b>19,335,908</b>	<b>13,617,880</b>	<b>5,941,685</b>	<b>19,559,565</b>
Deferred outflows of Resources						
Unamortized Debt Disc & Expense	432,076	-	432,076	500,825	-	500,825
Preliminary Survey & Investigation Charges	2,808	-	2,808	2,808	-	2,808
Clearing Accounts	(17,343)	(15,943)	(33,286)	(36,429)	(34,655)	(71,083)
Deferred Outflows Related To Pension	2,457,774	1,323,414	3,781,188	1,605,371	864,429	2,469,800
Misc Deferred Debits	259,363	139,549	398,912	207,611	115,724	323,336
<b>Total Deferred Outflows of Resources</b>	<b>3,134,678</b>	<b>1,447,020</b>	<b>4,581,698</b>	<b>2,280,186</b>	<b>945,499</b>	<b>3,225,685</b>
<b>Total Assets and Deferred Outflows</b>	<b>66,228,595</b>	<b>40,300,380</b>	<b>106,528,975</b>	<b>63,977,341</b>	<b>39,059,306</b>	<b>103,036,648</b>

Wisconsin Rapids Water Works and Lighting Commission  
Electric and Water Utility Balance Sheet  
Balances as of November 2022 & 2021

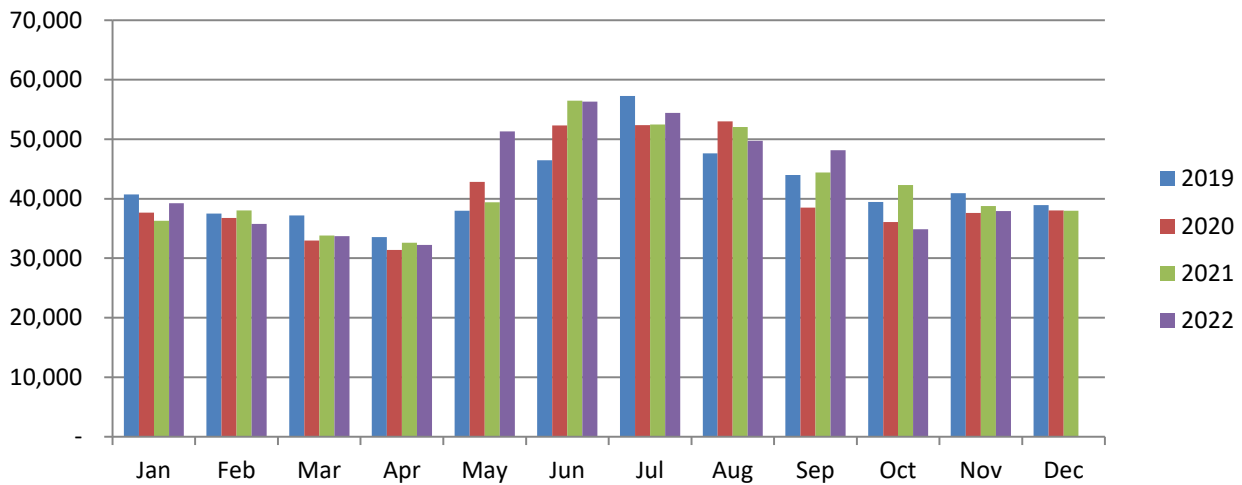
	2022			2021		
	Electric Utility	Water Utility	Combined Utilities	Electric Utility	Water Utility	Combined Utilities
<b>LIABILITIES</b>						
<b>Current and Accrued Liabilities</b>						
Accounts Payable	2,392,710	-	2,392,710	2,008,334	-	2,008,334
Payables To Municipality	-	-	-	-	-	-
Customer Deposits	432,734	-	432,734	445,281	-	445,281
Taxes Accrued	1,022,501	902,609	1,925,110	969,703	870,091	1,839,794
Interest Accrued	30,472	-	30,472	34,311	-	34,311
Tax Collections Payable	118,388	-	118,388	107,129	-	107,129
Misc Current And Accrued Liabilities	1,679,522	911,241	2,590,763	562,279	139,208	701,487
<b>Total Current and Accrued Liabilities</b>	<b>5,676,327</b>	<b>1,813,850</b>	<b>7,490,176</b>	<b>4,127,037</b>	<b>1,009,299</b>	<b>5,136,336</b>
<b>Long Term Debt</b>						
Long Term Debt - Bonds	3,995,000	-	3,995,000	4,515,000	-	4,515,000
<b>PROPRIETARY CAPITAL</b>						
Capital Paid In By Municipality	1,030,967	798,819	1,829,787	1,030,967	798,819	1,829,787
Retained Earnings	52,797,975	36,363,297	89,161,271	51,172,671	35,528,467	86,701,139
<b>Total Proprietary Capital</b>	<b>53,828,942</b>	<b>37,162,116</b>	<b>90,991,058</b>	<b>52,203,639</b>	<b>36,327,287</b>	<b>88,530,925</b>
<b>Deferred Inflows of Resources</b>						
Customer Advance For Construction	181,165	-	181,165	68,044	-	68,044
Wholesale Rate Refund & Public Benefits	330,245	-	330,245	330,848	-	330,848
Unamortized Premium On Debt	41,106	-	41,106	47,639	-	47,639
Other Deferred Credits	2,175,811	1,324,415	3,500,226	2,685,135	1,722,720	4,407,856
<b>Total Deferred Inflows of Resources</b>	<b>2,728,326</b>	<b>1,324,415</b>	<b>4,052,741</b>	<b>3,131,666</b>	<b>1,722,720</b>	<b>4,854,387</b>
<b>Total Liabilities, Equity and Def Inflows</b>	<b>66,228,595</b>	<b>40,300,380</b>	<b>106,528,975</b>	<b>63,977,341</b>	<b>39,059,306</b>	<b>103,036,648</b>

