

*****ATTACHMENTS*****



REPORT OF BILLING

SEPTEMBER 2021

	<u>2021</u>	<u>2020</u>	<u>Increase or (Decrease)</u>
<u>Quarterly Metered*</u>			
<i>(Dist I - north of Superior Ave)</i> Residential	256,732.47	225,642.45	31,090.02
Multi-Family	18,364.15	16,802.70	1,561.45
Commercial	14,875.45	15,018.89	(143.44)
Industrial	789.47	456.00	333.47
Public	<u>12,910.86</u>	<u>7,223.24</u>	<u>5,687.62</u>
Subtotal	303,672.40	265,143.28	38,529.12

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

Public Fire Protection	63,543.88	63,295.76	248.12
Flat Rate	31,537.50	27,784.22	3,753.28
Monthly Metered	<u>384,854.89</u>	<u>363,272.96</u>	<u>21,581.93</u>
Sheboygan Net	783,608.67	719,496.22	64,112.45
Sheboygan Falls	79,499.60	61,798.68	17,700.92
Kohler	<u>33,273.70</u>	<u>28,599.96</u>	<u>4,673.74</u>
Total	896,381.97	809,894.86	86,487.11

Total accumulative billing for 2021 is \$7,151,028.38. An increase of \$1,000,274.50 from 2020 accounted for as follows:

	<u>2021-Total Year to Date</u>
Sheboygan	829,280.75
Sheboygan Falls	119,297.23
Kohler	<u>51,696.52</u>
	1,000,274.50

Total bills mailed September, 2021: 6,985

Residential	6,259	Multi-Family	6
Multi-Family	87	Commercial	21
Commercial	212	Industrial	66
Industrial	7	Public	9
Public	<u>34</u>	Fire Protection	284
Quarterly	6,599	Monthly	102
		Flat Rate	284



RETURN ON RATE BASE

September 30, 2021

	SEPTEMBER 2021	SEPTEMBER 2020
<u>Add 2 YR Average</u>		
Utility Plant Balance	\$ 68,918,263	\$ 65,892,608
Materials and Supplies Inventory	\$ 286,185	\$ 323,160
<u>Less 2 YR Average</u>		
Reserve for Depreciation	\$ 23,353,769	\$ 21,813,494
Customer Adv for Const	\$ -	\$ -
Average Rate Base	<u>\$ 45,850,679</u>	<u>\$ 44,402,274</u>
Net Operating Income YTD	\$ 1,413,534	\$ 1,076,301
Net Operating Income As a Percent of Average Net Rate Base	<u>3.08%</u>	<u>2.42%</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
September 30, 2021

Ending balance on report for August 31, 2021	7,754,446.31
Plus: Receipts	552,049.71
Misc Receipts	77,999.08
Direct Pay Receipts	409,080.12
Stop Loss Reimbursements	230,727.42
Money Market/CDARs Investment Interest	327.19
Online Payments in Transit	-
Minus:	
Disbursements - vendors and payroll	(504,566.95)
Bank Service Fees Credit	(799.05)
Health & Dental Claims/Adm Costs	(235,536.07)
NSF Checks & Customer Refunds	(438.72)
PSN Deposit Fees	(3,220.46)
Reallocate Sewer/Garbage - payments	(225.01)
Reallocate Sewer/Garbage - monthly	2,420.76
Invoice Cloud Online Transaction Reconciliation	(16,646.93)
Automated Credit Card Payments	(2,299.49)
Postage	(7,298.75)
Utility Water Payments	(3,445.60)
Ending Balance September 30, 2021	\$ 8,252,573.56

Note: The above amount includes:

Bond Reserve Fund	668,413.54
LSL Revolving Loan Fund	39,687.49
Money Market Investment	3,981,350.78
Health Insurance Restricted Reserve	380,000.00
BAN Funds for Construction	914,017.53
Total	\$ 5,983,469.34

General Unrestricted Operating Cash	2,269,104.22
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**STATEMENT OF NET POSITION
SEPTEMBER 30, 2021 AND 2020**

<u>Assets and Other Debits Utility Plant</u>	<u>Year to Date 2021</u>	<u>Year to Date 2020</u>	<u>Liabilities and Other Credits</u>	<u>Year to Date 2021</u>	<u>Year to Date 2020</u>
Utility Plant	78,644,088	75,066,554	<u>Proprietary Capital</u>		
Depreciation- Utility Plant	26,068,598	24,293,544	Capital Paid by Municipal	1,640,701	1,640,701
Net Utility Plant	<u>\$ 52,575,490</u>	<u>\$ 50,773,010</u>	Unappropriated Earned Surplus	46,358,928	45,549,527
			Total Proprietary Capital	<u>\$ 47,999,629</u>	<u>\$ 47,190,228</u>
<u>Other Property and Investments</u>			Bonds, Loans & Advances	12,624,174	13,677,170
Appropriated Funds	1,333,705	496,260	Total Long Term Debt	<u>\$ 12,624,174</u>	<u>\$ 13,677,170</u>
Bond Redemption Fund	668,414	706,627			
Net Pension Asset ¹	411,147	-	<u>Current & Accrued Liabilities</u>		
Deferred Outflow - Pension & OPEB ¹	1,038,866	1,262,190	Accounts Payable	483	100
Total Other Prop & Investment	<u>\$ 3,452,132</u>	<u>\$ 2,465,077</u>	Accrued Liabilities	1,051,824	1,016,227
			Total Current & Accrued Liab.	<u>\$ 1,052,308</u>	<u>\$ 1,016,327</u>
<u>Current and Accrued Assets</u>			<u>Deferred Credits</u>		
Cash & Investments	6,251,205	9,083,510	Bond Premium	194,061	229,930
Accounts Receivable	1,428,067	1,406,224	Pre 2003 Depr on Contributed Assets	56,505	81,638
LSL Loan Receivable ³	74,580	-	Other Deferred Credits ³	0	0
Grant Receivable - Restricted ²	34,485	12,500		<u>\$ 250,566</u>	<u>\$ 311,568</u>
Materials & Supplies Inventory	232,845	339,525	<u>Operating Reserves</u>		
Prepaid Expenses	32,513	31,441	Net Pension & OPEB Liability ¹	324,886	275,425
Total Current & Accrued Assets	<u>\$ 8,053,695</u>	<u>\$ 10,873,200</u>	Deferred Inflow - Pension & OPEB ¹	1,260,697	1,103,698
			Accrued Vac & Sick Leave	569,057	536,872
Total Assets and Debits	<u>\$ 64,081,316</u>	<u>\$ 64,111,287</u>	Total Operating Reserve	<u>\$ 2,154,640</u>	<u>\$ 1,915,995</u>
			Total Liab & Other Credits	<u>\$ 64,081,316</u>	<u>\$ 64,111,287</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 new SWU LSL loan program.



STATEMENT OF REVENUE, EXPENSES AND CHANGES IN NET POSITION
SEPTEMBER 30, 2021 AND 2020

	2021		2020		Incr (Decr) YTD	% Incr/Decr YTD
	MONTH	YTD	MONTH	YTD		
Sales Revenue ¹	\$ 906,984	\$ 6,867,702	\$ 817,673	\$ 5,872,525	\$ 995,177	16.95%
Other Water Revenue ²	\$ 5,891	\$ 43,901	\$ 5,160	\$ 77,644	\$ (33,742)	-43.46%
Total Operating Revenues	\$ 912,875	\$ 6,911,603	\$ 822,833	\$ 5,950,168	\$ 961,435	16.16%
Operating Expenses ³	238,131	2,656,205	296,382	2,391,149	265,056	11.08%
Maintenance Expenses ⁴	93,330	722,160	44,812	433,832	288,327	66.46%
Depreciation Expenses	129,884	1,187,408	126,491	1,155,848	31,560	2.73%
Taxes	107,730	932,297	101,519	893,039	39,257	4.40%
Total Operating Expenses	\$ 569,074	\$ 5,498,068	\$ 569,203	\$ 4,873,868	\$ 624,200	12.81%
Utility Operating Income	\$ 343,801	\$ 1,413,535	\$ 253,630	\$ 1,076,301	\$ 337,235	31.33%
Other Income & Expense						
Non-operating Grant Revenue	-	34,485	-	35,450	(965)	
Non-Operating Grant Expenses	-	(15,000)	-	(35,450)	20,450	
Bond Premium	2,989	26,902	2,989	25,653	1,249	
Interest Earned on Investments	522	13,568	2,003	39,230	(25,662)	
Contributions	-	-	-	-	-	
Other Expense	-	(475)	-	(34,475)	34,000	
Misc Amortization	2,094	18,850	2,094	18,850	-	
Bond Interest Expense	(27,359)	(246,322)	(28,214)	(244,527)	(1,795)	
Change in Net Position	\$ 322,048	\$ 1,245,542	\$ 232,502	\$ 881,033	\$ 364,511	

¹ The increase in Sales Revenue is due to a rate increase that was implemented October 1, 2020, as well as an increase in usage over 2020.

² The decrease in Other Revenues is due to a settlement received in 2020 for the purchase of liquid alum.

³ The increase in Operating Expense is due to an increase in medical claims and fees in 2021, and operations work postponed from 2020 due to Covid, resuming the cross connection program and meter change outs, acceptance of credit card fees, and consulting fees for health insurance and IT security.

⁴ The increase in maintenance expense is due to an increase in maintenance projects postponed from 2020 due to Covid, including pumping structures, reservoirs, water mains, and meters maintenance.



APPROVAL OF VOUCHERS
September 30, 2021

<u>Total Of The General Vouchers</u>	<u>\$ 354,573.47</u>
<u>Gross Payroll</u>	<u>\$ 161,273.24</u>
<u>Net Payroll</u>	<u>\$ 95,968.76</u>

