



BOARD OF WATERWORKS COMMISSIONERS AGENDA

April 26, 2023 at 3:30 PM

Water Utility Admin Office, 72 Park Avenue, Sheboygan WI

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. Approve minutes of the March 20, 2023 minutes

REPORTS

- [3.](#) Financial reports and approval of vouchers
- [4.](#) Superintendent's report including operations, construction-maintenance, and customer relations/fiscal
5. Update on the Raw Water Improvements project

ITEMS FOR DISCUSSION AND POSSIBLE ACTION

- [6.](#) Request purchase of water main materials
- [7.](#) Request approval of fire hydrant painting proposal
- [8.](#) Request approval of bids on N. 20th Street LSL project
- [9.](#) Request approval of bids on Michigan Ave and N. 12 Street LSL project
10. Request approval of R.O. submitting 1st quarter report
11. Request approval of audited 2022 financial reports
- [12.](#) Request approval of water meter purchase
13. Request Board approval on funds reallocation

PERSONNEL

NEXT MEETING

14. Next meeting will take place on: May 22, 2023

ADJOURN

15. 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

MARCH 2023

	<u>2023</u>	<u>2022</u>	Increase or (Decrease)
<u>Quarterly Metered*</u>			
(Dist I - north of Superior Ave)			
Residential	230,500.17	231,922.28	(1,422.11)
Multi-Family	18,296.25	17,338.33	957.92
Commercial	13,130.30	11,529.49	1,600.81
Industrial	498.52	673.56	(175.04)
Public	<u>3,039.91</u>	<u>3,146.70</u>	<u>(106.79)</u>
Subtotal	265,465.15	264,610.36	854.79

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

Public Fire Protection	65,505.92	64,996.21	509.71
Flat Rate	32,195.68	31,412.39	783.29
Monthly Metered	<u>342,862.87</u>	<u>347,384.34</u>	<u>(4,521.47)</u>
Sheboygan Net	706,029.62	708,403.30	(2,373.68)
Sheboygan Falls	42,792.82	47,124.04	(4,331.22)
Kohler	<u>25,702.20</u>	<u>27,232.78</u>	<u>(1,530.58)</u>
Total	774,524.64	782,760.12	(8,235.48)

Total accumulative billing for 2023 is \$2,371,296.02. An increase of \$24,804.93 from 2022 accounted for as follows:

	<u>2023-Total Year to Date</u>
Sheboygan	39,056.79
Sheboygan Falls	(10,679.41)
Kohler	<u>(3,572.45)</u>
	24,804.93

Total bills mailed March, 2023: 6,951

Residential	6,218	Wholesale	5	Residential	3
Multi-Family	85	Multi-Family	9	Multi-Family	11
Commercial	212	Commercial	20	Commercial	194
Industrial	6	Industrial	65	Industrial	63
Public	34	Public	4	Public	22
Quarterly	6,555	Monthly	103	Flat Rate	293



RETURN ON RATE BASE

March 31, 2023

	MARCH 2023	MARCH 2022
<u>Add 2 YR Average</u>		
Utility Plant Balance	\$ 76,400,001	\$ 69,392,058
Materials and Supplies Inventory	\$ 241,960	\$ 251,894
<u>Less 2 YR Average</u>		
Reserve for Depreciation	\$ 25,469,079	\$ 24,025,688
Customer Adv for Const	\$ 1,564	\$ 1,564
Average Rate Base	\$ 51,171,318	\$ 45,616,701
Net Operating Income YTD	\$ 133,710	\$ 286,948
Net Operating Income As a Percent of Average Net Rate Base	<u>0.26%</u>	<u>0.63%</u>

Rate base is calculated using the two year average balance in the following accounts:

Utility Plant Balance - includes all capital assets less any contributed capital assets.

Materials and Supplies Inventory - includes all materials and supplies on hand and in inventory.

Reserve for Depreciation - includes depreciation on capital assets less any contributed capital assets.



CASH RESERVE

March 31, 2023

Ending balance on report for February 28, 2023	<u>11,296,502.54</u>
Plus: Receipts	314,324.39
Misc Receipts	34,021.02
Direct Pay Receipts	403,696.14
Stop Loss Reimbursement	-
Money Market/CDARs Investment Interest	5,696.61
Minus:	
Disbursements - vendors and payroll	(1,290,367.13)
Bank Service Fees	(380.30)
Health & Dental Claims/Adm Costs	(78,002.76)
NSF Checks & Customer Refunds	(1,693.35)
Invoice Cloud/Paymentech Deposit Fees	(7,693.67)
Reallocate Sewer/Garbage - payments	(1,986.49)
Reallocate Sewer/Garbage - monthly	(53.34)
Online Allocation in Transit	2,900.07
SDWL LSL Reimbursement	-
SDWL RWI Reimbursement	1,896,134.15
Receipt of Cell Tower Rent	30,367.43
Automated Credit Card Payments	(4,275.38)
Postage	(265.58)
Utility Water Payments	(4,576.55)
Ending Balance March 31, 2023	<u>\$ 12,594,347.80</u>

Note: The above amount includes:

Bond Reserve Fund	644,319.88
LSL Revolving Loan Fund	229,113.58
Money Market Investment	4,010,303.41
ARPA Money Market Restricted - RWI	2,849,956.31
	-
Total	<u>\$ 7,733,693.18</u>

General Unrestricted Operating Cash	4,860,654.62
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STATEMENT OF NET POSITION
MARCH 31, 2023 AND 2022

<u>Assets and Other Debits Utility Plant</u>	<u>Year to Date 2023</u>	<u>Year to Date 2022</u>	<u>Liabilities and Other Credits</u>	<u>Year to Date 2023</u>	<u>Year to Date 2022</u>
			<u>Proprietary Capital</u>		
Utility Plant	90,087,606	78,586,511	Capital Paid by Municipal	1,640,701	1,640,701
Depreciation- Utility Plant	28,282,796	26,678,412	Unapprop. Earned Surplus	53,912,155	47,059,015
Net Utility Plant	<u>\$ 61,804,809</u>	<u>\$ 51,908,100</u>	Total Proprietary Capital	<u>\$ 55,552,856</u>	<u>\$ 48,699,716</u>
<u>Other Property and Investments</u>			Bonds, Loans & Advances	14,380,704	12,604,954
Appropriated Funds	3,079,070	995,396	Total Long Term Debt	<u>\$ 14,380,704</u>	<u>\$ 12,604,954</u>
Bond Redemption Fund	644,320	668,414			
Net Pension Asset ¹	992,887	769,762			
Deferred Outflow - Pension & OPEB ¹	2,025,204	1,402,233	<u>Current & Accrued Liabilities</u>		
Total Other Prop & Investment	<u>\$ 6,741,481</u>	<u>\$ 3,835,805</u>	Accounts Payable	24	-
			Accrued Liabilities	1,267,205	1,049,849
			Unearned Revenue ⁴	5,028,941	-
			Total Current & Accrued Liab.	<u>\$ 6,296,170</u>	<u>\$ 1,049,849</u>
<u>Current and Accrued Assets</u>			<u>Deferred Credits</u>		
Cash & Investments	8,871,708	7,630,564	Bond Premium	158,025	176,127
Accounts Receivable	1,779,689	1,415,481	Pre 2003 Depr on Contributed Assets	18,804	43,938
LSL Loan Receivable ³	149,578	237,275	Other Deferred Credits	0	0
Grant Receivable - Restricted ²	29,036	8,250		<u>\$ 176,829</u>	<u>\$ 220,065</u>
Materials & Supplies Inventory	250,729	233,192			
Prepaid Expenses	33,039	32,010	<u>Operating Reserves</u>		
Total Current & Accrued Assets	<u>\$ 11,113,779</u>	<u>\$ 9,556,772</u>	Net Pension & OPEB Liability ¹	190,275	357,040
			Deferred Inflow - Pension & OPEB ¹	2,402,200	1,752,555
Total Assets and Debits	<u>\$ 79,660,069</u>	<u>\$ 65,300,677</u>	Accrued Vac & Sick Leave	661,036	616,498
			Total Operating Reserve	<u>\$ 3,253,511</u>	<u>\$ 2,726,093</u>
			Total Liab & Other Credits	<u>\$ 79,660,069</u>	<u>\$ 65,300,677</u>

¹ See full audited Financial Statements for disclosures and details regarding pensions and OPEB.

