ATTACHMENTS

City of Sheboygan
spirit on the lake Water Utility

STATEMENT OF NET POSITION

FEBRUARY 29, 2020 AND 2019

Assets and Other Debits Utility Plant	Year to Date 2020	Year to Date 2019
Utility Plant	72,714,242	68,570,958
Depreciation- Utility Plant	23,318,643	21,782,080
Net Utility Plant	$ 49,395,599	$ 46,788,878
Other Property and Investments		
Appropriated Funds	-	480,728
Bond Redemption Fund	706,627	715,248
Net Pension Asset[1]	-	387,084
Deferred Outflow - Pension & OPEB [1]	1,262,190	729,101
Total Other Prop & Investment	$ 1,968,817	$ 2,312,162
Current and Accrued Assets		
Cash & Investments	7,964,019	8,641,141
Accounts Receivable	1,338,633	1,423,798
Grant Receivable - Restricted[2]	24,397	27,614
Materials & Supplies Inventory	267,798	241,378
Prepaid Expenses	28,355	23,169
Total Current & Accrued Assets	$ 9,623,202	$ 10,357,099
Total Assets and Debits	**$ 60,987,618**	**$ 59,458,138**

Liabilities and Other Credits	Year to Date 2020	Year to Date 2019
Proprietary Capital		
Capital Paid by Municipal	1,640,701	1,640,701
Unapprop. Earned Surplus	44,627,999	42,307,657
Total Proprietary Capital	$ 46,268,700	$ 43,948,358
Bonds, Loans & Advances	11,589,426	12,597,471
Total Long Term Debt	$ 11,589,426	$ 12,597,471
Current & Accrued Liabilities		
Accounts Payable	1,031	2,000
Accrued Liabilities	886,632	904,693
Total Current & Accrued Liab.	$ 887,663	$ 906,693
Deferred Credits		
Bond Premium	259,094	291,966
Pre 2003 Depr on Contributed Assets	96,299	121,433
	$ 355,394	$ 413,399
Operating Reserves		
Net Pension & OPEB Liability[1]	275,425	299,388
Deferred Inflow - Pension & OPEB [1]	1,103,698	766,023
Accrued Vac & Sick Leave	507,312	526,807
Total Operating Reserve	$ 1,886,435	$ 1,592,218
Total Liab & Other Credits	**$ 60,987,618**	**$ 59,458,138**

[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.

City of Sheboygan
spirit on the lake Water Utility

STATEMENT OF REVENUE, EXPENSES AND CHANGES IN NET POSITION

FEBRUARY 29, 2020 AND 2019

	2020 MONTH	2020 YTD	2019 MONTH	2019 YTD	Incr (Decr) YTD	% Incr/Decr YTD
Sales Revenue[1]	$ 716,139	$ 1,032,453	$ 730,184	$ 1,107,448	$ (74,995)	-6.77%
Other Water Revenue	$ 5,743	$ 6,305	$ 5,292	$ 5,829	$ 476	8.16%
Total Operating Revenues	$ 721,881	$ 1,038,758	$ 735,477	$ 1,113,277	$ (74,519)	-6.69%
Operating Expenses[2]	336,772	501,950	190,240	432,178	69,772	16.14%
Maintenance Expenses[3]	56,909	100,892	61,050	105,804	(4,913)	-4.64%
Depreciation Expenses[4]	126,594	270,214	115,382	247,311	22,902	9.26%
Taxes	104,853	173,116	102,834	169,880	3,236	1.90%
Total Operating Expenses	$ 625,128	$ 1,046,171	$ 469,504	$ 955,173	$ 90,998	9.53%
Utility Operating Income	$ 96,754	$ (7,412)	$ 265,973	$ 158,104	$ (165,517)	-104.69%
Other Income & Expense						
Non-operating Grant Revenue	7,500	7,500	2,500	2,500	5,000	
Non-Operating Grant Expenses	(7,500)	(7,500)	-	(2,500)	(5,000)	
Bond Premium	2,739	5,479	2,739	5,479	-	
Interest Earned on Investments	5,075	10,277	6,415	12,203	(1,926)	
Contributions	-	-	-	-	-	
Other Expense	-	-	-	-	-	
Misc Amortization	2,094	4,189	2,094	4,189	-	
Bond Interest Expense	(26,214)	(53,027)	(26,368)	(52,737)	(291)	
Change in Net Position	**$ 80,449**	**$ (40,497)**	**$ 253,353**	**$ 127,238**	**$ (167,734)**	

[1] The decrease in Sales Revenue is due to a decrease in usage among industrial, residential and wholesale customers.

[2] The increase in Operating Expense is due to a payout of retirement severance and increased medical claims.

[3] The decrease in Maintenance Expense is due to a decrease in the number of main breaks from prior year.

[4] The increase in Depreciation Expense is due to the capitalization of the Horizon water tower, including new infrastructure at the SouthPointe Enterprise Campus.

City of Sheboygan
spirit on the lake Water Utility

RETURN ON RATE BASE

February 29, 2020

	FEBRUARY 2020	FEBRUARY 2019
Add 2 YR Average		
Utility Plant Balance	$ 63,476,101	$ 60,475,065
Materials and Supplies Inventory	$ 254,588	$ 253,801
Less 2 YR Average		
Reserve for Depreciation	$ 20,919,984	$ 19,504,453
Customer Adv for Const	$ -	$ -
Average Rate Base	$ 42,810,705	$ 41,224,413
Net Operating Income YTD	$ (7,413)	$ 158,104
Net Operating Income As a Percent of Average Net Rate Base	**-0.02%**	**0.38%**

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.

City of Sheboygan Water Utility
spirit on the lake

CASH RESERVE
March 31, 2020

Ending balance on report for February 29, 2020		**$ 8,669,896.19**
Plus:	Receipts	487,396.62
	Misc Receipts	126,584.74
	Direct Pay Receipts	247,938.42
	Money Market/CDARs Investment Interest	3,233.62
	Online Payments in Transit	-
Minus:		
	Disbursements - vendors and payroll	(356,937.39)
	Bank Service Fees Credit	259.46
	Health & Dental Claims/Adm Costs	(115,124.96)
	NSF Checks & Customer Refunds	(1,791.24)
	PSN Deposit Fees	(514.49)
	Reallocate Sewer/Garbage - payments	6,251.70
	Reallocate Sewer/Garbage - monthly	(604.71)
	Online Payments in Transit Dec	(7,569.84)
	Payroll Transaction in Transit	(21,313.62)
	Postage	(5,000.00)
	Utility Water Payments	(2,142.02)
Ending Balance March 31, 2020		**$ 9,030,562.48**

Note: The above amount includes:

Bond Reserve Fund	706,626.79
CD Investment Account - 15 month	1,376,642.07
CD Investment Account - 12 month	1,039,395.48
Money Market Investment	1,536,836.66
Total	**$ 4,659,501.00**

General Unrestricted Operating Cash 4,371,061.48

City of Sheboygan
spirit on the lake Water Utility

REPORT OF BILLING

MARCH 2020

		2020	2019	Increase or (Decrease)
Quarterly Metered*				
(Dist I - north of Superior Ave)	Residential	197,794.68	198,366.24	(571.56)
	Multi-Family	15,157.53	14,830.27	327.26
	Commercial	11,709.58	11,254.08	455.50
	Industrial	469.50	529.50	(60.00)
	Public	3,032.90	2,896.20	136.70
	Subtotal	**228,164.19**	**227,876.29**	**287.90**

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

Public Fire Protection	63,017.01	63,344.92	(327.91)
Flat Rate	27,786.51	26,430.66	1,355.85
Monthly Metered	275,660.59	304,728.08	(29,067.49)
Sheboygan Net	**594,628.30**	**622,379.95**	**(27,751.65)**
Sheboygan Falls	37,020.32	35,298.08	1,722.24
Kohler	22,163.88	25,691.04	(3,527.16)
Total	**653,812.50**	**683,369.07**	**(29,556.57)**

Total accumulative billing for 2020 is $2,005,632.31. A decrease of $101,360.32 from 2019 accounted for as follows:

	2020-Total Year to Date
Sheboygan	(95,494.16)
Sheboygan Falls	4,544.80
Kohler	(10,410.96)
	(101,360.32)

Total bills mailed March, 2020: 6,891

Residential	6,173				
Multi-Family	87	Multi-Family	7		
Commercial	215	Commercial	18		
Industrial	6	Industrial	64		
Public	32	Public	8	Fire Protection	281
Quarterly	**6,513**	**Monthly**	**97**	**Flat Rate**	**281**

City of Sheboygan
spirit on the lake Water Utility

RETURN ON RATE BASE

March 31, 2020

Add 2 YR Average	**MARCH 2020**	**MARCH 2019**
Utility Plant Balance	$ 63,753,700	$ 60,896,604
Materials and Supplies Inventory	$ 254,636	$ 251,314
Less 2 YR Average		
Reserve for Depreciation	$ 21,051,740	$ 19,630,482
Customer Adv for Const	$ -	$ -
Average Rate Base	$ 42,956,595	$ 41,517,437
Net Operating Income YTD	$ 165,579	$ 111,184
Net Operating Income As a Percent of Average Net Rate Base	**0.39%**	**0.27%**

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.

City of Sheboygan
spirit on the lake Water Utility

STATEMENT OF NET POSITION

MARCH 31, 2020 AND 2019

Assets and Other Debits Utility Plant	Year to Date 2020	Year to Date 2019
Utility Plant	72,799,161	69,041,236
Depreciation- Utility Plant	23,465,174	21,918,584
Net Utility Plant	$ 49,333,987	$ 47,122,652
Other Property and Investments		
Appropriated Funds	-	296,544
Bond Redemption Fund	706,627	715,248
Net Pension Asset[1]	-	387,084
Deferred Outflow - Pension & OPEB [1]	1,262,190	729,101
Total Other Prop & Investment	$ 1,968,817	$ 2,127,977
Current and Accrued Assets		
Cash & Investments	8,324,686	8,595,591
Accounts Receivable	1,322,332	1,377,497
Grant Receivable - Restricted[2]	14,397	2,500
Materials & Supplies Inventory	268,022	241,249
Prepaid Expenses	32,778	26,574
Total Current & Accrued Assets	$ 9,962,215	$ 10,243,411
Total Assets and Debits	**$ 61,265,018**	**$ 59,494,040**

Liabilities and Other Credits	Year to Date 2020	Year to Date 2019
Proprietary Capital		
Capital Paid by Municipal	1,640,701	1,640,701
Unapprop. Earned Surplus	44,783,913	42,244,303
Total Proprietary Capital	$ 46,424,614	$ 43,885,004
Bonds, Loans & Advances	11,589,426	12,581,333
Total Long Term Debt	$ 11,589,426	$ 12,581,333
Current & Accrued Liabilities		
Accounts Payable	-	3,000
Accrued Liabilities	1,010,337	1,019,795
Total Current & Accrued Liab.	$ 1,010,337	$ 1,022,795
Deferred Credits		
Bond Premium	256,355	289,227
Pre 2003 Depr on Contributed Assets	94,205	119,338
	$ 350,560	$ 408,566
Operating Reserves		
Net Pension & OPEB Liability[1]	275,425	299,388
Deferred Inflow - Pension & OPEB [1]	1,103,698	766,023
Accrued Vac & Sick Leave	510,959	530,932
Total Operating Reserve	$ 1,890,082	$ 1,596,343
Total Liab & Other Credits	**$ 61,265,018**	**$ 59,494,040**

[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.

City of Sheboygan
spirit on the lake Water Utility

STATEMENT OF REVENUE, EXPENSES AND CHANGES IN NET POSITION

MARCH 31, 2020 AND 2019

	2020 MONTH	2020 YTD	2019 MONTH	2019 YTD	Incr (Decr) YTD	% Incr/Decr YTD
Sales Revenue[1]	$ 655,722	$ 1,688,175	$ 688,839	$ 1,796,286	$ (108,111)	-6.02%
Other Water Revenue	$ 4,838	$ 11,144	$ 4,573	$ 10,403	$ 741	7.12%
Total Operating Revenues	$ 660,561	$ 1,699,319	$ 693,412	$ 1,806,689	$ (107,370)	-5.94%
Operating Expenses[2]	206,477	708,427	466,887	899,065	(190,638)	-21.20%
Maintenance Expenses[3]	51,919	152,811	55,549	161,353	(8,542)	-5.29%
Depreciation Expenses[4]	126,563	396,776	115,369	362,680	34,096	9.40%
Taxes	102,609	275,725	102,528	272,408	3,317	1.22%
Total Operating Expenses	$ 487,568	$ 1,533,739	$ 740,332	$ 1,695,506	$ (161,767)	-9.54%
Utility Operating Income	$ 172,993	$ 165,580	$ (46,920)	$ 111,184	$ 54,396	48.92%
Other Income & Expense						
Non-operating Grant Revenue	2,500	10,000	2,500	5,000	5,000	
Non-Operating Grant Expenses	(2,500)	(10,000)	(2,500)	(5,000)	(5,000)	
Bond Premium	2,739	8,218	2,739	8,218	-	
Interest Earned on Investments	4,302	14,578	5,735	17,938	(3,360)	
Contributions	-	-	-	-	-	
Other Expense	-	-	-	-	-	
Misc Amortization	2,094	6,283	2,094	6,283	-	
Bond Interest Expense	(26,214)	(79,241)	(27,002)	(79,739)	497	
Change in Net Position	**$ 155,914**	**$ 115,417**	**$ (63,353)**	**$ 63,885**	**$ 51,534**	

[1] The decrease in Sales Revenue is due to a decrease in usage among industrial, residential and wholesale customers.

[2] The decrease in Operating Expense is due to a decrease in pumping expense and a decrease in medical claims from this period prior year.

[3] The decrease in Maintenance Expense is due to a decrease in structures maintenance by SWU staff from this period prior year.

[4] The increase in Depreciation Expense is due to the capitalization of the Horizon water tower, including new infrastructure at the SouthPointe Enterprise Campus.

City of Sheboygan
spirit on the lake Water Utility

APPROVAL OF VOUCHERS

March 31, 2020

Total Of The General Vouchers	$	203,358.80
Gross Payroll	$	158,686.20
Net Payroll	$	100,303.03