BOARD OF WATER COMMISSIONERS

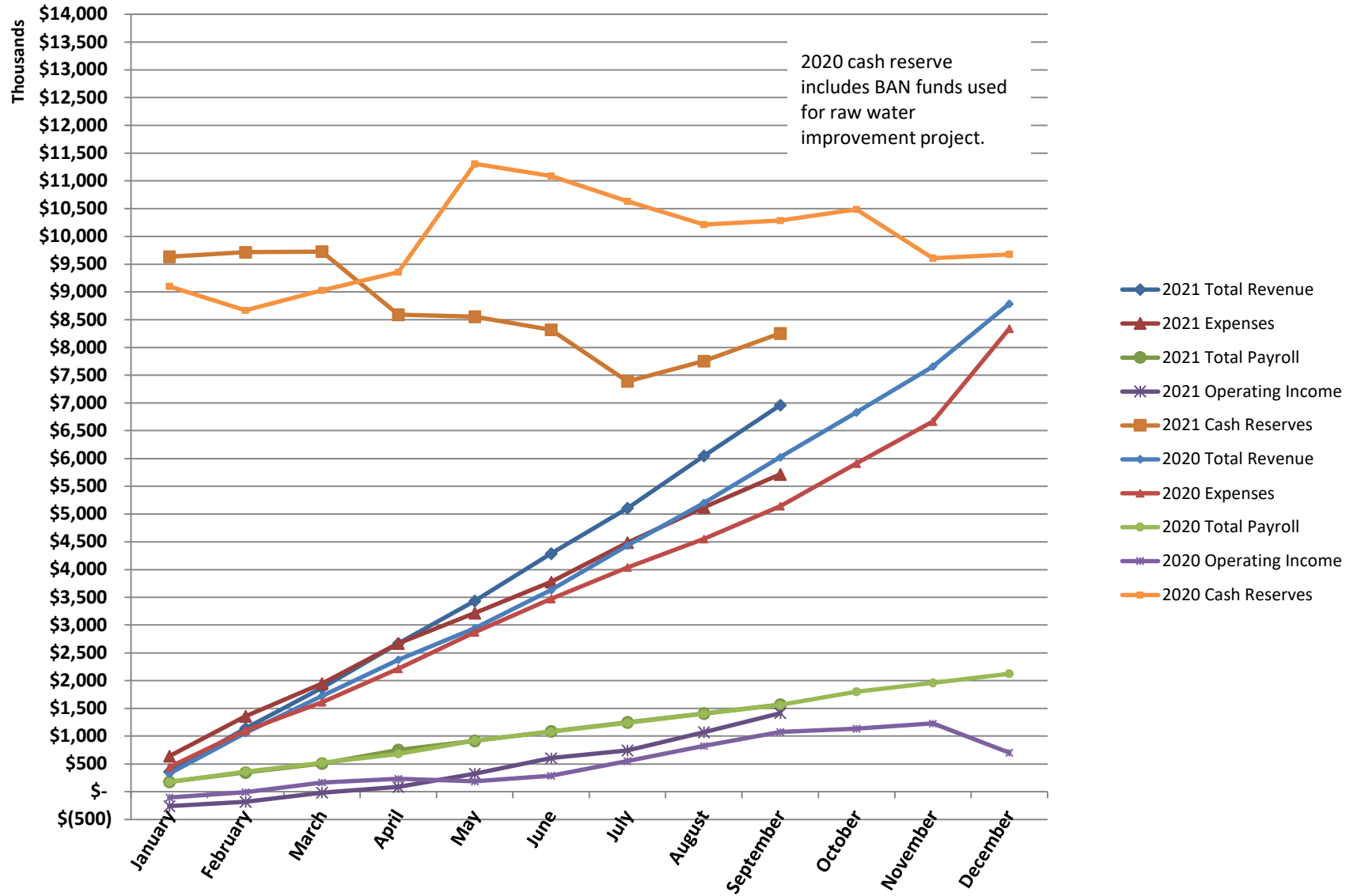
PRESIDENT

SECRETARY

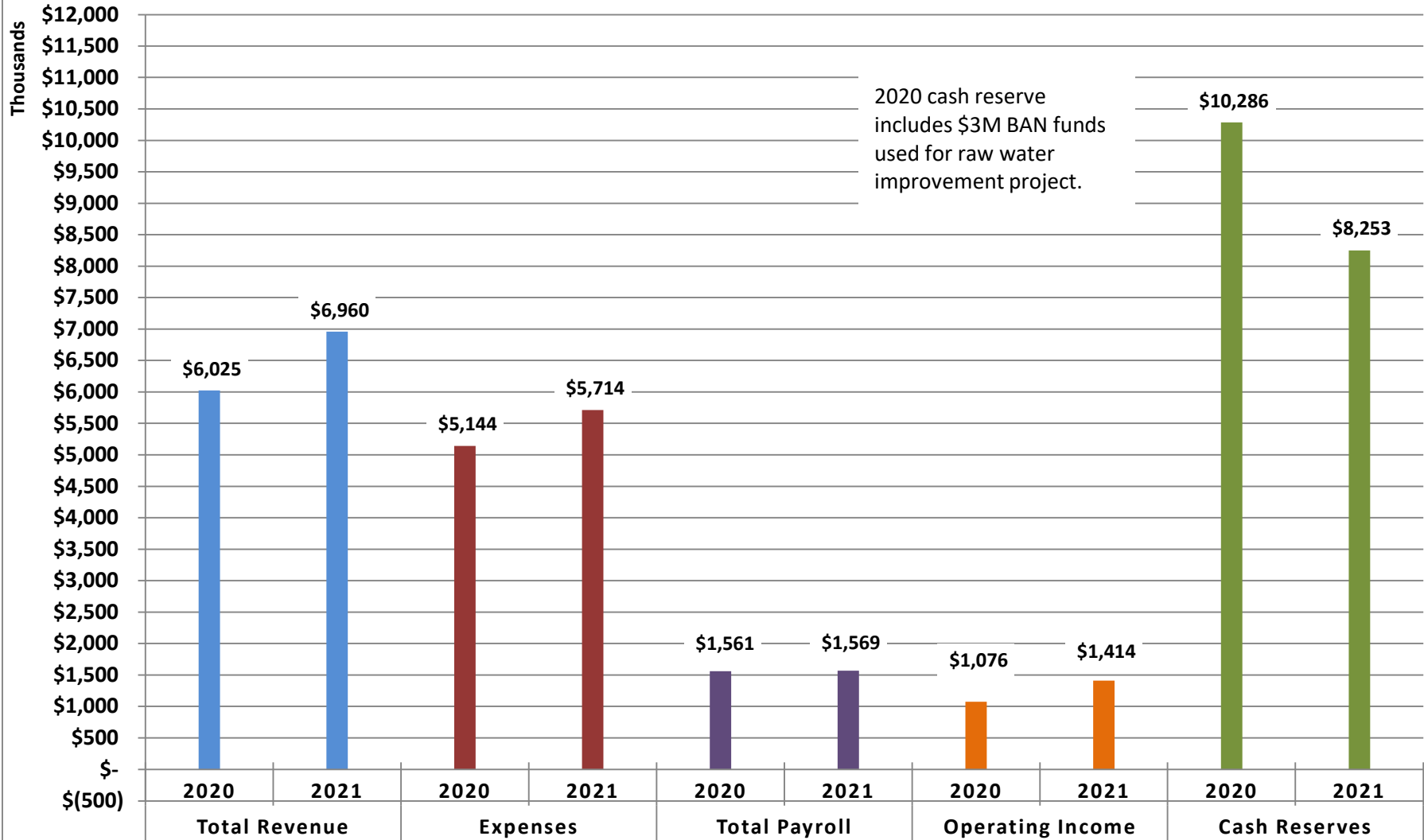
MEMBER

SUPERINTENDENT

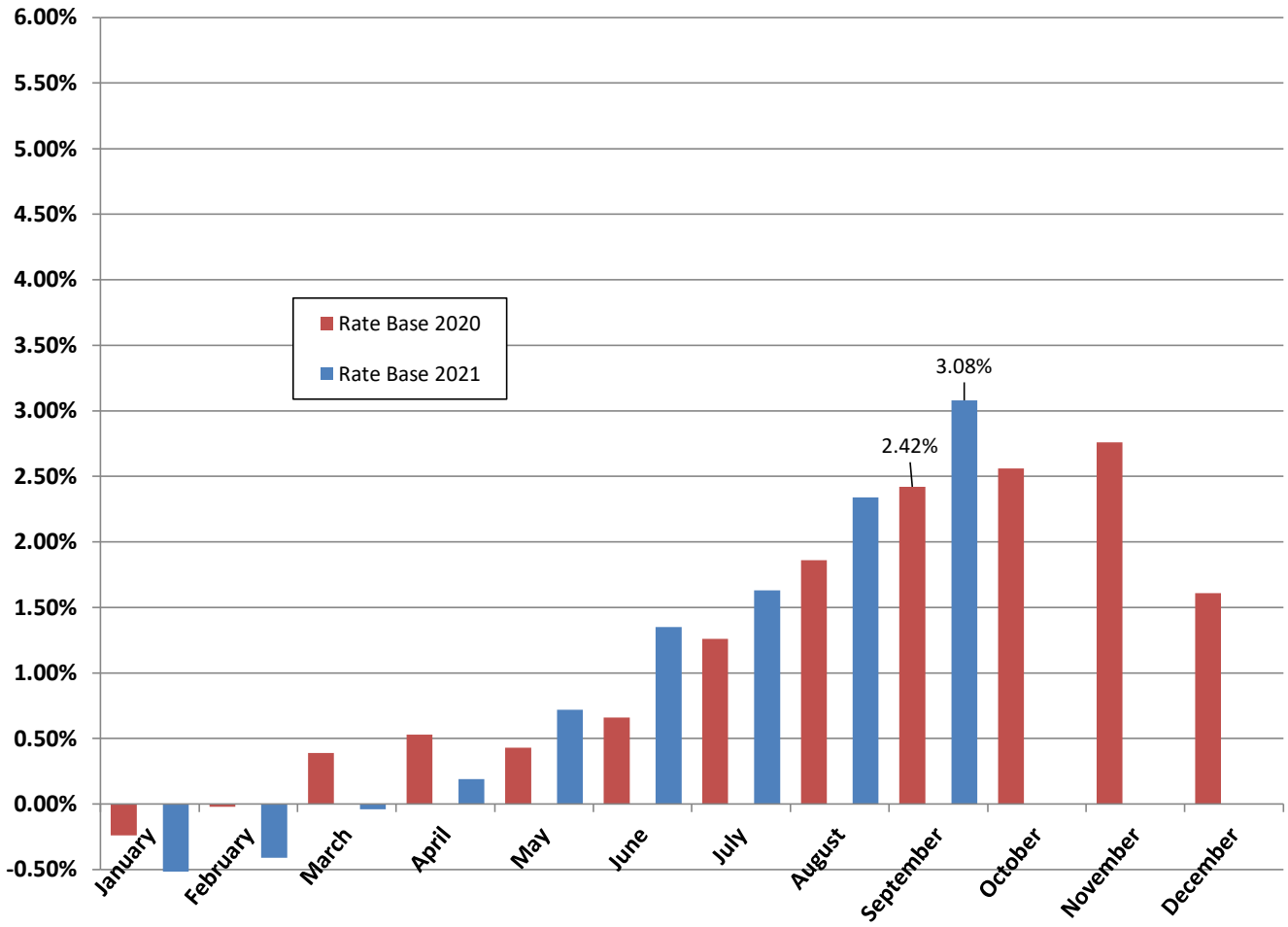
SHEBOYGAN WATER UTILITY SEPTEMBER 2021 MONTHLY FINANCIAL TREND



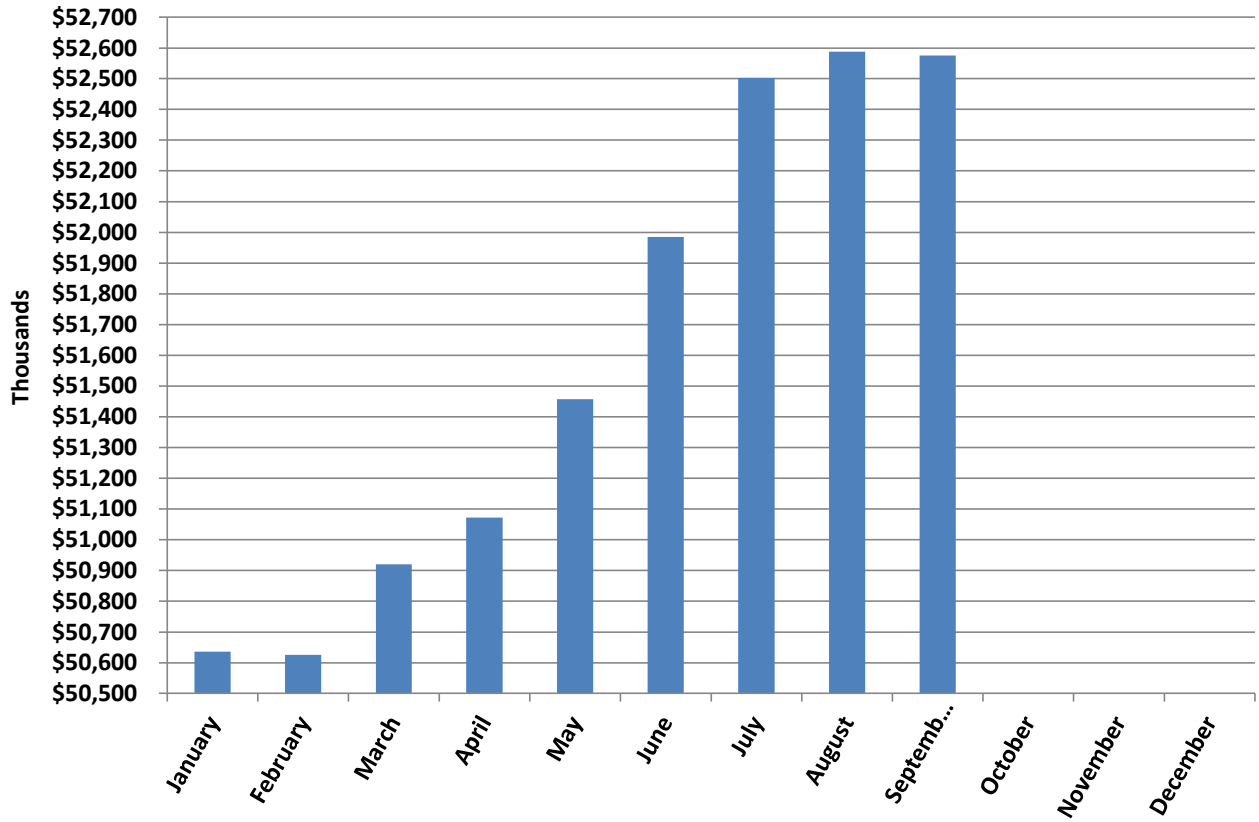
SHEBOYGAN WATER UTILITY SEPTEMBER 2021 YTD FINANCIAL POSITION



SHEBOYGAN WATER UTILITY SEPTEMBER 2021 RETURN ON RATE BASE

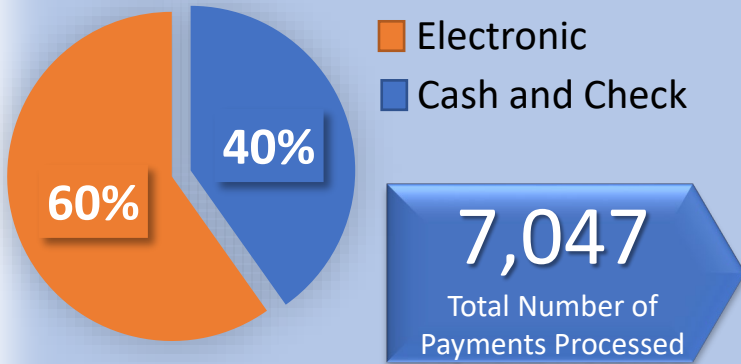


SHEBOYGAN WATER UTILITY SEPTEMBER 2021 UTILITY PLANT BALANCE



CUSTOMER RELATIONS & FISCAL SUMMARY

PAYMENT TRANSACTIONS



	Sept 2020	Sept 2021
Payment Window	463	426
Drop Box Payments	263	193
Electronic Payments	3527	4215
Cash/Check Payments	2411	2213
Total Payments	6664	7047

Payments Returned NSF **12**

COLLECTIONS

District 1*

\$ 1,074,315

Billed

\$325,008

Outstanding After Due Date

1466

Past Due Letters Mailed

91

Disconnection Letters Mailed

6

Properties Disconnected

\$64,706

Outstanding At Month End

District 2

\$ 1,035,019

Billed

\$252,014

Outstanding After Due Date

1638

Past Due Letters Mailed

133

Disconnection Letters Mailed

15

Properties Disconnected

\$94,109

Outstanding At Month End

*District 1 disconnections for nonpayment took place in September versus August due to the implementation of InvoiceCloud.