² Grants Receivable - Restricted pertains to the Lead Water Service Lateral Replacement Program funded by the DNR.

³ Receivable related to the SWU LSL loan program.



STATEMENT OF REVENUE, EXPENSES AND CHANGES IN NET POSITION
MARCH 31, 2023 AND 2022

	2023		2022		Incr (Decr)	% Incr/Decr
	MONTH	YTD	MONTH	YTD	YTD	YTD
Sales Revenue	\$ 815,748	\$ 2,064,044	\$ 822,746	\$ 2,047,421	\$ 16,622	0.81%
Other Water Revenue ¹	\$ 4,556	\$ 12,143	\$ 5,383	\$ 15,649	\$ (3,506)	-22.41%
Total Operating Revenues	\$ 820,304	\$ 2,076,186	\$ 828,129	\$ 2,063,070	\$ 13,116	0.64%
Operating Expenses ²	423,171	1,028,933	319,366	868,938	159,996	18.41%
Maintenance Expenses ³	110,200	250,358	89,246	219,331	31,027	14.15%
Depreciation Expenses	132,099	412,956	130,670	410,322	2,634	0.64%
Taxes ⁴	103,513	250,229	107,872	277,533	(27,304)	-9.84%
Total Operating Expenses	\$ 768,983	\$ 1,942,476	\$ 647,153	\$ 1,776,122	\$ 166,353	9.37%
Utility Operating Income	\$ 51,320	\$ 133,711	\$ 180,976	\$ 286,948	\$ (153,238)	-53.40%
Other Income & Expense						
Non-operating Grant Revenue	7,150	29,036	-	-	29,036	
Non-Operating Grant Expenses	(7,150)	(29,036)	-	-	(29,036)	
Bond Premium	2,739	8,218	2,989	8,967	(749)	
Interest Earned on Investments	5,697	17,448	338	2,348	15,099	
Contributions	-	-	3,128	3,128	(3,128)	
Other Expense	-	-	-	-	-	
Misc Amortization	2,094	6,283	2,094	6,283	-	
Bond Interest Expense	(89,492)	(269,072)	(25,033)	(75,685)	(193,387)	
Change in Net Position⁵	\$ (27,641)	\$ (103,413)	\$ 164,493	\$ 231,990	\$ (335,402)	

¹ The increase in Other Water Revenues is due to an increase in miscellaneous billings.

² The increase in Operating Expense is due to an increase in chemical costs, water treatment supplies and salaries, distribution locating services, third party billing implementation, and web hosting services.

³ The increase in Maintenance Expense is due to pumping structures maintenance and distribution maintenance in the upper plant garage.



APPROVAL OF VOUCHERS
March 31, 2023

<u>Total Of The General Vouchers</u>	<u>\$ 946,375.37</u>
<u>Gross Payroll *</u>	<u>\$ 295,186.47</u>
<u>Net Payroll*</u>	<u>\$ 178,324.88</u>