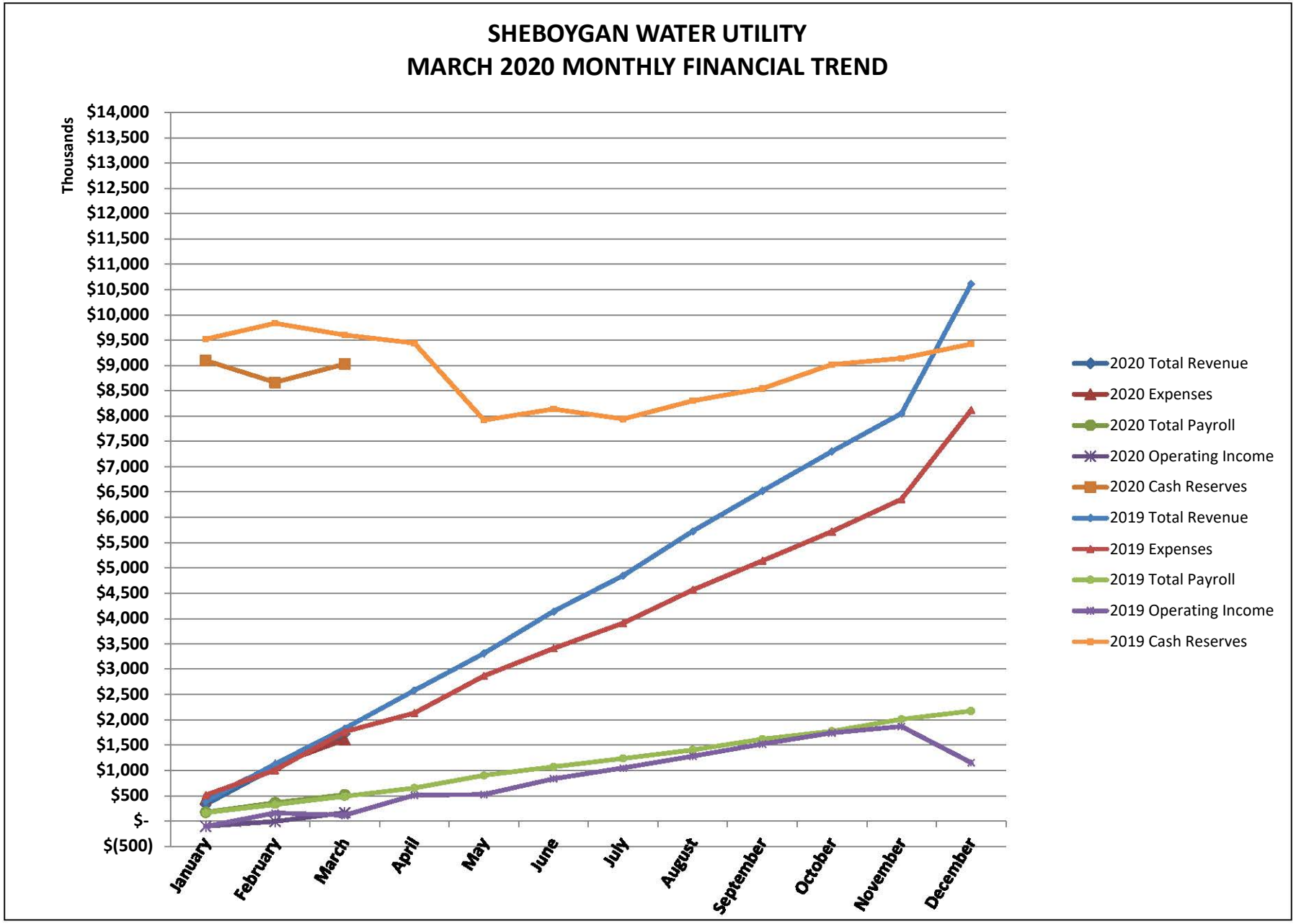
BOARD OF WATER COMMISSIONERS

PRESIDENT

SECRETARY

MEMBER

SUPERINTENDENT


SHEBOYGAN WATER UTILITY
MARCH 2020 MONTHLY FINANCIAL TREND
Thousands
$14,000
$13,500
$13,000
$12,500
$12,000
$11,500
$11,000
$10,500
$10,000
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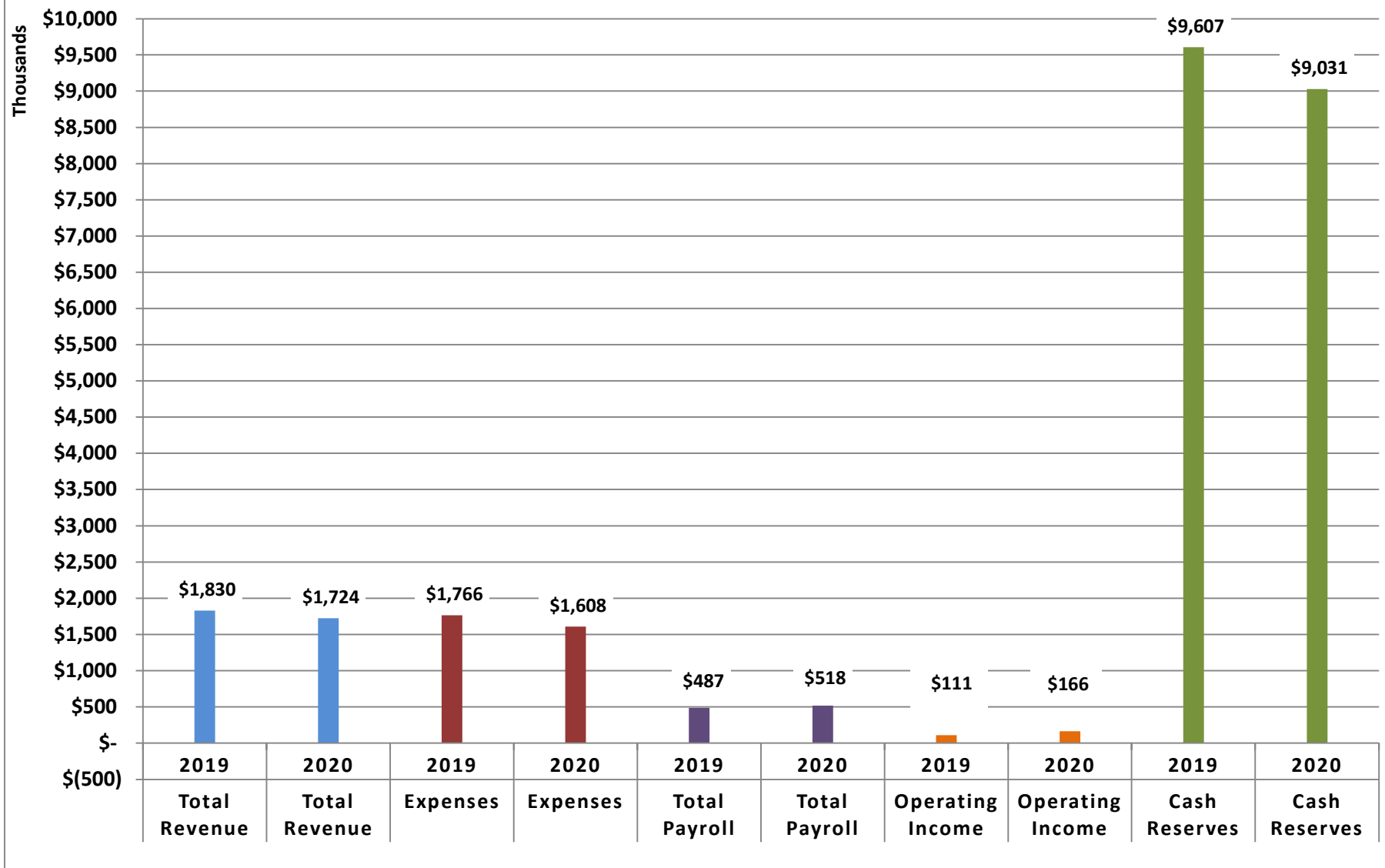
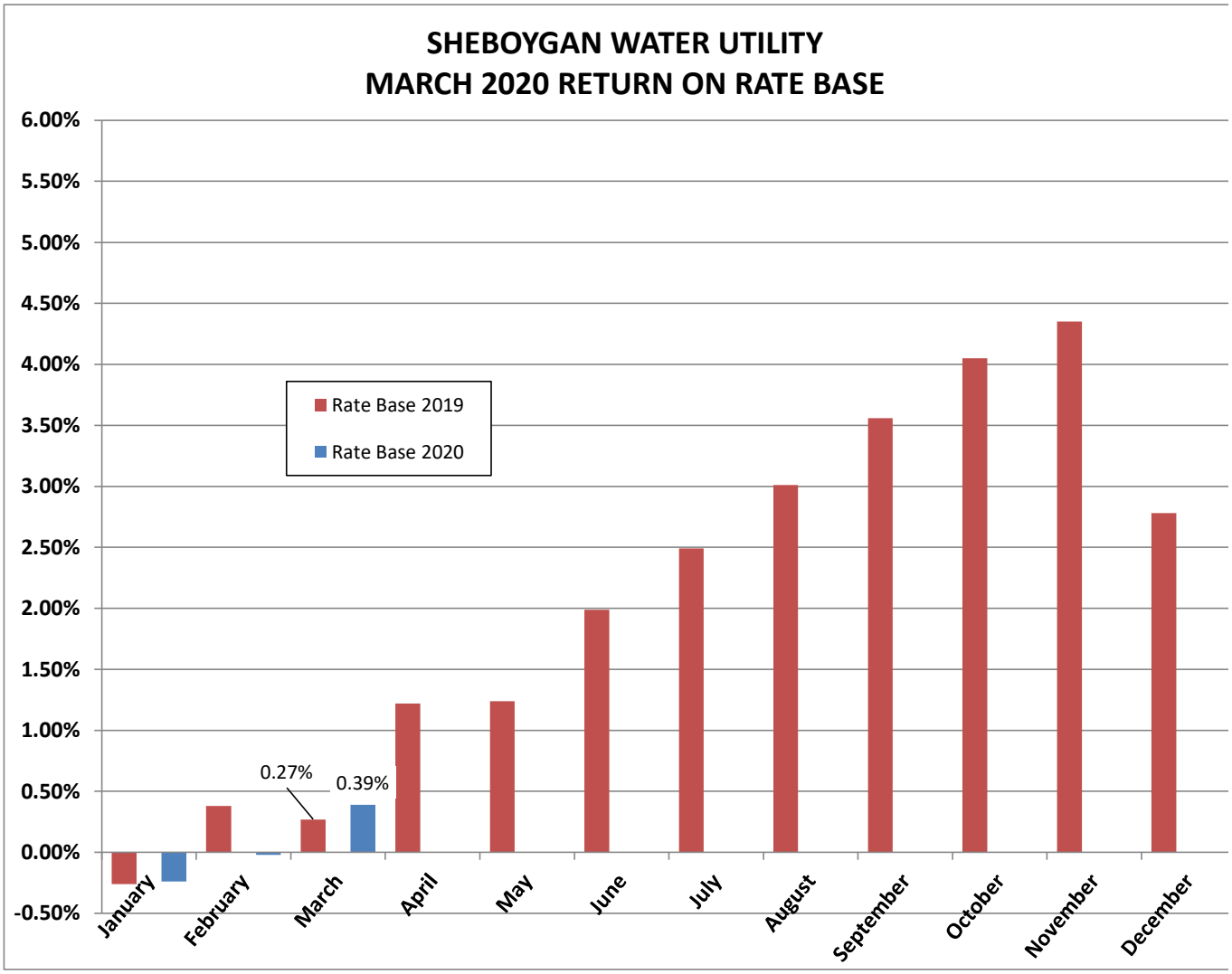
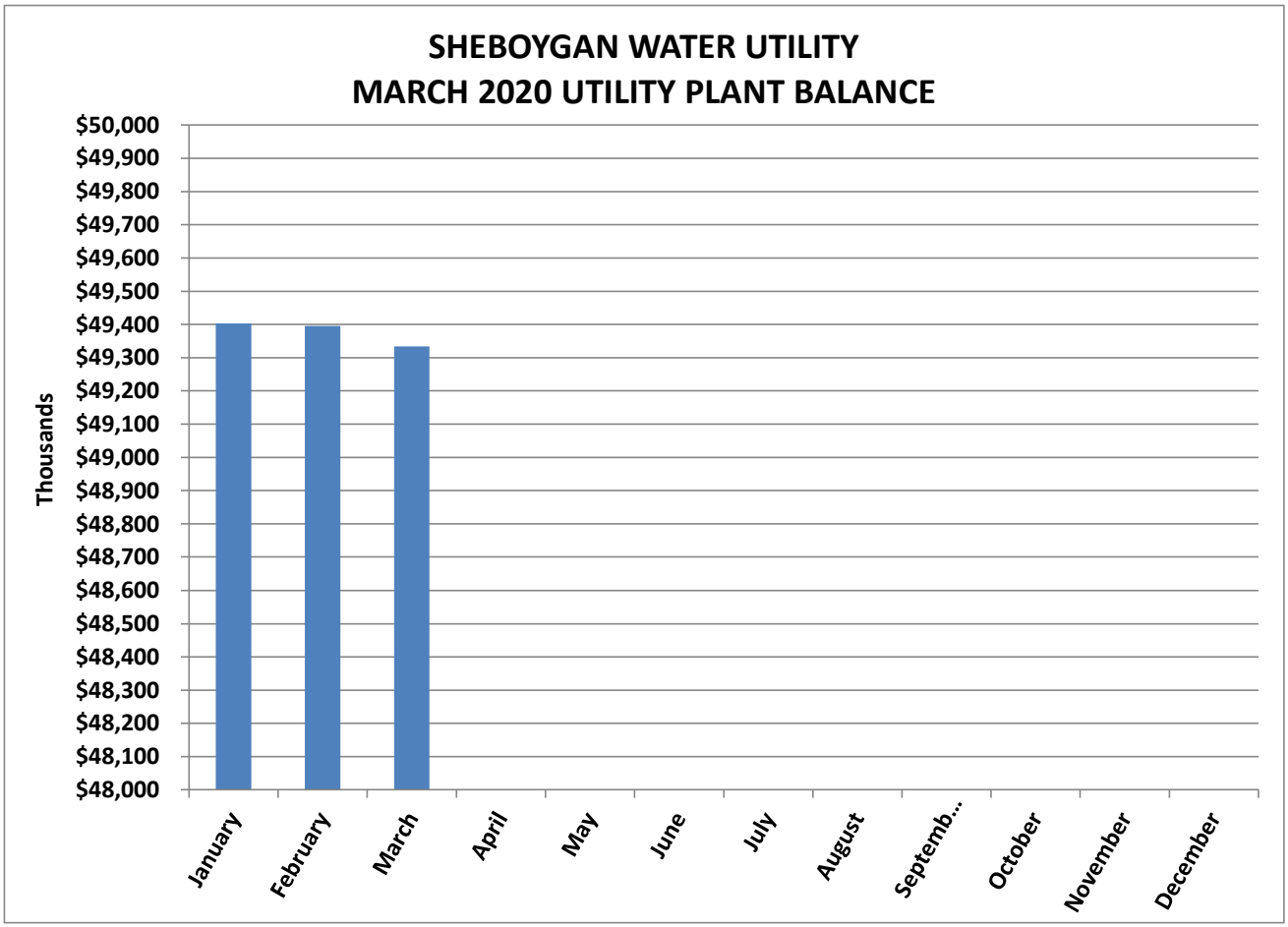
$(500)
January
February
March
April
May
June
July
August
September
October
November
December
2020 Total Revenue
2020 Expenses
2020 Total Payroll
2020 Operating Income
2020 Cash Reserves
2019 Total Revenue
2019 Expenses
2019 Total Payroll
2019 Operating Income
2019 Cash Reserves

SHEBOYGAN WATER UTILITY
MARCH 2020 YTD FINANCIAL POSITION




SHEBOYGAN WATER UTILITY
MARCH 2020 RETURN ON RATE BASE
6.00%
5.50%
5.00%
4.50%
4.00%
3.50%
3.00%
2.50%
2.00%
1.50%
1.00%
0.50%
0.00%
-0.50%
Rate Base 2019
Rate Base 2020
0.27%
0.39%
January
February
March
April
May
June
July
August
September
October
November
December


SHEBOYGAN WATER UTILITY
MARCH 2020 UTILITY PLANT BALANCE
Thousands
$50,000
$49,900
$49,800
$49,700
$49,600
$49,500
$49,400
$49,300
$49,200
$49,100
$49,000
$48,900
$48,800
$48,700
$48,600
$48,500
$48,400
$48,300
$48,200
$48,100
$48,000
January
February
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December

City of Sheboygan
spirit on the lake Water Utility

STATEMENT OF NET POSITION
JANUARY 31, 2020 AND 2019

Assets and Other Debits Utility Plant	Year to Date 2020	Year to Date 2019
Utility Plant	72,575,359	68,489,604
Depreciation- Utility Plant	23,171,989	21,645,055
Net Utility Plant	$ 49,403,369	$ 46,844,549
Other Property and Investments		
Appropriated Funds	-	480,728
Bond Redemption Fund	706,627	715,248
Net Pension Asset[1]	-	387,084
Deferred Outflow - Pension & OPEB [1]	1,262,190	729,101
Total Other Prop & Investment	$ 1,968,817	$ 2,312,162
Current and Accrued Assets		
Cash & Investments	8,397,719	8,322,985
Accounts Receivable	1,190,310	1,385,287
Grant Receivable - Restricted[2]	16,897	25,114
Materials & Supplies Inventory	265,819	232,503
Prepaid Expenses	31,612	25,567
Total Current & Accrued Assets	$ 9,902,356	$ 9,991,455
Total Assets and Debits	**$ 61,274,542**	**$ 59,148,166**

Liabilities and Other Credits	Year to Date 2020	Year to Date 2019
Proprietary Capital		
Capital Paid by Municipal	1,640,701	1,640,701
Unapprop. Earned Surplus	44,547,550	42,054,305
Total Proprietary Capital	$ 46,188,252	$ 43,695,006
Bonds, Loans & Advances	11,589,426	12,597,471
Total Long Term Debt	$ 11,589,426	$ 12,597,471
Current & Accrued Liabilities		
Accounts Payable	492,000	77,861
Accrued Liabilities	764,089	778,540
Total Current & Accrued Liab.	$ 1,256,089	$ 856,400
Deferred Credits		
Bond Premium	261,834	294,706
Pre 2003 Depr on Contributed Assets	98,394	123,527
	$ 360,227	$ 418,233
Operating Reserves		
Net Pension & OPEB Liability[1]	275,425	299,388
Deferred Inflow - Pension & OPEB [1]	1,103,698	766,023
Accrued Vac & Sick Leave	501,425	515,645
Total Operating Reserve	$ 1,880,548	$ 1,581,056
Total Liab & Other Credits	**$ 61,274,542**	**$ 59,148,166**

[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.

City of Sheboygan
spirit on the lake Water Utility

STATEMENT OF REVENUE, EXPENSES AND CHANGES IN NET POSITION

JANUARY 31, 2020 AND 2019

	2020 MONTH	2020 YTD	2019 MONTH	2019 YTD	Incr (Decr) YTD	% Incr/Decr YTD
Sales Revenue[1]	$ 316,314	$ 316,314	$ 377,264	$ 377,264	$ (60,949)	-16.16%
Other Water Revenue	$ 562	$ 562	$ 537	$ 537	$ 25	4.70%
Total Operating Revenues	$ 316,877	$ 316,877	$ 377,801	$ 377,801	$ (60,924)	-16.13%
Operating Expenses[2]	165,178	165,178	241,938	241,938	(76,760)	-31.73%
Maintenance Expenses	43,983	43,983	44,755	44,755	(772)	-1.73%
Depreciation Expenses	143,619	143,619	131,929	131,929	11,690	8.86%
Taxes	68,264	68,264	67,047	67,047	1,217	1.82%
Total Operating Expenses	$ 421,044	$ 421,043	$ 485,668	$ 485,668	$ (64,625)	-13.31%
Utility Operating Income	$ (104,167)	$ (104,166)	$ (107,867)	$ (107,867)	$ 3,701	-3.43%
Other Income & Expense						
Non-operating Grant Revenue	-	-	-	-	-	
Non-Operating Grant Expenses	-	-	(2,500)	(2,500)	2,500	
Bond Premium	2,739	2,739	2,739	2,739	0	
Interest Earned on Investments	5,202	5,202	5,788	5,788	(586)	
Contributions	-	-	-	-	-	
Other Expense	-	-	-	-	-	
Misc Amortization	2,094	2,094	2,094	2,094	0	
Bond Interest Expense	(26,813)	(26,813)	(26,368)	(26,368)	(445)	
Change in Net Position	**$ (120,945)**	**$ (120,945)**	**$ (126,114)**	**$ (126,114)**	**$ 5,170**	

[1] The decrease in Sales Revenue is due to a decrease in usage among industrial, residential and wholesale customers.

[2] The decrease in Operating Expense is due to the timing of the payment of electric utlities and the payment of a large medical claim in the prior year.

City of Sheboygan
spirit on the lake Water Utility

RETURN ON RATE BASE

January 31, 2020

Add 2 YR Average	**JANUARY 2020**	**JANUARY 2019**
Utility Plant Balance	$ 63,365,982	$ 60,405,581
Materials and Supplies Inventory	$ 249,161	$ 248,564
Less 2 YR Average		
Reserve for Depreciation	$ 20,787,906	$ 19,380,276
Customer Adv for Const	$ -	$ -
Average Rate Base	$ 42,827,237	$ 41,273,868
Net Operating Income YTD	$ (104,167)	$ (107,867)
Net Operating Income As a Percent of Average Net Rate Base	**-0.24%**	**-0.26%**

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.

City of Sheboygan Water Utility
spirit on the lake

CASH RESERVE
April 30, 2020

Ending balance on report for March 31, 2020		**$ 9,030,562.48**
Plus:	Receipts	515,459.46
	Misc Receipts	114,419.81
	Direct Pay Receipts	248,732.67
	Money Market/CDARs Investment Interest	2,968.91
	Online Payments in Transit	-
Minus:		
	Disbursements - vendors and payroll	(404,307.30)
	Bank Service Fees Credit	(1,047.27)
	Health & Dental Claims/Adm Costs	(163,151.71)
	NSF Checks & Customer Refunds	(752.93)
	PSN Deposit Fees	(292.04)
	Reallocate Sewer/Garbage - payments	44.52
	Reallocate Sewer/Garbage - monthly	(997.34)
	Payroll Transaction in Transit	21,313.62
	Postage	(3,000.00)
	Utility Water Payments	(4,067.96)
Ending Balance	**April 30, 2020**	**$ 9,355,884.92**

Note: The above amount includes:

Bond Reserve Fund	706,626.79
CD Investment Account - 12 month	1,378,337.41
CD Investment Account - 12 month	1,040,543.09
Money Market Investment	1,536,962.62
Total	**$ 4,662,469.91**

General Unrestricted Operating Cash 4,693,415.01

City of Sheboygan
spirit on the lake Water Utility

REPORT OF BILLING

APRIL 2020

		2020	2019	Increase or (Decrease)
Quarterly Metered*				
(Dist II - between Union and Superior Ave.)	Residential	164,165.97	167,716.52	(3,550.55)
	Multi-Family	25,002.37	23,929.47	1,072.90
	Commercial	52,755.59	55,601.75	(2,846.16)
	Industrial	5,445.08	5,817.30	(372.22)
	Public	7,920.00	8,104.20	(184.20)
	Subtotal	**255,289.01**	**261,169.24**	**(5,880.23)**
Public Fire Protection		67,461.65	67,348.87	112.78
Monthly Metered		200,433.16	317,203.11	(116,769.95)
Sheboygan Net		**523,183.82**	**645,721.22**	**(122,537.40)**
Sheboygan Falls		43,252.40	36,186.80	7,065.60
Kohler		22,341.96	25,355.88	(3,013.92)
Total		**588,778.18**	**707,263.90**	**(118,485.72)**

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

Total accumulative billing for 2020 is $2,594,410.49. A decrease of $219,846.04 from 2019 accounted for as follows:

	2020 Total Year to Date
Sheboygan	(218,031.56)
Sheboygan Falls	11,610.40
Kohler	(13,424.88)
	(219,846.04)

Total bills mailed April, 2020: 6,283

Residential	5,207		
Multi-Family	113	Multi-Family	5
Commercial	773	Commercial	18
Industrial	39	Industrial	64
Public	56	Public	8
Quarterly	**6,188**	**Monthly**	**95**

City of Sheboygan
spirit on the lake Water Utility

RETURN ON RATE BASE

April 30, 2020

Add 2 YR Average	**APRIL 2020**	**APRIL 2019**
Utility Plant Balance	$ 64,170,633	$ 61,278,204
Materials and Supplies Inventory	$ 286,231	$ 290,838
Less 2 YR Average		
Reserve for Depreciation	$ 21,183,107	$ 19,753,911
Customer Adv for Const	$ -	$ -
Average Rate Base	$ 43,273,757	$ 41,815,131
Net Operating Income YTD	$ 230,655	$ 508,775
Net Operating Income As a Percent of Average Net Rate Base	**0.53%**	**1.22%**

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.

City of Sheboygan Water Utility
spirit on the lake

STATEMENT OF NET POSITION
APRIL 30, 2020 AND 2019

Assets and Other Debits Utility Plant	Year to Date 2020	Year to Date 2019
Utility Plant	72,903,155	69,771,108
Depreciation- Utility Plant	23,612,004	22,054,013
Net Utility Plant	$ 49,291,152	$ 47,717,095
Other Property and Investments		
Appropriated Funds	-	296,544
Bond Redemption Fund	706,627	715,248
Net Pension Asset[1]	-	387,084
Deferred Outflow - Pension & OPEB [1]	1,262,190	729,101
Total Other Prop & Investment	$ 1,968,817	$ 2,127,977
Current and Accrued Assets		
Cash & Investments	8,650,008	8,431,798
Accounts Receivable	1,211,438	1,397,208
Grant Receivable - Restricted[2]	22,347	2,500
Materials & Supplies Inventory	276,641	295,822
Prepaid Expenses	24,966	22,563
Total Current & Accrued Assets	$ 10,185,400	$ 10,149,890
Total Assets and Debits	**$ 61,445,369**	**$ 59,994,962**

Liabilities and Other Credits	Year to Date 2020	Year to Date 2019
Proprietary Capital		
Capital Paid by Municipal	1,640,701	1,640,701
Unapprop. Earned Surplus	44,831,007	42,627,514
Total Proprietary Capital	$ 46,471,708	$ 44,268,215
Bonds, Loans & Advances	11,589,426	12,581,333
Total Long Term Debt	$ 11,589,426	$ 12,581,333
Current & Accrued Liabilities		
Accounts Payable	1,000	2,084
Accrued Liabilities	1,133,595	1,144,048
Total Current & Accrued Liab.	$ 1,134,595	$ 1,146,132
Deferred Credits		
Bond Premium	253,615	286,488
Pre 2003 Depr on Contributed Assets	92,111	117,244
	$ 345,726	$ 403,732
Operating Reserves		
Net Pension & OPEB Liability[1]	275,425	299,388
Deferred Inflow - Pension & OPEB [1]	1,103,698	766,023
Accrued Vac & Sick Leave	524,790	530,140
Total Operating Reserve	$ 1,903,913	$ 1,595,551
Total Liab & Other Credits	**$ 61,445,369**	**$ 59,994,962**

[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.

City of Sheboygan
spirit on the lake Water Utility

STATEMENT OF REVENUE, EXPENSES AND CHANGES IN NET POSITION

APRIL 30, 2020 AND 2019

	2020 MONTH	2020 YTD	2019 MONTH	2019 YTD	Incr (Decr) YTD	% Incr/Decr YTD
Sales Revenue[1]	$ 613,973	$ 2,302,148	$ 737,390	$ 2,533,676	$ (231,528)	-9.14%
Other Water Revenue[2]	$ 27,791	$ 38,935	$ 4,972	$ 15,375	$ 23,560	153.24%
Total Operating Revenues	$ 641,764	$ 2,341,083	$ 742,361	$ 2,549,051	$ (207,968)	-8.16%
Operating Expenses[3]	303,926	1,012,353	80,947	980,012	32,342	3.30%
Maintenance Expenses[4]	43,445	196,256	46,322	207,675	(11,419)	-5.50%
Depreciation Expenses[5]	126,543	523,319	115,057	477,738	45,581	9.54%
Taxes	102,774	378,500	102,445	374,853	3,647	0.97%
Total Operating Expenses	$ 576,688	$ 2,110,427	$ 344,769	$ 2,040,276	$ 70,151	3.44%
Utility Operating Income	$ 65,076	$ 230,656	$ 397,592	$ 508,775	$ (278,119)	-54.66%
Other Income & Expense						
Non-operating Grant Revenue	7,950	17,950	-	5,000	12,950	
Non-Operating Grant Expenses	(7,950)	(17,950)	-	(5,000)	(12,950)	
Bond Premium	2,739	10,957	2,739	10,957	-	
Interest Earned on Investments	3,399	17,977	7,155	25,093	(7,116)	
Contributions	-	-	-	-	-	
Other Expense	-	-	-	-	-	
Misc Amortization	2,094	8,378	2,094	8,378	-	
Bond Interest Expense	(26,214)	(105,455)	(26,368)	(106,107)	651	
Change in Net Position	**$ 47,094**	**$ 162,511**	**$ 383,212**	**$ 447,096**	**$ (284,583)**	

[1] The decrease in Sales Revenue is due to a decrease in usage among industrial and commercial customers related to economic conditions most likely caused by the on-going health emergency. Usage among all other customer classes appears normal.

[2] The increase in Other Water Revenues includes a class action settlement pertaining to the purchase of liquid alum over a number of years.

[3] The increase in Operating Expense is due to payout of retirement severance, increase in treatment costs, and costs for mapping softward and training.

[4] The decrease in Maintenance Expense is due to fewer main breaks and a decrease in structures maintenance by SWU staff from this period prior year.

[5] The increase in Depreciation Expense is due to the capitalization of the Horizon water tower, including new infrastructure at the SouthPointe Enterprise Campus.