Wisconsin Rapids Water Works and Lighting Commission  
Monthly Electric Purchases  
2019-2022

**Electric Purchases by Month (kWh)**



**Electric Purchases - Demand by Month (kW)**



**Wisconsin Rapids Water Works & Lighting Commission  
Investment Report**

**11/30/2022**

INSTITUTION	FACE VALUE	FACE VALUE & ACCRUED INT	RATE/ YIELD	MATURITY DATE	DATE ACQUIRED	TYPE
<b>Local Government Investment Pool (LGIP)</b>	392,407.31	<b>392,407.31</b>	3.720%			
<b>Prevail Bank</b>	3,410,643.24	<b>3,410,643.24</b>	3.250%			
<b>Ehlers Investments</b>						
SALLIE MAE BANK	250,000.00	<b>252,192.12</b>	1.882%	12/12/2022	12/12/2019	CD
US TREASURY BOND	500,000.00	<b>503,566.33</b>	2.480%	12/31/2022	6/30/2022	NOTE
WELLS FARGO NATIONAL BANK WEST	248,000.00	<b>248,025.82</b>	1.900%	1/30/2023	1/30/2020	CD
UNITED STATES TREASURY	197,000.00	<b>198,314.24</b>	1.080%	2/28/2023	3/3/2022	NOTE
WISCONSIN STATE FINANCE AUTHORITY	70,000.00	<b>70,875.00</b>	5.000% *	3/1/2023	12/29/2020	NOTE
AMERANT BANK	250,000.00	<b>250,082.19</b>	3.990%	3/28/2023	9/20/2022	CD
US TREASURY BOND	502,000.00	<b>498,709.36</b>	2.730%	5/1/2023	6/30/2022	NOTE
US TREASURY BOND	252,000.00	<b>247,464.63</b>	3.950%	4/15/2023	10/12/2022	NOTE
COLORADO HOUSING AND FINANCE AUTHORITY	150,000.00	<b>150,137.50</b>	1.100%	5/1/2023	1/31/2022	NOTE
WISCONSIN STATE GENERAL FUND REV BOND	210,000.00	<b>210,358.58</b>	2.049%	5/1/2023	1/30/2020	NOTE
MUKWONAGO WIS BOND	170,000.00	<b>170,708.33</b>	4.250%	6/1/2023	10/6/2022	NOTE
US TREASURY BOND	507,000.00	<b>502,317.39</b>	2.910%	6/30/2023	6/30/2022	NOTE
HOCKING TECHNICAL COLLEGE OHIO	300,000.00	<b>301,272.50</b>	0.788%	7/1/2023	11/23/2020	NOTE
OKLAHOMA STATE HIGHWAY CAPITAL IMPROVE	50,000.00	<b>51,102.08</b>	5.290% *	7/1/2023	12/29/2020	NOTE
ILLINOIS HOUSING AUTHORITY	50,000.00	<b>50,316.67</b>	1.900% *	8/1/2023	12/29/2020	NOTE
NEW YORK STATE DORMITORY AUTHORITY	100,000.00	<b>100,833.33</b>	5.000% *	10/1/2023	12/29/2020	NOTE
SYNCHRONY BANK	245,000.00	<b>245,122.50</b>	0.450%	10/23/2023	10/28/2021	CD
WEB BANK	205,000.00	<b>205,652.91</b>	0.750%	12/29/2023	12/29/2021	CD