* Three payrolls in March

BOARD OF WATER COMMISSIONERS

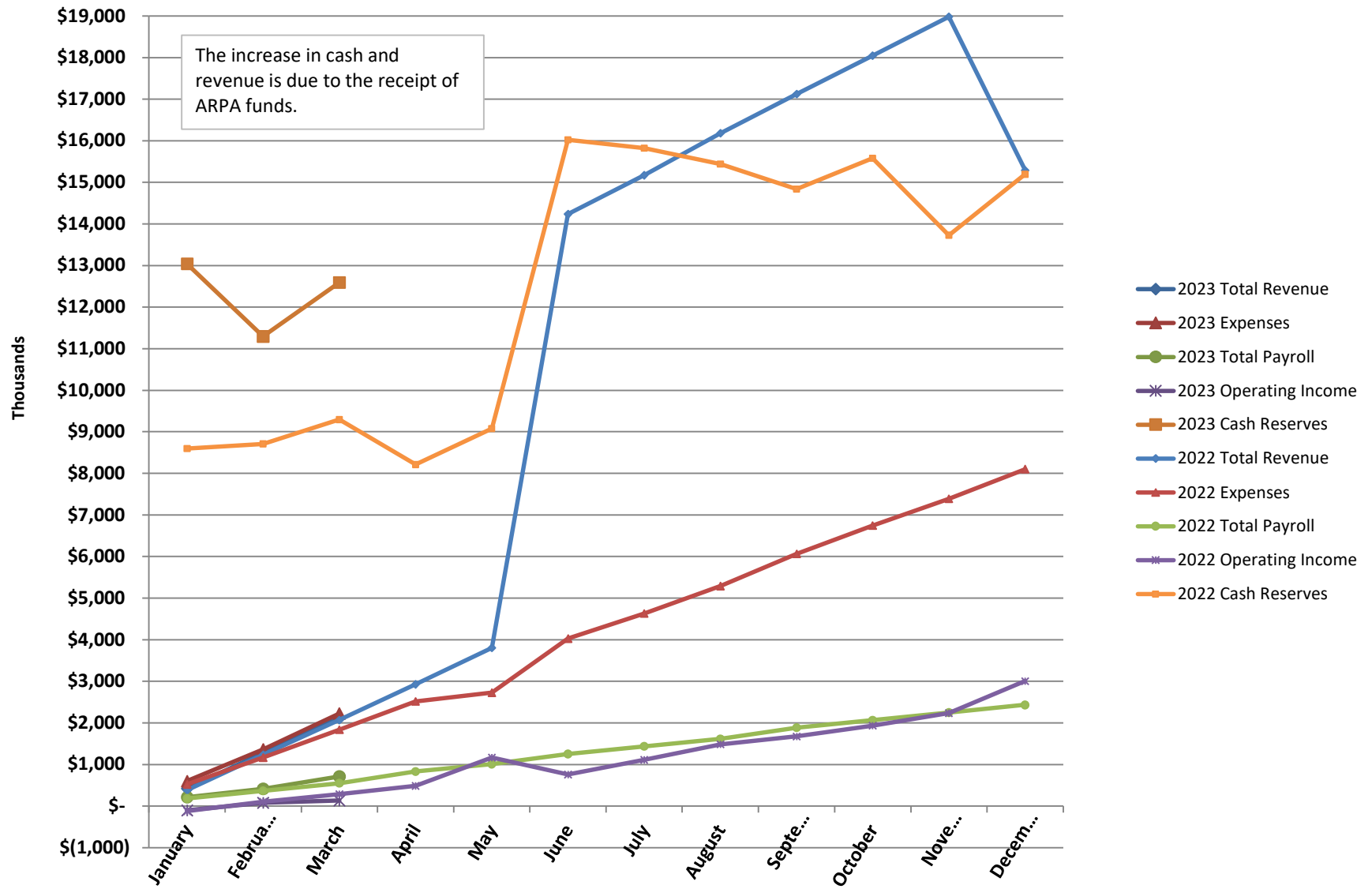
 PRESIDENT

 SECRETARY

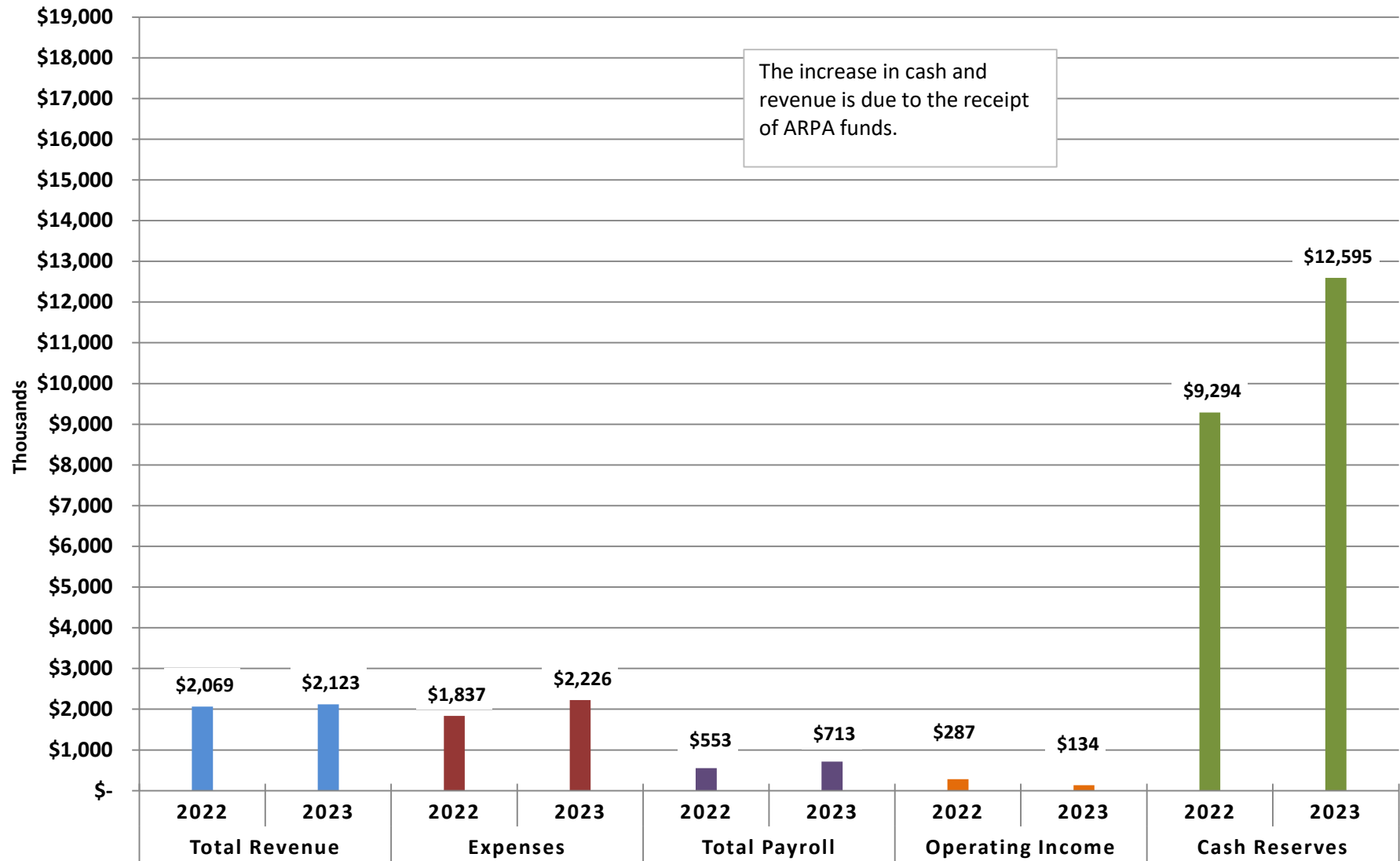
 MEMBER

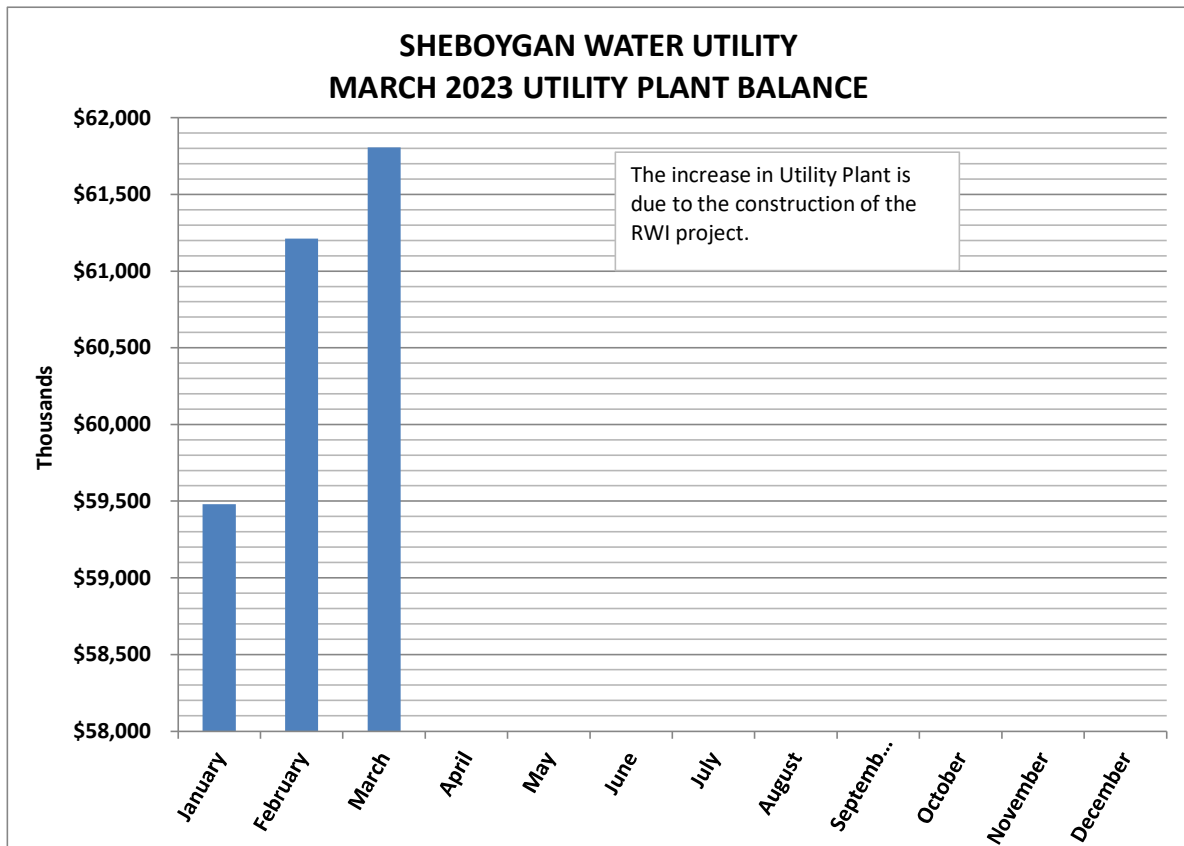
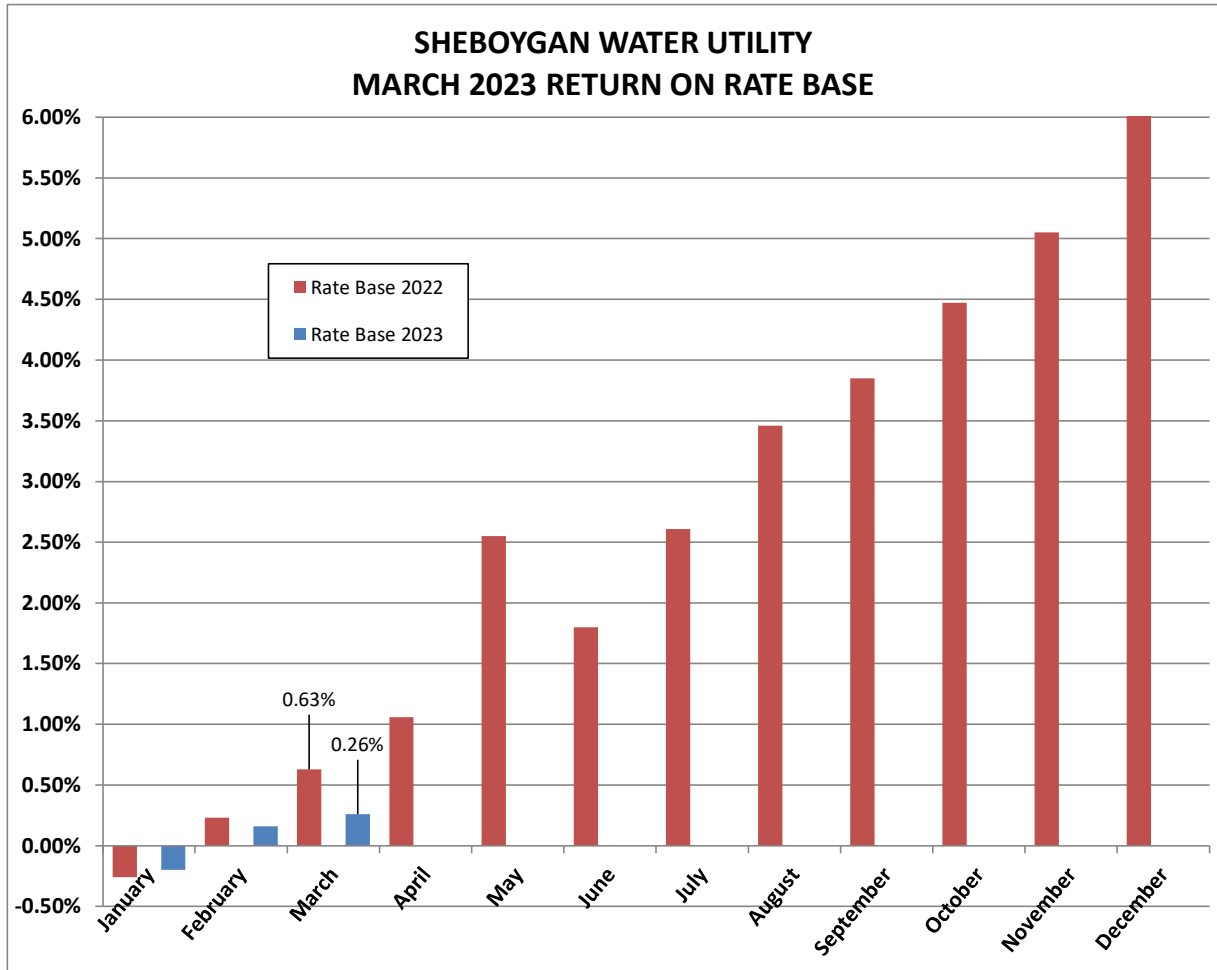
 SUPERINTENDENT