City of Sheboygan
spirit on the lake Water Utility

APPROVAL OF VOUCHERS

April 30, 2020

Total Of The General Vouchers	$	248,156.14
Gross Payroll	$	161,257.07
Net Payroll	$	102,542.12

BOARD OF WATER COMMISSIONERS

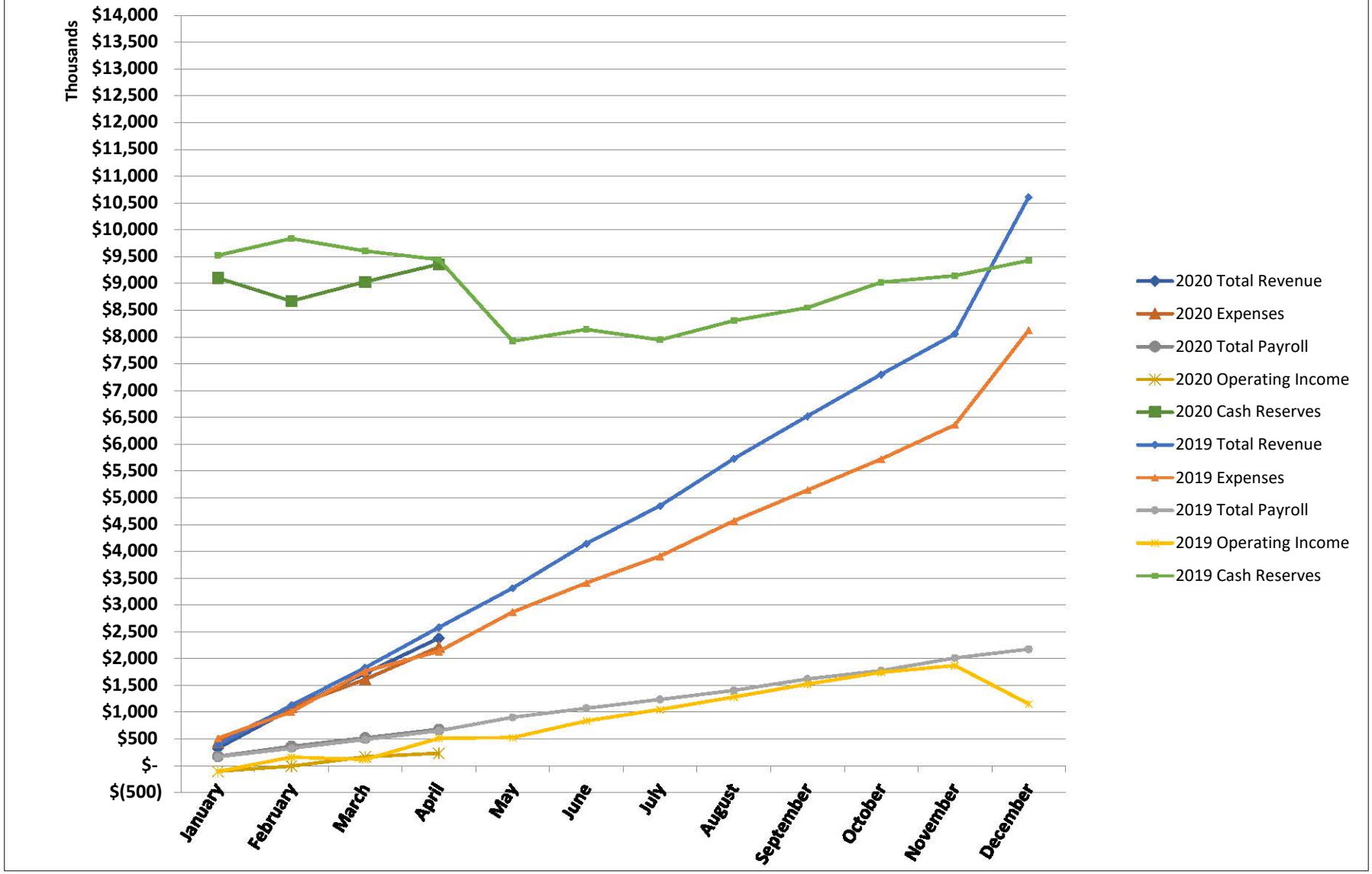
PRESIDENT

SECRETARY

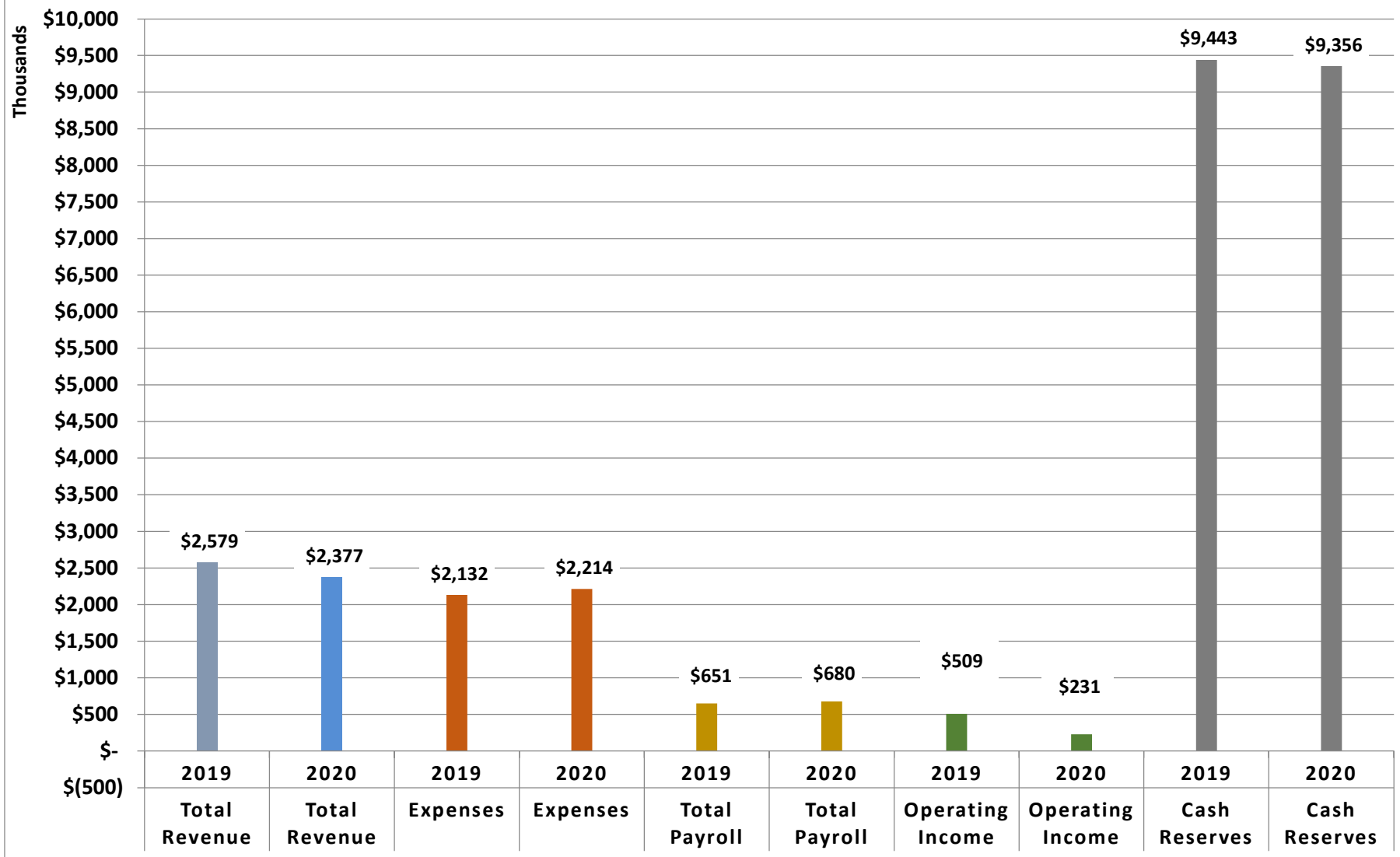
MEMBER

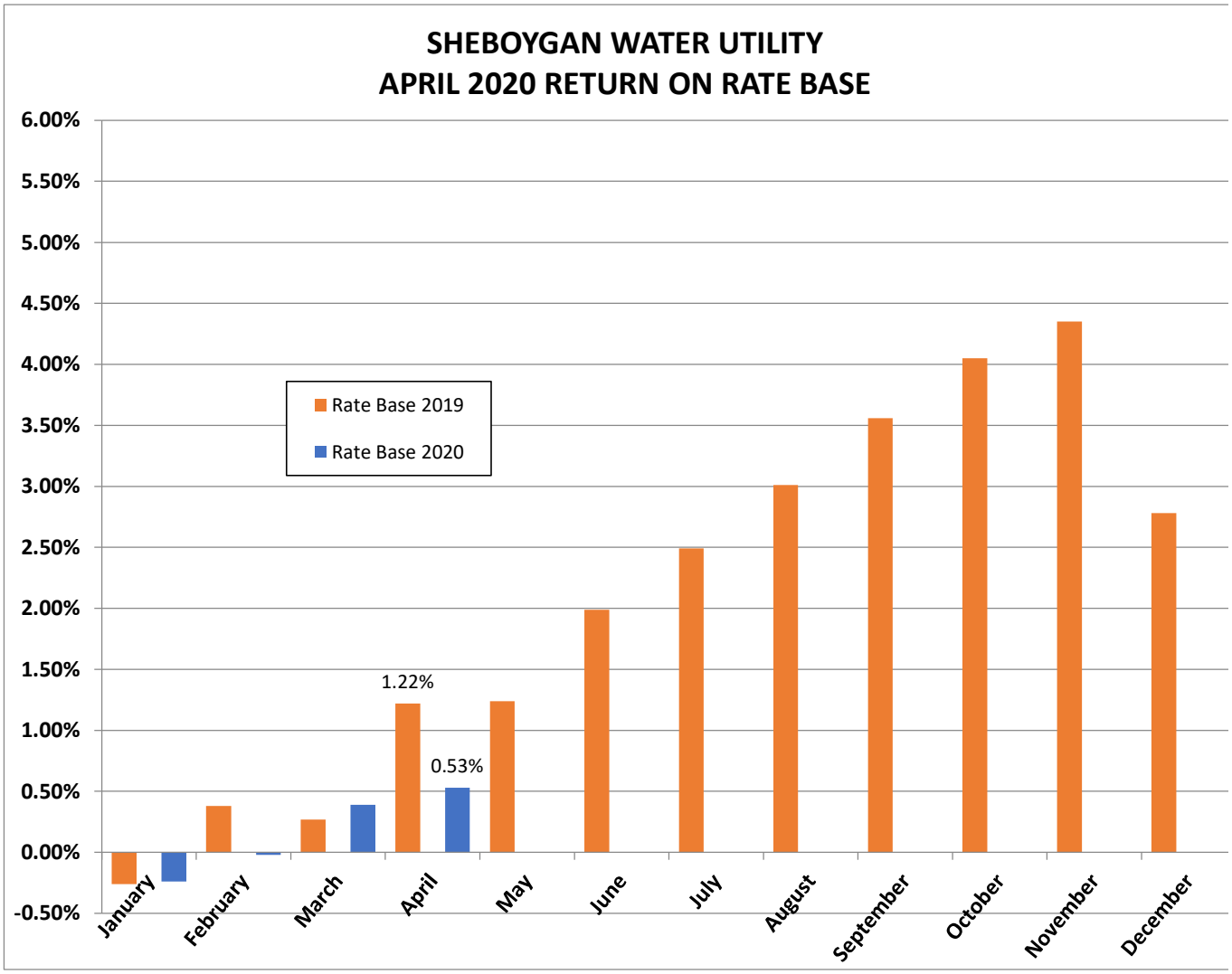
SUPERINTENDENT

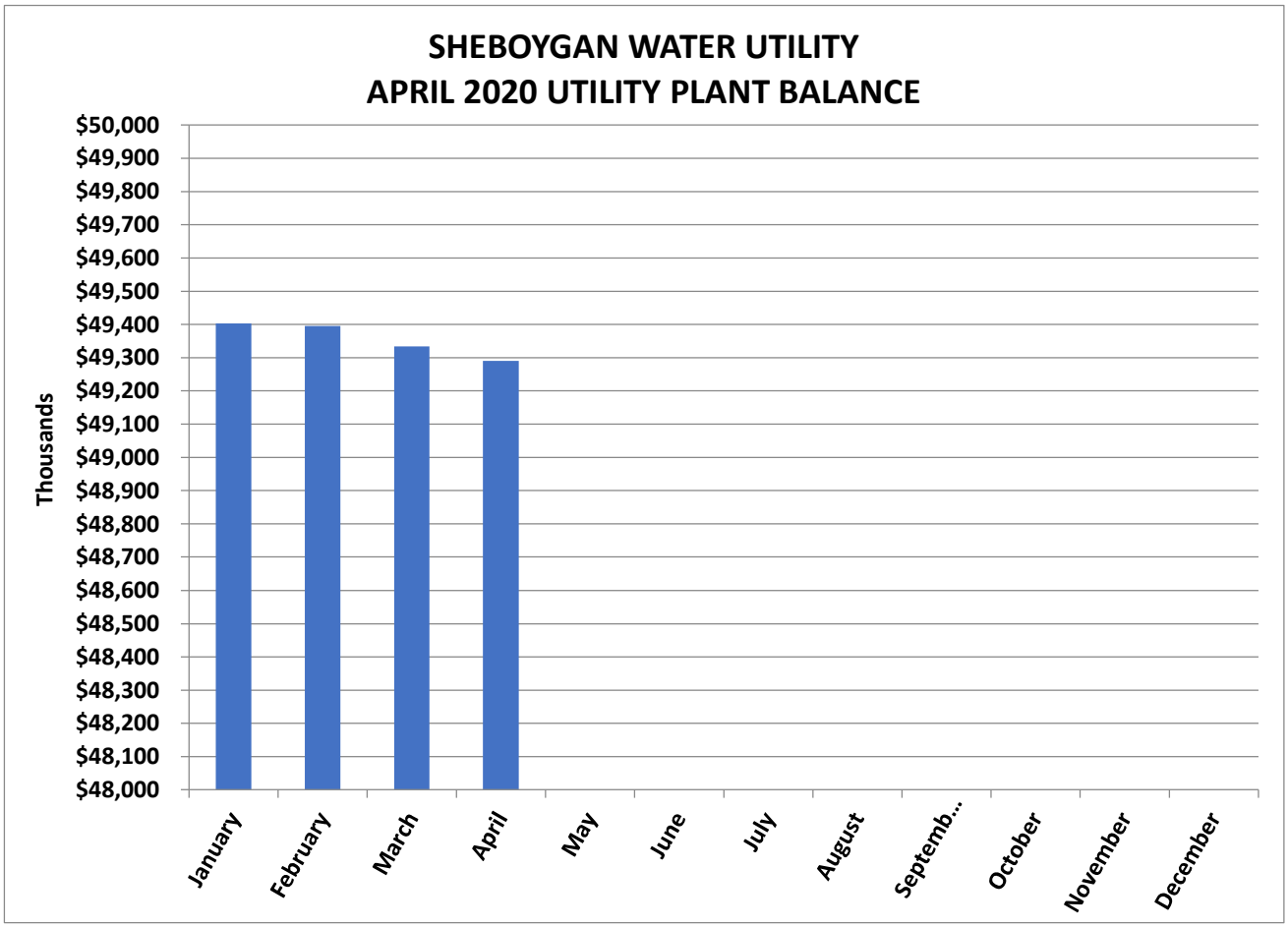
SHEBOYGAN WATER UTILITY
APRIL 2020 MONTHLY FINANCIAL TREND



SHEBOYGAN WATER UTILITY
APRIL 2020 YTD FINANCIAL POSITION




SHEBOYGAN WATER UTILITY
APRIL 2020 RETURN ON RATE BASE
6.00%
5.50%
5.00%
4.50%
4.00%
3.50%
3.00%
2.50%
2.00%
1.50%
1.00%
0.50%
0.00%
-0.50%
Rate Base 2019
Rate Base 2020
1.22%
0.53%
January
February
March
April
May
June
July
August
September
October
November
December


SHEBOYGAN WATER UTILITY
APRIL 2020 UTILITY PLANT BALANCE
Thousands
$50,000
$49,900
$49,800
$49,700
$49,600
$49,500
$49,400
$49,300
$49,200
$49,100
$49,000
$48,900
$48,800
$48,700
$48,600
$48,500
$48,400
$48,300
$48,200
$48,100
$48,000
January
February
March
April
May
June
July
August
Septemb...
October
November
December

March 2020

OPERATIONS' DEPARTMENT MONTHLY REPORT

	HIGH LIFT		LOW LIFT		2020 VS 2019
PUMPAGE	**2019**	**2020**	**2019**	**2020**	HL
Total in MG	378.811	343.872	379.794	346.655	-9.22%
Daily Average (MG)	12.220	11.114	12.251	11.182	
Max. Day (MG)	13.661	13.092	13.793	13.319	2020 VS 2018
					HL
Gal/KwH	1,302	1,185	5,789	5,297	-7.01%

ELECTRICAL COSTS					
	2019		**2020**		
A. Pumping:	**KwH**	**$**	**KwH**	**$**	
High Lift	291,002	$23,528.23	290,691	$20,737.37	
Low Lift	65,608	$5,304.57	65,441	$4,668.44	
Wash Pump 1	2,100	$169.79	2,100	$149.81	
Georgia St. Bstr.	48,200	$4,273.52	55,500	$4,840.49	
Wilgus Ave. Bstr.	3,000	$375.67	3,400	$414.83	
EE Pit / Bstr.	3,116	$380.26	5,504	$640.71	
Erie Ave. Bstr.	12,770	$1,892.67	15,200	$2,110.85	$/KwH
Sub Total	425,796	**$35,924.71**	437,836	**$33,562.51**	-9.1%
B. Treat./Fiscal/Misc.	**KwH**	**$**	**KwH**	**$**	
Office & Maint. Bldg.	5,325	$641.19	6,451	$754.50	
Filter Plant / Pump Station / 2nd Service	60,290	$5,398.09	58,368	$4,674.21	
					$/KwH
Sub Total	65,615	**$6,039.28**	64,819	**$5,428.71**	-9.0%
C. Distribution:	**KwH**	**$**	**KwH**	**$**	
Taylor Hill Tank	3,030	$371.00	2,515	$307.11	
Kohler Meter Pit	0	$0.00	0	$0.00	
EE Tower	1,361	$176.79	2,037	$252.59	
Washington (PRV) Pit	2,114	$279.53	1,234	$168.83	
Sub Total	6,505	**$827.32**	5,786	**$728.53**	$/KwH
Total Electrical Costs	**497,916**	**$42,791.31**	**508,441**	**$39,719.74**	-9.1%
Electrical Cost / MG		$112.96		$115.28	

	2019		**2020**		
NATURAL GAS COSTS	CCF Used	Cost	CCF Used	Cost	
Production Facility	1,818	$1,014.03	1,806	$900.82	
South Basin	3,261	$1,841.10	2,971	$1,507.12	
Georgia St. Bstr.	250	$134.58	110	$82.46	
Erie Ave. Bstr.	622	$332.46	266	$158.09	
Wilgus Ave. Bstr.	65	$47.51	30	$30.84	
Office & Maint. Bldg.	833	$511.55	1,115	$567.07	$/CCF
Total Natural Gas Costs	6,849	**$3,881.23**	6,298	**$3,246.40**	-9.0%
Natural Gas Cost / MG		$10.25		$9.42	

	2019		**2020**		
CHEMICAL COSTS	Lbs. Used	Cost	Lbs. Used	Cost	
Alum	64,868	$9,340.92	68,177	$9,647.05	-1.7%
Carbon	0	$0.00	0	$0.00	#DIV/0!
Chlorine	8,111	$7,332.34	6,269	$5,128.04	-9.5%
Fluoride	2,096	$1,844.59	2,055	$1,808.40	0.0%
KMnO4	0	$0.00	0	$0.00	#DIV/0!
Cationic Polymer	1,103	$1,710.27	57	$87.73	0.0%
Liquid Phosphate	2,444	$3,103.75	2,460	$3,124.20	0.0%
Total Chemical Costs		**$23,331.87**		**$19,795.42**	-15.2%
Chemical Cost / MG		$61.59		$57.45	

	Grand Total	**$70,004.41**	**$62,761.56**	-10.35%
	Total Cost / MG	**$184.80**	**$182.16**	-1.43%

YTD HL 2020 vs 2019	-4.60%	YTD HL HIGH DAY PUMPAGE	14.289	January 17, 2020
YTD HL 2020 vs 2018	-4.62%	YTD HL LOW DAY PUMPAGE	8.396	January 1, 2020

NOTE:
Pumpage is down ~9.22%.

	YTD HL Ave Day
2020	11.639
2019	12.384
2018	12.282

COMPARATIVE SUMMARY OF PLANT OPERATIONS

March 2020 vs **March 2020**

Pumping Record — **High Lift**

	2019	2020	Diff.
Tot. Water in MG	378.811	343.872	-9.22%
Daily Average	12.220	11.114	-9.05%
Maximum Day	13.661	13.092	-4.17%
Minimum Day	10.098	8.855	-12.31%
By Natural Gas	0.000	0.000	#DIV/0!
Power in KWH	291,002	290,691	-0.11%
Gals. per KWH	1,302	1,185	-8.97%
Power $ / KWH	$0.08085	$0.07134	-11.76%
Power $ / MG	$62.11	$60.19	($1.92)
Tot. Power $/MG	$114.84	$116.44	$1.60

Low Lift

	2019	2020	Diff.
Tot. Water in MG	379.794	346.655	-8.73%
Daily Average	12.251	11.182	-8.73%
Maximum Day	13.793	13.319	-3.44%
Minimum Day	10.260	9.310	-9.26%
By Natural Gas	0.000	0.000	#DIV/0!
Power in KWH	65,608	65,441	-0.25%
Gals. per KWH	5,789	5,297	-8.49%
Power $ / KWH	----	----	----
Power $ / MG	$13.97	$13.47	($0.50)
Tot. Power $/MG	----	----	----

Treatment Chem. — Lbs. Used

Total Lbs.	2019	2020	Diff.
Alum	64,868	68,177	5.10%
Carbon			#DIV/0!
Chlorine	8,111	6,269	-22.71%
KMnO4	0	0	#DIV/0!
Polymer	1,103	57	-94.87%
Liquid Phosphate	2,444	2,460	0.65%
Lb/ MG:			
Alum	170.8	196.7	15.15%
Carbon	0.0	0.0	#DIV/0!
Chlorine	21.4	18.1	-15.32%
KMnO4	0.0	0.0	#DIV/0!
Liquid Phosphate	6.4	7.1	10.28%

Cost

Total Cost	2019	2020	Diff.
Alum	$9,340.92	$9,647.05	$306.13
Carbon	$0.00	$0.00	$0.00
Chlorine	$7,332.34	$5,128.04	($2,204.30)
KMnO4	$0.00	$0.00	$0.00
Polymer	$1,710.27	$87.73	($1,622.54)
Liquid Phosphate	$3,103.75	$3,124.20	$20.45
Cost / MG:			
Alum	$24.59	$27.83	$3.23
Carbon	#DIV/0!	#DIV/0!	#DIV/0!
Chlorine	$19.31	$14.79	($4.51)
KMnO4	#DIV/0!	#DIV/0!	#DIV/0!
Liquid Phosphate	$8.17	$9.01	$0.84

Fluoride:	2019	2020	
Total Lbs.	2,096	2,055	-1.96%
mg/l applied as F	0.73	0.70	
Av. Res. Plt. Tap	0.75	0.81	

Fluoride:	2019	2020	
Cost	$1,844.59	$1,808.40	($36.19)
Cost/MG	$4.88	$5.26	$0.38

Water Quality: — **Raw**

	2019	2020
Turbidity	6.30	13.70
pH	8.02	8.26
Alkalinity	112.8	117.4
MF (E-Coli)	4.1	3.6
Temperature	34.6	36.1
Wash-H20 % /LL	1.56	1.86
Av. Flt. Run/hrs	136.6	163.1
Av. ROF / MG	1.36	1.27

TAP

	2019	2020
Turbidity	0.026	0.029
pH	7.42	7.53
Alkalinity	101.8	104.8
Plate Count	0.00	0.00
Colilert	0	0
Temp.	34.6	36.7
Cl Res.	0.81	0.81

Natural Gas:

	2019	2020	
Nat. Gas Heating	5,013	4,717	Plant & South Basin
Nat. Gas Pumping	66	60	

2019	2020	Diff.
$2,818.32	$2,378.01	($440.31)
$36.81	$29.93	($6.88)