FEDERAL HOME LOAN BANK	300,000.00	<b>300,038.00</b>	0.600%	2/23/2024	11/30/2021	NOTE
AMERICAN EXPRESS BANK	200,000.00	<b>200,737.78</b>	1.600%	3/11/2024	3/3/2022	CD
CITY OF WATERFORD GO BOND	200,000.00	<b>200,633.33</b>	1.900% *	4/1/2024	1/30/2020	NOTE
MUKWONAGO WIS BOND	100,000.00	<b>100,416.67</b>	4.340%	6/1/2024	10/6/2022	NOTE
BARCLAY'S BANK DELAWARE	248,000.00	<b>251,553.63</b>	2.000%	6/3/2024	5/31/2022	CD
FALLBROOK (CA) PUB UTILITY DIST REV BOND	200,000.00	<b>200,363.50</b>	0.725%	9/1/2024	1/27/2021	CD
UNITED STATES TREASURY	251,000.00	<b>249,637.30</b>	0.950%	11/15/2024	12/15/2021	NOTE
FEDERAL HOME LOAN BANK	250,000.00	<b>250,081.25</b>	0.900%	11/18/2024	10/28/2021	NOTE
CALIFORNIA STATE BOND	245,000.00	<b>246,378.12</b>	2.840%	4/28/2025	4/28/2022	NOTE
FEDERAL HOME LOAN BANK	145,000.00	<b>145,315.68</b>	2.360%	4/28/2025	4/28/2022	NOTE
COWETA COUNTY (GA) WATER SYSTEM REV BOND	300,000.00	<b>303,000.00</b>	2.000% *	6/1/2025	6/9/2021	NOTE
CAPITAL ONE NATIONAL ASSOCIATION	175,000.00	<b>177,070.27</b>	3.430%	7/28/2025	7/21/2022	CD
MUSTIN TELCO FEDERAL CREDIT UNION	225,000.00	<b>225,092.47</b>	5.000%	11/28/2025	11/28/2022	CD
CLAYTON WIS WATER SYSTEM REV BOND	250,000.00	<b>252,500.00</b>	2.000% *	6/1/2026	6/1/2021	NOTE
FEDERAL HOME LOAN BANK	500,000.00	<b>502,260.28</b>	1.029% *	6/23/2026	6/2/2021	NOTE
FEDERAL HOME LOAN BANK	300,000.00	<b>302,541.67</b>	4.990%	9/30/2027	9/13/2022	NOTE
FDIC INSURED MONEY MARKET	4,923.92	<b>4,923.92</b>				MM
		<b>8,169,595.35</b>				
<b>TOTAL INVESTMENTS</b>	<b>11,952,974.47</b>	<b>11,972,645.90</b>				
<b>ACCOUNT BALANCES POST-JOURNAL ENTRY</b>						
<b>ELECTRIC UTILITY DEPRECIATION FUND</b>						
0-1261-00		4,782,362.13				
<b>ELECTRIC REVENUE BOND REDEMPTION</b>						
0-1252-00		393,916.56				
<b>WATER UTILITY DEPRECIATION FUND</b>						
2-1261-00		5,361,697.78				
<b>TAX ESCROW FUND</b>						
0-1361-00		658,179.98				
2-1361-00		560,378.43				
<b>GENERAL FUND</b>						
0-1365-00		183,510.84				
2-1365-00		32,600.19				
<b>TOTAL INVESTMENTS</b>		<b>11,972,645.90</b>				