SHEBOYGAN WATER UTILITY MARCH 2023 MONTHLY FINANCIAL TREND



SHEBOYGAN WATER UTILITY MARCH 2023 YTD FINANCIAL POSITION





March 2023

OPERATIONS' DEPARTMENT MONTHLY REPORT

PUMPAGE	HIGH LIFT		LOW LIFT		2023 VS 2022
	2022	2023	2022	2023	HL
Total in MG	363.796	357.427	363.783	372.929	-1.75%
Daily Average (MG)	11.735	11.548	11.735	12.030	
Max. Day (MG)	12.938	12.760	13.046	13.100	2023 VS 2021
					HL
Gal/KwH	1,192	1,188	4,832	4,886	-3.13%
ELECTRICAL COSTS					
		2022		2023	
A. Pumping:		KwH	\$	KwH	\$
High Lift		302,349	\$22,443.33	299,307	\$24,936.75
Low Lift		74,889	\$5,559.01	75,838	\$6,318.44
Wash Pump 1		2,800	\$207.84	10,500	\$874.81
Georgia St. Bstr.		51,600	\$5,044.52	59,700	\$5,977.28
Wilgus Ave. Bstr.		3,500	\$470.30	3,000	\$428.91
EE Pit / Bstr.		6,357	\$814.50	6,450	\$874.79
Erie Ave. Bstr.		0	\$0.00	16,000	\$2,397.48
Sub Total		441,495	\$34,539.50	470,795	\$41,808.46
					\$/KwH 13.5%
B. Treat./Fiscal/Misc.		KwH	\$	KwH	\$
Office & Maint. Bldg.		3,910	\$407.83	4,858	\$675.38
Filter Plant / Pump Station / 2nd Service		63,362	\$5,197.94	63,155	\$5,924.06
Sub Total		67,272	\$5,605.77	68,013	\$6,599.44
					\$/KwH 16.4%
C. Distribution:		KwH	\$	KwH	\$
Taylor Hill Tank		2,529	\$339.83	2,622	\$370.45
Kohler Meter Pit		0	\$0.00	0	\$0.00
EE Tower		1,957	\$271.43	1,449	\$214.49
Washington (PRV) Pit		1,509	\$223.04	1,096	\$175.48
Sub Total		5,995	\$834.30	5,167	\$760.42
					\$/KwH 13.5%
Total Electrical Costs		514,762	\$40,979.57	543,975	\$49,168.32
Electrical Cost / MG			\$112.64		\$137.35
NATURAL GAS COSTS					
		2022		2023	
		CCF Used	Cost	CCF Used	Cost
Production Facility		2,386	\$1,501.75	1,903	\$1,646.12
South Basin		3,083	\$1,892.74	2,705	\$2,473.37
Georgia St. Bstr.		182	\$135.97	143	\$150.66
Erie Ave. Bstr.		362	\$255.20	315	\$292.53
Wilgus Ave. Bstr.		55	\$50.00	49	\$61.75
Office & Maint. Bldg.		941	\$584.53	1,130	\$1,042.99
Total Natural Gas Costs		7,009	\$4,420.19	6,245	\$5,667.42
					\$/CCF 43.9%
Natural Gas Cost / MG			\$12.15		\$15.83
CHEMICAL COSTS					
		2022		2023	
		Lbs. Used	Cost	Lbs. Used	Cost
Alum		68,226	\$12,383.02	81,009	\$16,323.31
Carbon		0	\$0.00	0	\$0.00
Chlorine		7,018	\$10,386.64	6,776	\$13,755.28
Fluoride		1,856	\$2,579.84	1,643	\$3,321.32
KMnO4		0	\$0.00	0	\$0.00
Cationic Polymer		1,417	\$2,196.97	1,374	\$2,129.70
Liquid Phosphate		3,479	\$5,489.86	4,001	\$12,239.06
Total Chemical Costs			\$33,036.33		\$47,768.68
					44.6%
Chemical Cost / MG			\$90.81		\$133.44
Grand Total			\$78,436.09		\$102,604.42
					30.81%
Total Cost / MG			\$215.60		\$286.62
					32.94%

YTD HL 2023 vs 2022	-4.74%	YTD HL HIGH DAY PUMPAGE	13.403	January 30, 2023
YTD HL 2023 vs 2021	-2.55%	YTD HL LOW DAY PUMPAGE	9.294	January 1, 2023

NOTE:

2023 Electrical costs include an Alliant Energy 8.3% rate increase approved by PSC.

	YTD HL Ave Day
2023	11.448
2022	12.036
2021	11.752

COMPARATIVE SUMMARY OF PLANT OPERATIONS

March 2022

vs

March 2023

Pumping Record

High Lift

Low Lift

	2022	2023	Diff.		2022	2023	Diff.
Tot. Water in MG	363.796	357.427	-1.75%	Tot. Water in MG	363.783	372.929	2.51%
Daily Average	11.735	11.548	-1.59%	Daily Average	11.735	12.030	2.51%
Maximum Day	12.938	12.760	-1.38%	Maximum Day	13.046	13.100	0.41%
Minimum Day	9.904	9.645	-2.62%	Minimum Day	9.979	9.869	-1.10%
By Natural Gas	3.474	2.365	-31.92%	By Natural Gas	1.939	2.365	21.97%
Power in KWH	302,349	299,307	-1.01%	Power in KWH	74,889	75,838	1.27%
Gals. per KWH	1,192	1,188	-0.32%	Gals. per KWH	4,832	4,886	1.12%
Power \$ / KWH	\$0.07423	\$0.08331	12.24%	Power \$ / KWH	----	----	----
Power \$ / MG	\$61.69	\$69.66	\$7.97	Power \$ / MG	\$15.28	\$16.94	\$1.66
Tot. Power \$/MG	\$113.89	\$138.49	\$24.60	Tot. Power \$/MG	----	----	----

Treatment Chem.

Lbs. Used

Cost

Total Lbs.	2022	2023	Diff.	Total Cost	2022	2023	Diff.
Alum	68,226	81,009	18.74%	Alum	\$12,383.02	\$16,323.31	\$3,940.29
Carbon			#DIV/0!	Carbon	\$0.00	\$0.00	\$0.00
Chlorine	7,018	6,776	-3.45%	Chlorine	\$10,386.64	\$13,755.28	\$3,368.64
KMnO4	0	0	#DIV/0!	KMnO4	\$0.00	\$0.00	\$0.00
Polymer	1,417	1,374	-3.03%	Polymer	\$2,196.97	\$2,129.70	(\$67.27)
Liquid Phosphate	3,479	4,001	15.00%	Liquid Phosphate	\$5,489.86	\$12,239.06	\$6,749.20
Lb/ MG:				Cost / MG:			
Alum	187.5	217.2	15.82%	Alum	\$34.04	\$43.77	\$9.73
Carbon	0.0	0.0	#DIV/0!	Carbon	#DIV/0!	#DIV/0!	#DIV/0!
Chlorine	19.3	18.2	-5.82%	Chlorine	\$28.55	\$36.88	\$8.33
KMnO4	0.0	0.0	#DIV/0!	KMnO4	#DIV/0!	#DIV/0!	#DIV/0!
Liquid Phosphate	9.6	10.7	12.18%	Liquid Phosphate	\$15.09	\$32.82	\$17.73
Fluoride:	2022	2023		Fluoride:	2022	2023	
Total Lbs.	1,856	1,643	-11.48%	Cost	\$2,579.84	\$3,321.32	\$741.48
mg/l applied as F	0.67	0.74		Cost/MG	\$7.10	\$9.29	\$2.19
Av. Res. Plt. Tap	0.67	0.71					