	CCF	Cost	**Natural Gas Cost**	**Natural Gas CCF**
#3 Gas Pump	0.0	$0.00	**$2,407.94**	**4,777**
#4 Gas Pump	0.0	$0.00		
#7 Gas Pump	0.0	$0.00		
Electric Generator	60.0	$29.93		
Pumping totals	**60.0**	**$29.93**		

March 2020

% Run		4/1/2020	3/1/2020	
	Elapsed Time:			
35.9%	No. 6 Pump	57,078.7	56,811.9	266.8
2.16%	Wash Pump Meter	5,469.22	5,453.17	16.05
0.0%	No. 7 Pump	663.9	663.9	0.0
0.0%	No. 8 Pump	59,445.7	59,445.7	0.0
99.9%	No. 9 Pump	868.0	125.0	743.0
1.1%	Wash Pump 2	646	638	8
	No. 1 Prime Pump	1,022.5	1,021.6	0.9
	No. 2 Prime Pump	1,081.9	1,080.7	1.2
Kw/Hr run	**Watthour Meters:**			
130.8	Wash Pump 1	1167.1	1164.1	2,100
68.9	No. 9 Pump	4355.78	4304.59	51,189
#DIV/0!	No. 8 Pump	6795.0	6795.0	0
53.4	No. 6 Pump	7924.2	7873.3	14,252
114.8	Wash Pump 2	66.426	65.661	918
#DIV/0!	No. 1 Pump	7041.011	7041.011	0
239.4	No. 2 Pump	4139.304	4107.403	31,901
288.8	No. 3 Pump	7461.726	7313.559	148,167
#DIV/0!	No. 4 Pump			0
479.3	No. 5 Pump	6,648.230	6,537.607	110,623
	Garage (MWatt/Hrs.)	1,001.09	999.08	2,009
	Power Co. (Step #3)	26,763	26,415	417,600
	Left Meter - OUTSIDE			
	Volume Used:			
	Nat. Gas (Correct)	41,773,093	41,630,426	179,332
	Elapsed Time:			
	Emer. Generator	880.6	877.6	3.0
% Run	**Elapsed Time:**			
0.0%	No. 1 Pump	13,059.5	13,059.5	0.0
17.9%	No. 2 Pump	17,714.50	17,581.26	133.24
69.0%	No. 3 Elec. Pump	26,028.6	25,515.6	513.0
0.0%	No. 3 Nat. Gas Pump	441.8	441.8	0.0
0.0%	No. 4 Elec. Pump	0.00	0.00	0.0
0.0%	No. 4 Nat. Gas Pump	1,588.6	1,588.6	0.0
31.0%	No. 5. Pump	13,923.260	13,692.460	230.800
0.0%	UV Building Generator	71.8	71.8	0

	4/1/2020	3/1/2020	
SLUDGE No. I Hour Meter	581.6	581.6	0
SYSTEM No. 2 Mag Meter	6,573,080	6,301,529	271,551
Recycle Meter (Reset to zero each month)			271,551

Power Cost	$0.0713382	Bill >>>>	$30,903.71	
	0.439	KWH >>>	433,200	
Init. Chg.	$29,790.83		Low L. KWH	65,441
	$	KWH	L.L. Cost $	$4,668.44
Kohler Pit			High L. KWH	290,691
Horizon	$400.66	3,180	H.L. Cost $	$20,737.37
Taylor	$307.11	2,515		
ALT. 72 Park	$439.00	1,000	Total Cost	$25,405.82
Geo. Ave.	$4,840.49	55,500		
Wilgus Ave.	$414.83	3,400		
EE Pit	$640.71	5,504		
EE Tower	$252.59	2,037	Plant Costs	$4,674.21
Washington	$168.83	1,234		
Office	$754.50	6,451		
Erie Ave.	$2,110.85	15,200		
Total	$40,120.40	513,621		

SUMMARY

	HIGH LIFT		LOW LIFT	
	2019	2020	2019	2020
Tot. Pump	378.811	344.545	379.794	346.655
Daily Ave.	12.220	11.114	12.251	11.182
Max. Day	13.661	13.092	13.793	13.319
Min. Day	10.098	8.855	10.260	9.310
By Nat. Gas	0.000	0.000	0.000	0.000
Power KWH	291,002	290,691	65,608	65,441
Gals/KWH	1302	1185	5789	5297
Cost/KWH	$0.08085	$0.07134	*******	******
Cost/MG	$62.11	$60.19	$13.97	$13.47
Tot. Cost/MG	$114.84	$116.44	*******	*******

HIGH LIFT DELIVERY QUARTERLY REPORT 2020

I. FIRST QUARTER	Jan - Feb - Mar			
		GALLONS	COST $	$/MG
	2019	1,111,503,000	$217,156.22	$195.37
	2020	1,061,714,000	$197,921.94	$186.42
	Percent Difference	-4.48%	-8.86%	-4.58%

II. SECOND QUARTER	Apr - May - Jun			
		GALLONS	COST $	$/MG
	2019	1,132,902,000	$192,754.83	$170.14
	2020	0	$0.00	#DIV/0!
	Percent Difference	-100.00%	-100.00%	#DIV/0!

III. THIRD QUARTER	Jul - Aug - Sep			
		GALLONS	COST $	$/MG
	2019	1,240,316,000	$202,724.19	$163.45
	2020	0	$0.00	#DIV/0!
	Percent Difference	-100.00%	-100.00%	#DIV/0!

IV. FOURTH QUARTER	Oct - Nov - Dec			
		GALLONS	COST $	$/MG
	2019	1,040,997,000	$204,391.07	$196.34
	2020	0	$0.00	#DIV/0!
	Percent Difference	-100.00%	-100.00%	#DIV/0!

YEAR TO DATE : 2020				
		GALLONS	**COST $**	**$/MG**
	2019	**4,525,718,000**	**$817,026.31**	**$180.53**
ELECTRICITY **CHEMICALS** **NATURAL GAS**	**2020**	**1,061,714,000**	**$197,921.94**	**$186.42**
	Percent Difference	**-76.54%**	**-75.78%**	**3.26%**

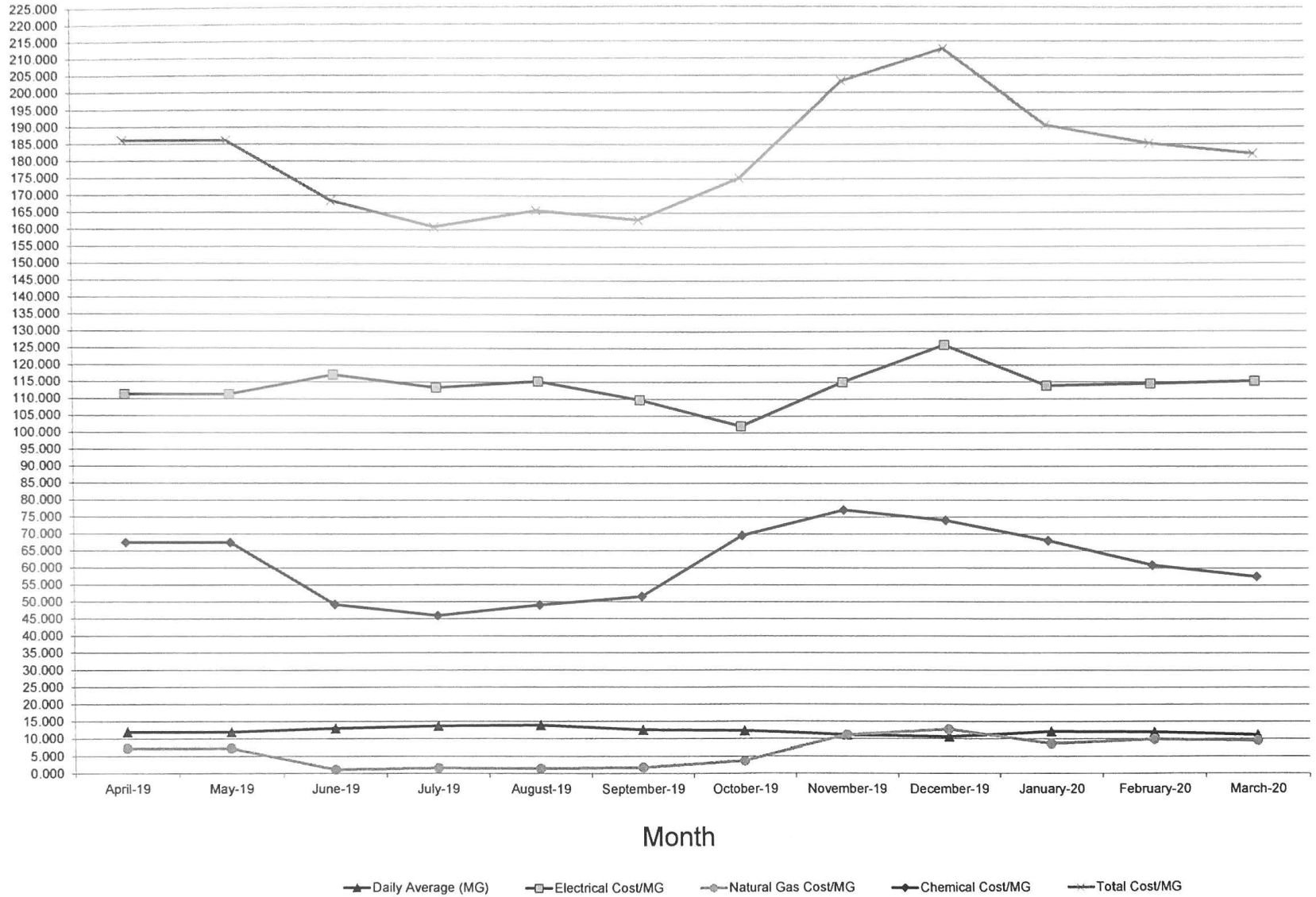
YEAR TO DATE : 2020			
		GALLONS	**COST $**
	2019	**5,430,249**	**$38,471.09**
SLUDGE DISPOSAL	**2020**	**1,102,050**	**$4,097.81**
	Percent Difference	**-79.71%**	**-89.35%**
STORM WATER CHARGES	**2020**	**NA**	**$0.00**

HIGH LIFT SYSTEM DELIVERY :			
	Maximum Pumpage Day	14,289,000	January 17, 2020
	Minimum Pumpage Day	8,396,000	January 1, 2020

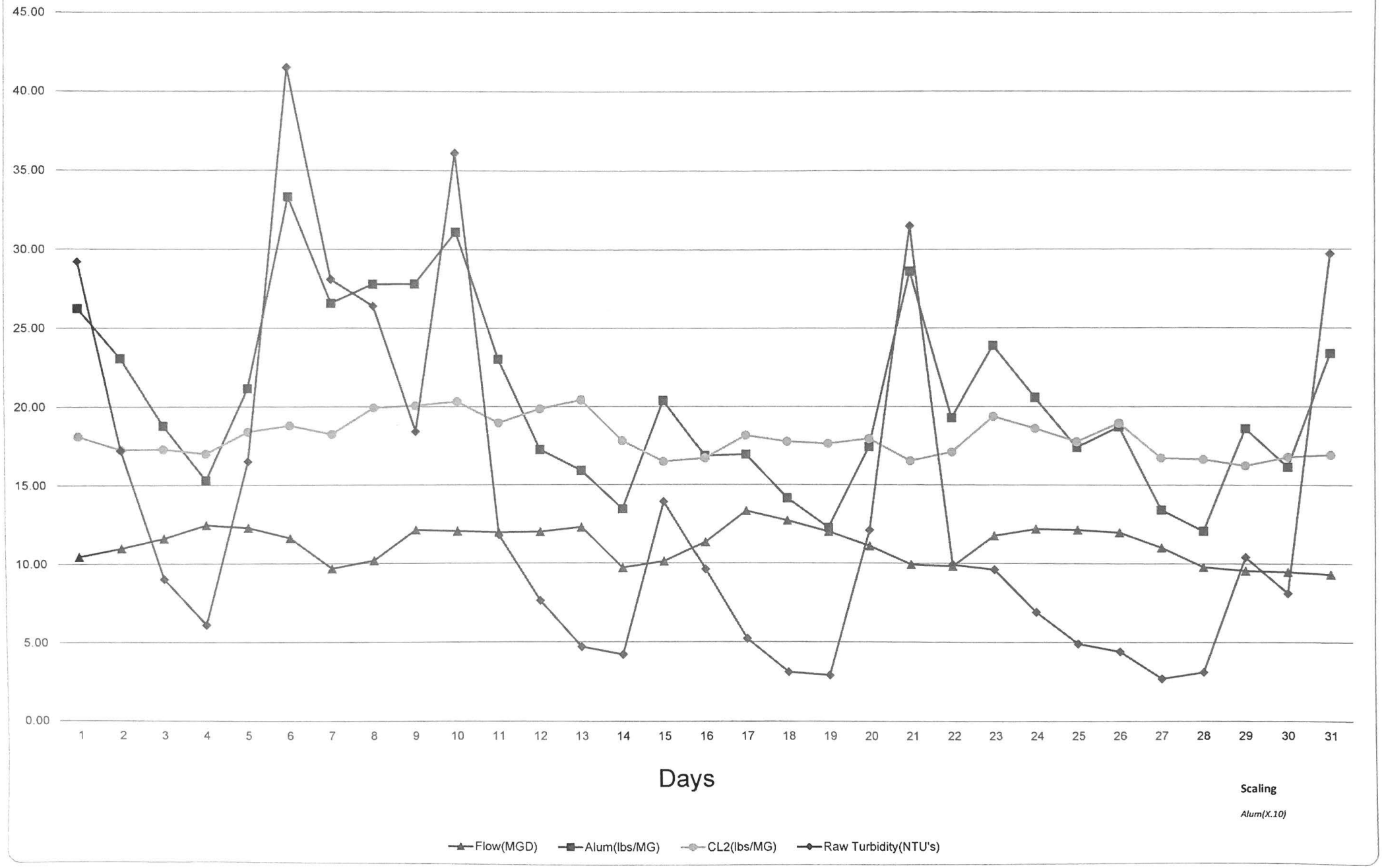
	MG	$	$/MG
2019	4,525,718,000	$817,026.31	$180.53
2020	1,061,714,000	$197,921.94	$186.42

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



March 2020: Sheboygan Water Utility Plant Operations Summary



Filter Plant Maintenance Completed For March 2020

Yellow indicates days operating or running labs

Subject	StartDate	EndDate	Description
Monday Meeting	2-Mar-20		Topics include tour, vacuum pump status, Ene generator, etc.
Priming System Repair	2-Mar-20		Replace broken gate valve, remove/inspect syphon valve, remove ortho from lines, tighten pump 2 packing, etc.
Priming System Hose	2-Mar-20		Install new priming system hose.
High Lift Service	2-Mar-20		Check oil levels, grease pumps, check sumps, check louvers, etc.
Low Lift Service	2-Mar-20		Grease bearings, operate louvers, check manual prime system, etc.
CLCJAWA treatment plan in Lake Bluff, IL	3-Mar-20		March 3rd (Tuesday): Andy, Josh, Dan and myself will be traveling to CLCJAWA treatment plan in Lake Bluff, IL
Recirculation Line	4-Mar-20		Find valve, deice gate, work with crew to steam wash valve access tube, operate valve; used for winter operations.
Fluoride Pump Roller	4-Mar-20		Disassemble and lubricate fluoride feed pump roller.
UV Reference Check	4-Mar-20		Perform UV reference sensor check and recalibrate UVT%.
Outfall	4-Mar-20		Actuate outfall to 50%
Paint Priming System	4-Mar-20		Paint priming system repair areas.
High Lift Service	4-Mar-20		Fill batteries, check coolant, check oil, etc.
Trillings	4-Mar-20		Pickup etching primer
Pipe Gallery	4-Mar-20		Install threaded rod and 4" clamps for filter tables.
Garbage	5-Mar-20		Removed garbage filter plant
L.E.D lights filter hall	5-Mar-20		New L.E.D lights installed in sample sink area by filter hall
Rail painting	5-Mar-20		Touch up paint on filter hall rails
Horizon HYPO fabrication	5-Mar-20		Fabrication of Horizon tank back-up HYPO feed system
Horizon	5-Mar-20		Horizon tank for SWAN analyzer adjustment
Honold	5-Mar-20		Honold for filter plant maintenance items
Paint control box	6-Mar-20		Painted control box
Sampling customer service	6-Mar-20		Water complaint sample
Horizon HYPO fabrication	6-Mar-20		Horizon tank HYPO back-up system fabrication
Ene Ave.	9-Mar-20		Check reagents and research gas engine records
Honold	9-Mar-20		Pickup hypo parts and order more 1/2 " barbs.
Horizon Hypo Fabrication	9-Mar-20		Finish plumbing for hypo feed system
Monday Meeting	9-Mar-20		Topics include raw water improvement, coverage, winter ops, and coverage.
Rapid Mix Light	9-Mar-20		Replace failing rapid mix light bulb.
Valve Position Indicator	9-Mar-20		Re-assemble valve position indicator (used on filter to waste valves).
West Reagents	10-Mar-20		Re-fill west hypo meter reagents and clean both east and west meters.
Ene Generator Manual	10-Mar-20		Locate and order Cummins O&M manual for generator (G 28).
West Sample Pump Shelf	10-Mar-20		Fabricate west sample pump shelf out of aluminum and steel.
S.I. Metals and Motion	10-Mar-20		Purchase aluminum diamond plate at S.I.. Inquire about water pump and indicator assembly at motion.
Menards	10-Mar-20		Pickup hose, cleaning supplies, tap cons, and misc.
South Basin Hose Bracket	10-Mar-20		Fabricate aluminum south basin rinse hose bracket.
South Basin Hose	10-Mar-20		Replace south basin rinse hose and bracket assembly.
West Sample Pump Shelf	11-Mar-20		Finish fabricating, and prime west sample pump shelf.
JSM Security	11-Mar-20		Contact and assist JSM in diagnosing downstairs camera system error; reset user i.d. and password because we lost our i.p. address
Tap Temperature Issue	11-Mar-20		Diagnose tap temperature issue. Found loose wires at UV hypo/temp meter, snugged, okay at this time, temp went from 42.1 F (High compared to raw at 36.3 F) to 36.7 F (Normal).
South Hypo Meters and Hall Floor	11-Mar-20		South hypo meter floor (CLR) and lower hall floor.
Bathrooms	11-Mar-20		Clean lower and south basin bathrooms
Meter Shop Sink Area	11-Mar-20		Mop meter shop sink area and bathroom.
Filter plant cleaning	12-Mar-20		Cleaned filter plant common areas
Fabricated pump shelf	12-Mar-20		Painting new pump shelf
Heater HYPO bulk room	12-Mar-20		Assessed heater fan problems in HYPO bulk tank room, ordered new motor.
West ortho tube	12-Mar-20		Replaced west ortho pump tube
Ene reservoir shelf	13-Mar-20		Built new closet/shelf for Ene reservoir
Horizon tower shelf	13-Mar-20		Built new closet/shelf for horizon tower
Menards	13-Mar-20		Menards parts run for filter plant maintenance items
Flipse order	13-Mar-20		Picked up flipse order
New Lab Fridge	16-Mar-20		Receive new lab fridge.
EE Cabinet	16-Mar-20		Clean out existing rubber made cabinet and prepare for install at EE tower
Scaffold Brackets	16-Mar-20		Fabricate scaffold brackets out of aluminum.
Filter Plant	16-Mar-20		Deep clean filter plant with anti-bacterial products.
Install Scaffold Brackets	17-Mar-20		Install new scaffold brackets above old rapid mix.
Filter 1	17-Mar-20		Add anthracite to filter 1.
Clean Filter Hall and Ops areas	17-Mar-20		Clean filter hall floor, operations lunch room, lab, and operations office.

Filter 2	18-Mar-20		Add anthracite and wash
Floor Scrubber	18-Mar-20		Disassemble and clean floor scrubber vacuum section.
Filter Plant	18-Mar-20		Clean and disinfect filter plant.
Joshua Operating 1st Shift	19-Mar-20	19-Mar-20	Joshua operating 1st shift
Reagents in lab	19-Mar-20		Refilled reagents in lab CL2 swan unit and Phosphorus swan unit
Filter 2 filter to waste valve	19-Mar-20		Worked on filter to waste valve on filter 2, got valve to open and close
Filter 2 cleaning	19-Mar-20		Washed filter 2 several times and ran through filter to waste until turbidity was good, filter 2 back in service
Flipse and northwoods	19-Mar-20		Placed orders with flipse and Northwoods chemical for future cleaning supply orders
Stocked supplies from flipse	19-Mar-20		Stocked supplies from Flipse order
Lab operations	20-Mar-20		Covered lab operations
Covid Leave	23-Mar-20		Communicate from home, told by management to stay home safe until further notice.
Covid Leave	24-Mar-20		Told by management to stay home safe until further notice.
Conference Call	25-Mar-20		Attend 9:30 conference call
Video Conference	25-Mar-20		Setup video conference software and read through raw water improvement information.
Dan covering 1st shift	26-Mar-20	26-Mar-20	Dan covering 1st shift operations for Mark
UV Reference Sensor Check	26-Mar-20		Perform UV reference sensor check and UVT% cal.
Every Reservoir	27-Mar-20		Inspect, refill, etc. every reservoir.
Erie Ave.	30-Mar-20		Repair leak in water heater feed line.
Erie Ave.	30-Mar-20		Pick up grounds, move storage cabinet, turn on water heater and cycle.
Erie Ave. Maintenance	30-Mar-20		Work and parts list.
Menards	30-Mar-20		Picked up ¾" pipe, wire brush, tap cons, hose holder, grinder, paint, painters tap, tool set, pipe insulation, ladder brackets, broom, etc.
Menards	30-Mar-20		Pickup paint for pump, rust convertor, brushes, masking tape, etc.
Georgia Ave.	30-Mar-20		Brought equipment to Georgia pump station to begin work on pumps and motors
Grind and Prime	31-Mar-20		Grind and prime pump 1 stand feet.
Erie Ave.	31-Mar-20		Begin re-routing meter drain system.
Georgia Ave.	31-Mar-20		Grind pump 4 and 5 cases, clean pump station area

MONTHLY CONSTRUCTION-MAINTENANCE DEPARTMENT REPORT

April 2020

Distribution System Maintenance:

- Started Niagara Avenue and North Commerce water main job.
- Pressure and bacteriological tests conducted on installed water main.
- Performed routine checks and maintenance on normal/boosted zone vaults.
- Performed routine checks and maintenance on pressure reducing valve vaults.
- Start leak surveying with new Electronic leak locator.
- Hauled in fill to replenish stock.
- Routine Valve turning.

Water Quality:

- Installed and calibrated distribution system auto-flushers.
- Completed seasonal water quality flushing.

Taps:

- 1” tap at 1536 Alexander Ct. Lead service was removed from the system.
- 1” tap at 816 High Ave. Lead service was removed from the system.
- 1” tap at 407 Euclid Ave. Lead service was removed from the system.
- 6” tap for fire and domestic at 750 South Pier Drive.