*Water Works and Lighting Commission*

221 16th St. So. P.O. Box 399 Wisconsin Rapids, WI 54495-0399 715/423-6300 FAX: 715/423-2831

**INFORMATION SYSTEMS ADMINISTRATOR'S REPORT**  
**December 2022**

**SCADA Server Replacement**

In January we will try to find time with the vendor to finish up this project.

**Network Hardware Replacement**

We are still waiting on some of the parts to arrive. Once we have the hardware we will be able to set up time with the vendor to finish the install.

**Server Hardware Replacement**

In November I placed the order for the server hardware. The supplier is not able to provide estimated shipping dates so I am expecting it to be up to six months before we receive enough of the parts to be able to begin this project. Although, some of the hardware has already arrived.

**Projects**

1. Cyber Security
2. SCADA Server Replacement
3. Network Hardware Replacement
4. Server Hardware Replacement

Sincerely,

Matt Stormoen  
Information Systems Administrator



### *Water Works and Lighting Commission*

221 16<sup>th</sup> Street So. P.O. Box 399 Wisconsin Rapids, WI 54495-0399 715/423-6300 FAX: 715/423-2831

## **Conservation Manager Report December 2022**

### **Ocean Spray Cranberry Meeting**

The OSC facility requested a meeting with WW&LC and Focus on Energy's Large Industrial Energy Advisor. The meeting was structured to discuss 2023 energy efficiency prescriptive and custom incentives offered through the program. I offered their management team an overview of their electric charges, load profile data (Smarthub) and Time of Day rate design. A detailed electrical infrastructure map was presented along with existing transformer load information in case of expansion. I found this significant to elaborate on how their facility is being fed from the WR Substation and the secondary, back up feed offering greater reliability in case of an outage situation.

OSC has asked if we could eliminate manual monthly water reads being done by our Meter Department, or combining any water meters together to save on meter charges. At this point, Adam Breunig and the Water Department are discussing the possibilities, and will share with me any potential options that I can offer Ocean Spray.

### **Lincoln High School**

WRPS Maintenance Superintendent contacted me back in May inquiring about an electric analytics company called CLOCworks. I offered my assistance to join in on the meeting to see what they had to offer the school district and give a recommendation. CLOCworks uses detection and diagnosis software using technology to enhance operations and improve their building's performance, and save on electric costs. Considering, it was a no cost risk to contract the company The Superintendent and I agreed it could benefit in electric cost savings to the high school and to move forward with the project.

On November 28<sup>th</sup> WW&LC terminated power to the high school for CLOCworks to set up data monitoring equipment at the electrical main. On December 19<sup>th</sup> I met with the Superintendent and CLOCworks to administer a walkthrough of

electrical equipment, and have discussions of billing charges that have an effect on time periods being investigated during On- peak time periods. I have offered my assistance with sharing load profile information throughout this project. CLOCworks has been added, per request of LHS, to Smarthub. The monitoring equipment will be present for a two year period. We will be having monthly virtual meetings to view analytic reports, while discussing load shaving recommendations and its progress.