**SEPTEMBER
2021**

CUSTOMER RELATIONS & FISCAL SUMMARY

UTILITY BILLS



Paperless
796



CUSTOMER SERVICE

	Sept 2020	Sept 2021
Answered Calls	1343	1689
Account Transfers	260	255
Property Data Requests	104	95

PSC COMPLAINTS ACCOUNTS PAYABLE

0 PSC Complaint(s) Filed

192 Invoices Paid

LEAD SERVICE

LINE REPLACEMENT LOANS

28

Active Loans

TAX ROLL

	2020	2021
Number of Customer Letters Mailed	1497	1906
Number of Owner Letters Mailed	691	916
Dollars Subject to Tax Roll as of October 15	\$492,953.85	\$434,025.37
Dollars Subject to Tax Roll as of November 1	\$364,749.96	
Dollars 10% Penalty	\$34,235.62	
Total Outstanding Dollars as of November 15 w/Penalties	\$398,985.58	
Total Outstanding Garbage & Sewer Dollars w/Penalties as of November 15	\$249,164.95	
Total Outstanding Water Dollars w/Penalties as of November 15	\$ 114,181.23	

*Added Recycling Fee Collections 01/01/2020

*No disconnections due to pandemic April 2020-April 2021

*Resumed Disconnection 4/2021 for \$300+ Balances

*2020 balances \$150+ Subject to Tax Roll

*2021 balances \$10+ Subject to Tax Roll

CUSTOMER ASSISTANCE PAYMENTS

Number of Payments Received: 8

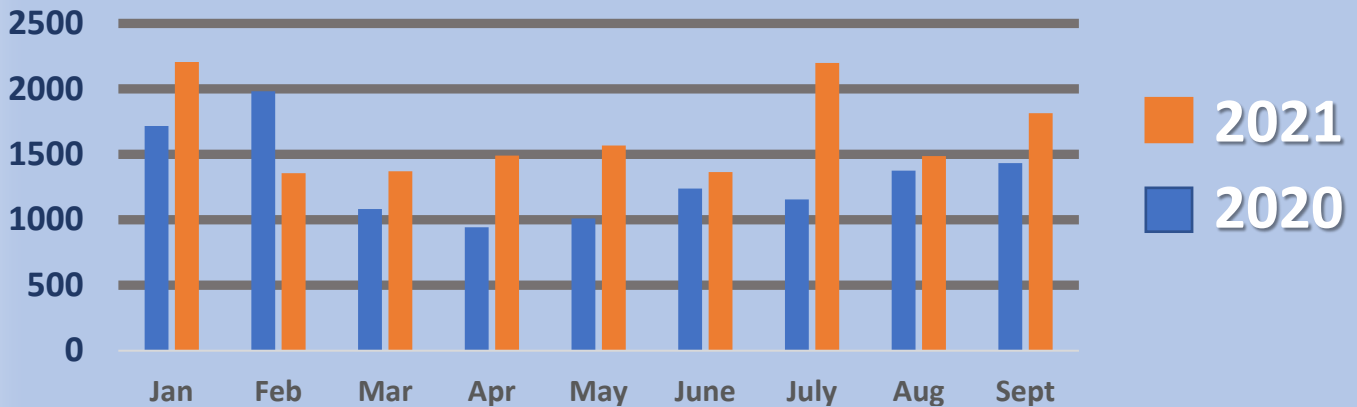
Total Dollars: \$2,220.57

*Payments received from Wisconsin Emergency Rental Assistance Program, Salvation Army, and St. Vincent DePaul for customer benefit.

**SEPTEMBER
2021**

CUSTOMER RELATIONS & FISCAL SUMMARY

SERVICE TECH MILES DRIVEN



CROSS CONNECTION

116
39

Inspections by SWU

Inspections by Hydro Corp

13

Facilities with Compliance Issues



LEAD EDUCATION

15

WDNR Lead in Drinking Water Brochures Distributed at home visits

LEAK ALLOWANCE

1

Customer Requests

173

CCF Allowed @ Reduced Rate



SERVICE LEAKS

1

New Reported Leaks

1

Leaks Fixed

6

Active Leak(s) Month End

METERS

127

Meters

Installed/Replaced

30

Meters Tested



SEPTEMBER
2021

CUSTOMER RELATIONS & FISCAL SUMMARY

FACEBOOK PAGE



3 September New Followers

703 Total Followers

WEBSITE VISITORS

3,340



2020 Visits in September: 2,477

Top Page Viewed: Pay Your Bill

ADDITIONAL CR/F ACTIVITIES SEPTEMBER

- ◆ Accounts were assessed for past due balances subject to tax roll. Tax roll notices must be mailed by October 15, 2021.
- ◆ CR/F staff attended virtual training sessions for the Annual Civic Symposium.
- ◆ Customer bank bill payments are now coming to us through InvoiceCloud. This eliminates manual entry of these payments.
- ◆ Service Techs continue their work changing out and testing water meters. Revised meter replacement schedule being drafted to catch up on replacements from during the pandemic.

SEPTEMBER
2021

MONTHLY CONSTRUCTION-MAINTENANCE DEPARTMENT REPORT

September 2021

Distribution System Maintenance:

- Site work on N 36th St. Property.
- Pipe lowering on S. Business drive to accommodate a new sewer lateral for Popeye's Chicken.
- Replaced valve boxes that were broken.
- Helped City abandon a lead service on S 10th St.
- Disassembled temporary water for homes on S 10th St that had lateral replacements.
- Repaired service holes.
- Hauled in fill to replenish stock.

Water Quality:

- Completed weekly, and monthly hydrant flushing.
- Monitored, calibrated, and maintained auto-flushing units.

Taps:

- 1" tap at 1421 Penn Ave. Lead Service was removed from the system.
- 1" tap at 2013 N 13th St. Lead Service was removed from the system.
- 1" tap at 1320 S 12th St. Lead Service was removed from the system.
- 4" tap for domestic service at 1720 N. 8th St.

Building/Grounds Maintenance:

- General shop maintenance and cleaning.
- Seasonal mowing maintenance at Erie and Horizon reservoir sites.

Equipment Maintenance:

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

Distribution System -- September 2021

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

Location	Date Installed	Size (")	Jt	Installed By	Type
----------	----------------	----------	----	--------------	------

Total Valves Installed = 0

Street Valves and Hydrant Valves Removed

Location	Installed	Removed	Type
----------	-----------	---------	------

Total Valves Removed = 0

Street Valves and Hydrant Valves Abandoned

Location	Installed	Abandoned
----------	-----------	-----------

Total Valves Abandoned = 0

Street Valves and Hydrant Valves Maintained

Location	Maintained	Size
----------	------------	------

Total Valves Maintained = 0

Hydrants Installed (including water main projects and others)

Location	Installed	Tr Size	Valve	By
----------	-----------	---------	-------	----

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
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Total Water Main Breaks = 0

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	14.4	
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	14.0	
Number of water main breaks repaired	0	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	0	
Number of water connections installed	4	

WATER MAIN AND APPURTENANCES INSTALLATION – September 2021

Water Main Projects (including installation or abandonment of more than 3' of pipe by utility or contractors)

Location: 12" Water Main	Installed	WO	New Valves	New Hyd.	New Hyd Valves	Aband. Valves	Aband. Hyd.	Remove Hyd.	Size " Installed	Feet Installed	New Hyd Lead	Size Aband.	Feet. Aband.	Feet. Rem.	By
S. Business Drive WM lowering for new Popeyes san lateral	9/28/2021		0	0	0	0	0	0	12	14.4	0	12" DIP	14	0	Ute.
Totals:			0	0	0	0	0	0		14.4	0		14	0	

September 2021

OPERATIONS' DEPARTMENT MONTHLY REPORT

PUMPAGE	HIGH LIFT		LOW LIFT		2021 VS 2020
	2020	2021	2020	2021	
Total in MG	397,584	405,178	397,940	409,005	HL 1.91%
Daily Average (MG)	13,253	13,525	13,265	13,634	
Max. Day (MG)	15,188	15,314	15,220	15,238	2021 VS 2019
					HL
Gal/KwH	1,121	1,221	4,905	4,977	4.33%
ELECTRICAL COSTS					
	2020		2021		
A. Pumping:	KwH	\$	KwH	\$	
High Lift	345,943	\$25,234.21	329,321	\$23,192.41	
Low Lift	84,880	\$6,191.42	81,729	\$5,755.76	
Wash Pump 1	2,100	\$153.18	2,100	\$147.89	
Georgia St. Bstr.	57,600	\$5,349.39	51,900	\$4,595.26	
Wilgus Ave. Bstr.	3,000	\$366.92	3,000	\$775.56	
EE Pit / Bstr.	5,633	\$652.68	4,851	\$565.96	
Erie Ave. Bstr.	0	\$0.00	0	\$0.00	\$/KwH
Sub Total	499,156	\$37,947.80	472,901	\$35,032.84	-2.6%
B. Treat./Fiscal/Misc.	KwH	\$	KwH	\$	
Office & Maint. Bldg.	11,458	\$1,309.26	11,994	\$1,361.49	
Filter Plant / Pump Station / 2nd Service	67,677	\$5,447.23	47,650	\$3,959.37	
Sub Total	79,135	\$6,756.49	59,644	\$5,320.86	\$/KwH 4.5%
C. Distribution:	KwH	\$	KwH	\$	
Taylor Hill Tank	901	\$120.26	357	\$58.31	
Kohler Meter Pit	0	\$0.00	0	\$0.00	
EE Tower	920	\$122.45	809	\$158.23	
Washington (PRV) Pit	271	\$50.40	228	\$45.81	
Sub Total	2,092	\$293.11	1,394	\$262.35	\$/KwH
Total Electrical Costs	580,383	\$44,997.40	533,939	\$40,616.05	-1.9%
Electrical Cost / MG		\$113.18		\$100.10	
NATURAL GAS COSTS					
	2020		2021		
	CCF Used	Cost	CCF Used	Cost	
Production Facility	598	\$253.97			
South Basin	2	\$143.78	47	\$193.45	
Georgia St. Bstr.					
Erie Ave. Bstr.	30	\$40.28	0	\$28.60	
Wilgus Ave. Bstr.					
Office & Maint. Bldg.	198	\$182.08	288	\$264.23	\$/CCF
Total Natural Gas Costs	828	\$620.11	335	\$486.28	93.4%
Natural Gas Cost / MG		\$1.56		\$1.20	
CHEMICAL COSTS					
	2020		2021		
	Lbs. Used	Cost	Lbs. Used	Cost	
Alum	48,055	\$6,799.78	53,077	\$7,510.40	0.0%
Carbon	0	\$0.00	0	\$0.00	#DIV/0!
Chlorine	10,232	\$8,369.78	8,971	\$6,189.99	-15.6%
Fluoride	1,984	\$1,745.92	2,130	\$2,315.31	23.5%
KMnO4	411	\$1,498.80	247	\$901.73	0.1%
Cationic Polymer	0	\$0.00	0	\$0.00	#DIV/0!
Liquid Phosphate	3,234	\$4,107.18	3,523	\$4,657.41	4.1%
Total Chemical Costs		\$22,521.46		\$21,574.83	-4.2%
Chemical Cost / MG		\$56.65		\$53.17	
Grand Total		\$68,138.97		\$62,677.16	-8.02%
Total Cost / MG		\$171.38		\$154.48	-9.86%

YTD HL 2021 vs 2020	7.72%	YTD HL HIGH DAY PUMPAGE	17,207	July 26, 2021
YTD HL 2021 vs 2019	-1.16%	YTD HL LOW DAY PUMPAGE	7,251	January 1, 2021

NOTE:

	YTD HL Ave Day
2021	12.640
2020	11.685
2019	12.738

COMPARATIVE SUMMARY OF PLANT OPERATIONS

September 2020

vs

September 2021

Pumping Record

High Lift

Low Lift

	2020	2021	Diff.		2020	2021	Diff.
Tot. Water in MG	397.584	405.178	1.91%	Tot. Water in MG	397.940	409.005	2.78%
Daily Average	13.253	13.525	2.05%	Daily Average	13.265	13.634	2.78%
Maximum Day	15.188	15.314	0.83%	Maximum Day	15.220	15.236	0.10%
Minimum Day	9.828	10.582	7.67%	Minimum Day	9.717	10.480	7.85%
By Natural Gas	5.675	3.618	-36.25%	By Natural Gas	2.776	2.200	-20.75%
Power in KWH	349,618	329,321	-5.81%	Power in KWH	80,559	81,729	1.45%
Gals. per KWH	1,121	1,221	8.93%	Gals. per KWH	4,905	4,977	1.47%
Power \$ / KWH	\$0.06808	\$0.07042	3.44%	Power \$ / KWH	----	----	----
Power \$ / MG	\$59.86	\$57.16	(\$2.70)	Power \$ / MG	\$13.78	\$14.07	\$0.29
Tot. Power \$/MG	\$99.58	\$100.20	\$0.62	Tot. Power \$/MG	----	----	----

Treatment Chem.