Building/Grounds Maintenance:

- Cleaned Paine Avenue site and moved pipe to Taylor Hill site.
- Dead tree removal at Taylor Hill site.
- Fixed hinges on overhead doors in the C/M garage.
- General shop maintenance and cleaning.

Equipment Maintenance:

- New F-350 exterior lighting was installed.
- Performed routine maintenance and repairs on construction equipment and vehicle fleet.

Training:

- Dave McMillan, Dave Boenisch, and Thomas Treacy attended a Public Works Spring Safety Webinar remotely.

Distribution System -- April 2020

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

Location	Date Installed	Size ("), Jt	Installed By	Type
Niagara and N. 14th St (E)	4/7/2020	12" MJ	ute.	G (vert)
Niagara ~70' W of N. 14th St	4/8/2020	6" MJ	ute.	G (vert)
Niagara Ave and Commerce (N)	4/9/2020	6" MJ	ute.	G (vert)
Niagara Ave and Commerce (S)	4/13/2020	12" MJ	ute.	G (vert)

Total Valves Installed = 4

Street Valves and Hydrant Valves Removed

Location	Installed	Abandoned	Type
Niagara Ave. ~48' W. of c.l. N. 14th St. (W)	10/13/1999	4/7/2020	B/F-N

Total Valves Removed = 1

Street Valves and Hydrant Valves Abandoned

Location	Installed	Abandoned

Total Valves Abandoned = 0

Hydrants Installed (including water main projects and others)

Location	Installed	Tr Size	Valve	Contractor
Niagara Ave and N. 14th St (E)	4/8/2020		y	ute.
Niagara Ave and Commerce (N)	4/9/2020		y	ute.

Total Hydrants Installed = 2

Hydrants Removed (including water main projects and others)

Location	Installed	Removed	Hyd Valve?

Total Hydrants Removed = 0

Hydrants Abandoned (including water main projects and others)

Location	Installed	Abandoned	Tr Size

Total Hydrants Abandoned = 0

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

Location	Installed	Maintained

Total Hydrants Maintained/Moved = 0

Water Main Breaks

Location	Date	Size

Total Water Main Breaks = 0

SUMMARY

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	24.0
Number of feet of 8 inch water main installed	0.0
Number of feet of 12 inch water main installed	313.0
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	337
Number of water main breaks repaired	0
Number of hydrants installed	2
Number of hydrants removed or abandoned	0
Number of hydrants maintained or moved	0
Number of street or hydrant valves installed	4
Number of street or hydrant valves removed or abandoned	1
Number of valves maintained	8
Number of water connections installed	4

April 2020

OPERATIONS' DEPARTMENT MONTHLY REPORT

	HIGH LIFT		LOW LIFT		2020 VS 2019
PUMPAGE	**2019**	**2020**	**2019**	**2020**	HL
Total in MG	359.458	243.322	361.932	245.025	-32.31%
Daily Average (MG)	11.982	8.132	12.064	8.168	
Max. Day (MG)	13.655	9.466	14.076	9.449	2020 VS 2018
					HL
Gal/KwH	1,190	1,213	5,178	5,827	-33.38%

ELECTRICAL COSTS					
	2019		**2020**		
A. Pumping:	**KwH**	**$**	**KwH**	**$**	
High Lift	298,575	$21,605.59	201,072	$16,085.34	
Low Lift	69,331	$5,016.95	42,047	$3,363.67	
Wash Pump 1	2,100	$151.96	2,100	$168.00	
Georgia St. Bstr.	50,000	$4,338.61	20,700	$2,825.74	
Wilgus Ave. Bstr.	3,200	$401.03	3,200	$390.83	
EE Pit / Bstr.	3,718	$451.80	6,778	$781.78	
Erie Ave. Bstr.	14,000	$2,015.75	15,200	$2,110.85	$/KwH
Sub Total	440,924	**$33,981.69**	291,097	**$25,726.21**	14.7%
B. Treat./Fiscal/Misc.	**KwH**	**$**	**KwH**	**$**	
Office & Maint. Bldg.	5,373	$649.19	6,140	$719.80	
Filter Plant / Pump Station / 2nd Service	55,994	$4,615.79	52,181	$4,783.73	
					$/KwH
Sub Total	61,367	**$5,264.98**	58,321	**$5,503.53**	10.0%
C. Distribution:	**KwH**	**$**	**KwH**	**$**	
Taylor Hill Tank	2,957	$364.33	2,010	$248.33	
Kohler Meter Pit	0	$0.00	0	$0.00	
EE Tower	743	$105.81	1,705	$213.27	
Washington (PRV) Pit	2,335	$308.73	827	$118.34	
Sub Total	6,035	**$778.87**	4,542	**$579.94**	$/KwH
Total Electrical Costs	**508,326**	**$40,025.54**	**353,960**	**$31,809.68**	14.1%
Electrical Cost / MG		$111.35		$130.39	

	2019		**2020**		
NATURAL GAS COSTS	CCF Used	Cost	CCF Used	Cost	
Production Facility	1,406	$693.36	1,926	$878.31	
South Basin	2,357	$1,210.47	2,329	$1,125.47	
Georgia St. Bstr.	180	$99.97			
Erie Ave. Bstr.	395	$239.10			
Wilgus Ave. Bstr.	43	$37.42			
Office & Maint. Bldg.	654	$338.38	918	$434.95	$/CCF
Total Natural Gas Costs	5,035	**$2,618.70**	5,173	**$2,438.73**	-9.4%
Natural Gas Cost / MG		$7.29		$10.00	

	2019		**2020**		
CHEMICAL COSTS	Lbs. Used	Cost	Lbs. Used	Cost	
Alum	73,746	$10,619.42	36,209	$5,123.57	-1.7%
Carbon	0	$0.00	0	$0.00	#DIV/0!
Chlorine	7,096	$6,414.78	5,061	$4,139.90	-9.5%
Fluoride	2,027	$1,783.76	1,375	$1,210.00	0.0%
KMnO4	106	$386.90	0	$0.00	#DIV/0!
Cationic Polymer	1,412	$2,188.29	1,732	$2,685.22	0.0%
Liquid Phosphate	2,268	$2,880.36	1,689	$2,145.03	0.0%
Total Chemical Costs		**$24,273.51**		**$15,303.72**	-37.0%
Chemical Cost / MG		$67.53		$62.73	

Grand Total	**$66,917.75**	**$49,552.13**	-25.95%
Total Cost / MG	**$186.16**	**$203.12**	9.11%

YTD HL 2020 vs 2019	-11.28%	YTD HL HIGH DAY PUMPAGE	14.289	January 17, 2020
YTD HL 2020 vs 2018	-11.64%	YTD HL LOW DAY PUMPAGE	8.396	January 1, 2020

NOTE:
Pumpage is down ~32.31%.

	YTD HL Ave Day
2020	10.795
2019	12.284
2018	12.256

COMPARATIVE SUMMARY OF PLANT OPERATIONS

April 2019 vs **April 2020**

Pumping Record — **High Lift**

	2019	2020	Diff.
Tot. Water in MG	359.458	243.322	-32.31%
Daily Average	11.982	8.132	-32.13%
Maximum Day	13.655	9.466	-30.68%
Minimum Day	9.274	6.542	-29.46%
By Natural Gas	4.279	0.000	-100.00%
Power in KWH	298,575	201,072	-32.66%
Gals. per KWH	1,190	1,213	1.96%
Power $ / KWH	$0.07236	$0.08000	10.56%
Power $ / MG	$60.11	$65.94	$5.83
Tot. Power $/MG	$112.28	$132.75	$20.47

Low Lift

	2019	2020	Diff.
Tot. Water in MG	361.932	245.025	-32.30%
Daily Average	12.064	8.168	-32.29%
Maximum Day	14.076	9.449	-32.87%
Minimum Day	9.496	6.446	-32.12%
By Natural Gas	2.908	0.000	-100.00%
Power in KWH	69,331	42,047	-39.35%
Gals. per KWH	5,178	5,827	12.53%
Power $ / KWH	----	----	----
Power $ / MG	$13.86	$13.73	($0.13)
Tot. Power $/MG	----	----	----

Treatment Chem. — Lbs. Used

Total Lbs.	2019	2020	Diff.
Alum	73,746	36,209	-50.90%
Carbon			#DIV/0!
Chlorine	7,096	5,061	-28.68%
KMnO4	106	0	-100.00%
Polymer	1,412	1,732	22.69%
Liquid Phosphate	2,268	1,689	-25.53%
Lb/ MG:			
Alum	203.8	147.8	-27.47%
Carbon	0.0	0.0	#DIV/0!
Chlorine	19.6	20.7	5.35%
KMnO4	0.3	0.0	-100.00%
Liquid Phosphate	6.3	6.9	10.00%

Cost

Total Cost	2019	2020	Diff.
Alum	$10,619.42	$5,123.57	($5,495.85)
Carbon	$0.00	$0.00	$0.00
Chlorine	$6,414.78	$4,139.90	($2,274.88)
KMnO4	$386.90	$0.00	($386.90)
Polymer	$2,188.29	$2,685.22	$496.93
Liquid Phosphate	$2,880.36	$2,145.03	($735.33)
Cost / MG:			
Alum	$29.34	$20.91	($8.43)
Carbon	#DIV/0!	#DIV/0!	#DIV/0!
Chlorine	$17.72	$16.90	($0.83)
KMnO4	$1.07	#DIV/0!	#DIV/0!
Liquid Phosphate	$7.96	$8.75	$0.80

Fluoride:	2019	2020	
Total Lbs.	2,027	1,375	-32.17%
mg/l applied as F	0.73	0.70	
Av. Res. Plt. Tap	0.79	0.64	

Fluoride:	2019	2020	
Cost	$1,783.76	$1,210.00	($573.76)
Cost/MG	$4.97	$4.97	$0.00

Water Quality: — **Raw**

	2019	2020
Turbidity	9.50	6.20
pH	8.14	8.38
Alkalinity	115.3	119.0
MF (E-Coli)	0.5	0.0
Temperature	39.9	41.2
Wash-H20 % /LL	1.82	2.33
Av. Flt. Run/hrs	135.7	152.7
Av. ROF / MG	1.38	1.21

TAP

	2019	2020
Turbidity	0.032	0.035
pH	7.44	7.70
Alkalinity	102.8	110.0
Plate Count	0.00	0.00
Colilert	0	0
Temp.	40.3	42.4
Cl Res.	0.78	0.84

Natural Gas:

	2019	2020	
Nat. Gas Heating	3,189	3,506	Plant & South Basin
Nat. Gas Pumping	574	749	

2019	2020	Diff.
$1,620.57	$1,662.22	$41.64
$283.26	$341.57	$58.31

	CCF	Cost	**Natural Gas Cost**	**Natural Gas CCF**
#3 Gas Pump	139.5	$63.62	**$2,003.78**	**4,255**
#4 Gas Pump	405.0	$184.69		
#7 Gas Pump	42.5	$19.38		
Electric Generator	162.0	$73.88		
Pumping totals	**749.0**	**$341.57**		

April 2020

% Run		5/1/2020	4/1/2020	
	Elapsed Time:			
0.0%	No. 6 Pump	57,078.8	57,078.7	0.1
1.98%	Wash Pump Meter	5,483.51	5,469.22	14.29
0.2%	No. 7 Pump	665.6	663.9	1.7
0.0%	No. 8 Pump	59,445.7	59,445.7	0.0
99.7%	No. 9 Pump	1,586.0	868.0	718.0
0.6%	Wash Pump 2	650	646	4
	No. 1 Prime Pump	1,023.0	1,022.5	0.5
	No. 2 Prime Pump	1,082.8	1,081.9	0.9
Kw/Hr run	**Watthour Meters:**			
147.0	Wash Pump 1	1170.1	1167.1	2,100
58.6	No. 9 Pump	4397.83	4355.78	42,047
#DIV/0!	No. 8 Pump	6795.0	6795.0	0
0.0	No. 6 Pump	7924.2	7924.2	0
124.2	Wash Pump 2	66.84	66.426	497
#DIV/0!	No. 1 Pump	7041.011	7041.011	0
236.9	No. 2 Pump	4219.045	4139.304	79,741
295.5	No. 3 Pump	7583.057	7461.726	121,331
#DIV/0!	No. 4 Pump			0
#DIV/0!	No. 5 Pump	6,648.230	6,648.230	0
	Garage (MWatt/Hrs.)	1,003.42	1,001.09	2,330
	Power Co. (Step #3) Left Meter - OUTSIDE	27,012	26,763	298,800
	Volume Used:			
	Nat. Gas (Correct)	41,919,218	41,773,093	183,679
	Elapsed Time:			
	Emer. Generator	888.7	880.6	8.1
% Run	**Elapsed Time:**			
0.0%	No. 1 Pump	13,059.5	13,059.5	0.0
46.8%	No. 2 Pump	18,051.12	17,714.50	336.62
57.0%	No. 3 Elec. Pump	26,439.2	26,028.6	410.6
0.6%	No. 3 Nat. Gas Pump	446.3	441.8	4.5
0.0%	No. 4 Elec. Pump	0.00	0.00	0.0
1.3%	No. 4 Nat. Gas Pump	1,597.6	1,588.6	9.0
0.0%	No. 5. Pump	13,923.260	13,923.260	0.000
0.7%	UV Building Generator	76.6	71.8	4.8

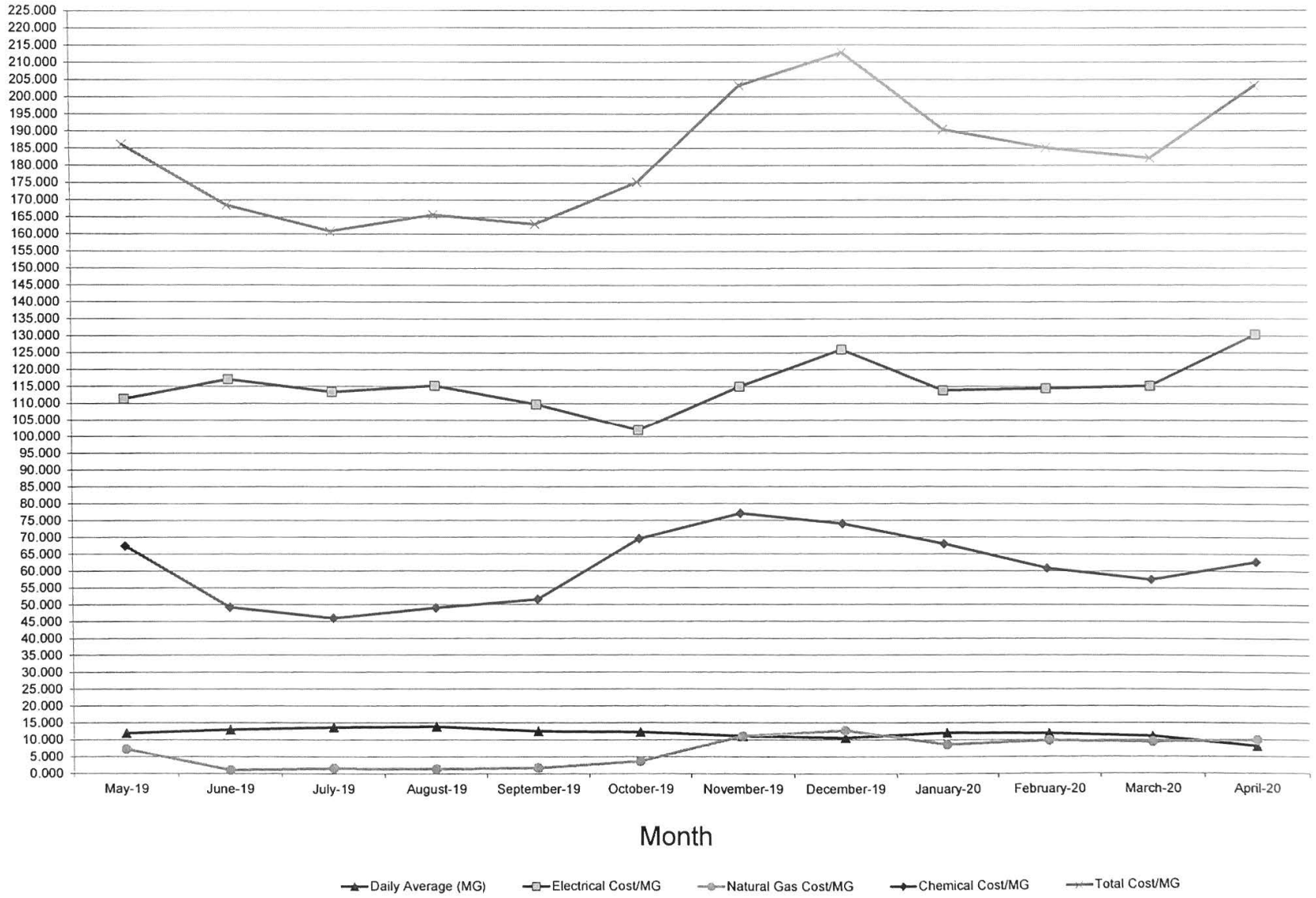
	5/1/2020	4/1/2020	
SLUDGE No. I Hour Meter	610.1	610.1	0
SYSTEM No. 2 Mag Meter	7,114,499	6,573,080	541,419
Recycle Meter (Reset to zero each month)			541,419

Power Cost	$0.0799979	Bill >>>>	$23,807.38	
	0.355257143	KWH >>>	297,600	
Init. Chg.	$23,903.38		Low L. KWH	42,047
	$	KWH	L.L. Cost $	$3,363.67
Kohler Pit			High L. KWH	201,072
Horizon	$576.15	1,289	H.L. Cost $	$16,085.34
Taylor	$248.33	2,010		
ALT. 72 Park	$497.36	1,400	Total Cost	$19,449.01
Geo. Ave.	$2,825.74	20,700		
Wilgus Ave.	$390.83	3,200		
EE Pit	$781.78	6,778		
EE Tower	$213.27	1,705	Plant Costs	$4,783.73
Washington	$118.34	827		
Office	$719.80	6,140		
Erie Ave.	$2,110.85	15,200		
Total	$32,385.83	358,049		

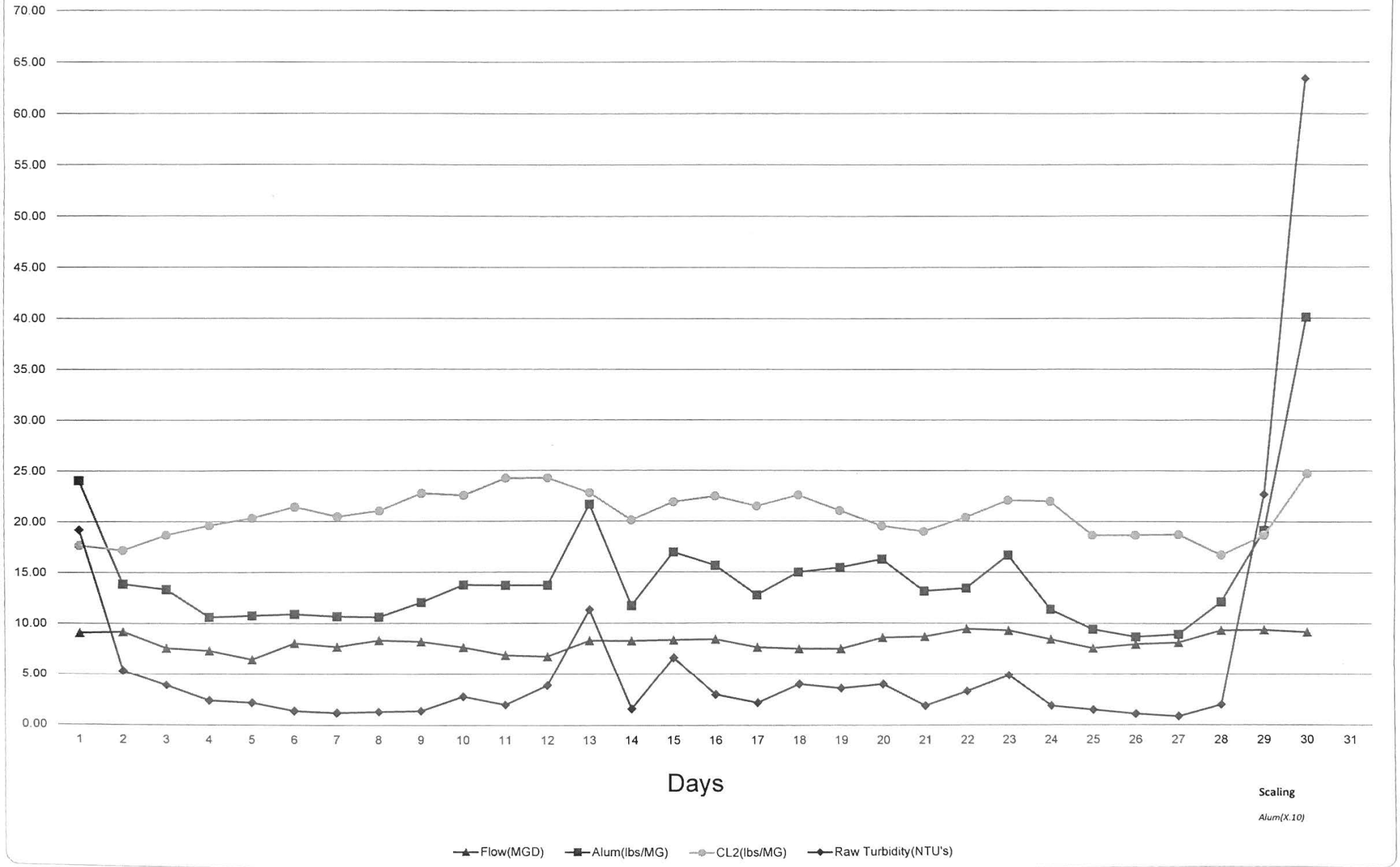
SUMMARY

	HIGH LIFT		LOW LIFT	
	2019	2020	2019	2020
Tot. Pump	359.458	243.954	361.932	245.025
Daily Ave.	11.982	8.132	12.064	8.168
Max. Day	13.655	9.466	14.076	9.449
Min. Day	9.274	6.542	9.496	6.446
By Nat. Gas	4.279	0.000	2.908	0.000
Power KWH	298,575	201,072	69,331	42,047
Gals/KWH	1190	1213	5178	5827
Cost/KWH	$0.07236	$0.08000	*******	******
Cost/MG	$60.11	$65.94	$13.86	$13.73
Tot. Cost/MG	$112.28	$132.75	*******	*******