Water Quality:

Raw

TAP

	2022	2023
Turbidity	7.80	10.10
pH	8.24	8.23
Alkalinity	114.0	118.2
MF (E-Coli)	4.6	3.9
Temperature	35.0	35.8
Wash-H2O % /LL	1.77	2.38
Av. Flt. Run/hrs	148.9	93.7
Av. ROF / MG	1.32	1.41

	2022	2023
Turbidity	0.060	0.040
pH	7.54	7.52
Alkalinity	102.7	104.9
Plate Count	0.00	0.00
Colilert	0	0
Temp.	36.2	37.6
Cl Res.	0.84	0.88

Natural Gas:

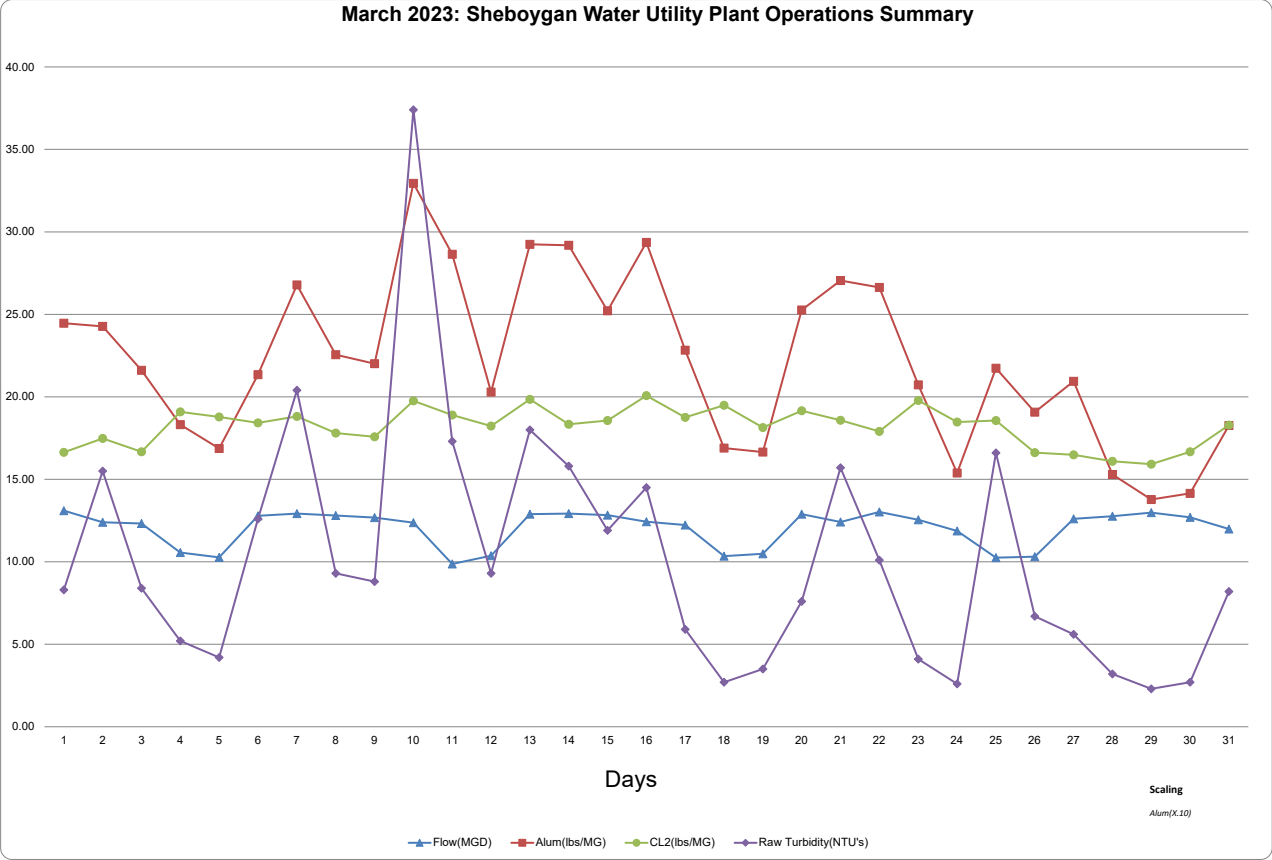
	2022	2023		2022	2023	Diff.
Nat. Gas Heating	2,700	4,048	Plant & South Basin	\$5,208.32	\$3,635.34	(\$1,572.98)
Nat. Gas Pumping	383	560		\$51.98	\$484.15	\$432.17

	CCF	Cost	Natural Gas Cost	Natural Gas CCF
#3 Gas Pump	130.2	\$112.62	\$4,119.49	4,608
#4 Gas Pump	198.0	\$171.27		
#7 Gas Pump	107.5	\$92.99		
Electric Generator	124.0	\$107.26		
Pumping totals	559.7	\$484.15		

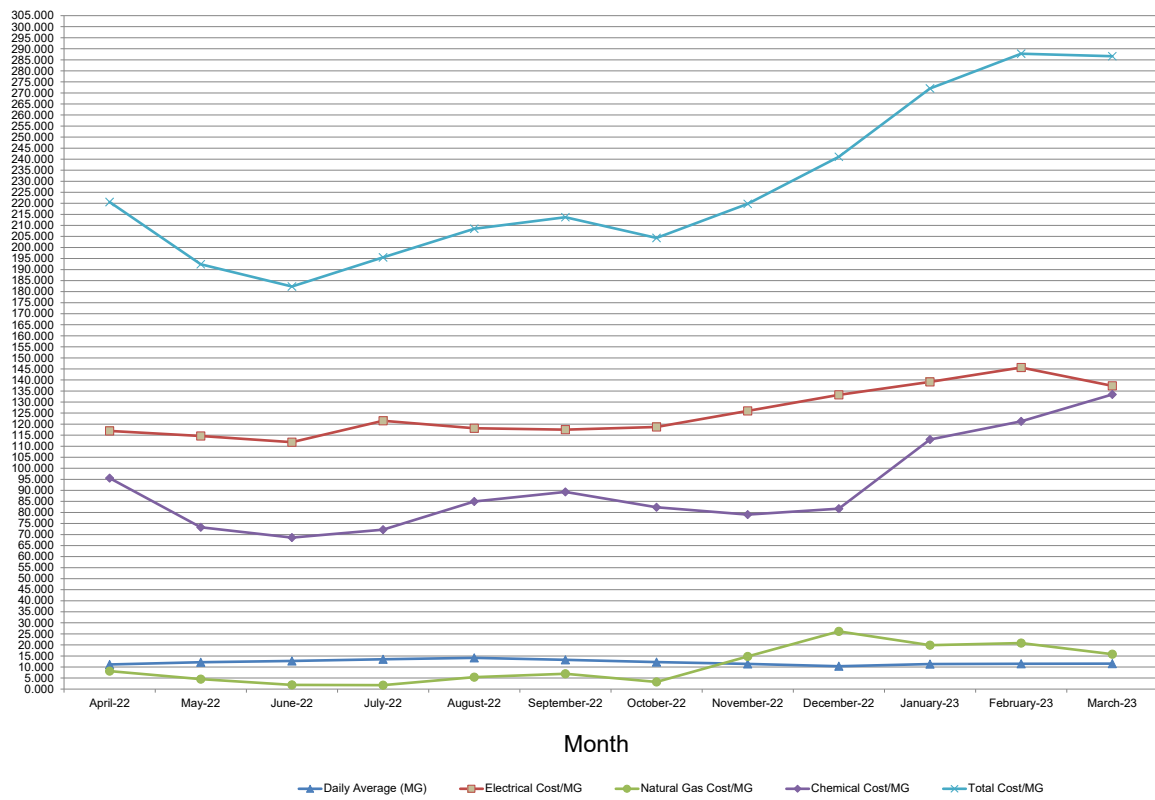
HIGH LIFT DELIVERY		QUARTERLY REPORT		2023
I. FIRST QUARTER		Jan - Feb - Mar		
		GALLONS	COST \$	\$/MG
	2022	1,079,805,000	\$233,346.76	\$216.10
	2023	1,028,642,000	\$290,526.13	\$282.44
	Percent Difference	-4.74%	24.50%	30.70%
II. SECOND QUARTER		Apr - May - Jun		
		GALLONS	COST \$	\$/MG
	2022	1,114,560,000	\$220,553.73	\$197.88
	2023	0	\$0.00	#DIV/0!
	Percent Difference	-100.00%	-100.00%	#DIV/0!
III. THIRD QUARTER		Jul - Aug - Sep		
		GALLONS	COST \$	\$/MG
	2022	1,253,674,000	\$258,395.90	\$206.11
	2023	0	\$0.00	#DIV/0!
	Percent Difference	-100.00%	-100.00%	#DIV/0!
IV. FOURTH QUARTER		Oct - Nov - Dec		
		GALLONS	COST \$	\$/MG
	2022	1,040,483,000	\$229,995.97	\$221.05
	2023	0	\$0.00	#DIV/0!
	Percent Difference	-100.00%	-100.00%	#DIV/0!
YEAR TO DATE : 2023				
		GALLONS	COST \$	\$/MG
ELECTRICITY CHEMICALS NATURAL GAS	2022	4,488,522,000	\$942,292.36	\$209.93
	2023	1,028,642,000	\$290,526.13	\$282.44
	Percent Difference	-77.08%	-69.17%	34.54%
YEAR TO DATE : 2023				
SLUDGE DISPOSAL to WWTP		GALLONS	COST \$	
	2022	4,203,119	\$35,328.38	
	2023	1,027,730	\$16,591.70	
STORM WATER CHARGES				
	2023	NA	\$0.00	
HIGH LIFT SYSTEM DELIVERY :				
	Maximum Pumpage Day	13,403,000	January 30, 2023	
	Minimum Pumpage Day	9,294,000	January 1, 2023	

	MG	\$	\$/MG
2022	4,488,522,000	\$942,292.36	\$209.93
2023	1,028,642,000	\$290,526.13	\$282.44

NOTE: Monthly sludge disposal costs do not reflect the current actual monthly sludge discharge total to date.
 Filtrate discharges from Spring/Fall sludge disposal operations are included in treatment plant sludge disposal costs.
 Spring/Fall basin sludge/residual solids volumes and disposal costs are contract work.
 Sludge disposal costs are not included in \$/MG.



Plant Operations: Expense Report



Filter Plant Maintenance Completed For March 2023

Subject	StartDate	EndDate	Description	Yellow indicates days operating or running labs
Low Lift Vacuum System	1-Mar-23		Clean low lift vacuum pot and install new gaskets.	
Sample customer water	1-Mar-23		Samples taken for water quality complaint	
Order battery backups	1-Mar-23		Count and type of battery backups needed for office personnel, backups ordered	
New hose #10 filter	1-Mar-23		New wash down hose installed on #10 filter	
Dan 2nd shift for Tyler	2-Mar-23	2-Mar-23	Dan covering 2nd shift for Tyler	
Filter 6 Tool	2-Mar-23		Fabricate a plug Allen to be used for installing 1 1/2 caps.	
Filter 11 Switches	2-Mar-23		Install new 480v switches on each actuator circuit.	
Dakota Supply Group	2-Mar-23		Purchase 3 x 480v switches to be installed on filter 11.	
Truck 6	2-Mar-23		Check SES light/code; knock sensor issue. Schedule appointment for next Friday at Genuine Mechanics.	
Battery backups in office	3-Mar-23		Battery backups installed in administration office	
Pipe Gallery	3-Mar-23		Gameplan pipe gallery with crew.	
Filter plant trash	3-Mar-23		Removed filter plant trash and cardboard	
Trillings	3-Mar-23		Trillings for filter plant maintenance parts	
Trilling's	3-Mar-23		Purchase more fasteners to be used during filter 6 maintenance.	
Dan Lab operations	6-Mar-23	6-Mar-23	Dan covering lab operations	
UV Reference Information	6-Mar-23		Calculate and enter UV reference information into Excel.	
UV Reactor Switch	6-Mar-23		Switch UV from West to East reactor.	
UV Reference Check	6-Mar-23		Perform UV reference check on West UV reactor.	
Monday Meeting	6-Mar-23		Topics include UV reference, UV switch from West to East, Pipe gallery maintenance with crew, Lab coverage, and Truck 6 service.	
Pipe Gallery	6-Mar-23		Install stainless steel strut, 3/8" rod, clevis hangers, and fasteners to hold electrical conduit and pipe in pipe gallery; between 7 and 9.	
Taylor hill heaters	7-Mar-23		Taylor hill reservoir to adjust heaters	
Dakota supply group	7-Mar-23		Dakota supply group for pipe gallery pipe hangers	
Filter 6 Tap	8-Mar-23		Fabricate a 1 1/2" tap for filter 6 maintenance.	
Menards	8-Mar-23		Purchase cleaning supplies, 1 1/2" iron pipe, beam clamps, gloves, and misc.	
Dakota Supply Group	8-Mar-23		Purchase MAP gas and 1/2" concrete drill bits; order 6" and 8" clevis hanger.	
Sodium Hypo South Feed	9-Mar-23		Replace hose and fittings on South basin hypo feed line.	
Filter Plant Trash removal	9-Mar-23		Filter Plant trash removal	
Filter 5	9-Mar-23		Replace filter 5 backwash actuator switch.	
Joshua 2 hours Sick Time	9-Mar-23		Joshua 2 hr. PT session.	
Fabricate brackets flow meter	10-Mar-23		Fabricate brackets for wash tank flow meter	
Install flow meter brackets	10-Mar-23		Installed flow meter brackets for wash tank flow meter in pit	
Filter plant truck	10-Mar-23		Dropped off filter plant truck for repairs	
Filter plant snow removal	10-Mar-23		Filter plant snow removal	
Replace raw water pump	11-Mar-23		Dan came in on weekend to replace leaking raw water pump	
East UV Reactor	13-Mar-23		Diagnose low flow at UVT% meter and misc. alarms triggered when put into manual UVT% mode; estop, high flow, etc.	
Snow Removal	13-Mar-23		Shovel sidewalk, door areas, and chemical delivery sites.	
Monday Meeting	13-Mar-23		Topics include UV alarms. Wash tank flow meter, truck 6, H.L. 3, coverage, and snow removal.	
Flow Meter	13-Mar-23		Continue installing strut hardware and cleanup.	
H.L. Pump 3	13-Mar-23		Begin trouble shooting gear oil leak; need to remove north cap.	
H.L. Pump 3	13-Mar-23		Check North bearing gear lube level; 1/2 quart low.	
Roberts Filter Group	14-Mar-23		Meet with Rachel and Gary from Roberts Filter Group.	
Dakota Supply Group	14-Mar-23		Purchase sample pump rebuild kit, 3/8" threaded rod, Clevis hangers, and 6" electrical box.	
Flow Meter	14-Mar-23		Install 1 1/2" conduit into floor, wall bracket, move sluice handles, and 6" electrical box.	
Filter 4	14-Mar-23		Perform filter pressure test.	
Filter 1	14-Mar-23		Perform filter pressure test.	
Filter 7	14-Mar-23		Perform pressure test using flow meter data.	
Flow Meter	14-Mar-23		Core 2" hole in floor for flow meter wiring.	
Sample Pump	14-Mar-23		Rebuild sample pump.	
Wash Tank Flow Meter	15-Mar-23		Complete flow meter wiring installation in south foyer vault.	
Truck 6	15-Mar-23		Approve repair and pickup vehicle.	
Maintenance Shop	15-Mar-23		Sharpen drill bits, clean floor, and organize.	

South Foyer	15-Mar-23		Vacuum and mop area.
Filter 11	16-Mar-23		Perform filter pressure test.
Joshua 2 hrs. Sick Time	16-Mar-23		Joshua 2 hrs. sick time for shoulder PT.
Filter 9	16-Mar-23		Pressure test filter 9.
Filter 3	16-Mar-23		Pressure test filter 3.
Joshua Covering 3rd Shift	17-Mar-23	17-Mar-23	Joshua covering 3rd shift for Mark.
Off loaded filter media	20-Mar-23		Off loaded filter media off semi-trucks
Menards	20-Mar-23		Purchase drill bits and counter/desk plugs.
Sodium Thio Eyewash Station	20-Mar-23		Flush sodium thio eyewash station.
DR5000 UPS Shelf	20-Mar-23		Install new shelf for DR5000 UPS.
Dan 2nd shift for Glen	21-Mar-23	21-Mar-23	Dan covering 2nd shift for Glen
H.L. Pump 4 Leak	21-Mar-23		Diagnose water leak effluent side of H.L. pump 4.
Filter 10	21-Mar-23		Begin cleaning up old/redundant wiring.
Filter 11	21-Mar-23		Remove old/redundant wiring, clean connections, and reroute wiring.
Filter 11 Diagnose	21-Mar-23		Diagnose possible wiring issue causing intermittent 0% rate of flow alarm; bad wire splice 2 feet from actuator.
Filter 11 Wiring	21-Mar-23		Pull new wire from table to rate of flow actuator.
Dan vacation	22-Mar-23	27-Mar-23	Dan on vacation
Filter 6	22-Mar-23		Begin removing Leopold caps.
Laboratory Upgrade	22-Mar-23		Begin contacting laboratory cabinet installer.
Filter 5	22-Mar-23		Perform pressure test.
East Basin South West Floc	22-Mar-23		Repair broken wire, check all other terminals, and reset system.
Raw Water Sample Pump	22-Mar-23		Install new bearings and hoses.
Wash Tank Flow Meter UPS	23-Mar-23		Install wash tank flow meter UPS.
Plant Garbage	23-Mar-23		Dispose of plant garbage and recycling.
Joshua Operate First Shift	23-Mar-23	23-Mar-23	Joshua operating first shift for Tyler.
Filter 11	23-Mar-23		Perform pressure test.
Dakota Supply Group	24-Mar-23		Purchase schedule 80 1/2 couplings, 3/4' adapters, and Milwaukee grinder.
H.L. Balcony Light	24-Mar-23		Install new L.E.D light above H.L. balcony.
Meter/H.L. Balcony	24-Mar-23		Sweep and mop floor.
Filter 6	27-Mar-23		Begin removing center grout and gasket sealant.
Front Gate	27-Mar-23		Repair gate
Dakota Supply Group	27-Mar-23		Purchase 1/2 pressure reduction valve and order 4 bearings for sample pump repairs.
West Basin UVT%	27-Mar-23		Recalibrate unit
Gas Engine 3	27-Mar-23		Setup H.L. 3 to run on natural gas.
H.L. South Exhaust Fan	27-Mar-23		Diagnose and repair louver control arm issue.
Filter Backwash Actuator	27-Mar-23		Install new fuses.
Floor Scrubber	27-Mar-23		Remove drive button, lubricate, re-install, and check operation.
Filter 6 Leopold Port	28-Mar-23		Port fifteen 1 13/16 holes into Leopold bottoms.
Filter 6 Wash 1	28-Mar-23		Wash filter; 6.5 psi @ 60%.
Filter 6 Wash 2	28-Mar-23		Wash filter; 6.5 psi @ 60%.
Vac Truck	28-Mar-23		Empty vacuum housing, fill with gasoline, and add oil to engine.
Filter 6 Port Plug	28-Mar-23		Plug mid filter openings and 7 end ports; chambers looked to be clear of media.
Filter 6 Vacuum 4	28-Mar-23		Vacuum filter.
Filter 6 Vacuum 3	28-Mar-23		Vacuum filter.
Filter 6 Wash 3	28-Mar-23		Wash filter; 7.3 psi @ 62% with pump 1.
Leopold Matt Filter 6	29-Mar-23		Matt on site to assist in underdrain flushing.
Filter 6 Vacuum 5	29-Mar-23		Vacuum filter.
Flow Meter Wiring	29-Mar-23		Finish running flow meter wiring to box above meter.
Filter 6 Wash 5	29-Mar-23		Wash filter.
South Basin Bathroom	29-Mar-23		Clean toilet, scrub sink, and wash floor.
Tap Reagents	29-Mar-23		Fill SWAN hypo meter reagents.
Filter Hall	29-Mar-23		Sweep filter hall floor and organize work table by 6.
Josh 1st shift operating	30-Mar-23	30-Mar-23	Josh covered 1st shift operations
Filter #6 filter rehab	30-Mar-23		Filter #6 filter rehab
Filter #6 filter rehab	31-Mar-23		Filter #6 rehab work



MONTHLY DISTRIBUTION DEPARTMENT REPORT

March 2023

Distribution System Maintenance:

- Repaired several water main breaks within the city.
- Poured temporary service hole repair patches for water main breaks.
- Completed hydrant checks.
- Trucked out spoils.
- Hauled in fill to replenish stock.
- Distribution system valve exercising.

Building/Grounds Maintenance:

- General shop maintenance and cleaning.
- Snow removal at all Water Utility sites.
- New breakroom was completed on mezzanine of garage for C/M crew.

Equipment Maintenance:

- Performed routine maintenance and repairs on construction equipment and vehicle fleet.

Engineering:

- Bid and project manual preparation for N 20th St. and Michigan Ave/N 12th St LSL projects.
- Drawings were completed for N 20th St. and Michigan Ave/N 12th St LSL projects.
- Received WDNR approval for the Indiana Avenue water main project.
- Project and property identifications for North 15th St. and North 16th St. LSL project.
- Monthly map and database updates.



Distribution System -- March 2023

Street Valves and Hydrant Valves Installed (including water main projects and others)

Location	Date Installed	Size ("), Jt	Installed By	Type
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Total Valves Installed = 0

Street Valves and Hydrant Valves Removed

Location	Installed	Abandoned	Type
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Total Valves Removed = 0

Street Valves and Hydrant Valves Abandoned

Location	Installed	Abandoned
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Total Valves Abandoned = 0

Street Valves and Hydrant Valves Maintained

Location	Maintained	Size	By
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Total Valves Maintained = 0

Hydrants Installed (including water main projects and others)

Location	Installed	Tr Size	Valve	By
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Total Hydrants Installed = 0

Hydrants Removed (including water main projects and others)

Location	Installed	Removed	Hyd Valve?
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Total Hydrants Removed = 0

Hydrants Abandoned (including water main projects and others)

Location	Installed	Abandoned	Tr Size	Hyd Valve?
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Total Hydrants Abandoned = 0

Hydrants Maintained/Moved (including water main projects and others)

Location	Installed	Maintained
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Total Hydrants Maintained/Moved = 0

Water Main Breaks

Location	Date	Size
1604 N. 25th St.	3/2/2023	6"
2208 Camelot Blvd	3/27/2023	8"
1130 N. 26th St.	3/27/2023	6"

Number of Water Main Breaks= 3

**SUMMARY**

Number of feet of 4 inch water main installed	0.0	water main
Number of feet of 6 inch hydrant lead installed	0.0	
Number of feet of 6 inch water main installed	0.0	
Number of feet of 8 inch water main installed	0.0	
Number of feet of 12 inch water main installed	0.0	
Number of feet of 16 inch water main installed	0.0	
Number of feet of 20 inch water main installed	0.0	
Number of feet of 24 inch water main installed	0.0	
Number of feet of water main abandoned or removed	0.0	
Number of water main breaks repaired	3	hydrants
Number of hydrants installed	0	
Number of hydrants removed or abandoned	0	
Number of hydrants maintained or moved	0	valves
Number of street valves installed	0	
Number of hydrant valves installed	0	
Number of street valves removed or abandoned	0	
Number of hydrant valves removed or abandoned	0	
Number of valves maintained	65	
Number of water connections installed	0	


Bid Tabulation: RFQ 2023 Water Main Parts and Valves

Item No.	Description	Qty.	Core and Main		Ferguson Waterworks		ETNA Supply	
			Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1	6'-6" Trench Hydrant 6" MJ, complete	3	\$3,750.00	\$11,250.00	\$3,887.00	\$11,661.00	\$3,950.00	\$11,850.00
2	6' Trench Hydrant 6" MJ, complete	3	\$3,725.00	\$11,175.00	\$3,806.00	\$11,418.00	\$4,040.00	\$12,120.00
3	Resilient Wedge Gate Valve - 8" MJ-MJ	2	\$1,515.00	\$3,030.00	\$1,545.00	\$3,090.00	\$1,590.00	\$3,180.00
4	Valve Box - #6 Base , Tyler USA 6860 OR Bingham & Taylor equal	12	\$80.00	\$960.00	\$91.00	\$1,092.00	\$54.00	\$648.00
5	Valve Box - Standard Drop Lid marked "water" for 5-1/4" boxes, Tyler	12	\$22.75	\$273.00	\$19.25	\$231.00	\$14.20	\$170.40
			Total:	\$26,688.00	Total:	\$27,492.00	Total:	\$27,968.40

To: Joe Trueblood, Utility Superintendent
From: Dave McMillan, Distribution Supervisor
Subject: 2023 Hydrant Painting

The Water Utility solicited a quote for painting 100 hydrants for the 2023 calendar year.

Faith Leak Detection Services: This is a new company. Its owner formerly managed the hydrant painting for Ferguson Waterworks.

Sandblast to metal

- Primer- Devoe 224 HS Epoxy Primer 3-4 mils
- Top Coat- Devoe 379 UVA Urethane 3-4 mils

Price- \$110.00 per hydrant

Ferguson Waterworks: I was unable to obtain a quote from Ferguson Waterworks. They were contacted several times and have been non-responsive.

Recommendation:

I recommend we accept the quote from Faith Leak Detection Services. We have worked successfully with Mr. Paalman on hydrant painting projects in the past.



Sheboygan hydrant blasting and painting.

4/3/23

Attn: Dave McMillan

RE: Hydrant painting

Dave,

Below is the information you requested. Please let me know if you need any further information.

Sandblast, prime and paint hydrants one color per Spec.

110.00 each. For 2023

115.00 each. For 2024

Best Regards,

John Paalman

920-200-2959



BOARD OF WATER COMMISSIONERS

BID TABULATIONS-4/5/2023**Lead Service Line Replacements**North 20th Street-Variou locations between Superior Avenue and Geele Avenue

SHEBOYGAN WATER UTILITY PROJECT #23003-6

			Alfson Excavating		Essential Sewer and Water		Korff Plumbing		VanRite Plumbing		Edgewater Plumbing	
Item	Bid Item Description	Qty.	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1	1" Long water service replacement, water main to curb stop, per EA	8	4,750.00	\$ 38,000.00	\$ 2,050.00	\$ 16,400.00	\$ 3,600.00	\$ 28,800.00	\$ 3,850.00	\$ 30,800.00	\$ 4,850.00	\$ 38,800.00
	1" Short water service replacement, water main to curb stop, per EA	4	4,000.00	\$ 16,000.00	\$ 2,050.00	\$ 8,200.00	\$ 3,500.00	\$ 14,000.00	\$ 3,500.00	\$ 14,000.00	\$ 4,420.00	\$ 17,680.00
2	Water service replacement, curb stop to house, per EA	12	\$ 1,200.00	\$ 14,400.00	\$ 3,625.00	\$ 43,500.00	\$ 3,100.00	\$ 37,200.00	\$ 3,050.00	\$ 36,600.00	\$ 3,680.00	\$ 44,160.00
4	Meter setting rebuild, per EA	11	\$ 400.00	\$ 4,400.00	\$ 750.00	\$ 8,250.00	\$ 650.00	\$ 7,150.00	\$ 400.00	\$ 4,400.00	\$ 480.00	\$ 5,280.00
5	Electrical Grounding, per EA	12	\$ 400.00	\$ 4,800.00	\$ 475.00	\$ 5,700.00	\$ 350.00	\$ 4,200.00	\$ 400.00	\$ 4,800.00	\$ 425.00	\$ 5,100.00
6	Concrete Service hole restoration, furnish and install, per EA	12	\$ 150.00	\$ 1,800.00	\$ 600.00	\$ 7,200.00	\$ 900.00	\$ 10,800.00	\$ 2,050.00	\$ 24,600.00	\$ 1,450.00	\$ 17,400.00
TOTAL CONTRACT PRICE			\$79,400.00		\$89,250.00		\$102,150.00		\$115,200.00		\$128,420.00	



BOARD OF WATER COMMISSIONERS

BID TABULATIONS-4/12/2023**Lead Service Line Replacements**Michigan Avenue- N. 14th St. to N. 18th St.North 12th Street- Superior Avenue to Ontario Avenue

SHEBOYGAN WATER UTILITY PROJECT #23007-6

Item	Bid Item Description	Qty.	Alfson Excavating		Essential Sewer and Water		Korff Plumbing		VanRite Plumbing	
			Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1	1" Long water service replacement, water main to curb stop, per EA	31	4,550.00	\$ 141,050.00	\$ 2,050.00	\$ 63,550.00	\$ 3,400.00	\$ 105,400.00	\$ 3,200.00	\$ 99,200.00
	1" Short water service replacement, water main to curb stop, per EA	33	3,800.00	\$ 125,400.00	\$ 2,050.00	\$ 67,650.00	\$ 3,200.00	\$ 105,600.00	\$ 3,200.00	\$ 105,600.00
2	Water service replacement, curb stop to house, per EA	63	\$ 1,100.00	\$ 69,300.00	\$ 3,075.00	\$ 193,725.00	\$ 3,000.00	\$ 189,000.00	\$ 2,800.00	\$ 176,400.00
4	Meter setting rebuild, per EA	83	\$ 400.00	\$ 33,200.00	\$ 600.00	\$ 49,800.00	\$ 398.00	\$ 33,034.00	\$ 400.00	\$ 33,200.00
5	Electrical Grounding, per EA	72	\$ 400.00	\$ 28,800.00	\$ 475.00	\$ 34,200.00	\$ 350.00	\$ 25,200.00	\$ 400.00	\$ 28,800.00
6	Concrete Service hole restoration, furnish and install, per EA	64	\$ 150.00	\$ 9,600.00	\$ 575.00	\$ 36,800.00	\$ 550.00	\$ 35,200.00	\$ 1,250.00	\$ 80,000.00
TOTAL CONTRACT PRICE			\$407,350.00		\$445,725.00		\$493,434.00		\$523,200.00	

Item	Bid Item Description	Qty.	Scott Lamers Construction		Mid City Corporation		Advance Construction	
			Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1	1" Long water service replacement, water main to curb stop, per EA	31	3,100.00	\$ 96,100.00	\$ 2,500.00	\$ 77,500.00	\$ 9,850.00	\$ 305,350.00
	1" Short water service replacement, water main to curb stop, per EA	33	3,000.00	\$ 99,000.00	\$ 2,500.00	\$ 82,500.00	\$ 6,500.00	\$ 214,500.00
2	Water service replacement, curb stop to house, per EA	63	\$ 3,100.00	\$ 195,300.00	\$ 2,750.00	\$ 173,250.00	\$ 3,950.00	\$ 248,850.00
4	Meter setting rebuild, per EA	83	\$ 825.00	\$ 68,475.00	\$ 2,000.00	\$ 166,000.00	\$ 500.00	\$ 41,500.00
5	Electrical Grounding, per EA	72	\$ 575.00	\$ 41,400.00	\$ 600.00	\$ 43,200.00	\$ 375.00	\$ 27,000.00
6	Concrete Service hole restoration, furnish and install, per EA	64	\$ 2,000.00	\$ 128,000.00	\$ 1,500.00	\$ 96,000.00	\$ 1,200.00	\$ 76,800.00
TOTAL CONTRACT PRICE			\$628,275.00		\$638,450.00		\$914,000.00	

REQUISITION

SHEBOYGAN WATER UTILITY

REQUISITION DATE 04/17/2023

Item 12.

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 04/25/2023

REQUISITION NO. 5003

QTY	ITEM #	INVENTORY #	DESCRIPTION	UNIT PRICE	TOTAL PRICE
240			M25 Plastic disc meter 5/8" x 3/3" x 7 1/2"--3/4" bore, bare	62.73	15,055.20
			Total Freight Misc		
NOTE:					
TOTAL					15,055.20

☐ CALL IN PURCHASE ORDER NUMBER

PREPARED BY davew

PHONE NO. 800-616-3837

☐ FAX PURCHASE ORDER

REQUESTED BY DW

FAX NUMBER: 888-371-5982

☐ SEND ORIGINAL PURCHASE ORDER TO VENDOR

APPROVED BY

☐ ALREADY ORDERED