Lbs. Used

Cost

Total Lbs.	2020	2021	Diff.	Total Cost	2020	2021	Diff.
Alum	55,665	53,077	-4.65%	Alum	\$7,876.60	\$7,510.40	(\$366.20)
Carbon			#DIV/0!	Carbon	\$0.00	\$0.00	\$0.00
Chlorine	8,421	8,971	6.53%	Chlorine	\$6,888.38	\$6,189.99	(\$698.39)
KMnO4	319	247	-22.55%	KMnO4	\$1,165.04	\$901.73	(\$263.31)
Polymer	0	0	#DIV/0!	Polymer	\$0.00	\$0.00	\$0.00
Liquid Phosphate	2,839	3,523	24.09%	Liquid Phosphate	\$3,605.53	\$4,657.41	\$1,051.88
Lb/ MG:				Cost / MG:			
Alum	139.9	129.8	-7.23%	Alum	\$19.79	\$18.36	(\$1.43)
Carbon	0.0	0.0	#DIV/0!	Carbon	#DIV/0!	#DIV/0!	#DIV/0!
Chlorine	21.2	21.9	3.65%	Chlorine	\$17.31	\$15.13	(\$2.18)
KMnO4	0.8	0.6	-24.65%	KMnO4	\$2.93	\$2.20	(\$0.72)
Liquid Phosphate	7.1	8.6	20.74%	Liquid Phosphate	\$9.06	\$11.39	\$2.33

Fluoride:	2020	2021		Fluoride:	2020	2021	
Total Lbs.	1,825	2,130	16.71%	Cost	\$1,606.00	\$2,315.31	\$709.31
mg/l applied as F	0.70	0.78		Cost/MG	\$4.05	\$5.71	\$1.66
Av. Res. Plt. Tap	0.73	0.77					

Water Quality:

Raw

TAP

	2020	2021		2020	2021	
Turbidity	4.50	2.80		Turbidity	0.031	0.055
pH	8.20	8.21		pH	7.62	7.63
Alkalinity	108.5	110.3		Alkalinity	101.0	102.2
MF (E-Coli)	2.9	7.1		Plate Count	0.00	0.00
Temperature	50.7	57.0		Colilert	0	0
Wash-H2O % /LL	1.71	2.07		Temp.	53.6	60.8
Av. Flt. Run/hrs	116.9	113.4		Cl Res.	0.91	0.94
Av. ROF / MG	1.45	1.40				

Natural Gas:

	2020	2021		2020	2021	Diff.
Nat. Gas Heating	0	0	Plant & South Basin	\$113.48	#DIV/0!	#DIV/0!
Nat. Gas Pumping	621	468		\$283.91	#DIV/0!	#DIV/0!

	CCF	Cost	Natural Gas Cost	Natural Gas CCF
#3 Gas Pump	139.5	#DIV/0!	\$193.45	47
#4 Gas Pump	184.5	#DIV/0!		
#7 Gas Pump	0.0	#DIV/0!		
Electric Generator	144.0	#DIV/0!		
Pumping totals	468.0	#DIV/0!		

September 2021

		10/1/2021	9/1/2021	
Elapsed Time:				
% Run	No. 6 Pump	63,726.5	63,152.7	573.8
79.7%	Wash Pump Meter	5,255.96	5,231.68	24.28
3.37%	No. 7 Pump	731.4	731.4	0.0
0.0%	No. 8 Pump	59,514.9	59,514.9	0.0
0.0%	No. 9 Pump	13,868.0	13,154.0	714.0
99.2%	Wash Pump 2	774	765	9
1.3%	No. 1 Prime Pump	1,034.9	1,034.0	0.9
	No. 2 Prime Pump	1,101.4	1,099.9	1.5

		10/1/2021	9/1/2021	
Wattour Meters:				
Kw/Hr run	Wash Pump 1	1222.1	1219.1	2,100
86.5	No. 9 Pump	5157.69	5117.40	40,289
56.4	No. 8 Pump	6826.4	6826.4	0
#DIV/0!	No. 6 Pump	9639.2	9491.2	41,440
72.2	Wash Pump 2	79.666	78.693	1,168
129.7	No. 1 Pump	8476.749	8392.063	84,686
539.6	No. 2 Pump	4632.711	4627.827	4,884
240.4	No. 3 Pump	9135.086	9094.838	40,248
294.0	No. 4 Pump			0
#DIV/0!	No. 5 Pump	8,596.760	8,397.277	199,503
479.7				
	Garage (MWatt/Hrs.)	1,042.15	1,040.68	1,470

Power Co. (Step #3)	33,289	32,904	462,000
Left Meter - OUTSIDE			
Volume Used:			
Nat. Gas (Correct)	43,521,616	43,485,719	45,123

Elapsed Time:			
Emer. Generator	978.9	971.7	7.2

		10/1/2021	9/1/2021	
Elapsed Time:				
% Run	No. 1 Pump	15,720.0	15,563.1	156.9
21.8%	No. 2 Pump	19,781.37	19,761.05	20.32
2.8%	No. 3 Elec. Pump	31,794.2	31,657.3	136.9
19.0%	No. 3 Nat. Gas Pump	514.4	509.9	4.5
0.6%	No. 4 Elec. Pump	0.00	0.00	0.0
0.0%	No. 4 Nat. Gas Pump	1,690.5	1,686.4	4.1
0.6%	No. 5. Pump	17,986.400	17,570.470	415.930
57.8%	UV Building Generator	111.9	111.2	0.7
0.1%				

		10/1/2021	9/1/2021	
SLUDGE No. 1 Hour Meter		0.0	0.0	0
SYSTEM No. 2 Mag Meter		1,721,180	1,360,540	360,640
Recycle Meter (Reset to zero each month)				360,640

Power Cost	\$0.0704249	Bill >>>>	\$31,522.20
	0.432591667	KWH >>>	447,600
Init. Chg.	\$32,536.32		
	\$	KWH	
Kohler Pit			
Horizon	\$38.29	151	
Taylor	\$58.31	357	
ALT. 72 Park	\$519.11	1,200	
Geo. Ave.	\$4,595.26	51,900	
Wilgus Ave.	\$775.56	3,000	
EE Pit	\$565.96	4,851	
EE Tower	\$158.23	809	
Washington	\$45.81	228	
Office	\$1,361.49	11,994	
Erie Ave.			
Total	\$40,654.34	536,490	
			Low L. KWH 81,729
			L.L. Cost \$ \$5,755.76
			High L. KWH 329,321
			H.L. Cost \$ \$23,192.41
			Total Cost \$28,948.17
			Plant Costs \$3,959.37

SUMMARY

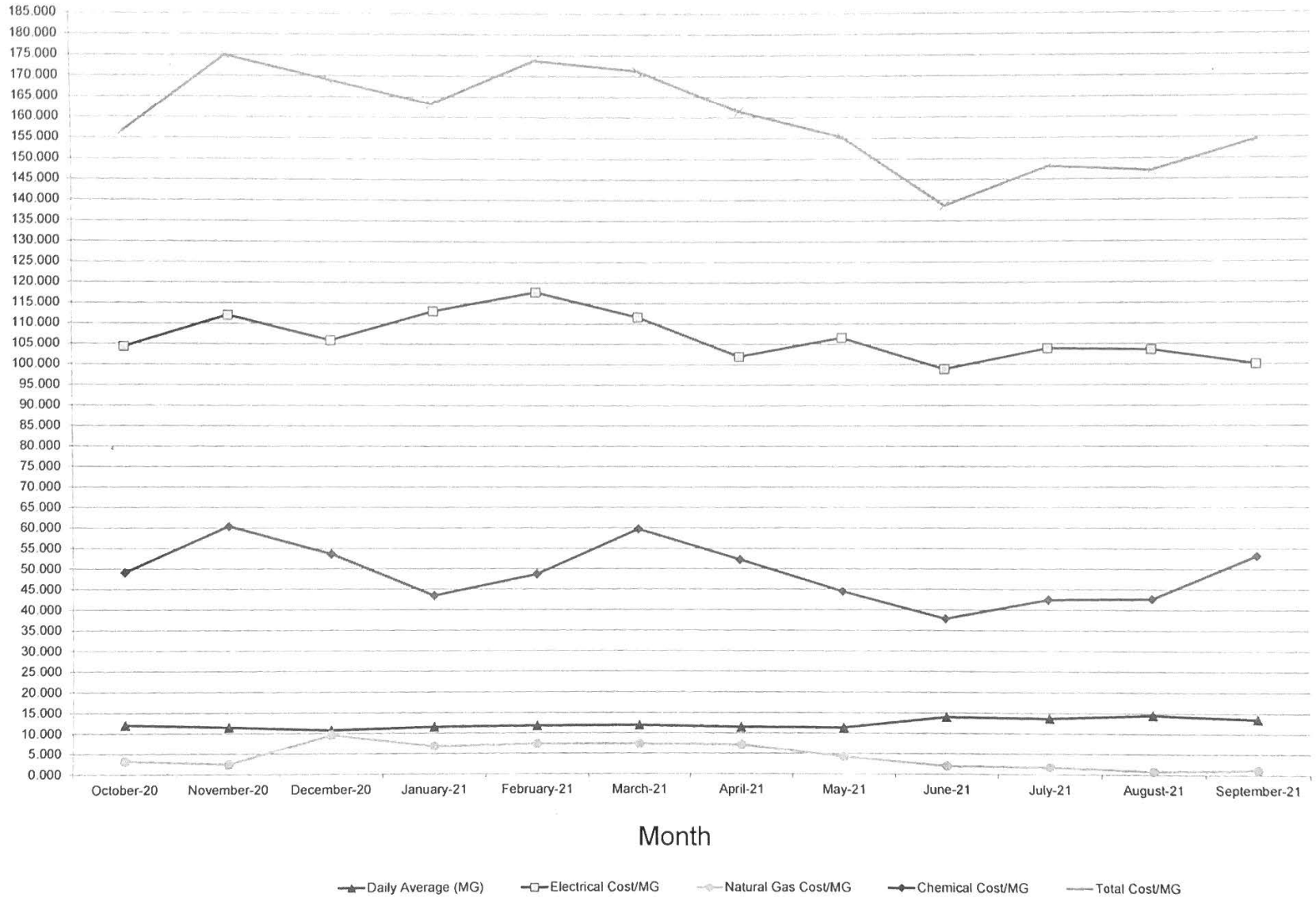
	HIGH LIFT		LOW LIFT	
	2020	2021	2020	2021
Tot. Pump	397.584	405.739	397.940	409.005
Daily Ave.	13.253	13.525	13.265	13.634
Max. Day	15.188	15.314	15.220	15.236
Min. Day	9.828	10.582	9.717	10.480
By Nat. Gas	5.675	3.618	2.776	2.200
Power KWH	349,618	329,321	80,559	81,729
Gals/KWH	1121	1221	4905	4977
Cost/KWH	\$0.06808	\$0.07042	*****	*****
Cost/MG	\$59.86	\$57.16	\$13.78	\$14.07
Tot. Cost/MG	\$99.58	\$100.20	*****	*****