Plant Operations: Expense Report



April 2020: Sheboygan Water Utility Plant Operations Summary



Filter Plant Maintenance Completed For April 2020

	Yellow indicates days operating or running labs

Subject	StartDate	EndDate	Description
Erie Ave.	1-Apr-20		Grind and prime pump stands for 2 and 3.
Erie Ave.	1-Apr-20		Cleaned pumps and motors.
Erie Ave.	1-Apr-20		Check over and run generator (under load).
Erie Ave.	1-Apr-20		Finish installing meter drain plumbing, install two brackets, and begin insulating.
Erie Ave.	1-Apr-20		Remove old flow meter and brackets.
Erie Ave.	1-Apr-20		Pick up outside trash, sweep floor, wash tables and chairs.
Georgia pump station	1-Apr-20		Continued with grinding and cleaning pumps, pump bases and cleaned motors
Raw Water Improvement	2-Apr-20		Participate in raw water improvement meeting; discussed building layout, intake, and old/new intake connections for backups.
Erie Ave.	3-Apr-20		Tape and prime drain covers.
Erie Ave.	3-Apr-20		Swept control room, vacuumed switch gear filters, and vacuumed rugs.
Erie Ave.	3-Apr-20		Ground floor drain covers, swept floor, vacuumed, and scrubbed floor.
Georgia pump station	3-Apr-20		Cleaning pump station area, applied rust preventor to pumps and pump bases
Erie Ave.	6-Apr-20		Moved wall brackets and installed new ladder hanger.
Morning Conference Call	6-Apr-20		Morning conference call
Menards	6-Apr-20		Pickup ladder, paint, and misc.
Erie Ave. Maintenance	6-Apr-20		Create work and parts list.
Georgia pump station	6-Apr-20		Taping and cleaning pumps and motors preparing for painting
Horizon Ave.	7-Apr-20		Sweep floor and calibrate hypo meter.,
Swan Temp Sensor	7-Apr-20		Contact vendor concerning SWAN temp sensor; used for filter plant tap temperature reading.
Erie Ave.	7-Apr-20		Pick up grounds, clean gutters, and remove yard waste.
Erie Ave.	7-Apr-20		Paint floor grates, pipe stands, and sweep.
Georgia pump station	7-Apr-20		1st application of paint to pumps 4 & 5
Raw Water Improvement Meeting	8-Apr-20		Raw water improvement meeting; topics include generator, suction well, pumps, etc.
Wilgus Ave.	9-Apr-20		Begin installing new 1" pipe insulation.
Wilgus Ave.	9-Apr-20		Begin removing old pipe insulation, sweep area, and remove debris.
Tap Temperature Sensor	9-Apr-20		Install new tap temperature sensor.
Emails	9-Apr-20		Catch up on book work and emails.
Georgia pump station	9-Apr-20		2 application of paint to pumps and pump bases 4&5
Good Friday Holiday	10-Apr-20		Holiday
Wilgus Ave.	13-Apr-20		Install pipe insulation.
Email	13-Apr-20		Contact Maggie, Todd, etc.
Georgia pump station	13-Apr-20		Prepped and cleaned 3&6 pumps and bump bases
Erie Ave.	14-Apr-20		Continue grinding and painting pipe stands, clean floor, and walk grounds.
Taylor Ave.	14-Apr-20		Check pit, sweep floors, install dehumidifier, replace reagents, etc.
Georgia pump station	14-Apr-20		Applied rust preventer to pumps 3&6
Raw Water Improvement Meeting	15-Apr-20		Raw water team meeting, discussed pump options, bathroom layout, generator options, physical location, etc.
Wilgus Ave.	16-Apr-20		Ground and painted pipe stand by 4.
Erie Ave.	16-Apr-20		Swept, cleaned, ground, painted, and installed side markers on a trailer.
Georgia pump station	16-Apr-20		Painting pumps 3&6
Raw Water Pump	17-Apr-20		Repair raw water sample pump leak.
UV Paperwork	17-Apr-20		Fill and save UV reference check reads.
PO For Parts	17-Apr-20		Create POs for new generator water pump and SWAN reagents.
UV Reference Check	17-Apr-20		Perform UV reference sensor check and calibrate UVT%.

South Basin Effluent Pump	20-Apr-20		Remove south basin effluent pump and inspect inop; found seized bearings.
South Basin	20-Apr-20		Decant, rinse, and switch over south basin area.
Prep. South Basin	20-Apr-20		Prepare South basin area for sludge removal.
UV Room	20-Apr-20		Swept, scrubbed, and washed floor.
UV Injector	20-Apr-20		Pulled UV hypo injector, checked for debris (okay at this time), re-installed, and checked for proper operation.
South Basin Hypo Injector	20-Apr-20		Pulled south basin hypo injector, cleaned fiber glass from tube, and re-installed.
South Basin Sludge	21-Apr-20		Enter south basin and rinse sludge into pit.
South Basin	21-Apr-20		Decant and rinse south basin.
South Basin Inspection	22-Apr-20		Enter south basin, check bearings, inspect bolts, and grease applicable fittings.
Sodium Thiosulfate	22-Apr-20		Replace sodium thiosulfate barrel.
South Basin	23-Apr-20		Re-check south basin decant valves and chemical feed lines; south basin auger valve was leaking.
Georgia Ave.	23-Apr-20		Clean pump 3, begin installing Rubatex, and begin installing pump 4 drains.
Erie Ave.	23-Apr-20		Replace reagents, check ntu meter, run generator, check levels, sweep, and cleanup paint masking.
Taylor Hill	23-Apr-20		Sweep area, check reagents, and walk grounds.
South Basin Hypo Feed	23-Apr-20		Replace hypo feed connections and shutoff valve in pipe gallery; old ones cracked and leaking.
Filter Plant Garbage	24-Apr-20		Empty filter hall garbage and dispose of new lab refrigerator trash.
West Basin	24-Apr-20		Install outside signage, close decants, organize hall tools, and check south basin valves.
West Basin	24-Apr-20		Begin basin decant, turn off chemicals, close hall valves, place plant in remote, and open sluice gate.
Georgia Ave.	24-Apr-20		Install more Rubatex on 3, re-tap pump 4 drain hole, check reagents, check doghouse, and clean.
Horizon	27-Apr-20		Pickup chop saw, 3 large boards, and clean floor.
Trillings	27-Apr-20		Covid masks and misc .
Bulk Hypo Heater	27-Apr-20		Install a new blower motor on bulk hypo storage room heater.
Georgia Ave.	27-Apr-20		Continue Rubatex installation, clean, etc.
Monday Meeting	27-Apr-20		Covid update, west basin, south basin wrap up, etc.
West Basin	27-Apr-20		Decant west basin, hook up FSO, and re-cover ports.
West Basin	28-Apr-20		Inspect north and central areas; found upper anchor pins and wall in need of repair.
Georgia Ave.	28-Apr-20		Continue installing Rubatex insulation.
West Basin	28-Apr-20		Pull decant boxes, switch over hill, open all drain valves, etc.
West Basin Floc	29-Apr-20		Remove flanges, knock off rust, install more packing, and clean the area.
West Basin	29-Apr-20		Switch valves on hill, take meter reads, etc.
Clean and Disinfect	29-Apr-20		Clean and disinfect common areas and filter hall.
Raw Water Improvement (Bar Screens)	30-Apr-20		Attend virtual raw water improvement presentation for proposed bar screen system.
Dan Cover Lab	30-Apr-20		Dan cover laboratory responsibilities, bring sludge samples to Cardinal, acquire lab samples, etc.
Post UV Hypo Pump	30-Apr-20		Install new post UV hypo pump, install larger hose, re-check for leaks, and trouble shoot feed issues.
West Basin	30-Apr-20		Turn on sludge pump, acquire press numbers, open basin inlet valve, and meter 12" sludge valve.

WATER MAIN AND APPURTENANCES INSTALLATION -- April 2020

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

6" Water Main Installed

Location:	Installed	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
Reconnecting Service for LTC	4/9/2020	1	0	0	0	0	0	6"	24	0	n/a	24	0	Ute.
Totals:		**1**	**0**	**0**	**0**	**0**	**0**		**24**	**0**		**24**	**0**	

8" Water Main Installed

Location:	Installed	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
Commerce from Niagara to 92' SE of Niagara	4/13/2020	1	1	1	0	0	0	12"	87	9	12" CIP	87	0	Ute.
Niagara Ave from N. 14th St to Commerce	4/9/2020	1	1	1	0	0	0	12"	226	8	12" CIP	226	0	Ute.
Totals:		**2**	**2**	**2**	**0**	**0**	**0**		**313**	**17**		**313**	**0**	

AECOM Project Number _____
AECOM Project Name AWIA Requirement Support

CONSULTING SERVICES AGREEMENT

This Consulting Services Agreement ("Agreement") effective this March 16, 2020, is by and between Sheboygan Water Utility, a Wisconsin publicly owned utility, ("Client"), and AECOM Technical Services, Inc., a California corporation, ("AECOM"); each also referred to individually as ("Party") and collectively as ("Parties").

In consideration of the mutual covenants and promises contained herein, the Parties agree as follows:

1. SCOPE OF SERVICES

1.1 AECOM shall perform the services set forth in **EXHIBIT A** ("Services"), incorporated herein by reference.

1.2 AECOM will provide the work products ("Deliverables") in accordance with the schedule ("Project Schedule"), if applicable, as set forth in **EXHIBIT A**.

2. TERM OF AGREEMENT Upon execution by the Parties, this Agreement shall have the effective date set forth above. This Agreement shall remain in force until all obligations related to the Services, other than those obligations which survive termination of this Agreement under Article 22, have been fulfilled, unless this Agreement is sooner terminated as set forth herein.

3. COMPENSATION AND PAYMENT AECOM shall be paid for the performance of the Services in accordance with **EXHIBIT B** ("Compensation and Payment"), incorporated herein by reference.

4. NOTICE All notices, requests, claims, demands and other official communications herein shall be in writing. Such notices shall be given (i) by delivery in person, (ii) by a nationally recognized commercial courier service; or (iii) by United States Postal Service, registered mail, postage prepaid and return receipt requested. Notices shall be effective upon actual delivery to the other Party at the following addresses:

TO CLIENT:
72 Park Avenue
Sheboygan WI 53081
Attn: Joe Trueblood, Sheboygan Utility Superintendent

TO AECOM:
200 Indiana Avenue
Stevens Point, WI 54481
Attn: Angel Gebeau, Project Manager

Claims-related notices shall be copied to:
AMER-DCSProjectClaimNotices@aecom.com

or to which address the receiving Party may from time to time give notice to the other Party. Rejection or other refusal to accept, or the inability to deliver because of changed address for which no notice was given, shall be deemed to be receipt of the notice as of the date of such rejection, refusal to accept, or inability to deliver. Claims-related notices need to include the AECOM project name and number found in this Agreement as well as contact information of the person submitting the notice.

5. AECOM'S RESPONSIBILITIES

5.1 AECOM shall perform the Services in accordance with the degree of professional skill, quality and care ordinarily exercised by members of the same profession currently practicing in the same locality under comparable circumstances and as expeditiously as is consistent with professional skill and the orderly progress of the Project. The full extent of AECOM's responsibility with respect to the Services shall be to perform in accordance with the above standards and to remedy any material deficiencies or defects in the Deliverables at AECOM's own expense, provided that AECOM is notified by Client, in writing, of any such deficiency or defect within a reasonable period after discovery thereof, but in no event later than 90 days after AECOM's completion or termination of the Services. AECOM MAKES NO OTHER REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, INFORMATIONAL CONTENT OR OTHERWISE.

5.2 AECOM will endeavor in good faith, as needed, to obtain from the appropriate authorities their interpretation of applicable codes and standards and will apply its professional judgment in interpreting the codes and standards as they apply to the Project at the time of performance of the Services. Notwithstanding the above, the Parties agree that, as the Project progresses, such codes or standards may change or the applicability of such codes or standards may vary from AECOM's original interpretation through no fault of AECOM and that additional costs necessary to conform to such changes or interpretations during or after execution of the Services will be subject to an equitable adjustment in the Compensation and Project Schedule.

5.3 AECOM shall be responsible for its performance and that of AECOM's lower-tier subcontractors and vendors. However, AECOM shall not be responsible for health or safety programs or precautions related to Client's activities or operations or those of Client's other contractors and consultants or their respective subcontractors and vendors ("Contractors"). AECOM shall have no responsibility for (i) construction means, methods, techniques, sequences or procedures; (ii) the direction of Contractors' personnel; (iii) selection of construction equipment; (iv) coordination of Contractors' work; (v) placing into operation any plant or equipment; or (vi) Contractors' failure to perform the work in accordance with any applicable construction contract. AECOM shall not be responsible for inspecting, observing, reporting or correcting health or safety conditions or deficiencies of Client, Contractors or others at the project site ("Project Site") other than AECOM's employees, subconsultants and vendors. So as not to discourage AECOM from voluntarily addressing health or safety issues while at the Project Site, in the event AECOM does identify such issues by making observations, reports, suggestions or otherwise, AECOM shall have no authority to direct the actions of others not under AECOM's responsibility and control and shall have no liability, responsibility, or affirmative duty arising on account of AECOM's actions or forbearance.

5.4 Notwithstanding anything contained in this Agreement, AECOM shall have no responsibility for the discovery, presence, handling, removal, transportation, storage or disposal of, or exposure of persons to hazardous materials in any form related to the Project. AECOM shall not be responsible for Client's pre-existing site conditions or the aggravation of those preexisting site conditions to the extent not caused by the negligence or willful misconduct of AECOM

6. CLIENT'S RESPONSIBILITIES

6.1 Client shall provide in writing any specific Client requirements or criteria for the Project, including design objectives and constraints, space, capacity and performance requirements, flexibility and expandability, and any budgetary limitations.

6.2 Client shall furnish to AECOM all information and technical data in Client's possession or control reasonably required for the proper performance of the Services. AECOM shall be entitled to rely without independent verification upon the accuracy and completeness of information and data provided by Client or obtained from generally accepted sources within the industry, except to the extent such verification by AECOM is expressly required as a defined part of the Services. AECOM shall not be responsible for defects in its Services attributable to its reliance upon or use of information provided by Client.

6.3 Client shall arrange for access and make all provisions necessary for AECOM to enter upon public and/or private property as required for AECOM to properly perform the Services. Client shall disclose to

AECOM any known or suspected hazards at the Project Site which may pose a threat to human health, property or the environment.

6.4 If any document or inquiry requires Client to approve, comment, or to provide any decision or direction with regard to the Services, such approval, comment, decision or direction shall be provided within a reasonable time within the context of the Project Schedule, or if not identified in the Project Schedule, within a reasonable time to facilitate the timely performance of the Services.

7. INDEPENDENT CONTRACTOR Nothing contained in this Agreement shall be construed to create a partnership, joint venture, or create a relationship of employer/employee or principal/agent between Client or Client's Contractors and AECOM.

8. CONFIDENTIALITY

8.1 AECOM shall treat as confidential information and data delivered to it by Client or developed in the performance of the Services that are specified in writing by Client to be confidential ("Confidential Information"). Confidential Information shall not be disclosed to third parties by AECOM without the consent of Client, except to the extent reasonably believed necessary by AECOM for its proper performance of the Services, for a period of 5 years following completion or termination of this Agreement.

8.2 Notwithstanding the above, these restrictions shall not apply to Confidential Information which (i) is already known to AECOM at the time of its disclosure; (ii) becomes publicly known through no wrongful act or omission of AECOM; (iii) is communicated to a third party with the express written consent of Client and not subject to restrictions on further use or disclosure; (iv) is independently developed by AECOM; or, (v) to the extent such Confidential Information is required by Law to be disclosed; provided that the information required for disclosure shall remain Confidential Information as to all other persons or entities pursuant to the terms of this Agreement, and provided further that AECOM shall promptly provide Client with written notice of such requirement.

8.3 Upon termination of this Agreement or upon Client's written request, AECOM shall return the Confidential Information to Client or destroy the Confidential Information in AECOM's possession or control. Notwithstanding the above, AECOM shall not be required to destroy Confidential Information held electronically in archive or back-up systems in accordance with general systems archiving or backup policies or required for preservation by law, regulation, audit, data retention or corporate archival purposes or per regulatory, judicial or governmental order . All such retained Confidential Information shall be kept confidential by AECOM subject to and in accordance with the terms of this Agreement.

9. DATA RIGHTS

9.1 All right, title and interest in and to any Deliverables, and excluding any AECOM Intellectual Property, shall be assigned by AECOM to Client upon full payment for the Deliverables. Client acknowledges and agrees that AECOM is the author of, and retains all rights, title and interest in all other intellectual property, including work papers, templates, details, designs, drawings, plans, renderings, analyses, calculations, models, software, macros, applications, specifications, processes, procedures, interim or draft documents, methodologies, know-how, and any other instruments of service: (a) belonging to AECOM or its consultants prior to the effective date of this Agreement; (b) developed by AECOM or its consultants outside the scope of, or not exclusively pursuant to, this Agreement; (c) licensed by AECOM or its consultants from a third-party; and (d) included within the Deliverables but which are generic, generally applicable to or standard in AECOM's business (collectively, "AECOM Intellectual Property"). To the extent the Deliverables contain, or Client's receipt of the Services require the use of AECOM Intellectual Property, to the extent of AECOM's ownership and control thereof, AECOM hereby grants to Client, upon full payment for the Deliverables and Services, a limited, non-exclusive, non-assignable, royalty-free license to use and sublicense said AECOM Intellectual Property solely and to the extent necessary to achieve the purposes stated in **EXHIBIT A**.

9.2 Nothing in this Agreement shall be construed to prohibit AECOM or its consultants from using for other purposes, clients or projects the skills, knowledge and experience gained by AECOM or its consultants in the

performance of the Services and provision of the Deliverables pursuant to this Agreement, provided that AECOM and its consultants do not use Client's Confidential Information.

9.3 AECOM, in developing solutions, testing hypotheses, or documenting designs, may employ advanced technologies for simulation, information modeling, generative design, and the development of project documentation ("Technical Tools"). While these Technical Tools may result in digital files and/or simulations or models ("Datasets"), when not specifically defined within this Agreement, these Datasets will not constitute a Deliverable or portion thereof. Rather, the Technical Tools and Datasets will be a byproduct of AECOM's internal processes and will be AECOM's sole proprietary information. Notwithstanding anything to the contrary in this Agreement, any ownership and data rights provisions will not apply to such Technical Tools and Datasets and AECOM will remain the sole owner of such Technical Tools and Datasets.

9.4 Client understands and accepts that the Services and Deliverables provided by AECOM pursuant to this Agreement are intended by AECOM for the sole use by Client for the specific purpose stated in **EXHIBIT A**. Client agrees, to the fullest extent permitted by law, to indemnify, defend and hold harmless AECOM and its consultants and their directors, officers, employees, agents, representatives, affiliated and parent companies, ("AECOM Indemnities") against any and all claims, suits, causes of action, damages, losses, costs, expenses and liabilities (including the aggregate amount paid in reasonable settlement of any actions, suits, proceedings or claims), including reasonable attorneys' fees and costs of defense, to which AECOM or any of the AECOM Indemnities may become subject as a consequence of any use or modification of, reliance upon, or transmission to a third party of, said Services, Deliverables, AECOM Intellectual Property, by Client outside the scope of this Agreement without the express, written permission by AECOM.

10. COMPLIANCE The Parties shall comply with applicable treaties, compacts, statutes, ordinances, codes, regulations, consent decrees, orders, judgments, rules, and other requirements of governmental or judicial entities that have jurisdiction over the Services ("Law").

11. FORCE MAJEURE Neither Party shall be responsible for a delay in its respective performance under this Agreement, other than a delay in payment for Services already performed, if such delay is caused by extraordinary weather conditions or other natural catastrophes, war, terrorist attacks, sabotage, computer viruses, riots, strikes, lockouts or other industrial disturbances, acts of governmental agencies or authorities, discovery of Hazardous Materials or differing and unforeseeable site conditions, or other events beyond the reasonable control of the claiming Party. AECOM shall be entitled to an equitable adjustment to the Project Schedule and compensation in the foregoing circumstances.

12. INSURANCE

12.1 AECOM will maintain the following insurance coverages and amounts:

12.1.1 Workers Compensation insurance as required by Law;

12.1.2 Employer's Liability insurance with coverage of $1,000,000 each accident/employee;

12.1.3 Commercial General Liability insurance with coverage of $2,000,000 per occurrence/aggregate;

12.1.4 Automobile Liability insurance with coverage of $1,000,000 combined single limit; and

12.1.5 Professional Liability insurance with coverage of $2,000,000 per claim/aggregate.

13. INDEMNITY

13.1 AECOM agrees to indemnify Client, its officers, directors and employees, from third party claims of loss or damage, exclusive of defense obligations, for bodily injury or property damage ("Claims"), to the proportional extent caused by AECOM's negligence or willful misconduct.

13.2 If the Services include AECOM's performance during the construction phase of the Project, Client shall require Client's Contractors working on the Project Site to include AECOM, its directors, officers and employees in any indemnity and in any insurance benefits that the Client requires such Contractors to provide to the Client.

14. CONSEQUENTIAL DAMAGES WAIVER NOTWITHSTANDING ANY OTHER PROVISION TO THE CONTRARY IN THIS AGREEMENT AND TO THE FULLEST EXTENT PERMITTED BY LAW, IN NO EVENT SHALL EITHER PARTY, ITS PARENTS, AFFILIATES AND SUBSIDIARIES OR THEIR RESPECTIVE DIRECTORS OFFICERS OR EMPLOYEES BE LIABLE TO THE OTHER FOR ANY INDIRECT, INCIDENTAL, SPECIAL, CONSEQUENTIAL OR PUNITIVE DAMAGES WHATSOEVER (INCLUDING, WITHOUT LIMITATION, LOST PROFITS, LOSS OF REVENUE, LOSS OF USE OR INTERRUPTION OF BUSINESS) ARISING OUT OF OR RELATED TO THIS AGREEMENT, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, AND AECOM HEREBY RELEASES CLIENT AND CLIENT HEREBY RELEASES AECOM FROM ANY SUCH LIABILITY.

15. RISK ALLOCATION AND RESTRICTION OF REMEDIES THE PARTIES HAVE EVALUATED THE RESPECTIVE RISKS AND REMEDIES UNDER THIS AGREEMENT AND AGREE TO ALLOCATE THE RISKS AND RESTRICT THE REMEDIES TO REFLECT THAT EVALUATION. NOTWITHSTANDING ANY OTHER PROVISION TO THE CONTRARY IN THIS AGREEMENT AND TO THE FULLEST EXTENT PERMITTED BY LAW, CLIENT AGREES TO RESTRICT ITS REMEDIES UNDER THIS AGREEMENT AGAINST AECOM, ITS PARENTS, AFFILIATES AND SUBSIDIARIES, AND THEIR RESPECTIVE DIRECTORS, OFFICERS, SHAREHOLDERS AND EMPLOYEES, ("AECOM COVERED PARTIES"), SO THAT THE TOTAL AGGREGATE LIABILITY OF THE AECOM COVERED PARTIES SHALL NOT EXCEED $250,000 OR THE ACTUAL PAID COMPENSATION FOR THE SERVICES, WHICHEVER IS GREATER. THIS RESTRICTION OF REMEDIES SHALL APPLY TO ALL SUITS, CLAIMS, ACTIONS, LOSSES, COSTS (INCLUDING ATTORNEY FEES) AND DAMAGES OF ANY NATURE ARISING FROM OR RELATED TO THIS AGREEMENT WITHOUT REGARD TO THE LEGAL THEORY UNDER WHICH SUCH LIABILITY IS IMPOSED. CLAIMS MUST BE BROUGHT WITHIN ONE CALENDAR YEAR FROM PERFORMANCE OF THE SERVICES UNLESS A LONGER PERIOD IS REQUIRED BY LAW.