Respectfully,

*Shawn Reimer*

Key Accounts/Conservation Manager



*Water Works and Lighting Commission*

221 16<sup>th</sup> Street So. P.O. Box 399 Wisconsin Rapids, WI 54495-0399 715/423-6300 FAX: 715/423-2831

**ELECTRICAL ENGINEER'S REPORT  
December, 2022**

**Equipment Oil Maintenance**

After getting our equipment oil test results back from ATI, we discovered a couple pieces of equipment that need some maintenance. The West transformer at West Wisconsin Rapids Sub was found to have a high level of water in its oil, and the regulators for the High School feeder at High School Sub showed high levels of combustible gases (most likely due to their age) in their oil samples. I have written switching procedures to transfer load off of these pieces of equipment while EPS runs through their maintenance routine. For the West Sub transformer, the routine includes pumping the oil from the bottom of the transformer's tank through their vacuum pump/filtering system, then recycling the clean oil back to the top of the tank. For the High School Sub regulators, they will be pulling the mechanism out of its oil tank, inspecting it, and replacing the old oil with new oil. After this, they will retest the oil to make sure the issue has been mitigated. The transformer at West Sub has been completed, and we are on our second postponement of the High School regulators due to weather. We now have a plan to complete the work sometime in the middle of January.

**PLC Upgrade Project Update**

The PLC parts I had ordered in the beginning of September for this project have finally arrived. I will be spending the next couple of months coming up with a plan for the rollout of these new PLC's and getting them programmed for use the field.

*Tyler Sneen*  
Electrical Engineer



*Water Works and Lighting Commission*

221 16th St. So. P.O. Box 399 Wisconsin Rapids, WI 54495-0399 715/423-6300 FAX: 715/423-2831

**DIRECTOR OF ENGINEERING AND ELECTRIC OPERATIONS REPORT  
December 2022**

**ENGINEERING AND ELECTRIC OPERATIONS 2022 ACCOMPLISHMENTS**

I am very proud of the work the engineering department, the meter department, and the line department accomplished in 2022. Below is a summary of those items.

**Work Orders and Service Orders processed in 2022**

318 electric work orders processed  
122 water work orders processed  
567 service orders processed  
525 failed meters were replaced

**Capital Budget**

The electrical capital budget for 2022 was \$2,995,000. This was 3.5% less than the approved 2021 amount. Despite the majority of the material costs doubling and in some cases tripling since 2020; the electrical department did an amazing job staying within budget and is anticipating being under budget at the end of the year.

**Material Allotment**

Major materials with long deliveries were ordered in 2022 so that they would arrive in time for the 2023 projects. Examples include; transformers, which use to have an 8-week delivery our now out to 78 weeks and the 480-volt 3ph breaker panel needed in the filter plant, had a 64-week delivery.

**WR West Substation South Building Upgrade**

During the spring of 2022, a portion of the 15kV bus in the switchgear faulted in the South Building at the WR West Substation resulting in damage to the bus and the tiebreaker. The original building and equipment was installed in 1989, and has started showing its age, but during the fall, we were able to take this

equipment out of service and make some much-needed repairs to the switchgear and building so that it continues to function reliably.

### **Coyne Substation IR Hot Spot Repairs**

While performing the yearly thermal scans in the spring, major "hot spots" were found in two identical pieces of 15kV switchgear installed in 2020 for the Matalco Plant. Bad engineering and design by the Eaton/Cooper Power Systems had placed the power cables too close to the control cables which resulted in arcing and tracking and failure of the insulating cable jacket. Both pieces of equipment were taken out of service before a major failure occurred which might have damaged the equipment beyond repair. The power cables were replaced and the control cables rerouted to prevent the problem in the future.

### **Underground Conversion Projects**

The following areas in our service territory were converted to underground.