HIGH LIFT DELIVERY QUARTERLY REPORT 2021				
I. FIRST QUARTER		Jan - Feb - Mar		
		GALLONS	COST \$	\$/MG
	2020	1,061,714,000	\$217,156.22	\$204.53
	2021	1,055,591,000	\$181,125.65	\$171.59
	Percent Difference	-0.58%	-16.59%	-16.11%
II. SECOND QUARTER		Apr - May - Jun		
		GALLONS	COST \$	\$/MG
	2020	893,284,000	\$159,034.60	\$178.03
	2021	1,115,306,000	\$168,613.25	\$151.18
	Percent Difference	24.85%	6.02%	-15.08%
III. THIRD QUARTER		Jul - Aug - Sep		
		GALLONS	COST \$	\$/MG
	2020	1,243,023,000	\$192,566.59	\$154.92
	2021	1,275,383,000	\$191,262.23	\$149.96
	Percent Difference	2.60%	-0.68%	-3.20%
IV. FOURTH QUARTER		Oct - Nov - Dec		
		GALLONS	COST \$	\$/MG
	2020	1,048,003,000	\$174,953.96	\$166.94
	2021	0	\$0.00	#DIV/0!
	Percent Difference	-100.00%	-100.00%	#DIV/0!
YEAR TO DATE : 2021				
		GALLONS	COST \$	\$/MG
ELECTRICITY CHEMICALS NATURAL GAS	2020	4,246,024,000	\$743,711.37	\$175.15
	2021	3,446,280,000	\$541,001.13	\$156.98
	Percent Difference	-18.84%	-27.26%	-10.38%
YEAR TO DATE : 2021				
		GALLONS	COST \$	
SLUDGE DISPOSAL to WWTP	2020	4,763,025	\$33,411.14	
	2021	2,867,519	\$31,290.37	
	Percent Difference	-39.80%	-6.35%	
STORM WATER CHARGES	2021	NA	\$0.00	
HIGH LIFT SYSTEM DELIVERY :				
	Maximum Pumpage Day	17,207,000	July 26, 2021	
	Minimum Pumpage Day	7,251,000	January 1, 2021	

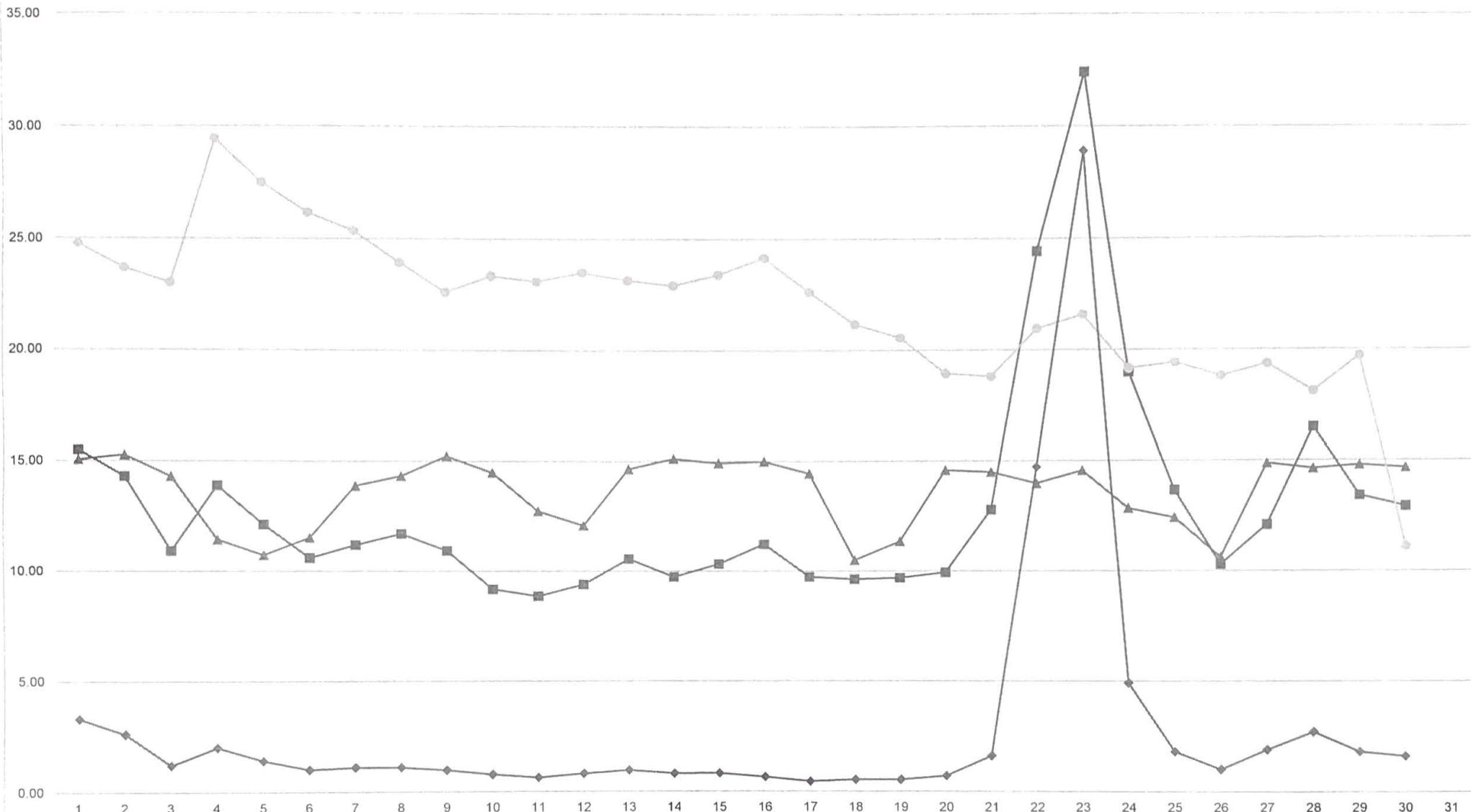
	MG	\$	\$/MG
2020	4,246,024,000	\$743,711.37	\$175.15
2021	3,446,280,000	\$541,001.13	\$156.98

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



September 2021: Sheboygan Water Utility Plant Operations Summary



Flow (MGD)
 Alum (lbs/MG)
 CL2 (lbs/MG)
 Raw Turbidity (NTU's)

Scaling
Alum (X 10)

Filter Plant Maintenance Completed For September 2021
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Subject	StartDate	EndDate	Description
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Yellow indicates days operating or running labs

Subject	StartDate	EndDate	Description
Ortho Scale	1-Sep-21		Drain, calibrate, and clean orthophosphate scale.
Filter 3, 5, 6 Insulation	1-Sep-21		Finish insulating filters 3,5, and 6 NTU meter lines.
Filter 6 NTU Meter	1-Sep-21		Plumb and install new filter 6 NTU meter.
Hypo leaks pump room	1-Sep-21		Tightened fittings on Hypo pumps where there was some leakage
Sample Collection	1-Sep-21		Collection of 1st samples from human society building new service
Lead and Copper samples	1-Sep-21		Tried to collect lead and copper samples but resident did not leave samples out
Joshua Vacation	2-Sep-21	3-Sep-21	Joshua Vacation
Dan Lab operations	2-Sep-21	2-Sep-21	Dan covering Lab operations
New service samples	2-Sep-21		New service samples from human society
Dan vacation	3-Sep-21	3-Sep-21	Dan Vacation
LABOR DAY	6-Sep-21	6-Sep-21	LABOR DAY
Generator Check	7-Sep-21		Perform maintenance check on generator; 5 quarts oil low and need to swap water pumps soon.
Generator Cooling Water Valve	7-Sep-21		Pull, CLR, disassemble, clean, and reinstall cooling water shutoff valve for poor sealing issue.
Tuesday Meeting	7-Sep-21		WIAA training, raw water improvement project, south hypo pump feed issues, EE booster fail, generator cooling water issue, etc.
South Basin Effluent Sample Lines	7-Sep-21		Flush south basin effluent sample lines, pump, and meters.
South Basin Hypo Feed Lines	7-Sep-21		Fabricate and install new South basin hypo feed line t section; original has a cracked fitting.
West Basin Effluent Sample Pump	7-Sep-21		Inspect and flush west basin effluent sample pump for noise.
East basin HYPO analyzer	7-Sep-21		Cleaned East basin HYPO analyzers
South Basin Feed Pump	7-Sep-21		Install backup south basin hypo feed pump.
Filter 7 and 9 Insulation	8-Sep-21		Finish insulating filter 7 and 9 sample manifold.
Phosphate Analyzer Tube	8-Sep-21		Install new phosphate analyzer tube; old one clogged with orthophosphate.
Filter Plant Heaters	8-Sep-21		Operate all filter plant heaters.
High Lift Sump	8-Sep-21		Diagnose high lift sump pump issue; needs a repair sleeve.
UVT% Meter	8-Sep-21		Installed new desiccant packet and calibrated UVT% meters.
Cleaned NTU Meters	8-Sep-21		Cleaned filter 2, 3, 4, 5, 6, 7, 8, 10, and 11 NTU meters.
Dakota Supply Group	9-Sep-21		Purchase ½" CPVC t-connects and male ends.
Low Lift Cooling Water	9-Sep-21		Clean orthophosphate from cooling water lines in low lift.
High Lift Sump	9-Sep-21		Inspect and gameplan repair of large sump pump in high lift.
Filter Hall Floor	9-Sep-21		Begin cleaning filter hall and lower hall floor.
Floor Cleaner Battery Charger	9-Sep-21		Diagnose no-charge issue with floor cleaner battery charger.
Dan Operate 1st Shift	9-Sep-21	9-Sep-21	Dan covering 1st shift for Glen.
Hypo Bulk Tank 4	10-Sep-21		Install two new gaskets, cover, and level sensor.
Hypo Bulk Tank 4	10-Sep-21		Clean bulk tank 4
Dan Lab operations	13-Sep-21	13-Sep-21	Dan covered lab operations and collected samples
Removed Trash	13-Sep-21		Removed trash and recyclables from filter plant
New West sample pump	13-Sep-21		Installed new west basin sample pump
Hypo bulk tank 3	13-Sep-21		Cleaned inside Hypo bulk tank 3
High Lift Sump	13-Sep-21		Begin pump repair procedures.
New light fixture flash mix	14-Sep-21		Installed new light fixture in flash mix room for additional light
Menards & Trillings	14-Sep-21		Menards and Trillings for maintenance parts
West basin pump refurbished	14-Sep-21		Pump refurbished, new bearing in motor and new impeller installed
Hypo bulk tank 3 cleaned	14-Sep-21		Hypo bulk tank #3 cleaned, valve put back in place and tank back in service
trash can cleaned	14-Sep-21		Cleaned trash can
South basin Hypo analyzers	15-Sep-21		Cleaned south basin influent and effluent hypo analyzers and turbidimeter
New fixture installed	15-Sep-21		Finished wiring light fixture in rapid mix area
Component Repair	15-Sep-21		Locate and price repair items for actuators and sample pumps.