16. DISPUTES RESOLUTION

16.1 Either Party may initiate a dispute resolution by providing written notice to the other Party setting forth the subject of the claim, dispute or controversy and the requested relief. The recipient of such notice shall respond within 5 business days with a written statement of its position and a recommended solution to the claim.

16.2 If the Parties cannot resolve the dispute through negotiation, either Party may refer the claim, dispute or controversy to a panel ("Panel") consisting of a designated senior representative from each Party ("Representative"), who shall have the authority to resolve it. The Representatives shall not have been directly involved in the Services and shall negotiate in good faith. No written or verbal representation made by either Party in the course of any Panel proceeding or other settlement negotiations shall be deemed to be a Party's admission. If the representatives are unable to resolve the dispute within 15 business days, either Party may pursue its respective legal and equitable remedies.

16.3 A Party's failure to abide by the foregoing dispute resolution procedures prior to that Party's filing of a lawsuit shall result in the dismissal of said lawsuit until the provisions of Articles 16.1 and 16.2 have been met.

17. GOVERNING LAW All contract issues and matters of law will be adjudicated in accordance with the laws of the state where the Project is located, excluding any provisions or principles thereof which would require the application of the laws of a different jurisdiction.

18. TERMINATION

18.1 This Agreement may be terminated for convenience by either Party upon 30 days advance written notice. On termination, AECOM will be paid for all Services performed up through the termination date.

18.2 This Agreement may be terminated for cause by either Party if the other Party materially fails to perform its obligations under this Agreement, does not commence correction of such non-performance within 10 business days of receipt of written notice and/or fails to diligently complete such correction thereafter. The respective rights and obligations of the Parties predating such termination shall survive termination of this Agreement.

19. ASSIGNMENT

19.1 Neither Party may assign this Agreement without the written consent of the other Party, which unconcented-to assignment shall be void ab initio.

19.2 Notwithstanding Section 19.1 above, the Parties recognize that AECOM has affiliated companies who have specialized expertise, necessary certifications/registrations or other capabilities that may make use of such affiliates more suitable for the performance of all or part of the Services. AECOM shall be entitled without additional consent to assign this Agreement or performance of the Services, in whole or in part, to any of AECOM's subsidiaries or affiliates upon written notice to Client.

20. PARTIES IN INTEREST Nothing in this Agreement, expressed or implied, is intended to confer on any person or entity other than the Parties any right or remedy under or by reason of this Agreement. The provisions of this Agreement shall bind and inure solely to the benefit of the Parties and their respective successors and permitted assigns.

21. WAIVER Either Party may in writing waive any provisions of this Agreement to the extent such provision is for the benefit of the waiving Party. No waiver by any Party of a breach of any provision of this Agreement shall be construed to be a waiver of any subsequent or different breach.

22. SEVERABILITY AND SURVIVAL Articles 4 (Notice), 5 (AECOM's Responsibilities), 6.2 (Reliance on Data), 8 (Confidentiality), 9 (Data Rights), 12 (Insurance), 13 (Indemnity), 14 (Consequential Damages Waiver), 15 (Risk Allocation), 16 (Disputes Resolution), 17 (Governing Law), 19 (Assignment), 20 (Parties in Interest) and 22 (Survival) shall survive termination of this Agreement. To the extent any provision of this Agreement violates any law, or is otherwise invalid or unenforceable, said provision shall be revised to the limited extent necessary to make that provision legal and enforceable and, to the fullest extent permitted by law, consistent with Parties' original intent.

23. PREPARATION OF AGREEMENT Each Party has had the opportunity to avail itself of legal advice and counsel. Neither Party shall be deemed to be the drafter or author of this Agreement. In the event this Agreement is subject to interpretation or construction by a court of law or panel of arbitration, such court or panel shall not construe this Agreement, or any portion hereof, against either Party as the drafter of this Agreement.

24. SIGNATURES Each person executing this Agreement warrants that he/she has the necessary authority to do so on behalf of the respective Party. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original, but all of which together shall constitute a single agreement.

25. ORDER OF PRECEDENCE

Executed Change Orders
Consulting Services Agreement Article 26
Consulting Services Agreement Articles 1 through 25 and 27
EXHIBIT B Compensation and Payment
EXHIBIT A Services
Other contract documents

26. SPECIAL TERMS AND CONDITIONS

None

27. ENTIRE AGREEMENT This Agreement contains all of the promises, representations and understandings of the Parties and supersedes any previous understandings, commitments, proposals or agreements, whether oral or written. This Agreement shall not be altered, changed, or amended except as set forth in a written amendment to this Agreement, duly executed by both Parties. The attached **EXHIBIT C** ("Change Order"), incorporated herein by reference, is the preferred form for such use.

AECOM Technical Services, Inc.	**CLIENT:** Sheboygan **Water Utility**
Signature	Signature
Thomas J. Holtan, P.E.	
Printed Name	Printed Name
Associate Vice President	
Printed Title	Printed Title
March 9, 2020	
Date	Date
Address: 2985 South Ridge Road Suite B Green Bay, WI 54304	Address: 72 Park Avenue Sheboygan, WI 53081

)

(End of page)

EXHIBIT A

SERVICES

Services:
On October 23, 2018, the president signed into law the American Water Infrastructure Act (AWIA) which amends the Safe Drinking Water Act (SDWA). AWIA is Public Law 115-270. The AWIA includes revisions for Community Water System (CWS) risk and resilience. Section 1433 of the Safe Drinking Water Act titled - Community Water System Risk and Resilience was amended by the AWIA. The regulatory requirements from AWIA include:

1. Update Risk and Resilience Assessments (RRA)
2. Update Emergency Response Plans (ERP)
3. Submit a Certification Letter to EPA for each
4. Review, update, and record updates at a minimum every 5 years after the initial certified updates.

This scope will assist the Sheboygan Water Utility (Utility) with the AWIA required updates to the RRA and ERP.

Updating the RRA and ERP will be an ongoing requirement for water systems; therefore, our proposed scope includes the Utility working with AECOM to prepare the RRA so they will be ready to complete updates in the future with occasional external support for the work in key areas of specialty such as cyber security reviews.

The new AWIA requirements regarding RRAs include:

1. Threats from natural hazards are to be included with the original “malevolent acts” threats.
2. Cyber assets must be added for RRA review.
3. The financial infrastructure must be added for RRA Review.
4. A list of capital improvements based on RRA results should be included.

EPA is required to accept RRA documents completed using industry standard practices. Therefore, AECOM has provided an approach that generally follows the AWWA J100 standard. Another benefit to following the AWWA J100 standard is the standard has been “Designated” approved to meet Safety Act requirements. Use of “Designated Safety Act” standards reduces the potential liability and legal action against a water system after an adverse event.

The proposed RRA would follow the AWWA J100 Methodology which includes:
1. Asset Characterization - identify critical assets
2. Threat Characterization - select appropriate threats and hazards
3. Consequence Analysis - determine consequences for each threat-asset (T-A) pair
4. Vulnerability Analysis - estimate effectiveness of existing mitigation measures
5. Threat Likelihood Analysis - determine threat likelihood
6. Risk/Resilience Analysis - determine baseline risk and resilience
7. Risk/Resilience Management - Apply mitigation measures and re-evaluate risk and resilience

For the RRA updates, AECOM is proposing four tasks and an Optional task. The utility may authorize a singular task or all tasks. Updates for the RRA , will include 1 Gap Analysis Meeting and 3 workshops.

Task 1 - RRA Gap Review – Meeting 1

AECOM will facilitate a meeting with the utility leadership to discuss the RRA compliance with AWIA gap analysis. AECOM will provide the proposed agenda in advance of the meeting. The meeting will include background information on the AWIA regulations, a list of resources, and proposed plan to meet the RRA update requirements. For this meeting, AECOM will provide meeting minutes to document the discussion and the next steps.

Total hours anticipated:
Facilitator – 4 hours
Technical Support – 6 hours
Anticipated travel costs - $100.

Task 2 RRA Workshops

a. AECOM will facilitate workshops with the utility to complete the RRA updates to meet certification deadlines.
b. AECOM will provide resources and working documents to assist with the utility review of Threat-Asset pairs at Workshop 1. The existing critical asset list and historic design basis threat information will assist with this effort.
c. AECOM will review existing consequence ranking information from the VA and prepare documents to track consequence details relating to T-A pairs in Consequence Workshop 2. AECOM can provide additional resources for malevolent threat intrusion, detection, and response review.
d. AECOM will assist in documentation of the Mitigation Strategies and Capital Improvements at Workshop 3. The utility will be responsible for detailed cost estimating beyond the workshop discussion period or will provide written authorization for AECOM to complete cost estimating.
e. AECOM will provide meeting minutes from the workshops.
f. AECOM will not generate a report or update spreadsheets within this task of the work. This work may be completed as task 3 and task 4 items.

As the timing for the workshops is variable, AECOM has provided a time and materials price so that the utility can control the cost outcome for the RRA work and the level of support desired from AECOM.

Total hours anticipated:
Facilitator – 53 hours
Junior Engineer – 66 hours
Technical Support – 0 hours
Quality Control – 17 hour
Administrative Support – 6 hours
Anticipated travel costs - $300.

Task 3 Spreadsheet Documentation

a. AECOM will compile data from the workshops into spreadsheets to complete the calculations and submit the findings to the team for review at the subsequent workshop.
b. AECOM will enter up to 25 assets for review. It is noted that threats with minimal likelihood will be removed to focus on the highest risk threat-asset pairs.

Task 4 Report Generation

a. AECOM will complete a report to summarize the RRA and provide additional documentation for future RRA efforts.
b. AECOM will provide cost estimates for up to 10 capital improvement items to be used in the final capital improvement plan.
c. The draft report will be reviewed throughout the RRA process. A final report review meeting will be held via conference call.

Total hours anticipated :
Facilitator – 8 hours
Junior Staff – 44 hours
Technical Support – 24 hours
Quality Control – 5 hour
Administrative Support – 4 hours
Anticipated report production costs - $50.

Optional Task – Security Site Review

a. AECOM will follow the utility escort to each asset location and provide a security analysis including noting detection methods, delays to access, and response hinderences. This assumes two full days at the asset locations and followup documentation activities.

Total hours anticipated :

Facilitator – 20 hours
Junior Staff – 20 hours
Technical Support – 6 hours
Quality Control – 1 hour
Anticipated travel costs - $100.

ASSUMPTIONS

It is assumed that the Sheboygan Water Utility will

1. Invite all individuals to each workshop as deemed necessary by the RRA team.
2. Complete financial and operational URI forms.
3. Provide qualified staff at workshops to provide input to the RRA process.
4. Review documents and provide confirmation or updates in a timely manner.
5. Provide access to available information as needed to complete the RRA.

It is also assumed that Sheboygan Water Utility will complete the Emergency Response Plan updates following the AWIA requirements and that work is outside the scope of this contract.

Schedule:

AECOM will complete all meeting and workshop minutes within 10 business days All work to be completed in advance of the December 31, 2020 AWIA RRA deadline

Deliverables:

Meeting and workshop agendas
Meeting and workshop minutes
Spreadsheet updates with entries following workshop findings
Report summarizing review and proposed capital improvements

AECOM Project Manager

Name	Angel Gebeau, PE, BCEE
Title	Senior Water Engineer
Address	200 Indiana Ave; Stevens Point WI 54481
Phone Number	715-342-3023
Email Address	Angel.gebeau@aecom.com

Client Project Manager

Name	Joe Trueblood
Title	Sheboygan Water Utility Superintendent
Address	72 Park Avenue
Phone Number	920-459-3805
Email Address	joetrueblood@sheboyganwater.org

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EXHIBIT B

COMPENSATION AND PAYMENT

1 COMPENSATION The Services set forth in **EXHIBIT A** will be compensated on the following basis:

[X] Time & Material **–** See Section 2.1 for Hourly Labor Rates

Estimated Costs based on estimated hours from scope and labor rates below:
Task 1: $1,400
Task 2: $19,300
Task 3: $5,300
Task 4: $7,900
SUBTOTAL: $33,900

Optional Task: $6,300

2. RATE SCHEDULE Compensation shall be based on the following Hourly Labor Rate Schedule:

2.1 HOURLY LABOR RATE SCHEDULE

Staff	**Fee**
Project Manager / Facilitator	$170
Quality Control	$200
Junior Engineer	$87
Technical Support	$54
Administrative Staff	$94

2.2 **OTHER HOURLY LABOR RATE CATAGORIES** If additional labor categories are authorized during the performance of this Agreement, compensation for each additional category will be negotiated at the time the additional Services are authorized.

2.3 **ANNUAL HOURLY LABOR RATE ADJUSTMENTS** The Hourly Labor Rate Schedule is adjusted each calendar year to reflect updated labor cost categories. Labor cost of Services authorized in subsequent calendar years will be based on the applicable Hourly Labor Rate Schedule for those years.

3. REIMBURSEABLE EXPENSES Reimbursable expenses are expenditures made by AECOM for goods, travel expenses and vendor services in support of the performance of the Services. Such expenditures will be billed at the actual cost to AECOM.

4. CHANGE ORDERS The Parties may at any time and by written agreement make changes in the Services, Project Schedule, Deliverables, Compensation or other terms and conditions in this Agreement. The Parties shall effect such change through the use of a written Change Order. **EXHIBIT C** is the preferred form for such use.

5. INVOICING AECOM will invoice Client on a monthly basis unless otherwise set forth herein.

6 PAYMENT

6.1 If payment is based on Time and Materials with a NTE, once AECOM reaches the NTE, AECOM will stop further Services pending a Change Order to adjust the budget and schedule for the continued performance of the Services.

6.2 Timely payment is a material term of this Agreement. Client shall pay all undisputed portions of AECOM's invoices within 30 days of receipt without holdback or retention. Client shall notify AECOM within fourteen (14) days of the receipt of the invoice of any disputed items. Such notice must be accompanied by a detailed description of any disputed items and include supporting documentation as well as references to the provision(s) of this Agreement which permit a holdback or retention. If such notice is not provided within fourteen (14) days, Client waives its rights to dispute the invoice Undisputed amounts remaining unpaid 30 days after the invoice date shall bear interest at the rate of 1.5% per month on the unpaid balance and AECOM may suspend the Services pending receipt of such payment. In addition, AECOM retains its unrestricted rights under Article 18 (Termination) of the Agreement.

6.3 If the Project is suspended by Client for more than 30 days, AECOM shall be paid for all Services performed prior to the effective date of suspension within 30 days of such suspension. Upon resumption of the Project, AECOM shall be entitled to an equitable adjustment in cost and schedule to compensate AECOM for expenses incurred as a result of the interruption and resumption of the Services.

6.4 To the extent that completion of the Services is delayed beyond the original scheduled completion date and such delay is not the fault of AECOM, an equitable adjustment shall be made to AECOM's Compensation and Project Schedule.

6.5 Except as otherwise specifically provided herein, Client shall pay or reimburse AECOM, as appropriate, for all categories of taxes other than income tax, including without limitation, sales, consumer, use, value added, gross receipts, privilege, and local license taxes related to the Services.

6.6 Client shall make payments to AECOM using one of the following methods:

6.6.1 AECOM LOCKBOX:

AECOM Technical Services, Inc.
1178 Paysphere Circle
Chicago, IL 60674

6.6.2 ELECTRONIC FUNDS TRANSFER/ACH PAYMENT:

Account Name: AECOM Technical Services, Inc.
Bank Name: Bank of America
Address1: Building D
Address2: 2000 Clayton Road
City/State/Zip: Concord, CA 94520-2425
Account Number: 5800937020
ABA Routing Number: 071000039

6.6.3 WIRE TRANSFER:

Account Name: AECOM Technical Services, Inc.
Bank Name: Bank of America
Address: 100 West 33rd St
City/State/Zip: New York, NY 10001
Account Number: 5800937020
ABA Routing Number: 026009593
SWIFT Code: BOFAUS3N

6.6.4 Questions related to payment can be sent to:

AECOM Cash Applications Supervisor by phone at (804) 515-8490 or by email at cashappsremittance@aecom.com

(End of page)

AECOM Imagine it. Delivered.

AECOM Project Name: _____
AECOM Project No.: _____
Change Order No.: _____

EXHIBIT C

SAMPLE CHANGE ORDER FORM

In accordance with the Consulting Services Agreement dated ____ 20___ between AECOM Technical Services, Inc., a California corporation, ("AECOM"), this Change Order, with an effective date of _____, 20_____ modifies that Agreement as follows:

1. **Changes to the Services**:

2. **Change to Deliverables**:

3. **Change in Project Schedule** (attach schedule if appropriate):

4. **Change in CONSULTANT's Compensation**:

The Services set forth in this Change Order will be compensated on the following basis:

[ ] No change to Compensation

[ ] Time & Material (See **Exhibit B** for the Hourly Labor Rate Schedule)

[ ] Time and Materials with a Not- to-Exceed amount of ($). The Hourly Labor Rate Schedule is set forth in **EXHIBIT B** (if applicable). Reimbursable expenses are included in the overall Not to Exceed cap.

[ ] Lump Sum [$]

Milestone/Deliverable & Date	Payment Amount
	$

[ ] **Cost Plus Fixed Fee:** [Cost $ and Fee $]

Therefore, the total authorized Compensation, inclusive of this Change Order is $.

5. **Project Impact**:

6. **Other Changes** (including terms and conditions):

AECOM Imagine it. Delivered.

7. All other terms and conditions of the Agreement remain unchanged.

8. Each Party represents that the person executing this Change Order has the necessary legal authority to do so on behalf of the respective Party.

AECOM Technical Services, Inc.	**CLIENT:**
	_____
Signature	Signature
Printed Name	Printed Name
Printed Title	Printed Title
Date	Date
Address	Address
_____	_____
_____	_____

[End of Agreement]

AECOM
200 Indiana Avenue
Stevens Point, WI 54481
www.aecom.com

715-341-8110 tel
715-341-7390 fax

March 13, 2020

Joe Trueblood, Utility Superintendent
Sheboygan Water Utility
72 Park Avenue
Sheboygan, WI 53081

Subject: Proposal for AWIA Risk & Resilience Assessment

Dear Mr. Trueblood;

Sheboygan Water Utility is completing a Risk and Resilience Assessment (RRA) to meet the American Water Infrastructure Act (AWIA) requirements. The project goal is to provide a final document that meets the AWIA requirements by following the AWWA J100 standards. The final deliverable will include a capital improvement plan to reduce risk that incorporates current work and capital plans. This project is the first RRA for Sheboygan Water Utility using the revised AWIA requirements and will serve as a road map for future RRA five-year updates.

Our attached proposal demonstrates our expertise and strong qualifications for the AWIA RRA and our approach to meet the project objectives.

AECOM can provide a highly capable team for this project because:

- Our project manager, Angel Gebeau has a depth of work experience in risk reviews and has a strong understanding of water utility operations.
- AECOM has a breadth of staff available for the project work including national experts and a local support team.
- Our team completed your previous water system master plan updates and we have a strong knowledge of your water system.
- We have scaled RRA approaches for medium sized utilities, like Sheboygan.
- AECOM has a firm understanding of the confidential nature of the work and has the tools to maintain confidentiality while working in the digital age.

The benefits offered by AECOM would yield the final RRA that provides a roadmap for the years ahead and is a useful document that will incorporate current capital planning with additional capital planning that places the resources available to reduce risk and improve resiliency.

We truly enjoyed our history of working with the Sheboygan Water Utility and we look forward to assisting you on this project. If you have any questions or require additional information, please contact me.

Sincerely,

AECOM

Angel Gebeau, P.E., BCEE
Senior Project Manager
715.342.3023
Angel.gebeau@aecom.com

Project Team and Resources

The Project Team consists of professionals throughout Wisconsin that are ready to complete a successful project. Resumes for the key technical staff are provided below.

Project Manager and Technical Lead – Angel Gebeau
Project Quality Control – Tom Degen
Main Support Staff – Kyle Priest

All three staff noted have completed document security training.

Angel Gebeau and Tom Degen have worked for over 10 years with other AECOM staff that have performed RRAs for other utilities. If it becomes necessary, staff from many other areas are available to answer questions or provide direct support for the project. Perry Gayle, Heidi Gilmore, and Jack Moyer are examples of other personnel available. You can see more information on our available team and the work completed by AECOM for other utilities in the attached brochure.

Resources

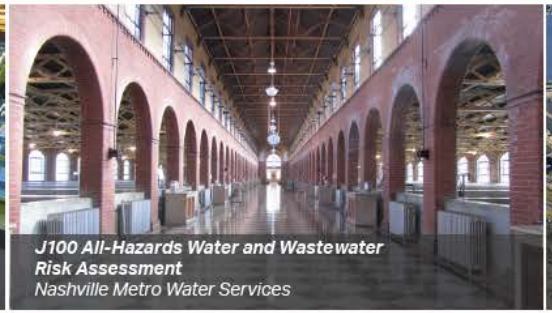
AECOM has tools that were previously developed that will assist with a streamlined RRA. AECOM resources include secure file sharing and servers for document control. AECOM also has spreadsheets and data collection forms that will be used throughout the process to aid in information collection and documentation.

AECOM has been located in Wisconsin and served Wisconsin municipalities since 1910. We have five offices with more than 240 Wisconsin-based staff.

With AECOM, there is a large group to back up our local team as needed. We use the Technical Practice Network to easily communicate

tpn Technical Practice Network

Threat and Vulnerability Assessment Update
Chicago Department of Water Management



J100 All-Hazards Water and Wastewater Risk Assessment
Nashville Metro Water Services

Comprehensive All-Hazards Risk Assessment
District of Columbia Water and Sewer Authority

Comprehensive Disaster Recovery and Business Continuity Plan, *Louisville and Jefferson County Metro Sewer District*

Services and Capabilities

- **Risk and Resilience Assessments**
- **Emergency Response Planning**
- **Business Continuity Plans (BCP)**
- **Risk Management**
- **Training and Exercises**
- **Crisis Management and Communication**

Unique Differentiators

- AECOM can deliver full life-cycle solutions for any project including risk assessment studies, risk mitigation planning, master planning, Capital Improvement Plan (CIP) development, design, construction, commissioning, emergency response plans, business continuity plans, training and exercises.
- Our key personnel are highly engaged in national and regional Water Sector risk and resilience professional organizations and initiatives, and have co-authored numerous Water Sector risk and resilience resources, tools, guidance documents, and templates.

Collaboration

Collaboration is an AECOM Core Value and our goal is to build diverse teams that connect expertise to create innovative solutions. Our Water Sector risk and resilience team routinely collaborates with internal technical experts using the AECOM Technical Practice Network (TPN), with local office resources that have deep institutional knowledge of client assets and challenges, and with state and federal law enforcement, threat assessment, and threat mitigation agencies.