- Hayes Ave. (Trailer Court)
- Hafernann Hts.
- Bridgewater Development
- Brown St.
- County Jail Expansion

### **Pole Replacement**

260 of the poles that have tested bad and categorized as a danger were replaced in 2022, these poles were primary single phase distribution poles located on the east side of our service territory, but this year 8 of the 70 foot 46kV poles were also part of the ones replaced.

### **Filter Plant MCC Electrical Issues**

The AC variable speed drives in the filter plant showed problems this year from the chlorine and moisture in the environment. This was particularly true with pump #7's equipment. A great deal of time went into troubleshooting the problems and replacing some of the control boards. A new project in 2023 will relocate some of the more sensitive equipment to a new sealed room to protect it from the conditions.

### **Filter Plant Air Wash Valve Actuators**

The existing pneumatic operated Air Wash Valves, which were installed in 2004, were replaced with electric operated valves to improve reliability for all five of the filter beds.

### **Raw Water Lining Project**

Management and engineering of this major project and construction observation

was completed in October of 2022.

### **Water Department Inspection Assets were added into the GIS Database**

All of the water department assets for Cherry St, Smith St, W Jackson St, 9<sup>th</sup> Ave N, and Fremont St were added into the GIS database.

### **Water Department Updates**

The water departments Hydraulic Model and Sizing Recommendations were updated per 2021 changes. WDNR/PSC Approvals and Permits obtained for Collector 2/3 Cleanings, Raw Water Main Project, and Optimal Corrosion Control Study were completed.

### **AMI Collector Upgrades**

The remaining Automatic Meter Reading Collectors were upgraded from radio to cellular communication.

### **Traffic Light Maintenance**

The crews did a nice job maintaining the city's traffic lights this year especially at 2<sup>nd</sup> Ave and the Expressway where a car accident destroyed the entire control cabinet and new one needed to be installed.

### **LED Lights**

125 LED lights were installed this year throughout the city, over 3/5 of all of the lights in the city have been converted to the new LED styles.

### **NERC Documents**

All of the proper documents were submitted to the Midwest Regional Organization (MRO) for 2022. All of these documents are part of the requirements of the North American Electric Reliability Corporation's (NERC) standards that WW&LC is required to report on for the Federal Government.

### **Security Cameras**

Security Cameras were installed at all of the Water Towers this year, completing a project, which was started a few years ago to install cameras at all remote sites including the wells and substations.

*Todd Weiler, P.E.*

Director of Engineering & Electric Operations



*Water Works and Lighting Commission*

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**GENERAL MANAGER'S REPORT  
December 2022**

**Power Supply Services:** On December 6<sup>th</sup> select GLU Board members attended a lengthy conference call with ACES. ACES will be GLU's power supply services provider beginning in July of 2023. The conference call was scheduled to negotiate and finalize the 3-year agreement with ACES. I just received an updated and amended contract to review prior to execution.

**Municipal Electric Utilities of Wisconsin:** The MEUW Board of Directors met via conference call on December 14<sup>th</sup>. The purpose of the call was to review and approve the 2023 budget. The Executive Committee had already endorsed the budget. MEUW had a good financial year in 2022. The Board approved the 2023 budget which includes a 4% increase in membership dues and a 6% increase in job training safety (linemen).

**Great Lakes Utilities:** The GLU Board met via conference call on December 20<sup>th</sup>. The meeting was to review and approve the final 2023 budget, which has been a moving target due to the escalating energy prices across the country. The budget was approved with a 7% increase in costs.

**Thank you:** I want to thank all of our employees and the Commission for an excellent 2022. Considering the business environment we are presently experiencing, it was a successful year. The Utility stayed under its budget through a crazy year of increased costs of materials and much longer lead times to receive them. The Utility continues to provide very reliable services at competitive rates compared to all of the state's utilities. Thanks again for all of your efforts.

Jem Brown  
General Manager