Pipe Gallery	15-Sep-21		Sweep floor, clean up old hose, and install new ¼" loops on drain line.
Dakota Supply Group	15-Sep-21		Purchase new raw water pump bearings and receive quote on repair kit.
Filter 2 Head Loss	15-Sep-21		Install new head loss transmitter on filter 2.
Hypo Tank 2	16-Sep-21		Begin drain and clean hypo bulk tank 2.
Georgia Ave.	16-Sep-21		Clean, inspect grounds, check reagents, etc.
EE Tower	16-Sep-21		Sweep, run heater, check dehumidifier, and inspect grounds.
Taylor Hill	16-Sep-21		Run heater, empty dehumidifier, collect lab sample, check reagents (1/3), and remove garbage.
Horizon Ave.	16-Sep-21		Check reagents, sweep floor, inspect grounds, etc.
Erie Ave.	17-Sep-21		Help Specht install new 480v circuit breaker.
EE Pit	17-Sep-21		Meet Specht for panel connection repair.
Hypo Bulk Tank 2	17-Sep-21		Install new 3" valve gaskets, reinstall cover, equalize tanks, and check for leaks.
Monday Meeting	20-Sep-21		Topics include coverage, high lift sump work, UV reference check, filter 10 repair, etc.
H.L. Sump Pump	20-Sep-21		Begin disassembling large high lift sump pump.
H.L. Large Sump	20-Sep-21		Remove large sump pump from high lift sump crock.
Dan Covering Laboratory	20-Sep-21	24-Sep-21	Dan covering laboratory for Eric.
Filter plant Garbage	20-Sep-21		Filter plant garbage taken out
Cleaned bathrooms	20-Sep-21		Cleaned filter plant bathrooms
East Hypo Feed Line	21-Sep-21		Install new East hypo feed line; post pump to gate valve.
Ahern Fondulac	21-Sep-21		Drop large sump pump spool piece for fabrication.
Taylor Hill	21-Sep-21		Fill hypo meter reagents and stock fresh supply.
H.L. Area	21-Sep-21		Clean tools and floor in H.L. sump pump repair area.
Taylor hill reagents	21-Sep-21		Filled hypo analyzer reagents at Taylor hill reservoir
WIAWWA Annual Conference 2021	22-Sep-21		Attend WIAWWA Annual Conference 2021 virtually.
UV Reference Sensor Check	22-Sep-21		Perform UV reference sensor check.
Joshua Covering 2nd Shift	23-Sep-21	23-Sep-21	Joshua covering 2nd shift for Glen.
Horizon Tower	23-Sep-21		Collect Lab sample and inspect reagents/grounds.
Dakota Supply Group	23-Sep-21		Purchased ½" CPVC male couplings.
Flipse Order	23-Sep-21		Place Flipse items in storage.
Plant Garbage	24-Sep-21		Dispose of plant garbage and recycling.
Bathroom	24-Sep-21		Clean lower level bathroom.
Erie Ave.	24-Sep-21		Collect sample, clean NTU meter, check generator, inspect grounds, etc.
Raw Water Air Relief Valve	25-Sep-21		Remove plumbing, clean pot, and reinstall components for poor flow measurements; air pocket in pipe caused by plugged orifice.
NE Floc Gear on East Basin	27-Sep-21		Replace both sealed bearings on the belt driven gear side.
Raw Water Air Relief Valve	27-Sep-21		Check operation of raw water air relief valve; repaired on Saturday.
South Hypo Feed Injector	27-Sep-21		Remove injector, clean debris from end, and reassemble.
South Hypo Feed Pump	27-Sep-21		Install hose with ½" threaded ends, quick disconnect, hose, and nipples.
South Hypo Feed Lines	27-Sep-21		Remove, clean, and reinstall South Basin hypo feed lines.
Dan Lab Operations	27-Sep-21	27-Sep-21	Dan covering laboratory responsibilities for Eric.
Filter 10 T-Handle	28-Sep-21		Fabricate new T-handle and bracket for surface sweep valve.
Filter 10 Media and Surface Sweeps	28-Sep-21		Skim media surface, clean surface sweep nozzles, and perform 2nd wash.
Filter 10 Surface Wash Valve	28-Sep-21		Remove nut, bracket, and t-handle for fabrication.
Lateral Sample	28-Sep-21		Collect Colilert sample for new service on 8th and National.
Filter 10 Valve Repair	29-Sep-21		Continue painting new valve key and bracket.
Hypo Day Tank	29-Sep-21		Drain, clean, and inspect hypo day tank.
Hypo Bulk Storage Room	30-Sep-21		Final leak check, clean tools, and replace equipment used for service.
Hypo Bulk Doors	30-Sep-21		Repair highest latch on North bulk storage doors.
Hypo Day Tank	30-Sep-21		Final rinse, replace 2" gasket on tank, and refill system.



Medical Plan Redesign (no HRA)

May 14, 2021
Updated from
January 14, 2021

Specific Examples for Sheboygan Water Utility

In-Network Plan Design		Current	Alternative A
Deductible	Single	\$600	\$600
	Family	\$1200	\$1200
Coinsurance (<i>plan/employee share</i>)		100%/0%	80%/20%
Out-of-Pocket Maximum <i>(includes deductible, coinsurance and copays-medical and Rx)</i>	Single	\$850	\$1,500
	Family	\$1,800	\$3,000
Health Fund (<i>first dollar HRA</i>)	Single	not available	not available
	Family	not available	not available
Other Provisions	Preventive Care	100%/0%; no ded.	100%/0%; no ded.
	Office Visits		
	-Private Clinic	not available	100%/0%; no ded.
	-All Other (<i>PCP/Specialist</i>)	100%/0%; after ded.	\$40/\$80 flat copay
Prescription Drugs			
	-Generic	\$10 flat copay	\$10 flat copay
	-Formulary/Non-Formulary	\$30/\$60 flat copays	70%/30% all other
Savings Estimate (<i>applicable to ER and/or EE premiums</i>)			\$26-\$29k/year

**DOLLAR RANGE SHOWN IS BASED ON ACTUARIAL VALUES APPLIED TO ADJUSTED 2020 NET CLAIMS AFTER STOP LOSS
DOES NOT FACTOR IN PRIVATE CLINIC FINANCIAL IMPACT*

Specific Examples for Sheboygan Water Utility

In-Network Plan Design		Current	Alternative B
Deductible	Single	\$600	\$750
	Family	\$1200	\$1500
Coinsurance (<i>plan/employee share</i>)		100%/0%	80%/20%
Out-of-Pocket Maximum <i>(includes deductible, coinsurance and copays-medical and Rx)</i>	Single	\$850	\$1,500
	Family	\$1,800	\$3,000
Health Fund (<i>first dollar HRA</i>)	Single	not available	not available
	Family	not available	not available
Other Provisions	Preventive Care	100%/0%; no ded.	100%/0%; no ded.
	Office Visits		
	-Private Clinic	not available	100%/0%; no ded.
	-All Other (<i>PCP/Specialist</i>)	100%/0%; after ded.	\$40/\$80 flat copay
Prescription Drugs			
	-Generic	\$10 flat copay	\$10 flat copay
	-Formulary/Non-Formulary	\$30/\$60 flat copays	70%/30% all other
Savings Estimate (<i>applicable to ER and/or EE premiums</i>)			\$27-\$30k/year

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Specific Examples for Sheboygan Water Utility

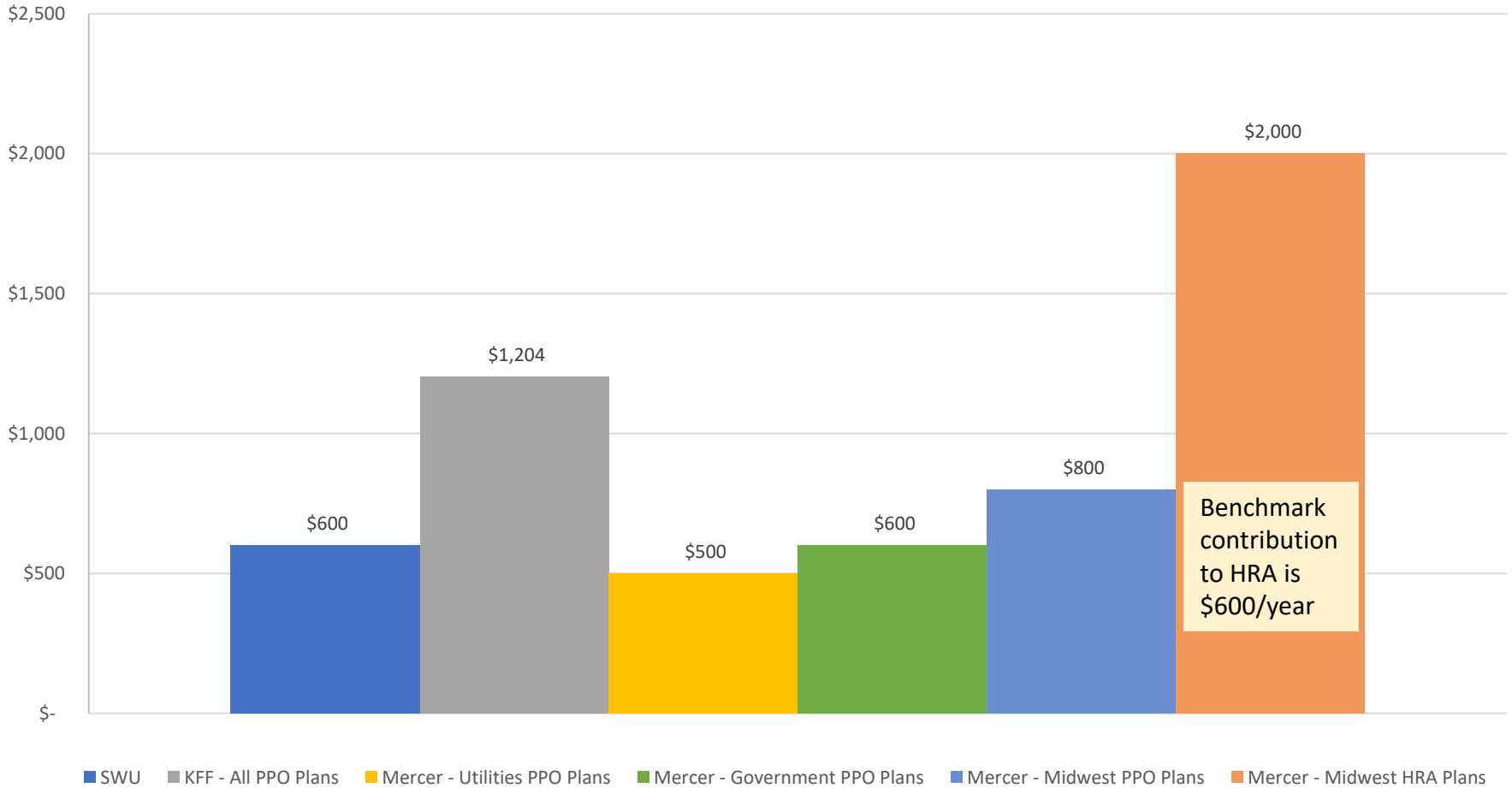
In-Network Plan Design		Current	Alternative C
Deductible	Single	\$600	\$600
	Family	\$1200	\$1200
Coinsurance (<i>plan/employee share</i>)		100%/0%	80%/20%
Out-of-Pocket Maximum <i>(includes deductible, coinsurance and copays-medical and Rx)</i>	Single	\$850	\$2,000
	Family	\$1,800	\$4,000
Health Fund (<i>first dollar HRA</i>)	Single Family	not available not available	not available not available
Other Provisions	Preventive Care	100%/0%; no ded.	100%/0%; no ded.
	Office Visits -Private Clinic -All Other (<i>PCP/Specialist</i>)	not available 100%/0%; after ded.	100%/0%; no ded. \$40/\$80 flat copay
	Prescription Drugs -Generic -Formulary/Non-Formulary	\$10 flat copay \$30/\$60 flat copays	\$10 flat copay 70%/30% all other
Savings Estimate (<i>applicable to ER and/or EE premiums</i>)			\$34-\$38k/year

**DOLLAR RANGE SHOWN IS BASED ON ACTUARIAL VALUES APPLIED TO ADJUSTED 2020 NET CLAIMS AFTER STOP LOSS
DOES NOT FACTOR IN PRIVATE CLINIC FINANCIAL IMPACT*