- **The AECOM Technical Practice Network**
- **Local Office Collaboration**
- **Collaboration with State and Federal Agencies**

Innovation, Experience and Leadership

AECOM's risk assessment and emergency preparedness services are solidly founded on security best practices, industry standards, and state and federal laws. We embrace the all-hazards approach to risk assessments that acknowledges the importance of considering not only malevolent threats, but also hazards resulting from natural disasters, interdependencies, and proximity.

J100 Risk Assessment Methodology and "J100 Lite"
We have extensive experience implementing the Water Sector's recommended risk assessment methodology, the ANSI/AWWA J100-10: Risk Analysis and Management for Critical Assets Protection (RAMCAP®) for Risk and Resilience Management of Water and Wastewater Systems (J100) standard. The foundation of the J100 Lite process is to "Begin with the End in Mind" and minimize activities that will result in very expensive or socially unacceptable recommendations that will never be implemented, and rather focus on risk mitigation strategies that strike a balance between the resources the utility can devote to risk
mitigation and the risk that the owner is willing to accept.

Co-Authorship of Key Water Sector Resources
Members of our team have authored or co-authored the following Water Sector resources:

- American Water Works Association (AWWA), "Emergency Planning for Water Utilities," Manual of Water Supply Practices M-19
- Water Research Foundation, Business Continuity Planning for Water Utilities
- AWWA, Water Sector Resource Typing Manual for Mutual Aid and Assistance
- AWWA, M-68 – Water Quality in Distribution Systems
- AWWA, M-71 – Climate Adaptation Planning for Water Utilities
- Water Environment Federation (WEF), Wastewater Collection Systems Management
- WEF, Emergency Planning, Response and Recovery

Leadership
Members of our team hold and/or have held key leadership positions within the industry:

- Past Chair of the AWWA Emergency Preparedness and Security (EP&S) Committee and multiple current EP&S Committee Members
- Multiple-time Chair of AWWA EP&S Conference Committee
- Past Chair of the NC Risk Management Committee and multiple current Committee Members
- Sustainable Water Infrastructure Systems (SWIM) Steering Committee Member
- More than 50 conference papers and presentations

Key Personnel

Perry Gayle, PhD, PE, LEED AP
Water Risk and Resilience Technical Lead
43 Years of Experience
D 919.461.1295
perry.gayle@aecom.com

Heidi Gilmore, PE
Water Risk and Resilience Specialist
22 Years of Experience
D 570.238.2168
heidi.gilmore@aecom.com

Jack Moyer
Water Emergency Response Lead
44 Years of Experience
D 919.461.1472
jack.moyer@aecom.com

Angel Gebeau, PE, BCEE
Water Treatment Practice Area Coordinator
20 Years of Experience
D 715.342.3023
angel.gebeau@aecom.com

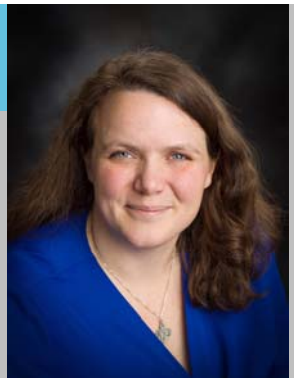
Shannon Clunn, PE
Water Risk and Resilience Specialist
22 Years of Experience
D 919.461.1385
shannon.clunn@aecom.com

Frank Reid, CISSP
Cyber Security Specialist
39 Years of Experience
D 7402.952.2649
frank.reid@aecom.com

Additional AECOM resources include:
Tom Degen (Steven Point, WI), Matt Francis (Salt Lake City), Paolo Iscaro (Germantown)

Angel Gebeau, P.E., BCEE

Risk and Resiliency/Emergency Response Plan



Angel is a drinking water project manager with 19 years of experience in the drinking water industry. She has been involved in vulnerability assessments for the design of new drinking water treatment facilities and the evaluation of current facilities.

Education

BS, Environmental Engineering, Michigan Technological University

Professional Registrations

Professional Engineer – Wisconsin, Minnesota, Virginia, North Dakota, Texas (Environmental Engineer)

Board Certified Environmental Engineer (BCEE)

Years of Experience

21 total – 19 drinking water

Professional Affiliations

American Academy of Environmental Engineers and Scientists
American Society of Civil Engineers
American Water Works Association
Wisconsin Rural Water Association
Wisconsin Water Association

Relevant Experience

AWIA RRA and ERP Gap Analysis, City of Houston, Texas. Project engineer responsible for comparison of City of Houston Texas existing documents with RRA and ERP requirements from AWIA regulatory changes. Included review against AWWA and ANSI standards J100, G440, G430 and others.

AWIA RRA Updates, American Water. Support engineer for American Water RRA update contract including multiple states and locations.

Marstel-Day - US Air Force, Water Resources Management and Sustainment Plan, Various Locations. Project engineer responsible for plans at Mountain Home AFB, Altus AFB, and Beale AFB. Reviewer for Vandenberg AFB. Plans supported HAF and AFCEC in developing an AF enterprise water rights and water resource management and sustainment program including triage of bases based on selected water sustainment criteria.

US Air Force, Water System Vulnerability Assessments and Emergency Response Planning, Various Locations. Project engineer for water system vulnerability assessments at Air Force PACAF bases in the U.S. and overseas under a contract with the Air Force Institute of Operational Health. Water supplies include large, small, community and non-community systems.

La Crosse Water Utility, Water System Vulnerability Assessment, La Crosse, Wisconsin. Engineer assisting with a vulnerability assessment following the RAM-W^{SM} approach for the La Crosse Water Utility. AECOM prepared a vulnerability assessment to identify the core mission of the client, prioritize the criteria and the facilities integral to completing this mission, screen critical water system facilities for vulnerabilities based upon the design basis threats, and identify means of reducing the risks associated with malevolent acts. The overall goal was to help the client focus efforts and resources on reducing the risk to high-risk facilities. The assessment provided a plan for cost-effective improvements where needed the most.

US Air National Guard, Water System Vulnerability Assessments and Emergency Response Planning, Various Locations. Project engineer assisting with water system vulnerability assessments at 29 Air National Guard bases in the United States under a contract with the Air Force Institute of Operational Health. Utilized template report.

Hialeah Water Treatment Facility, Treatment Facility Design-Build – Vulnerability Assessment, Hialeah, Florida. Project engineer the vulnerability assessment of the facility during the design stage of the water treatment facility construction. Provided optimization strategies before final design and construction to best minimize vulnerabilities in the final treatment facility.

Pearl Harbor Air Force Base, Contingency Response Plan, Pearl Harbor, Hawaii. Project engineer for the contingency response plan for potential contamination of water system. Completed a grab-and-go book used to assist in an emergency contamination situation.

Various Clients, Contamination Emergency Response Plans, Wisconsin. Created an emergency response plan (ERP) for contamination events included in La Crosse and Janesville and various military ERPs. The contamination plan is based on EPA guidelines and site specific requirements

Racine Water Utility, Water System Vulnerability Assessment and Emergency Response Planning, Racine, Wisconsin. Project engineer for a vulnerability assessment and emergency response planning project. Racine operates a surface water treatment plant, and remote pumping and storage facilities that supply an average daily demand of approximately 20 MGD. The vulnerability assessment team identified assets that are critical to meeting utility goals and screened options for improving protection of critical assets. Emergency response plans were being developed to address potential critical incidents identified using the RAM-W^{SM} method for vulnerability assessments.

Kenosha Water Utility, Water System Vulnerability Assessment and Emergency Response Planning, Kenosha, Wisconsin. Project engineer for a vulnerability assessment completed following the RAM-W^{SM} approach. Kenosha serves over 100,000 customers and uses Lake Michigan as a supply source. She facilitated several workshops with the vulnerability assessment team consisting of AECOM specialists, utility operations and management staff, and local law enforcement. Workshops focused on evaluating the potential threat, and reviewing potential impacts of attacks on the water system and the ability to defend such an attack. Utilized the results of the vulnerability assessment to develop and emergency response plan.

Honeywell Sensing and Control, Emergency Response Plan Review, Freeport, Illinois. Reviewed and updated the emergency response plan for five plants located in North-Central Illinois. Included researching regulations, developing contact lists, evaluating potential threats, document preparation, and distribution.

Des Plaines Water Utility, Water System Vulnerability Assessment and Emergency Operations Plan, Des Plaines, Illinois. Engineer assisting with vulnerability assessment and emergency operations plan. AECOM used the RAM-W methodology for small and medium water systems to help the city water utility examine its water system for security risks.

West Bend Water Utility, Water System Vulnerability Assessment and Emergency Operations Plan, West Bend, Wisconsin. Engineer assisting with vulnerability assessment and emergency operations plan. AECOM conducted a vulnerability assessment based on the RAM-W methodology for small and medium utilities, developed by Sandia National Laboratories for AWWARF.

Tom Degen, P.E.
Lead Technical Advisor/Quality Control

Tom was project manager on the previous Appleton Water System Master Plan and has managed numerous risk and resiliency projects throughout his career. Tom will serve to help keep the project on the correct path technically both at the start and within project delierable reviews. The project will benefit with his experience in review of this project work. .

Education
BS,Civil Engineering, University of Wisconsin - Platteville

Professional Registrations
Professional Engineer – Wisconsin

Years of Experience
29

Professional Affiliations
American Water Works Association
Wisconsin Water Association

Relevant Experience

City of Appleton, Water Distribution Master Plan, Appleton, Wisconsin. Project manager for water distribution master plan study to provide a prioritized capital improvements plan designed to support growing customer demands cost effectively. Responsibilities include project planning, determination of water requirements, hydraulic model and deficiency analysis, development of a water main replacement and rehabilitation strategy, improvement planning, capital improvement planning, and reporting.

US Air Force, Water System Vulnerability Assessments and Emergency Response Planning, Various Locations. Project manager for water system vulnerability assessments at Air Force PACAF bases in the U.S. and overseas under a contract with the Air Force Institute of Operational Health. Water supplies include large, small, community and non-community systems.

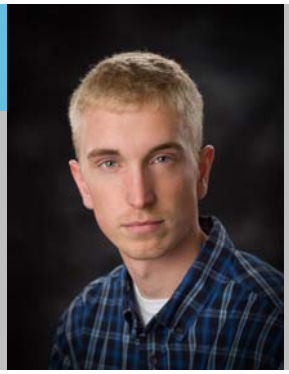
La Crosse Water Utility, Water System Vulnerability Assessment, La Crosse, Wisconsin. Project manager for a vulnerability assessment following the RAM-W^{SM} approach for the La Crosse Water Utility. AECOM prepared a vulnerability assessment to identify the core mission of the client, prioritize the criteria and the facilities integral to completing this mission, screen critical water system facilities for vulnerabilities based upon the design basis threats, and identify means of reducing the risks associated with malevolent acts. The overall goal was to help the client focus efforts and resources on reducing the risk to high-risk facilities. The assessment provided a plan for cost-effective improvements where needed the most.

US Air National Guard, Water System Vulnerability Assessments and Emergency Response Planning, Various Locations. Project manager for water system vulnerability assessments at 29 Air National Guard bases in the United States under a contract with the Air Force Institute of Operational Health. Utilized template report.

Pearl Harbor Air Force Base, Contingency Response Plan, Pearl Harbor, Hawaii. Project task manager for the contingency response plan for potential contamination of water system. Completed a grab-and-go book used to assist in an emergency contamination situation.

He also was the project manager for Vulnerabiltiy assessments for Racine, Kenosha, and Janesville.

Kyle Priest
Project Engineer



Kyle has experience with water system master planning and water system analysis, and improvement planning. He has assisted on cost estimating for master planning services

Education
BS,Civil Engineering, University of Wisconsin - Platteville

Professional Registrations
EIT – Wisconsin

Years of Experience
1

Professional Affiliations
American Water Works Association
American Society of Civil Engineers

Relevant Experience

City of Appleton, Water System Master Plan, Appleton, Wisconsin.
Responsible for developing a calibrated hydraulic model of the water distribution system and preparing a water system master plan. The water system master plan includes population and community growth projections, water requirements, existing and future facilities and storage evaluation, water main replacement program (KANEW), prioritization and improvements, a capital improvements plan, and reporting.

Water System Master Plan, West Bend, Wisconsin.
Responsible for developing a calibrated hydraulic model of the water system and preparing a water system master plan including population and community growth projections, water requirements, existing and future facilities and storage evaluation, system evaluation and improvements, a capital improvements plan, and reporting.

City of Verona, Water System Model Update and EPIC Evaluation, Verona, Wisconsin.
Assisted with the water system model update including updating pipe geometry based on GIS. Assisted with determining if the water system could supply high demand to a large user. Evaluation included water system pressure and hydraulics analysis.

Miami-Dade Water and Sewer Department, Model Development, Miami, Florida
Project engineer assisting in model development including pipe geometry and connectivity.

Water System Master Plan, Weston, Wisconsin.
Responsible for developing a calibrated hydraulic model of the water distribution system and preparing a water system master plan. master plan includes population and community growth projections, water requirements, existing and future facilities and storage evaluation, system evaluation and improvements, a capital improvements plan, and reporting.

NAVFAC Mid-Atlantic, Wellhead Protection Planning and Surface Water Assessment and Protection Plan Update, NSA Crane.
Project engineer involved with developing a wellhead protection plan and surface water assessment and protection plan update.

Green Bay Water Utility, Unidirectional Flushing Plan, Green Bay, Wisconsin.
Project engineer for the development of a system-wide unidirectional flushing program based on a calibrated hydraulic model. For each sequence a field log and map will be created indicating which valves and hydrants need to be operated.

Distribution System -- 1st Quarter - January, February, & March 2020

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

Location	Installed	Size	By	Type
Kohls Ct at Geele Ave (N)	3/5/2020	6" MJ	ute.	G (vert)
N. 19th St at Geele Ave (S)	3/5/2020	6" MJ	ute.	G (vert)
N. 21st St and Geele Ave (S)	3/6/2020	6" MJ	ute.	G (vert)
N. 20th St and Geele Ave (S)	3/10/2020	8" MJ	ute.	G (vert)
N. 18th St at Alexander Ct (N)	3/13/2020	6" MJ	ute.	G (vert)

Total Valves Installed = 5

Street Valves and Hydrant Valves Removed

Location	Installed	Removed	Type
N. 19th St. at Geele Ave. (S)	5/1/1936	3/5/2020	G
N. 18th St. at Alexander Ct. (N)	12/31/1929	3/13/2020	G

Total Valves Removed = 2

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
S. 22nd St. at Elm Ave. (NW)	1/9/2020	6'6"	n	ute.

Total Hydrants Installed = 1

Hydrants Removed (including water main projects and others)

Location	Installed	Removed	Hyd Valve?	Hyd Valve?
S. 22nd St. at Elm Ave. (NW)		1/9/2020	n	

Total Hydrants Removed = 1

Hydrants Abandoned (including water main projects and others)

Location	Installed	Abandoned	Tr Size

Total Hydrants Abandoned = 0

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

Location	Installed	Maintained

Total Hydrants Maintained/Moved = 0

Water Main Breaks

Location	Date	Main Size (")
824 Spring Ave	1/1/2020	6"
435 Center Ave	1/12/2020	6"
2104 Saemann Ave	1/14/2020	6"
Sauk Trail and Clara Ave	1/20/2020	6"
1634 S. 19th St	1/21/2020	8"
2502 Georgia Ave	2/20/2020	6"
2638 Erie Ave	2/24/2020	12"

Total Water Main Breaks = 7

SUMMARY

Number of feet of 4 inch water main installed	0	water main
Number of feet of 6 inch hydrant lead installed	0	
Number of feet of 6 inch water main installed	0	
Number of feet of 8 inch water main installed	0	
Number of feet of 10 inch water main installed	0	
Number of feet of 12 inch water main installed	0	
Number of feet of 16 inch water main installed	0	
Number of feet of 24 inch water main installed	0	
Number of feet of water main abandoned or removed	0	
Number of water main breaks repaired	7	
Number of hydrants installed	1	hydrants
Number of hydrants removed or abandoned	1	
Number of hydrants maintained or moved	0	
Number of street valves installed	5	valves
Number of hydrant valves installed	0	
Number of street valves removed or abandoned	2	
Number of hydrant valves removed or abandoned	0	
Number of valves maintained	80	
Number of water connections installed	6	

City of Sheboygan
spirit on the lake Water Utility

Sheboygan Water Utility
Sheboygan, Wisconsin
Income Statement - March 31, 2020

Account #		1-Jan-20 to 31-Mar-20	1-Jan-19 to 31-Mar-19	Increase or (Decrease)
	Utility Operating Income			
400	Sales Revenue	1,688,175	1,796,286	(108,111)
474	Other Water Revenue	11,144	10,403	741
	Total Operating Revenue	**1,699,319**	**1,806,689**	(107,370)
401	Operating Expenses	708,427	899,065	(190,638)
402	Maintenance Expenses	152,811	161,353	(8,542)
403	Depreciation Expenses	396,776	362,680	34,096
402	Taxes	275,725	272,408	3,317
	Total Operating Expenses	**1,533,740**	**1,695,506**	(161,766)
	Utility Operating Income	**165,579**	**111,184**	54,395
	Other Income & Expense			
415	Non-operating Grant Revenue	10,000	5,000	5,000
416	Non-operating Grant Expense	(10,000)	(5,000)	(5,000)
419	Interest Earned on Investments	14,578	17,938	(3,360)
421	Contributions	-	-	0
425	Misc Amortization	6,283	6,283	0
427	Bond Interest Expense	(79,241)	(79,739)	497
428	Other Expense	-	-	0
429	Bond Premium	8,218	8,218	0
	Net Income	**115,417**	**63,885**	51,533

HIGH LIFT DELIVERY QUARTERLY REPORT 2020

I. FIRST QUARTER	Jan - Feb - Mar			
		GALLONS	COST $	$/MG
	2019	1,111,503,000	$217,156.22	$195.37
	2020	1,061,714,000	$197,921.94	$186.42
	Percent Difference	-4.48%	-8.86%	-4.58%

II. SECOND QUARTER	Apr - May - Jun			
		GALLONS	COST $	$/MG
	2019	1,132,902,000	$192,754.83	$170.14
	2020	0	$0.00	#DIV/0!
	Percent Difference	-100.00%	-100.00%	#DIV/0!

III. THIRD QUARTER	Jul - Aug - Sep			
		GALLONS	COST $	$/MG
	2019	1,240,316,000	$202,724.19	$163.45
	2020	0	$0.00	#DIV/0!
	Percent Difference	-100.00%	-100.00%	#DIV/0!

IV. FOURTH QUARTER	Oct - Nov - Dec			
		GALLONS	COST $	$/MG
	2019	1,040,997,000	$204,391.07	$196.34
	2020	0	$0.00	#DIV/0!
	Percent Difference	-100.00%	-100.00%	#DIV/0!

YEAR TO DATE : 2020				
		GALLONS	**COST $**	**$/MG**
	2019	**4,525,718,000**	**$817,026.31**	**$180.53**
ELECTRICITY **CHEMICALS** **NATURAL GAS**	**2020**	**1,061,714,000**	**$197,921.94**	**$186.42**
	Percent Difference	**-76.54%**	**-75.78%**	**3.26%**

YEAR TO DATE : 2020			
		GALLONS	**COST $**
	2019	**5,430,249**	**$38,471.09**
SLUDGE DISPOSAL	**2020**	**1,102,050**	**$4,097.81**
	Percent Difference	**-79.71%**	**-89.35%**
STORM WATER CHARGES	**2020**	**NA**	**$0.00**

HIGH LIFT SYSTEM DELIVERY :

Maximum Pumpage Day	14,289,000	January 17, 2020
Minimum Pumpage Day	8,396,000	January 1, 2020

	MG	**$**	**$/MG**
2019	4,525,718,000	$817,026.31	$180.53
2020	1,061,714,000	$197,921.94	$186.42

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.

City of Sheboygan
spirit on the lake Water Utility

Sheboygan Water Utility
Quarterly Financial Statement March 31, 2020
Balance Sheet Including Net Income

Account #		Debit Balance	Credit Balance
	Utility Plant in Service	72,536,033	
107	Construction Work in Progress	263,128	
111	Accumulated Provision for Depreciation of Utility Plant		23,465,174
125	Bond Redemption Fund	706,627	
129	Appropriated Funds Invested for Plant Expansion & Payables		
126	Depreciation Fund		
128	Other Special Funds - Net Pension Asset		
128	Other Special Funds - Health Ins		
130	Other Special Funds - Deferred Outflow Pension	1,262,190	
135	Working Funds	750	
136	Temporary Cash Investments	8,323,936	
142	Customer Accounts Recievable	855,401	
143	Grant Receivable	14,397	
145	Receivables from Municipality	466,931	
154	Materials and Supplies	268,022	
163	Stores Expense		
165	Prepayments	32,778	
171	Interest and Dividends Receivable		
181	Misc Deferred Debits		
184	Transportation Expense		
200	Capital Paid in by Municipality		1,640,701
216	Unappropriated Earned Surplus		44,668,496
221	Long Term Debt Bonds		11,437,253
223	Advances from Municipality		152,173
232	Accounts Payable		
235	Customer Deposits		
236	Taxes Accrued		870,363
237	Interest Payable on Bonds		132,280
242	Misc. Current & Accrued Liab		7,694
251	Bond Premium		256,355
253	Misc Deferred Credits		94,205
263	Other Special Funds Employee Pensions		
265	Accrued Employee Benefits		510,959
425	Amoritization of Pre 2003 Depreciation		
280	Net Pension Liability		727,715
285	Deferred Inflow - Pension		651,408
	Utility Net Income		115,417
		84,730,192	84,730,192

R. O. No. 03 - 31 - 20. By BOARD OF WATER COMMISSIONERS. May 18, 2020.

We, hereby, submit the Board of Water Commissioners' Report on the Water Utility for the first quarter of 2020.

The water pumpage was down 4.58% from the same period in 2019. 1,061,714,000 gallons were pumped in the first quarter 2020, compared to 1,111,503,000 in 2019.

Year to date Operating Revenue at the end of the first quarter 2020 decreased by $107,370 compared to year to date 2019. The net income for the Utility, as of the end of March, 2020 is $115,417. Details are shown on the attached Income Statement and Balance Sheet.

Construction-Maintenance:

Construction-maintenance work by the Water Utility during the first quarter of 2020:

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	0.0
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	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	7
Number of fire hydrants installed, replaced, relocated, removed, flushed, or major repairs made....	2
Number of water main valves installed, repaired, removed, or replaced	7
Number of water service connections installed	6

Details are shown on the attached spreadsheets.

Other Utility Business:

The Utility began preliminary engineering design work on its raw water improvements project with CDM Smith and Donohue & Associates. Alternative funding plans were also reviewed, including issuance of a Bond Anticipation Note intended to fund engineering costs.

The Utility also completed plans for installation of a solar energy system on its maintenance garage roof.

BOARD OF WATER COMMISSIONERS

_____
Gerald R. Van De Kreeke, President

_____
Mark J. Smith, Secretary

_____
Thomas E. Howe, Member

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