Reference Material

Medical Benchmarking

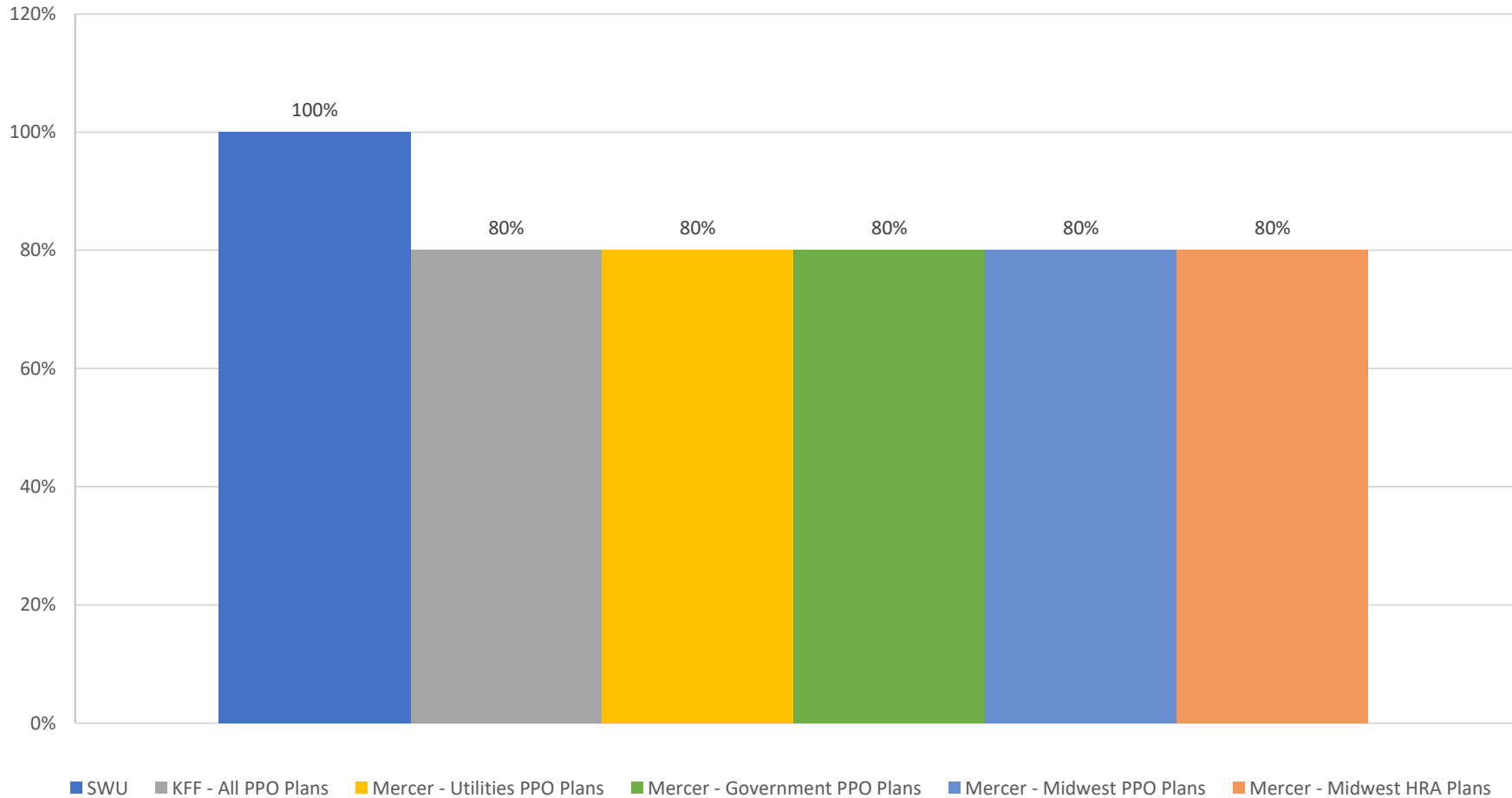
Annual Deductible – Per Person



**BENCHMARKING SOURCES: KFF=KAISER FAMILY FOUNDATION 2020 EMPLOYER HEALTH BENEFITS SURVEY (PUBLISHED 10/2020)
MERCER=MERCER 2019 NATIONAL SURVEY OF EMPLOYER SPONSORED PLANS (PUBLISHED 10/2019)
UNIT VALUES FOR THE SHEBOYGAN WATER UTILITY ARE ACTUAL JANUARY 1, 2021 PLAN DESIGN FEATURES**

Medical Benchmarking

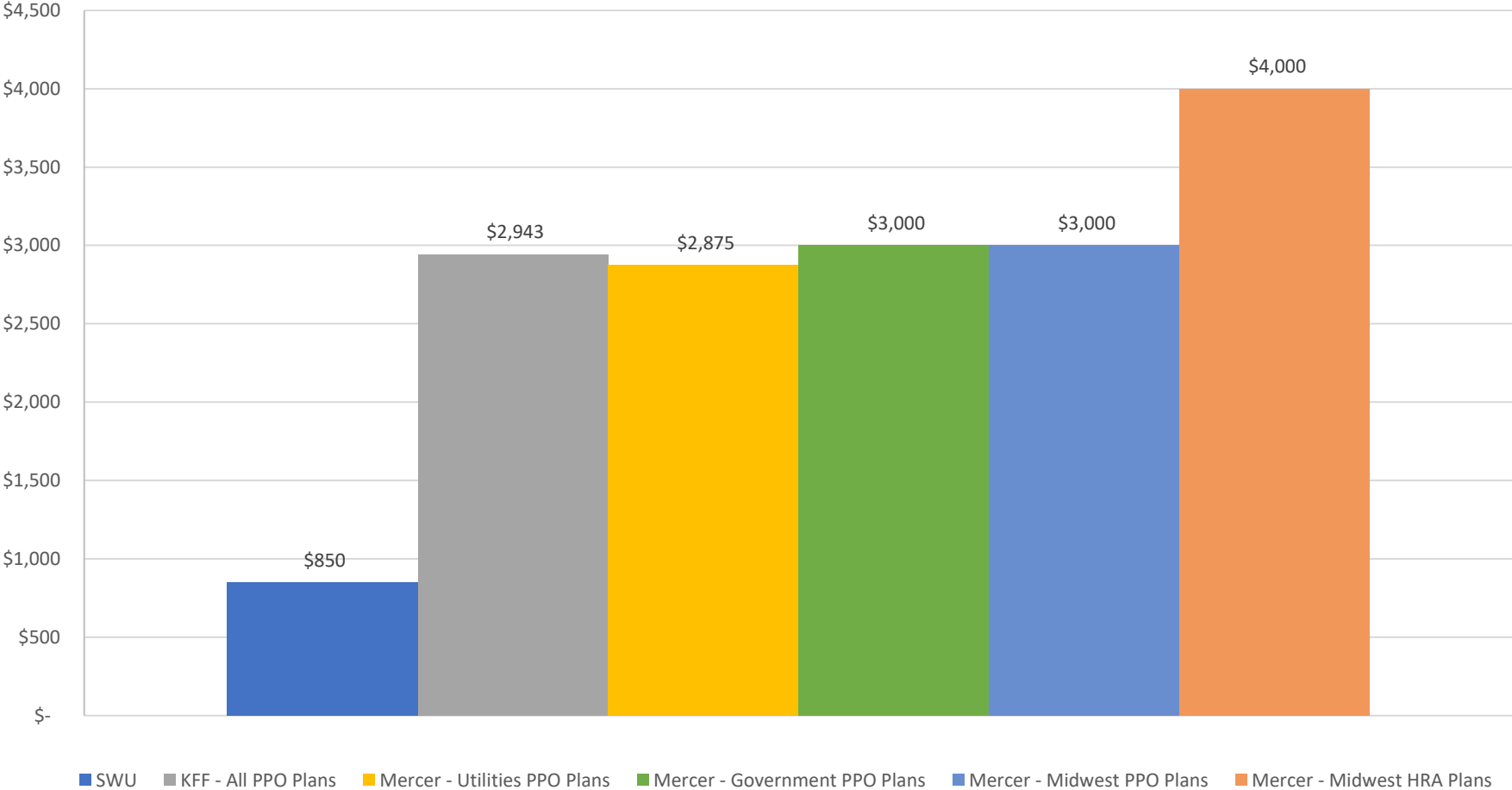
Plan Benefit Percentage – Medical



**BENCHMARKING SOURCES: KFF=KAISER FAMILY FOUNDATION 2020 EMPLOYER HEALTH BENEFITS SURVEY (PUBLISHED 10/2020)
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UNIT VALUES FOR THE SHEBOYGAN WATER UTILITY ARE ACTUAL JANUARY 1, 2021 PLAN DESIGN FEATURES**

Medical Benchmarking

Annual Maximum Out-of-Pocket Limit – Per Person



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MERCER=MERCER 2019 NATIONAL SURVEY OF EMPLOYER SPONSORED PLANS (PUBLISHED 10/2019)
UNIT VALUES FOR THE SHEBOYGAN WATER UTILITY ARE ACTUAL JANUARY 1, 2021 PLAN DESIGN FEATURES**

Estimate of Member Healthcare Usage

Estimate of Member Healthcare Usage				100	member group
Allowed Amounts Up To	Cumulative Percent	Cumulative Estimate of Members	Range of Allowed Amounts	Percent of Enrollees in Range	Estimated Members in Range
\$0	12.68%	13	\$0	12.68%	13
\$1,000	40.15%	40	\$1-\$1000	27.47%	27
\$2,000	54.09%	54	\$1001-\$2000	13.94%	14
\$3,000	62.53%	63	\$2001-\$3000	8.44%	9
\$4,000	68.36%	68	\$3001-\$4000	5.83%	5
\$5,000	72.66%	73	\$4001-\$5000	4.30%	5
\$10,000	84.03%	84	\$5001-\$10000	11.37%	11
\$25,000	93.73%	94	\$10001-\$25000	9.69%	10
\$50,000	97.22%	97	\$25001-\$50000	3.49%	3
\$100,000	98.95%	99	> \$50001	2.78%	3
All	100.00%	100	All Ranges	100.00%	100
<i>Source: ACA Actuarial Value Modeler (Gold-2020)</i>					

R. O. No. 9-30-21 . By BOARD OF WATER COMMISSIONERS. October 18, 2021.

We, hereby, submit the Board of Water Commissioners' Report on the Water Utility for the third quarter of 2021.

The water pumpage increased 2.60% from the same period in 2020. 1,275,383,000 gallons were pumped in the second quarter 2021, compared to 1,243,023,000 in 2020.

Year to date Operating Revenue at the end of the third quarter 2021 increased by \$961,435 compared to year to date 2020. The net income for the Utility, as of the end of September, 2021 is \$1,245,542. Details are shown on the attached Income Statement and Balance Sheet.

Construction-Maintenance:

Construction-maintenance work by the Water Utility during the third quarter of 2021:

Number of feet of 4 inch water main installed	0.0
Number of feet of 6 inch hydrant lead installed	0.0
Number of feet of 6 inch water main installed	12.0
Number of feet of 8 inch water main installed	0.0
Number of feet of 10 inch water main installed	0.0
Number of feet of 12 inch water main installed	14.4
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.....	26.0
Number of water main breaks repaired	0
Number of fire hydrants installed, replaced, relocated, removed, flushed, or major repairs made....	6
Number of water main valves installed, repaired, removed, or replaced	12
Number of water service connections installed	6

Details are shown on the attached reports.

Other Utility Business:

The Water Utility received construction authorization from the Wisconsin Public Service Commission of \$46M for its raw water improvements project. All permits from WDNR have also been received, and the Utility now anticipates advertising for bids as early as mid-November.

WDNR has also authorized a safe drinking water loan of \$38M for the raw water improvements project.

In addition, the Utility's contractor completed work on the Georgia Avenue water main and lead service line replacement project.

A transition to a new online payment platform took place.

BOARD OF WATER COMMISSIONERS

Gerald R. Van De Kreeke, President

Richard Dale

Thomas E. Howe

Attachments - Balance Sheet
Income Statement
Distribution System Quarterly Report
High Lift Delivery Operations Quarterly Report

To: Joe Trueblood, Utility Superintendent
From: Dave McMillan, Distribution Supervisor
Subject: Lead Service Line Replacement Program Grants

The Lead Service Line Replacement Program currently offers property owners a grant in a variety of circumstances:

- Routine LSL failure
- Inoperable Curb Stops
- Lead test result exceeding action limit
- Lead water lateral physical disruption
- High venous blood test in minor
- Primary water main replacement project
- Other customers/circumstances

In the city ordinance that was adopted on 07/06/2020 (and approved by the PSC), in Sec. 26-1006 the Board of Water Commissioners is authorized to implement and maintain a financial assistance program for the replacement of lead and galvanized service laterals.

Sec. 26-1006 (b) allows for a grant of up to (50%) of the service line replacement, but not to exceed a maximum grant amount established by the Board of Water Commissioners, which shall periodically review and adjust the maximum grant amount.

Sec. 26-1006 (c) allows for the remainder of the lead service line replacement to be paid for directly by the customer or through a 72-month 0% interest loan provided by the Sheboygan Water Utility.

Currently, the maximum grant amount is set at \$2,500, with grants being paid for using WDNR funds. I would like to recommend increasing the maximum grant amount to \$6,000. As construction costs continue to rise, \$2,500 is no longer indicative of 50% of the total cost of replacement of a Lead Service Line. Property owners are receiving quotes ranging from \$8,000 to \$12,000.

Increasing the maximum grant amount is also beneficial to both the Water Utility and the property owners that are receiving the grant. The grant money is being funded by the WDNR, and by using it to its fullest extent we lower the replacement costs to customers, as well as minimize the loan amounts that need to be funded and managed by the Sheboygan Water Utility.

Date: October 12, 2021
To: Joe Trueblood, Utility Superintendent
From: Bill Swearingen, Operations Supervisor
Subject: LCR and Lead Sequential Sampling Summary

Background

During the 2021 sanitary survey, WDNR suggested that the utility could soon be categorized as a large system under the Lead and Copper Rule, due to its potential increase in population ($\geq 50,000$). The City of Sheboygan's current population base is 48,327.

On May 4, 2021, WDNR and Utility Staff held a meeting to discuss the requirements and expectations of a large system under the existing and new Lead and Copper Rule. Discussion items included: Lead Materials Inventory, corrosion optimization requirements, water quality parameter and LCR monitoring requirements (sequential Sampling and CCT Study requirements).

EPA: Lead and Copper New Rule

Recently, EPA has proposed new changes to the current LCR and has begun the process of revision. The new rule is scheduled to be implemented in 2024.

Key points in New Lead and Copper Rule (New/Revised)

- The new proposed LCRs would require that all sample sites be a lead lateral material.
- 1st liter sample testing for copper and 5th liter sample testing for lead.
- Corrosion control study and treatment must be implemented if more than 10% of tap samples are greater than the action level (15 ppb) for lead.
- A new 90th percentile trigger exceedance level of 10 ppb but less than 15ppb, would require review of corrosion control treatment and re-optimization. Multiple site sequential sampling and testing for CCT optimization.
- Lead Service line material inventory

Sampling/Data/Results

Following the WDNR meeting, utility staff identified 4 sites for lead testing and review: please see data from investigative sequential sampling and lead testing in graph form.

Ten 1-liter samples were collected and tested at four different lead water laterals sites. Water remained unused for a minimum 6-hour period.

Under the new rule, action level is 15 ug/L, with an added CCT Study trigger level of 10ug/L. Based on the initial lead sampling results, we do not see an action level exceedance in the 5th liter sample in accordance with the new rule sampling and testing procedures. But we do see deviations among all samples at each site. One site exceeds lead action levels in early samples taken and another site exceeds following the 5th liter sample taken. Certain water quality parameters can also impact results. Especially, orthophosphate dose. The following water quality parameters were noted during sampling:

- water temperature: 67.4°
- pH: 7.63
- ortho phosphate residual: 1.1 mg/L

Another observation is that lead levels are below action level and CCT study trigger level after 10th liter sample, indicating that lead levels are reduced significantly when service laterals are flushed ~1-2min.

Again, this only four sites. The new rule(s) will require a 5th liter sample at 30 different lead lateral sites. 90th percentile results maybe impacted due to changes in sampling techniques and variations in lead laterals, but also water quality parameters. We will continue to investigate with additional sampling and make adjustments to our treatment process in an effort to optimize corrosion control. We are also continuing to review the all components within a formal corrosion control treatment desktop study.

Testing Site Review:

SITE ID:	Location Address:	Location Description:	Tier:	Start Date:	Status:	Building Type: SF, MF, O	Year Built	Year Built <1983 or = 1983/1984 or >1984	Pipe Material:		
									Service Line Street Side L, C, GN, G, P, O (describe if other)	Service Line Customer Side L, C, G, P, O (describe if other)	Building/Premise Plumbing L, C, CLS, G, P, O (describe if other)
C32		KITCHEN	PBCU TIER 1	8/18/2014	ACTIVE	SF	1900	<1983	L	C	O (Mixed plumbing materials)
C35		KITCHEN	PBCU TIER 1	6/1/2017	ACTIVE	SF	1930	<1983	L	L	O (Mixed plumbing materials)
C36		KITCHEN	PBCU TIER 1	6/1/2017	ACTIVE	SF	1915	<1983	L	L	O (Mixed plumbing materials)
026		KITCHEN	PBCU TIER 1	1/1/1994	ACTIVE	SF	1904	<1983	L	L	O (Mixed plumbing materials)

Tier 1 Site:

Single Family Structures with:

- Full or partial lead service lines; or
- Lead gooseneck, or
- Lead plumbing within the home; or
- Copper plumbing with lead solder, constructed between Jan 1983 and Sept 1984

Tier 2 Site: Multi-family Structures or other buildings with:

- Full or partial lead service lines; or
- Lead gooseneck, or
- Lead plumbing within the building; or
- Copper plumbing with lead solder, constructed between Jan 1983 and Sept 1984

Tier 3 Site:

Single Family Structure with:

- Copper Plumbing with lead solder, constructed before January 1983 constructed before January 1983

Exceptional Site: Sites where plumbing materials are representative of water system:

- Copper plumbing with lead solder, constructed after 1984
- Tier 1, 2, or 3 sites with whole-house water softeners
- Other, plumbing materials (PVC, galvanized)

Building Type

SF = Single Family Structure (Residence)
MF = Multi-Family Structure*
O = Other, describe
*Although some communities consider duplexes singlefamily dwellings they are considered multi-family under LCR

Service Line

Street Side
L = Lead Pipe
C = Copper Pipe
GN = Lead Gooseneck
G = Galvanized
P = Plastic
O = Other, describe

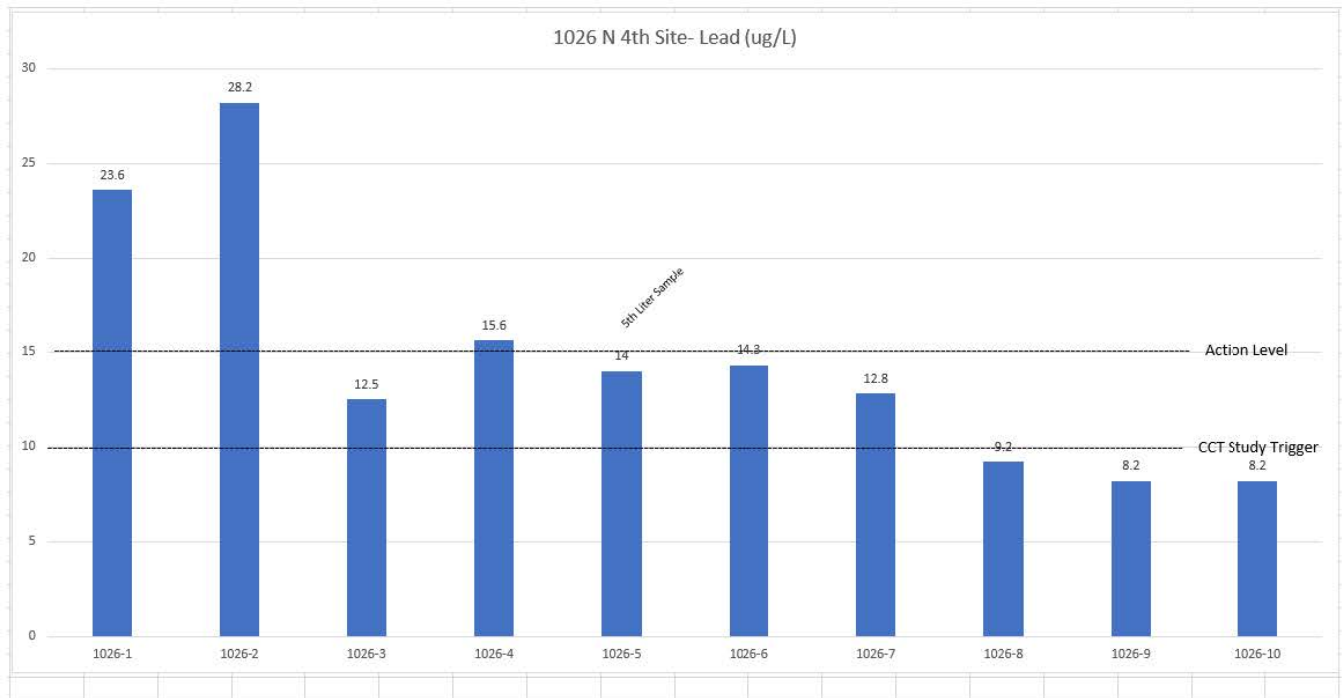
Service Line

Customer Side
L = Lead Pipe
C = Copper Pipe
GN = Lead Gooseneck
G = Galvanized
P = Plastic
O = Other, describe

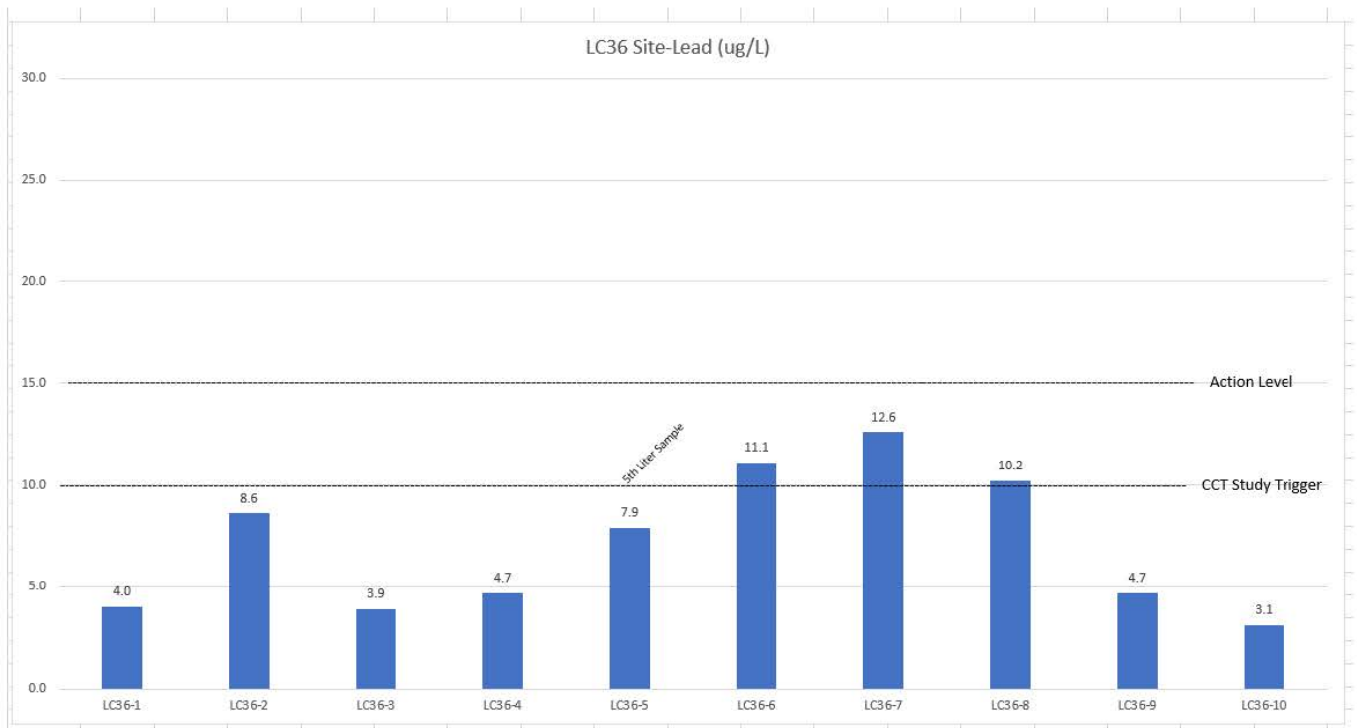
Building/Premise

Plumbing
L = Lead pipe
C = Copper Pipe
without Lead Solder
CLS = Copper Pipe with Lead Solder
G = Galvanized
P = Plastic
O = Other, describe

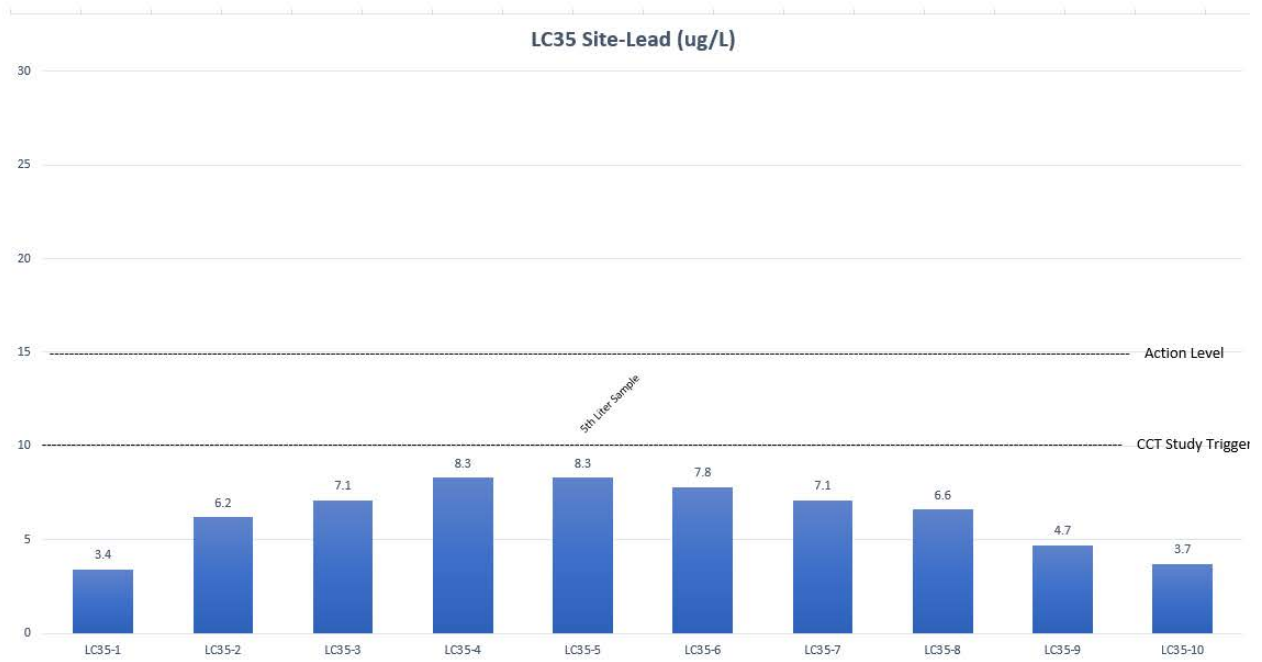
Graph 1:



Graph 2:



Graph 3:



Graph 4:

