AGENDA
NORTH SHORE WATER COMMISSION

400 West Bender Road
Glendale, WI 53217
Wednesday, June 13, 2018
8:00 A.M.

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1. Call to order by the Chair.

2. Approval of the minutes of the May meeting.

3. Monthly report of plant operations.

4. Discussion of annual operating budget.

5. Approval of monthly bills.

6. Status report of current capital projects. Action may be taken to approve capital expenditures pertaining to the projects and authorize payment to vendors.

7. Discussion of proposals for replacing the roof and siding of the garage. Action may be taken to accept a proposal.

8. Discussion of lead and copper testing scheduled for this summer and the latest update from the Department of Natural Resources.

9. Discussion of a draft proposal from Clark Dietz regarding a phosphate optimization study.

10. Manager's report.

11. Date and time of the next regular Commission Meeting.

12. Adjournment.

MINUTES OF THE
NORTH SHORE WATER COMMISSION
MEETING OF WEDNESDAY, MAY 9, 2018

A meeting of the North Shore Water Commission was held at the Filtration Plant, 400 West Bender Road, Glendale, Wisconsin on Wednesday, May 9, 2018.

Meeting was called to order at 8:05 A.M. by Mr. Botcher.

Annual rotation of office: Glendale, Chair; Whitefish Bay, Secretary; Fox Point, Member & Fiscal Agent. Ms. Reiss chaired the meeting following the rotation of office.

Present: Rachel Reiss, Chair (Glendale); John Edlebeck, Secretary (Whitefish Bay); Scott Botcher, Member (Fox Point); Charlie Imig, Alternate (Glendale)

Also present: Eric Kiefer, Plant Manager & Recording Secretary

MINUTES

It was moved by Mr. Botcher, seconded by Mr. Edlebeck, and unanimously carried to approve the minutes for the meeting held April 11, 2018.

MONTHLY REPORT OF PLANT OPERATIONS

Mr. Kiefer provided the Commission with a report regarding plant operations. During his discussion, he mentioned that pumpage is lower this May than last year May. The report was placed on file without any motion.

ANNUAL OPERATING BUDGET

Mr. Kiefer presented the monthly financial reports, and they were put on file without motion.

MONTHLY BILLS

It was moved by Mr. Botcher, seconded by Mr. Edlebeck, and unanimously carried that the following payments be approved and authorization was given to the Fiscal Agent to make such payments.

Vendor	**Amount**
Amber Gerdman (reimb: certification test)	$25.00
Atsou-Tse Koffi-Kutodzo (reimb: mileage and conference fee)	$141.71
BMO Harris Bank (credit card - General Fund)	$641.68
-- Amazon (cFast card, 32 GB): $62.84	
-- AT&T (monthly charge for internet): $59.18	
-- ePlastics (UHMW tube): $369.60	
-- Google (monthly charge for Google Suite Basic): $54.15	
-- Straight Talk (monthly cell phone charges): $45.90	

-- USPS (stamps): $50.00	
Brentwood (chain for basins)	$3,152.63
Diversified Benefit Services (Section 125 Plan administration)	$95.00
Duane Ziege (reimb: mileage)	$26.71
Eurofins (compliance monitoring)	$380.00
Fuchs & Boyle (legal service)	$312.00
Gielow's Lawn and Garden (Toro lawn tractor maintenance items)	$256.65
Grainger (custodial supplies, tape, sandpaper, bottles, gloves, lab supplies, plumbing supplies, hardware, and recirc pump maintenance items)	$548.82
Great America (lease payment for copier/printer)	$100.00
Hawkins (treatment chemicals: aqueous ammonia and phosphate)	$2,454.26
Idexx (collection vessels, Colilert growth media, and quantitrays)	$3,334.30
Journal Sentinel (publish annual water quality report)	$990.97
LAI (sludge pump repair parts)	$505.40
Northern Lake Services (compliance monitoring)	$69.02
Office Copying Equipment (maintenance payment for copier/printer)	$25.53
Olin (treatment chemical: sodium hypochlorite)	$2,782.36
Redford Data Services (support agreement - approved April meeting)	$11,850.00
Rotroff Jeanson (accounting services)	$1,608.00
Securian / Minnesota Life (employee life insurance)	$128.92
Spanning Cloud Apps (Google backup services)	$420.00
Spectrum Business (internet services, Bender phone, and Klode phone)	$525.95
Starnet Technologies (NCC data charges)	$300.00
Superior Chemical (custodial supplies)	$128.27
T-Mobile (mobile internet)	$31.05
UPS Store (shipping charges for compliance monitoring)	$325.22
US Cellular (cell phone)	$4.75
Village Ace Hardware (grass seed)	$20.69
Village of Fox Point (gasoline)	$56.30
Village Outdoor Living (oil filter)	$10.79
We Energies (Bender Electric)	$13,113.62
We Energies (Bender Gas)	$1,315.70
We Energies (Green Tree Electric)	$15.98
We Energies (Henry Clay Electric)	$16.91
We Energies (Klode Electric)	$3,413.96
We Energies (Klode Gas)	$14.67
Wilkens-Anderson (Petri dishes)	$91.00
Wisconsin Dept of Revenue (business tax registration renewal)	$10.00
Wisconsin State Lab of Hygiene (fluoride analysis)	$25.00
SUB-TOTAL	$49,268.82

Capital Fund

SUB-TOTAL	$0.00
TOTAL	$49,268.82

CAPITAL PROJECTS

Mr. Kiefer explained that plant staff performed minor work on the filter upgrade project and purchased needed supplies. He also explained that more items were purchased for the SCADA upgrade project and some effort was put toward setting up the alarming system on the new SCADA system.

It was moved by Mr. Edlebeck, seconded by Mr. Botcher, and unanimously carried to approve the payment request for the Filter Improvement Project in the amount of $677.04 and the payment request for the SCADA Upgrade Project in the amount of $1,820.09 as per Mr. Kiefer's memos dated May 9, 2018.

LEAD AND COPPER TESTING UPDATE

Mr. Kiefer provided the Commission with a memo and copies of emails received from the Wisconsin Department of Natural Resources (WDNR). He explained that WDNR has notified the Commission that its monitoring requirement will go from 30 samples to 80 samples this summer. Furthermore, he explained that after this summer, all of the lead and copper monitoring requirements will be taken off the monitoring requirements for the Commission and placed onto each utility.

Mr. Kiefer explained the details of said monitoring and provided some background information about the lead and copper rule.

Mr. Edlebeck asked questions about how to fill out the WDNR forms. Mr. Kiefer answered as many questions as he could. Some questions could not be answered, and Mr. Kiefer indicated that he will contact the WDNR for guidance.

One of the biggest concerns expressed by Mr. Edlebeck, and the other Commissioners, had to do with copper-with-lead-solder Tier 1 sample sites. Should they be eliminated from the monitoring plan or not?

Mr. Kiefer announced that Clark Dietz is willing and able to provide assistance with this project. In particular, he stated that Clark Dietz could help each utility with identifying sample sites and completing the WDNR paperwork required for each.

The Commission asked if Mr. Kiefer had any cost estimates for the services to be performed by Clark Dietz. He did not. Because of the accelerated schedule, any services will be billed on a time-and-material basis.

Mr. Kiefer also mentioned the need for the Commission to re-evaluate its lead and copper corrosion program. Although it was optimized in 2008, recent email from WDNR claims most water utilities are not feeding enough phosphate to reduce lead release in home with lead services. Consequently, Mr.

Kiefer believes the Commission should review its lead and copper corrosion strategy as soon as possible. He stated that he will be working with Clark Dietz in getting a proposal put together for the July meeting.

At this time, no action was taken by the Commission.

MANAGER'S REPORT

1. Plant staff repaired all of the broken chains for the sludge collection systems in basins #1, #2, and #3.
2. Plant staff replaced the lab clearwell and tap water sample lines.
3. Plant staff is removing rust on filter drain piping and is preparing to apply primer and paint to those areas.
4. Plant staff replaced a fan inside high service pump #4 variable frequency drive.
5. Plant staff responded to several power outages on April 14, 2018.
6. Plant staff replace the Glendale master magmeter with a calibrated spare meter on May 8, 2018.

NEXT MEETING

The next regular meeting was scheduled for Wednesday, June 13, 2018 at 8:00 AM.

ADJOURNMENT

It was moved by Mr. Botcher, seconded by Mr. Edlebeck, and unanimously carried to adjourn at 8:40 A.M.

Submitted by:

5/10/2018

Eric Kiefer, Plant Manager and Recording Secretary — Date

NORTH SHORE WATER COMMISSION

Monthly Summary of Operations

Month of May, 2018

6/8/2018

	WFB.	GLE.	FPT.	MEQ	Totals
M.G. Metered at Plant	31.674	45.247	28.555	0.000	105.476
M.G. Milwaukee Interconnect	0.000	0.000	0.000	0.000	0.000
M.G. Metered in System	-0.558	4.877	-11.669	7.350	0.000
M.G. Charged to Members	31.116	50.124	16.886	0.000	98.126
M.G. Charged to All Users	31.116	50.124	16.886	7.350	105.476
M.G. Same Month Last Year (Members)	30.675	47.251	16.041	6.799	93.967
M.G. Same Month Last Year (All)	30.675	47.251	16.041	6.799	100.766
Accumulated M.G.	143.285	223.145	74.730	33.238	474.398
Accumulated M.G. Last Year	142.984	229.514	71.006	33.098	476.602
Accumulated % of Total Pumped	30.20%	47.04%	15.75%	7.01%	100.00%
Monthly % of Total Pumped	29.50%	47.52%	16.01%	6.97%	100.00%
Accumulated % Pumped of Members	32.48%	50.58%	16.94%		100.00%
Monthly % Pumped of Members	31.71%	51.08%	17.21%		100.00%
Average Daily Pumpage in M.G.	1.004	1.617	0.545	0.237	3.402

	May 2018	May 2017
Maximum Day Pumpage (MG)	4.200	3.545
Date of Max. Pumpage (Day)	28	17
Maximum Flow Rate (MGD)	7.535	5.222
Date of Max Flow (Day)	31	24
Hour of Max Flow (24 Hour Clock)	7	22
Average Station Pressure (PSI)	83.5	83.5
Avg. Total Cl Residual (mg/L) - Tap	2.71	2.83
Raw Water Temperature (F) - Max	47	48
Raw Water Temperature (F) - Ave	44	45
Raw Water Temperature (F) - Min	41	42
Tap Hardness (mg/L as CaCO3) - Max	140	142
Tap Hardness (mg/L as CaCO3) - Ave	137	136
Tap Hardness (mg/L as CaCO3) - Min	134	132

	May 2018	May 2017
Bender On-Peak Consumption (KWH)	57,230	52,001
Bender Off-Peak Consumption (KWH)	117,647	109,957
Klode On-Peak Consumption (KWH)	14,744	14,356
Klode Off-Peak Consumption (KWH)	30,070	29,448
Electrical Charge / KWH	$0.08407	$0.08784
KWH / M.G.	2,083	2,042
$ / M.G.	$175.11	$179.38

	May 2018		May 2017	
Chemicals Applied	mg/L	$/MG	mg/L	$/MG
Ammonium Hydroxide (act. lbs)	0.735	$7.75	0.863	$9.08
Sodium Hypochlorite (act. lbs)	3.440	$16.90	3.558	$17.10
Fluoride (act. lbs)	0.782	$4.69	0.770	$6.16
Alum (scale lbs)	8.588	$7.75	10.492	$4.81
Mussel Control (scale lbs)	0.379	$3.51	0.000	$0.00
Phosphates (act lbs)	0.793	$8.69	0.742	$8.51
Cationic Polymer (scale lbs)	0.942	$5.11	0.807	$4.37
Total Chemical Cost		$54.40		$50.03

	*May 2018		May 2017	
Water Metering	M.G.	% Diff.	M.G.	% Diff.
Corrected High Service (Filters)	103.624	-1.8	100.810	0.0
Communities	105.476		100.766	

**Plant staff is in process of repairing several filer flow meters.*

NORTH SHORE WATER COMMISSION

Income Statement

For the Four Months Ending April 30, 2018

		Current Month	Current Month Budget	Year to Date Actual	Year to Date Budget	Variance Budget to Actual
Operating Revenues						
Sales for Resale						
466.01	Glendale-Operations	$ 52,682.98	$ 52,682.98	$ 210,731.92	$ 210,731.91	0.01
466.02	Whitefish Bay-Operations	32,664.88	32,664.88	130,659.52	130,659.52	0.00
466.03	Fox Point-Operations	16,889.64	16,889.64	67,558.56	67,558.56	0.00
466.05	Wholesale Water Sales	5,997.69	6,666.67	23,881.68	26,666.68	(2,785.00)
	Sales for Resale	108,235.19	108,904.17	432,831.68	435,616.67	(2,784.99)
Other Operating Revenue						
474.00	Lab Services Income	840.00	0.00	2,850.00	0.00	2,850.00
	Total Operating Income	109,075.19	108,904.17	435,681.68	435,616.67	65.01
Operation and Maintenance Expenses						
Source of Supply						
600.00	Operation Supvsn & Engnrg	71.91	70.58	304.12	282.32	21.80
601.00	Operations Labor & Expenses	135.00	120.08	489.22	480.32	8.90
602.01	Purchased Water	0.00	815.50	1,350.00	3,262.00	(1,912.00)
603.00	Miscellaneous Expenses	3.94	69.75	60.24	279.00	(218.76)
610.00	Maint Supervisn & Engrng	137.78	138.41	560.65	553.64	7.01
611.00	Maint of Structures & Imprvmnt	135.00	120.08	489.22	480.32	8.90
613.00	Maint. of Crib & Wet Well	0.00	391.50	0.00	1,566.00	(1,566.00)
617.00	Maint of Mis Water Source Plnt	0.00	0.00	133.58	0.00	133.58
	Total Source of Supply Expenses	483.63	1,725.90	3,387.03	6,903.60	(3,516.57)
Pumping Expenses						
620.00	Operations Supvsn & Engrg	1,408.02	1,328.67	5,844.10	5,314.68	529.42
621.00	Fuel for Power Production	1,315.70	304.92	2,080.37	1,219.68	860.69
623.00	Fuel/Power Purchased for Pmpng	16,575.14	20,123.50	67,657.99	80,494.00	(12,836.01)
624.00	Pumping Labor & Expenses	11,198.91	11,542.75	43,033.30	46,171.00	(3,137.70)
626.00	Miscellaneous Expenses	1,254.70	2,448.50	8,167.54	9,794.00	(1,626.46)
630.00	Maint Supervisn & Engrng	688.90	743.75	2,803.16	2,975.00	(171.84)
631.00	Maint of Structures & Imprvmnt	1,020.66	1,385.17	3,609.70	5,540.68	(1,930.98)
632.00	Maint of Power Prod Eqpt	0.00	338.33	0.00	1,353.32	(1,353.32)
633.00	Maint of Pumping Eqpt	1,258.98	2,983.17	8,255.81	11,932.68	(3,676.87)
	Total Pumping Expenses	34,721.01	41,198.76	141,451.97	164,795.04	(23,343.07)
Water Treatment Expenses						
640.00	Operation Suprvsn & Engrng	1,408.02	1,325.75	5,844.10	5,303.00	541.10
641.00	Chemicals	2,454.26	7,121.67	16,045.97	28,486.68	(12,440.71)
642.00	Operation Labor & Expenses	12,913.31	16,304.75	54,789.14	65,219.00	(10,429.86)
643.00	Miscellaneous	1,254.64	2,506.67	7,802.33	10,026.68	(2,224.35)
650.00	Maint Supervision & Engrng	359.55	332.25	1,520.47	1,329.00	191.47
651.00	Maint of Structures & Imprvmnt	1,020.66	1,093.58	3,609.70	4,374.32	(764.62)
652.00	Maint of Water Treatment Equip	9,155.77	7,872.08	28,255.50	31,488.32	(3,232.82)
	Total Water Treatment Expenses	28,566.21	36,556.75	117,867.21	146,227.00	(28,359.79)

NORTH SHORE WATER COMMISSION

Income Statement

For the Four Months Ending April 30, 2018

		Current Month	Current Month Budget	Year to Date Actual	Year to Date Budget	Variance Budget to Actual
Transmission & Distribution Expenses						
660.00	Operation Supvsn & Engrng	137.78	130.08	560.65	520.32	40.33
661.00	Storage Facilities Expenses	135.00	120.08	489.23	480.32	8.91
670.00	Maint Supervisn & Engnrng	71.91	70.58	304.12	282.32	21.80
	Total Trans. & Distribution Expense	344.69	320.74	1,354.00	1,282.96	71.04
Customer Acounts Expenses						
906.00	Customer Service & Infor Exps	71.91	70.58	304.12	282.32	21.80
	Total Customer Accounts Expenses	71.91	70.58	304.12	282.32	21.80
Administration & General Expenses						
408.00	FICA Taxes	3,067.25	3,249.50	11,836.56	12,998.00	(1,161.44)
920.00	Admin & General Salaries	2,876.44	3,028.50	12,163.72	12,114.00	49.72
921.00	Office Supplies & Expenses	1,499.84	1,600.42	5,866.16	6,401.68	(535.52)
923.00	Outside Services Employed	1,381.00	6,469.83	28,057.71	25,879.32	2,178.39
924.00	Prop & P.L. Insurance	0.00	1,924.75	0.00	7,699.00	(7,699.00)
925.00	Injuries & Damages	0.00	3,071.17	174.00	12,284.68	(12,110.68)
926.00	Employee Pensions & Benefits	9,105.11	10,170.83	36,369.30	40,683.32	(4,314.02)
930.00	Miscellaneous General Expenses	1,041.17	659.92	5,318.50	2,639.68	2,678.82
932.00	Maintenance of General Plant	0.00	89.83	0.00	359.32	(359.32)
	Total Adm. & General Expenses	18,970.81	30,264.75	99,785.95	121,059.00	(21,273.05)
	Total Operations & Maintenance	83,158.26	110,137.48	364,150.28	440,549.92	(76,399.64)
	Net Operating Income	25,916.93	(1,233.31)	71,531.40	(4,933.25)	76,464.65
Nonoperating Income and Expense						
419.00	Interest Income	53.96	66.67	195.43	266.68	(71.25)
421.00	Misc Income	0.00	1,166.66	500.00	4,666.64	(4,166.64)
	Net Income	$ 25,970.89	$ 0.02	$ 72,226.83	$ 0.07	72,226.76

NORTH SHORE WATER COMMISSION

Income Statement

For the One Month and the Four Months Ended April 30, 2018 and 2017

		Current Month	Prior Year Month	Year to Date Actual	Prior YTD Date Actual
Operating Revenues					
Sales for Resale					
466.01	Glendale-Operations	$ 52,682.98	$ 52,728.60	$ 210,731.92	$ 210,914.40
466.02	Whitefish Bay-Operations	32,664.88	32,129.57	130,659.52	128,518.28
466.03	Fox Point-Operations	16,889.64	17,726.66	67,558.56	70,906.64
466.05	Wholesale Water Sales	5,997.69	5,142.96	23,881.68	23,999.49
	Sales for Resale	108,235.19	107,727.79	432,831.68	434,338.81
Other Operating Revenue					
474.00	Lab Services Income	840.00	720.00	2,850.00	2,880.00
	Total Operating Income	109,075.19	108,447.79	435,681.68	437,218.81
Operation and Maintenance Expenses					
Source of Supply					
600.00	Operation Supvsn & Engnrg	71.91	72.73	304.12	270.18
601.00	Operations Labor & Expenses	135.00	136.98	489.22	479.09
602.01	Purchased Water	0.00	0.00	1,350.00	1,350.00
603.00	Miscellaneous Expenses	3.94	0.00	60.24	0.00
610.00	Maint Supervisn & Engrng	137.78	144.39	560.65	525.32
611.00	Maint of Structures & Imprvmnt	135.00	136.98	489.22	479.09
617.00	Maint of Mis Water Source Plnt	0.00	0.00	133.58	79.61
	Total Source of Supply Expenses	483.63	491.08	3,387.03	3,183.29
Pumping Expenses					
620.00	Operations Supvsn & Engrg	1,408.02	1,449.16	5,844.10	5,327.98
621.00	Fuel for Power Production	1,315.70	345.59	2,080.37	1,429.86
623.00	Fuel/Power Purchased for Pmpng	16,575.14	17,040.62	67,657.99	68,683.20
624.00	Pumping Labor & Expenses	11,198.91	9,015.15	43,033.30	36,309.83
626.00	Miscellaneous Expenses	1,254.70	1,470.07	8,167.54	7,834.42
630.00	Maint Supervisn & Engrng	688.90	721.91	2,803.16	2,626.41
631.00	Maint of Structures & Imprvmnt	1,020.66	1,011.44	3,609.70	3,514.97
632.00	Maint of Power Prod Eqpt	0.00	2,460.78	0.00	2,460.78
633.00	Maint of Pumping Eqpt	1,258.98	7,340.80	8,255.81	12,227.13
	Total Pumping Expenses	34,721.01	40,855.52	141,451.97	140,414.58

NORTH SHORE WATER COMMISSION

Income Statement

For the One Month and the Four Months Ended April 30, 2018 and 2017

		Current Month	Prior Year Month	Year to Date Actual	Prior YTD Date Actual
Water Treatment Expenses					
640.00	Operation Suprvsn & Engrng	1,408.02	1,449.13	5,844.10	5,327.95
641.00	Chemicals	2,454.26	3,576.10	16,045.97	17,809.37
642.00	Operation Labor & Expenses	12,913.31	14,559.18	54,789.14	53,471.98
643.00	Miscellaneous	1,254.64	1,470.23	7,802.33	7,683.41
650.00	Maint Supervision & Engrng	359.55	363.62	1,520.47	1,350.79
651.00	Maint of Structures & Imprvmnt	1,020.66	1,011.44	3,609.70	3,514.97
652.00	Maint of Water Treatment Equip	9,155.77	8,142.27	28,255.50	24,140.09
	Total Water Treatment Expenses	28,566.21	30,571.97	117,867.21	113,298.56
Transmission & Distribution Expenses					
660.00	Operation Supvsn & Engrng	137.78	144.39	560.65	525.32
661.00	Storage Facilities Expenses	135.00	136.98	489.23	479.09
670.00	Maint Supervisn & Engnrng	71.91	72.73	304.12	270.18
	Total Trans. & Distribution Expenses	344.69	354.10	1,354.00	1,274.59
Customer Acounts Expenses					
906.00	Customer Service & Infor Exps	71.91	72.73	304.12	270.18
	Total Customer Accounts Expenses	71.91	72.73	304.12	270.18
Administration & General Expenses					
408.00	FICA Taxes	3,067.25	2,754.21	11,836.56	10,711.06
920.00	Admin & General Salaries	2,876.44	2,908.99	12,163.72	10,806.31
921.00	Office Supplies & Expenses	1,499.84	1,711.97	5,866.16	6,004.55
923.00	Outside Services Employed	1,381.00	4,719.50	28,057.71	47,601.49
925.00	Injuries & Damages	0.00	0.00	174.00	335.00
926.00	Employee Pensions & Benefits	9,105.11	8,042.48	36,369.30	34,118.87
930.00	Miscellaneous General Expenses	1,041.17	734.65	5,318.50	5,038.47
	Total Adm. & General Expenses	18,970.81	20,871.80	99,785.95	114,615.75
	Total Operations & Maintenance	83,158.26	93,217.20	364,150.28	373,056.95
	Net Operating Income	25,916.93	15,230.59	71,531.40	64,161.86
Nonoperating Income and Expense					
419.00	Interest Income	53.96	24.70	195.43	95.16
421.00	Misc Income	0.00	1,540.00	500.00	1,540.00
	Net Income	$ 25,970.89	$ 16,795.29	$ 72,226.83	$ 65,797.02

NORTH SHORE WATER COMMISSION
Balance Sheet
April 30, 2018 and 2017

Account	Description		Current Year	Prior Year
Assets and Other Debits				
Cash				
131.01	Checking-BMO Harris	$	292,345.42	279,175.37
131.02	Pay Pal Account		2,045.51	545.46
131.09	Petty Cash		50.00	50.00
132.01	Checking-Waterstone Bank		200,000.00	0.00
135.01	LGIP - Emergency Fund		25,463.08	25,173.30
	Total Cash		519,904.01	304,944.13
142.00	Accounts Receivable		15,165.19	14,150.16
143.00	Other Receivables		0.00	1,210.00
154.05	Storm Water Testing Inventory		295.84	274.59
165.00	Prepayments		7,465.92	6,524.52
174.01	Due (to)/from Capital Fd		(235,353.66)	(82,785.39)
	Total Assets & Other Debits	$	307,477.30	244,318.01
Liabilities and Other Credits				
Liabilities				
232.00	Accounts Payable	$	45,959.11	51,893.50
233.00	Payable to Municipalities		2,523.30	2,389.54
234.00	Credit Card Payable-BMO Harris		541.62	56.84
236.01	Federal & FICA Taxes Payable		0.00	(35.30)
	Sect125 Payable		1,088.00	896.00
242.07	Payroll Liabilities		973.86	880.24
242.09	Wages Payable		23,750.45	18,881.46
242.10	Accrued Payroll Taxes		1,816.91	1,444.43
	Total Liabilities		76,653.25	76,406.71
Earned Surplus				
Unappropriated Earned Surplus: Beginning of Year				
215.00	Unassigned		51,405.22	52,114.28
	Unappropriated Earned Surplus		51,405.22	52,114.28
Appropriations of Surplus for:				
215.99	Emergencies		25,000.00	25,000.00
216.99	Contigencies		25,000.00	25,000.00
217.99	Compensated Abscenses		57,192.00	0.00
	Total Appropriations of Surplus		107,192.00	50,000.00
Balance Transferred from Income				
	Net Income		72,226.83	65,797.02
	Total Earned Surplus		230,824.05	167,911.30
	Total Liabilities & Other Credits	$	307,477.30	244,318.01

NORTH SHORE WATER COMMISSION
Capital Fund Activity
For the Four Months Ending April 30, 2018 and 2017

			Current Month	Year to Date This Year	Current YTD Budget	PY Current Mo.	PY Year to Date
Capital Contributions from Members							
40-421.0	Glendale Charges for Plant	$	1,202.87	18,435.00	30,069.49	0.00	17,590.45
40-421.0	Whitefish Bay Charge for Pla		828.05	12,690.56	20,699.68	0.00	12,109.19
40-421.0	Fox Point Charges for Plant		466.21	7,145.14	11,654.52	0.00	6,817.80
	Total Capital Contributions		2,497.13	38,270.70	62,423.69	0.00	36,517.44
Other Funding Sources							
40-466.0	Wholesale Water Sales		5,564.20	21,719.98	0.00	5,097.66	21,638.70
40-419.0	Interest		824.94	2,868.26	0.00	306.89	1,112.99
	Other Funding Sources		6,389.14	24,588.24	0.00	5,404.55	22,751.69
	Total Funding Sources		8,886.27	62,858.94	62,423.69	5,404.55	59,269.13
Utility Plant Expenditures							
Source of Supply							
			0.00	0.00	0.00	0.00	0.00
Pumping Plant							
			0.00	0.00	0.00	0.00	0.00
Water Treatment Plant							
40-332	Sand or Media Filtration Equ		1,199.20	31,103.55	34,282.68	0.00	0.00
40-334	Other Water Treatment Equi		0.00	0.00	0.00	0.00	3,326.24
			1,199.20	31,103.55	34,282.68	0.00	3,326.24
Tranmission & Distribution Plant							
			0.00	0.00	0.00	0.00	0.00
General Plant							
40-394	Tools, Shop & Garage Eqpt-		0.00	0.00	3,333.32	0.00	0.00
40-397.1	SCADA Equipment		1,048.21	6,367.15	24,807.68	18.29	32,686.57
			1,048.21	6,367.15	28,141.00	18.29	32,686.57
	Total Utility Plant Expenditu		2,247.41	37,470.70	62,423.68	18.29	36,012.81
Sources of Funding							
	Over (Under) Expenditures	$	6,638.86	25,388.24	0.01	5,386.26	23,256.32

NORTH SHORE WATER COMMISSION
Capital Fund - Plant Assets and Contributed Capital
April 30, 2018 and 2017

Account	Description		Current Year	Prior Year
Assets				
40-131.00	Savings	$	579,475.58	572,880.48
40-142.00	Receivable for Asset Additions		16,391.85	17,590.45
40-174.01	Due (to)/from Operations		235,353.66	82,785.39
	Total Assets	$	831,221.09	673,256.32
Liabilities and Contributed Capital				
Liabilities				
40-232.00	Accounts Payable Utility Plant	$	1,002.85	0.00
	Total Liabilities		1,002.85	0.00
Contributed Capital				
Reserve Balances:				
40-215.01	Glendale Plant Reserve		387,685.38	313,103.78
40-215.02	Whitefish Bay Plant Reserve		266,883.03	215,541.42
40-215.03	Fox Point Plant Reserve		150,261.59	121,354.80
	Total Reserve Balances		804,830.00	650,000.00
Current Year Capital Contributions and Other Funding Sources				
	Over (Under) Expenditures		25,388.24	23,256.32
	Net Contributions to Capital		830,218.24	673,256.32
	Total Liabilities & Contributed Capital	$	831,221.09	673,256.32

NORTH SHORE WATER COMMISSION
Storm Water Income Statement
For the Four Months Ending April 30, 2018

	Current Month		Year to Date	
Total Revenues	0.00	0.00	0.00	0.00
Expenses				
	0.00	0.00	0.00	0.00
Revenues				
Net Income	$ 0.00	0.00	$ 0.00	0.00

BILLS TO BE APPROVED AT COMMISSION MEETING OF	**6/13/2018**
American Bolt (nuts, bolts, and washers)	$413.23
BMO Harris Bank (credit card - General Fund)	$1,033.06
-- Amazon (bags, hangers, labels): $60.07	
-- AT&T (monthly charge for internet): $59.19	
-- eBay | google (Google Mini Home): $2.74	
-- eBay | jaycoaeds (AED, Philips Heartstart): $687.00	
-- Google (monthly charge for Google Suite Basic): $54.16	
-- Siteground (website hosting, domain ID protection): $24.00	
-- Straight Talk (monthly cell phone charges): $45.90	
-- USPS (stamps): $100.00	
Chemtrade (treatment chemical: alum)	$2,981.11
Concentra (pre-employment testing)	$174.00
Department of Natural Resources (water use fee -- Great Lakes)	$6,182.00
Diversified Benefit Services (Section 125 Plan administration and mailings)	$96.41
Eric Kiefer (reimbursement for ice, paper, and stamp)	$42.65
Eurofins (compliance monitoring)	$780.00
Falls Manufacturing (shaft fabrication for basin)	$1,418.55
Faust Company (backflow preventor testing and reporting)	$592.00
Fuchs & Boyle (legal service)	$253.50
Grainger (custodial supplies, expansion joint, knife, painting supplies, LED light fixture, trimmer line, electrical supplies, safety supplies, tape, lab supplies, grease, reagent water, davit crane, belts, and thermometer)	$2,272.45
Great America (lease payment for copier/printer)	$100.00
Hawkins (treatment chemicals: aqueous ammonia, phosphate, and polymer)	$4,416.88
Home Depot (plumbing supplies, threaded rod, and trimmer)	$266.38
Inductive Automation (Total Care Support for SCADA software)	$4,666.80
Modular Piping Supply (pipe)	$40.00
Mulcahy Shaw (reagents for Swan chlorine analyzer)	$702.20
Nalco (treatment chemical: mussel control polymer)	$1,996.89
North Shore Fire/Rescue (first aid, CPR, and bloodborne pathogen training)	$180.00
Northern Lake Services (compliance monitoring)	$68.00
Office Copying Equipment (maintenance payment for copier/printer)	$25.07
Quill (markers)	$79.90
Rotroff Jeanson (accounting services)	$1,040.00
Rowell Chemical (treatment chemical: fluoride)	$7,366.88
Sealco (mechanical seal replacement for sludge pump)	$463.75
Securian / Minnesota Life (employee life insurance)	$142.89
Spectrum Business (internet services, Bender phone, and Klode phone)	$525.95
Swanson Flo (valve actuator)	$4,338.76
T-Mobile (mobile internet)	$31.05
UPS Store (shipping charges for compliance monitoring)	$58.82

US Cellular (cell phone)		$4.25
USABluebook (hoses for chemical feed pump, primer, rust preventer, and paint)		$1,243.99
Village Ace Hardware (fountain paint, spray paint, and cleaner)		$129.83
Village of Fox Point (gasoline)		$144.39
We Energies (Bender Electric)		$14,390.50
We Energies (Bender Gas)		$331.88
We Energies (Green Tree Electric)		$17.60
We Energies (Henry Clay Electric)		$18.67
We Energies (Klode Electric)		$4,129.17
We Energies (Klode Gas)		$15.42
Wisconsin State Lab of Hygiene (fluoride analysis)		$25.00
	SUB-TOTAL	$63,199.88

Capital Fund

	SUB-TOTAL	$0.00
	TOTAL	$63,199.88

05/31/2018 Checking account balance - BMO Harris Main	$190,128.26
05/31/2018 Checking account balance - BMO Harris Secondary	$2,045.53
05/31/2018 Checking account - WaterStone Bank	$318,670.11
05/31/2018 Local Government Investment Pool balance (Capital Funds)	$580,364.32
05/31/2018 Local Government Investment Pool balance (Operating Reserve Funds)	$25,502.13

North Shore Water Commission
Payment Request
Filter Improvements (2018-1)
Eric Kiefer
June 13, 2018

Expenses pertaining to the filter improvements project were reviewed and approved by the Commission.

The Commission is requesting payment of $1,051.25 for expenses assigned to this capital improvement project. The proportionate costs for the respective municipalities are as follows:

Member	*Capital Rate**	*Amount Due*
Fox Point	*18.67%*	*$196.27*
Glendale	*48.17%*	*$506.39*
Whitefish Bay	*33.16%*	*$348.59*

Respectfully,

_____
Eric Kiefer

**Rates approved in Revised and Restated Agreement for Water Supply.*

North Shore Water Commission
Filter Improvements (2018-1)
Labor Assigned to Project
Eric Kiefer
June 13, 2018

Pay Period	Employee Name	Hours	Cost
05/25/2018 to 06/08/2018	Brooks Angell	13.50	434.65
05/25/2018 to 06/08/2018	Duane Ziege	15.00	534.08
TOTAL			$968.73

North Shore Water Commission
Filter Improvements (2018-1)
Invoices for Meeting
Eric Kiefer
June 13, 2018

Vendor	Invoice Number	Units	Qty	Description	Line Cost
Modular Piping Supply	INV034790	Item	31	Tubing Fittings, Polypropylene, Straight Adapter, 3/8 in OD x 1/4 in Male	30.38
Modular Piping Supply	INV035334	Item	31	Tubing Fittings, Polypropylene, Elbow, 90 Deg, 3/8 in OD x 1/4 in Male	43.09
Modular Piping Supply	INV035334	Shipment	1	Shipping and Handling	9.05
TOTAL					$82.52

North Shore Water Commission
Tabulation of Garage Repair Proposals
6/12/2018
Eric Kiefer

The Commission budgeted to replace the roof and siding on the garage located at our Bender facility. In brief, the scope of the project includes the following items.

- Tear off existing roof.
- Removal of old siding, molding, windows, soffit, and etc.
- Repair any damaged wood.
- Install new underlayment and shingles.
- Install new siding, soffits, windows, brick molding, and etc.
- Wrap fascia with aluminum.
- Dispose building materials and garbage from project.

Tabulation of said proposals are shown below.

Vendor	**Cost**
Ellenbecker's Exterior's LLC	$7,250.00
A Custom To, LLC	$9,926.00
Facility Services Group	$13,466.25

I recommend that the Commission accept the quotation from Ellenbecker's Exterior's LLC in the amount of $7,250.00. Funding to come from member communities using the current capital allocation rates.

Ellenbecker Exterior's LLC

Proposal to owner: North Shore Water Commission **Phone: 414-963-0160**

Address of property: 400 W. Bender Rd. **Date: 6-8-18**

Garage Work Contract

Garage roof consists of completely tearing off entire garage roof and disposing of all building materials.

Preparation of garage roof work consists of after all old existing roof is completely tore off we will correct and repair any and all rotting or water damaged wood described below. We will use a #30 tar paper as a protection against the elements before shingling your garage roof.

Lastly install your new shingles.

Garage Siding:

Garage siding work includes all preparation necessary to install vinyl siding purchased from Menards, an in stock brand, (owner chooses color).

Preparation before your new siding can be installed consists of the removal of all the old siding: building materials, molding, ECT. We make sure all weathered and or damaged wood is replaced new, that all surfaces are smooth, flat and straight before we begin your final siding. All caulking is included and we make sure your new siding is wiped down and cleaned before we leave.

Fascia and Soffit:

Fascia and soffit work includes all necessary preparation to insure a secure and weather tight job. Any minor carpentry, such as furring out boards, framing new, removing crown molding, or adding extra wood to any areas needed so we can secure our nails better is included.

Aluminum fascia work includes wrapping with matching aluminum (owner chooses color) approximately (115) feet of fascia for the entire house. Note: In certain areas we like to put an extra bend making sure that the aluminum looks great and does not have the wavy look to it. We also like to keep the crown molding bend like verses the box look

Aluminum soffit work includes installing matching aluminum (homeowner chooses color) approximately (115) feet of soffit for the entire house. We recommend using vented and non-vented aluminum soffit panels around your entire house. Usually we will install 1 vented soffit panel for every 4 non-vented soffit panels. Other cases we install more of the vented soffit verses non-vented. We take all your vents into consideration when planning out your job scope. In addition where the vented panels are installed we make sure that there is a wide opening cut into your existing soffit for maximum air flow ventilation. Each hole that is cut into your existing wood in most cases soffit we reach in a make sure there are no obstruction like birds nest, insulation and or other stuff that make obstruct your air flow.

Additional Work Requested:

Additional work requested is as the following described below:

1. Remove and replace any and all brick molding on the garage with new composite material brick molding, approximately 60 feet needed

2. Purchase and install 3 new slider windows, these are vinyl replacement windows custom order takes up to two weeks to get

Total cost of the entire job including all labor, materials, debris removal. $7,250.00

Ellenbecker Exteriors LLC gives a 12 year warranty, if recommendations are agreed to upon signed contract. Materials brand has their company warranty offered to the homeowner.

Payments can be issued in halves, thirds, or quarters with the final payment (completion payment) of the remaining balance upon completion and 100% satisfaction.

Thank you for choosing our company Ellenbecker Exteriors LLC.

If you have any question while the job is in progress please call John on his cell phone(262-470-TOOL) (8665) or email us at ellenbeckerexteriors@gmail.com

Thanks again, we won't let you down!

John Ellenbecker, President, member of Ellenbecker Exterior's LLC

_____

Plant Manager signature: _____

Date accepted by: _____

ClarkDietz

Engineering Quality of Life

June 7, 2018

Mr. Eric Kiefer
North Shore Water Commission
400 W Bender Road
Glendale, Wisconsin 53217

Re: Work Order Authorization for Engineering Services for
Chemical Feed Dosage Optimization Study

Dear Eric,

DRAFT

Following the renewed focus by the Wisconsin Department of Natural Resources on managing corrosion in lead service lines within the NSWC supplied distribution systems, we have prepared a proposal to provide technical and engineering assistance to the Commission in navigating the compliance landscape in the next 12 to 18 months.

We anticipate our work to consist of the following main tasks:

1- Identify WDNR requirements for the proposed Chemical Feed Optimization Study Plan.

2- Prepare a Preliminary Chemical Feed Optimization Study Plan.

3- Attend meetings with WDNR staff to review the preliminary plan and revise as needed

4- Prepare the Final Chemical Feed Optimization Study Plan.

5- Assist NSWC in implementing the Study according to Plan.

6- Prepare progress reports and submit to WDNR as per the Final Chemical Feed Optimization Study Plan.

7- At the conclusion of the Study, prepare the final report and submit to WDNR as per the Final Chemical Feed Optimization Study Plan.

8- Assist NSWC in implementing the optimized dosage and chemical

Project Schedule

We anticipate that Task items 1 through 4 would occur in 2018, Task items 5 and 6 would occur in 2019, and Task items 7 and 98 would likely conclude in 2020.

Proposed Fee

For work in performing Task items 1 through 4, we propose a professional service fee not to exceed $10,000. For work pertaining to Task items 5 through 8, we propose a professional service fee not to exceed $10,000.

Please sign below to signify your approval and acceptance of this proposal.

Sincerely,
Clark Dietz, Inc.

Mustafa Emir, PhD, PE
Senior Vice President

WORK ORDER APPROVAL

_____
Eric Kiefer

_____
Date

DRAFT

North Shore Water Commission
Manager's Report of Operations

Period: May 9 - June 12

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1. Plant staff verified the accuracy of all 3 master meters as well as all 3 interconnect meters.

2. North Shore Fire Department conducted CPR, first aid, and bloodborne pathogen training for plant staff.

3. The transfer switch associated with the Bender generator was not working properly. AC Engineering inspected our equipment and determined there was a problem with a breaker: the same breaker that was previously repaired by AC Engineering's subcontractor. AC Engineering replaced the problematic breaker with our spare. Plant staff is attempting to get said breaker repaired under warranty.

4. AC Engineering inspected our primary switchgear and transformers and switched them to alternate the active line.

5. The electric actuator on the Whitefish Bay fill valve stopped working on May 26. Plant staff worked with Whitefish Bay's staff and contractor to inspect and replace the valve actuator.

6. Plant staff removed several filter valve actuators in preparation for filter upgrades this year.

7. After weeks of poor internet connectivity at Klode Park, Spectrum inspected their equipment and found a problem with a component that was installed. After removing said component, the problem was resolved.

8. Plant staff delivered all lead and copper sample kits to residents in Fox Point, Glendale, and Fox Point.

North Shore Water Commission

Extended Monthly Report (Page 2) **May 2018**

Flows Uncorrected for Distribution Activity

	High Service PSI (Gauge #1)			High Service PSI (Gauge #2)			WFB Tower PSI			Glen Standpipe PSI			FPT Standpipe PSI			WFB Standpipe Level (ft)			Glen Standpipe Level (ft)			FPT Tower Level (ft)			Monthly Pumpage	Sum Master Meters (MGD)			WFB Flow (MGD)			Glen Flow (MGD)			FPT Flow (MGD)		
Date	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	RANK	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min
5/1/2018	85.75	82.90	77.22	86.42	83.49	80.94	70.36	67.14	63.40	43.15	38.26	32.77	62.28	50.85	38.56	23.06	18.31	11.95	74.44	57.49	43.73	21.58	18.20	14.92	20	5.29	3.27	1.08	2.19	0.97	-0.07	2.50	1.43	0.39	1.77	0.87	0.00
5/2/2018	85.13	82.90	80.60	85.61	83.50	80.80	69.74	67.07	62.92	42.17	38.21	32.89	63.14	50.81	38.50	23.02	18.12	11.98	74.64	57.57	43.75	21.64	18.28	15.02	23	5.89	3.20	1.08	2.12	0.95	0.12	2.50	1.38	0.70	1.84	0.86	0.00
5/3/2018	84.60	82.89	80.84	85.22	83.49	81.26	69.38	67.20	64.05	42.07	38.37	33.33	62.69	51.02	38.35	23.03	18.07	11.94	77.65	59.72	43.78	21.67	18.36	15.12	31	5.08	2.92	0.85	2.01	0.86	0.05	2.39	1.24	0.55	1.59	0.82	0.00
5/4/2018	85.87	82.91	80.86	86.12	83.50	81.38	70.81	67.25	64.50	42.04	38.30	32.27	62.78	51.10	38.40	22.99	17.91	11.96	77.07	59.18	43.77	21.64	18.37	15.13	29	6.12	3.00	1.11	2.38	0.87	0.08	2.60	1.29	0.66	1.59	0.83	0.00
5/5/2018	84.46	82.88	79.54	84.71	83.47	80.50	69.11	67.23	64.32	41.94	38.49	33.67	62.47	51.11	38.92	23.00	17.56	11.94	77.52	60.50	43.79	21.66	18.35	15.12	26	4.69	3.03	1.80	1.89	0.92	0.09	2.04	1.27	0.61	1.70	0.84	0.00
5/6/2018	84.41	82.90	79.76	84.83	83.49	80.01	69.38	67.26	64.05	41.99	38.57	33.60	62.56	51.02	38.92	23.03	17.51	11.98	77.63	60.64	43.78	21.66	18.41	15.20	25	4.69	3.09	2.03	1.76	0.96	0.33	1.82	1.26	0.75	1.72	0.87	0.00
5/7/2018	85.87	82.88	80.45	86.51	83.47	81.23	70.57	67.18	64.47	42.16	38.59	28.63	63.36	50.92	38.35	22.98	17.68	11.96	76.48	61.50	45.65	21.67	18.41	15.18	17	6.57	3.31	1.47	2.54	0.98	0.16	2.65	1.43	0.83	1.63	0.90	0.00
5/8/2018	84.72	82.90	80.33	85.20	83.47	80.57	69.91	67.18	64.35	42.06	38.36	32.87	62.40	50.85	38.62	23.03	17.51	11.87	77.16	61.38	47.81	21.62	18.28	15.04	9	6.88	3.54	1.35	2.64	1.10	0.13	2.81	1.47	0.00	2.04	0.98	-0.08
5/9/2018	84.86	82.90	79.97	85.66	83.48	80.21	71.17	67.19	64.13	42.09	38.59	32.72	62.30	50.90	38.41	23.00	17.81	11.98	77.04	62.48	47.84	21.53	18.22	14.93	15	6.44	3.38	1.46	2.48	0.98	0.17	2.73	1.49	0.89	1.78	0.90	0.00
5/10/2018	84.70	82.91	79.40	84.87	83.47	79.67	69.81	67.16	63.95	42.09	38.72	32.67	62.19	50.89	38.42	22.98	17.76	11.97	77.99	63.32	47.60	21.50	18.17	14.88	21	6.38	3.24	1.22	2.42	0.96	0.12	2.69	1.43	0.64	1.68	0.86	0.00
5/11/2018	85.01	82.88	78.30	84.77	83.44	79.77	70.41	67.18	64.47	42.12	38.88	32.31	62.17	50.78	38.71	23.06	17.85	12.06	77.88	63.72	48.05	21.53	18.15	14.87	27	6.19	3.01	1.14	2.24	0.89	-0.43	2.57	1.30	0.55	1.64	0.82	0.00
5/12/2018	84.53	82.92	81.10	85.13	83.48	81.31	69.19	67.30	64.79	42.00	39.07	33.89	62.57	50.89	38.44	22.99	17.67	11.97	77.83	64.82	49.53	21.53	18.18	14.91	30	4.70	2.95	2.09	1.69	0.88	0.21	1.99	1.25	0.66	1.72	0.82	0.00
5/13/2018	84.29	82.92	80.62	84.65	83.49	81.70	68.94	67.22	64.61	42.06	39.18	33.94	62.57	50.86	38.86	22.99	17.58	11.94	77.90	65.35	49.38	21.62	18.23	14.95	28	4.88	3.00	1.90	1.72	0.93	0.29	1.97	1.25	0.64	1.67	0.83	-0.19
5/14/2018	84.94	82.89	80.98	85.60	83.46	81.49	69.27	67.20	64.46	42.34	38.58	32.95	62.33	51.17	38.54	22.97	17.70	11.91	77.54	60.77	44.73	21.45	18.26	15.02	24	5.23	3.10	1.11	2.20	0.94	0.14	2.27	1.34	0.67	1.74	0.82	0.00
5/15/2018	85.34	82.87	79.81	85.40	83.45	80.72	69.52	67.20	63.22	42.47	38.20	31.88	62.16	50.79	38.89	23.07	17.75	11.99	76.66	58.97	44.74	21.20	17.87	14.55	19	6.14	3.28	1.16	2.38	0.96	0.11	2.65	1.42	0.66	1.81	0.90	-0.06
5/16/2018	85.46	82.98	80.45	86.21	83.56	81.01	70.35	67.25	64.36	42.38	38.28	32.80	63.07	53.33	38.85	23.03	18.02	12.27	76.43	58.93	44.72	21.70	19.95	17.60	13	6.37	3.44	0.69	2.49	1.08	0.00	2.60	1.50	0.68	1.73	0.86	0.00
5/17/2018	84.96	82.91	79.45	86.48	83.47	80.06	70.77	67.18	63.83	42.31	38.22	29.02	62.32	50.78	38.48	23.03	17.66	11.97	75.74	58.30	44.74	21.64	18.33	15.08	12	7.08	3.47	1.11	2.70	1.04	0.14	3.15	1.49	0.65	2.78	0.93	-0.06
5/18/2018	85.15	82.96	79.54	85.63	83.51	80.16	70.16	67.21	64.01	42.35	38.05	28.99	62.67	50.86	38.80	23.01	17.81	11.97	76.16	59.53	44.78	21.68	18.32	15.04	14	7.06	3.43	1.04	2.62	1.02	0.10	3.07	1.50	0.62	2.13	0.92	0.00
5/19/2018	84.63	82.93	80.17	85.41	83.47	80.75	69.72	67.23	63.55	44.92	38.47	32.19	62.88	50.98	38.94	23.02	17.58	11.95	77.66	60.64	44.77	21.67	18.36	15.09	22	4.70	3.24	1.65	1.98	0.97	0.20	2.23	1.39	0.67	1.63	0.87	0.07
5/20/2018	84.65	82.92	79.73	85.05	83.47	80.16	69.43	67.21	64.16	43.84	38.46	33.13	62.37	51.00	38.86	23.00	17.54	11.97	77.70	60.58	44.76	21.70	18.40	15.17	18	4.83	3.29	1.73	1.97	1.01	0.34	2.17	1.36	0.68	1.73	0.93	0.05
5/21/2018	85.20	82.94	79.61	85.38	83.48	80.36	70.06	67.19	64.46	42.46	38.72	33.39	62.30	50.91	38.56	23.01	17.56	11.95	77.68	61.81	44.85	21.68	18.36	15.07	16	6.70	3.36	1.42	2.51	1.00	0.00	2.70	1.46	0.78	1.66	0.91	0.11
5/22/2018	85.13	82.88	78.61	85.94	83.44	80.43	70.60	67.17	64.12	42.40	38.59	29.54	62.74	50.73	38.90	22.40	17.09	11.96	76.95	61.19	44.86	21.60	18.27	15.00	11	6.22	3.50	1.07	2.37	1.06	0.14	2.65	1.49	0.81	2.48	0.95	0.00
5/23/2018	86.14	82.92	78.30	86.14	83.47	78.71	71.43	67.20	64.37	42.62	38.56	32.06	62.13	50.95	38.77	22.73	17.37	11.91	76.79	60.87	44.83	21.43	18.17	14.89	8	6.38	3.60	1.48	2.45	1.01	0.04	2.67	1.57	0.90	2.32	1.02	-0.10
5/24/2018	86.18	82.91	75.54	86.54	83.46	76.22	70.89	67.07	63.07	42.44	38.46	31.93	63.05	50.89	37.91	22.65	17.23	11.98	77.26	60.92	44.83	21.32	18.03	14.72	7	6.91	3.72	1.45	3.16	1.17	0.14	2.89	1.64	0.98	2.71	0.91	-0.30
5/25/2018	85.32	83.00	79.97	86.16	83.53	80.55	70.02	67.02	63.01	42.97	38.28	32.80	63.10	51.00	38.64	23.03	17.56	11.91	77.32	61.26	44.77	21.20	17.93	14.68	2	6.77	3.97	2.05	3.13	1.25	0.18	2.82	1.75	0.93	2.42	0.98	-0.25
5/26/2018	84.77	82.95	80.79	85.50	83.49	81.18	71.20	67.01	63.58	42.39	38.68	33.01	62.53	50.90	38.96	24.28	18.40	13.86	77.72	62.40	44.88	21.03	17.81	14.54	5	5.14	3.87	2.46	2.45	1.22	0.14	2.26	1.64	0.89	2.80	1.01	-0.21
5/27/2018	84.36	82.92	78.92	84.83	83.45	79.32	68.91	67.43	62.85	44.18	38.75	32.93	62.34	50.84	38.85	14.23	13.90	13.52	77.76	62.41	44.83	20.91	17.65	14.39	6	6.35	3.73	1.89	2.01	1.19	0.62	2.33	1.54	0.84	2.35	1.00	-0.15
5/28/2018	84.82	82.91	73.48	85.78	83.45	74.09	69.31	67.34	57.88	43.04	37.89	28.00	62.50	50.85	38.27	14.07	13.82	13.59	77.52	59.03	44.25	20.63	17.46	14.25	1	7.24	4.20	2.25	2.02	1.35	0.81	2.67	1.72	0.95	2.56	1.14	-0.09
5/29/2018	85.51	82.93	78.82	86.07	83.48	79.79	69.94	68.13	63.75	42.39	37.83	31.20	62.35	53.34	38.73	14.16	10.77	3.94	77.81	58.83	43.71	19.76	17.22	14.80	10	6.22	3.50	1.38	2.27	0.88	0.00	2.83	1.63	0.83	2.41	1.00	-0.17
5/30/2018	85.80	82.93	79.06	86.18	83.47	80.22	70.48	67.36	62.82	42.97	37.72	30.99	62.07	54.10	38.49	4.42	1.11	-0.29	76.63	57.89	43.73	21.70	19.16	15.35	4	7.09	3.91	2.05	2.13	1.08	0.00	3.02	1.70	0.76	2.08	1.13	0.15
5/31/2018	85.56	82.93	79.50	85.62	83.48	81.07	69.64	67.44	64.83	42.01	37.79	32.69	61.36	51.02	38.85	0.48	0.26	-0.04	74.88	57.44	43.74	21.67	18.36	14.80	3	7.54	3.92	1.90	2.26	1.20	0.76	2.89	1.64	0.79	2.44	1.09	0.21
MAX	86.18	83.00	81.10	86.54	83.56	81.70	71.43	68.13	64.83	44.92	39.18	33.94	63.36	54.10	38.96	24.28	18.40	13.86	77.99	65.35	49.53	21.70	19.95	17.60		7.535	4.20	2.46	3.16	1.35	0.81	3.150	1.746	0.98	2.795	1.140	0.21
AVE	85.10	82.92	79.41	85.60	83.48	80.18	70.01	67.24	63.75	42.53	38.42	32.10	62.51	51.18	38.64	20.83	16.14	11.09	77.02	60.63	45.19	21.45	18.24	15.01		6.057	3.40	1.50	2.30	1.02	0.16	2.552	1.460	0.71	2.004	0.921	-0.03
MIN	84.29	82.87	73.48	84.65	83.44	74.09	68.91	67.01	57.88	41.94	37.72	28.00	61.36	50.73	37.91	0.48	0.26	-0.29	74.44	57.44	43.71	19.76	17.22	14.25		4.686	2.92	0.69	1.69	0.86	-0.43	1.817	1.239	0.00	1.585	0.816	-0.30

North Shore Water Commission

Extended Monthly Report (Page 1) **May 2018**

	Whitefish Bay					Henry Clay Meter		Glendale					Green Tree Meter		Fox Point					Bayside Meters		School Road Meters		Total		Monthly	Wholesale
	Max	Daily	Daily	Cumul.	Cumul.	To WFB	To Glen	Max	Daily	Daily	Cumul.	Cumul.	To FP	To Glen	Max	Daily	Daily	Cumul.	Cumul.	P. Wash	Greenv.	To WFB	To FoxPt	Daily	Cumul.	Pumpage	
Date	(MGD)	(MG)	%	(MG)	%	(MG)	(MG)	(MGD)	(MG)	%	(MG)	%	(MG)	(MG)	(MGD)	(MG)	%	(MG)	%	(MG)	(MG)	(MG)	(MG)	(MG)	(MG)	RANK	
5/1/2018	2.193	0.968	29.58%	0.968	29.58%	0.000	0.090	2.498	1.432	43.77%	1.432	43.77%	0.000	0.120	1.766	0.872	26.65%	0.872	26.65%	0.172	0.048	0.048	0.000	3.272	3.272	20	
5/2/2018	2.124	0.951	29.74%	1.919	29.66%	0.000	0.080	2.496	1.385	43.31%	2.817	43.54%	0.000	0.109	1.837	0.862	26.95%	1.734	26.80%	0.175	0.053	0.033	0.000	3.198	6.470	23	
5/3/2018	2.014	0.860	29.47%	2.779	29.60%	0.000	0.020	2.386	1.240	42.49%	4.057	43.21%	0.000	0.095	1.590	0.818	28.03%	2.552	27.18%	0.158	0.046	0.027	0.000	2.918	9.388	31	
5/4/2018	2.378	0.873	29.12%	3.652	29.48%	0.000	0.040	2.595	1.293	43.13%	5.350	43.19%	0.000	0.103	1.585	0.832	27.75%	3.384	27.32%	0.155	0.046	0.030	0.000	2.998	12.386	29	
5/5/2018	1.893	0.917	30.28%	4.569	29.64%	0.020	0.000	2.037	1.266	41.81%	6.616	42.92%	0.000	0.081	1.701	0.845	27.91%	4.229	27.44%	0.170	0.044	0.018	0.000	3.028	15.414	26	
5/6/2018	1.763	0.960	31.07%	5.529	29.88%	0.050	0.000	1.817	1.263	40.87%	7.879	42.58%	0.000	0.075	1.724	0.867	28.06%	5.096	27.54%	0.179	0.045	0.019	0.000	3.090	18.504	25	
5/7/2018	2.544	0.985	29.74%	6.514	29.86%	0.000	0.050	2.647	1.426	43.06%	9.305	42.65%	0.000	0.106	1.631	0.901	27.20%	5.997	27.49%	0.159	0.054	0.034	0.000	3.312	21.816	17	
5/8/2018	2.641	1.094	30.92%	7.608	30.01%	0.000	0.140	2.809	1.466	41.44%	10.771	42.48%	0.000	0.162	2.039	0.978	27.64%	6.975	27.51%	0.156	0.061	0.033	0.000	3.538	25.354	9	
5/9/2018	2.477	0.983	29.13%	8.591	29.90%	0.000	0.110	2.726	1.493	44.24%	12.264	42.69%	0.000	0.119	1.782	0.899	26.64%	7.874	27.41%	0.158	0.063	0.038	0.000	3.375	28.729	15	
5/10/2018	2.416	0.959	29.58%	9.550	29.87%	0.000	0.090	2.694	1.427	44.02%	13.691	42.82%	0.000	0.101	1.681	0.856	26.40%	8.730	27.31%	0.149	0.061	0.040	0.000	3.242	31.971	21	
5/11/2018	2.240	0.894	29.67%	10.444	29.85%	0.000	0.050	2.571	1.302	43.21%	14.993	42.86%	0.000	0.102	1.636	0.817	27.12%	9.547	27.29%	0.143	0.060	0.030	0.000	3.013	34.984	27	
5/12/2018	1.690	0.881	29.85%	11.325	29.85%	0.010	0.000	1.986	1.252	42.43%	16.245	42.82%	0.000	0.082	1.720	0.818	27.72%	10.365	27.32%	0.161	0.059	0.013	0.000	2.951	37.935	30	
5/13/2018	1.723	0.926	30.85%	12.251	29.93%	0.040	0.000	1.966	1.246	41.51%	17.491	42.73%	0.000	0.074	1.670	0.830	27.65%	11.195	27.35%	0.166	0.059	0.021	0.000	3.002	40.937	28	
5/14/2018	2.201	0.941	30.32%	13.192	29.95%	0.000	0.020	2.271	1.342	43.23%	18.833	42.76%	0.000	0.099	1.735	0.821	26.45%	12.016	27.28%	0.153	0.060	0.028	0.000	3.104	44.041	24	
5/15/2018	2.384	0.964	29.36%	14.156	29.91%	0.000	0.050	2.650	1.423	43.34%	20.256	42.80%	0.000	0.120	1.810	0.896	27.29%	12.912	27.28%	0.154	0.063	0.033	0.000	3.283	47.324	19	
5/16/2018	2.493	1.083	31.51%	15.239	30.02%	0.000	0.030	2.604	1.495	43.50%	21.751	42.85%	0.000	0.114	1.730	0.859	24.99%	13.771	27.13%	0.153	0.065	0.025	0.000	3.437	50.761	13	
5/17/2018	2.702	1.045	30.15%	16.284	30.03%	0.000	0.080	3.150	1.490	42.99%	23.241	42.86%	0.000	0.128	2.780	0.931	26.86%	14.702	27.11%	0.157	0.065	0.043	0.000	3.466	54.227	12	
5/18/2018	2.622	1.018	29.65%	17.302	30.01%	0.000	0.100	3.068	1.499	43.66%	24.740	42.91%	0.000	0.130	2.130	0.916	26.68%	15.618	27.09%	0.162	0.068	0.050	0.000	3.433	57.660	14	
5/19/2018	1.979	0.972	30.04%	18.274	30.01%	0.000	0.050	2.234	1.392	43.02%	26.132	42.91%	0.000	0.100	1.633	0.872	26.95%	16.490	27.08%	0.169	0.064	0.032	0.000	3.236	60.896	22	
5/20/2018	1.969	1.008	30.61%	19.282	30.04%	0.000	0.020	2.171	1.356	41.18%	27.488	42.82%	0.000	0.089	1.731	0.929	28.21%	17.419	27.14%	0.182	0.064	0.022	0.000	3.293	64.189	18	
5/21/2018	2.513	0.997	29.63%	20.279	30.02%	0.000	0.070	2.702	1.455	43.24%	28.943	42.84%	0.000	0.123	1.661	0.913	27.13%	18.332	27.14%	0.169	0.067	0.043	0.000	3.365	67.554	16	
5/22/2018	2.373	1.061	30.29%	21.340	30.03%	0.000	0.060	2.647	1.491	42.56%	30.434	42.83%	0.000	0.112	2.481	0.951	27.15%	19.283	27.14%	0.170	0.066	0.040	0.000	3.503	71.057	11	
5/23/2018	2.447	1.013	28.14%	22.353	29.94%	0.000	0.080	2.675	1.572	43.67%	32.006	42.87%	0.000	0.119	2.320	1.015	28.19%	20.298	27.19%	0.177	0.065	0.131	0.000	3.600	74.657	8	
5/24/2018	3.160	1.168	31.41%	23.521	30.01%	0.000	0.060	2.894	1.642	44.15%	33.648	42.93%	0.000	0.132	2.710	0.909	24.44%	21.207	27.06%	0.189	0.069	0.000	0.000	3.719	78.376	7	
5/25/2018	3.134	1.248	31.41%	24.769	30.08%	0.000	0.040	2.820	1.746	43.95%	35.394	42.98%	0.000	0.139	2.418	0.979	24.64%	22.186	26.94%	0.187	0.065	0.000	0.000	3.973	82.349	2	
5/26/2018	2.449	1.222	31.57%	25.991	30.14%	0.020	0.000	2.257	1.635	42.24%	37.029	42.95%	0.000	0.098	2.795	1.014	26.19%	23.200	26.91%	0.240	0.077	0.000	0.000	3.871	86.220	5	
5/27/2018	2.008	1.187	31.85%	27.178	30.22%	0.010	0.000	2.327	1.541	41.35%	38.570	42.88%	0.000	0.086	2.347	0.999	26.80%	24.199	26.90%	0.216	0.068	0.000	0.000	3.727	89.947	6	
5/28/2018	2.018	1.345	32.02%	28.523	30.30%	0.030	0.000	2.669	1.715	40.83%	40.285	42.79%	0.000	0.103	2.557	1.140	27.14%	25.339	26.91%	0.251	0.074	0.000	0.000	4.200	94.147	1	
5/29/2018	2.269	0.880	25.11%	29.403	30.11%	0.000	0.090	2.829	1.627	46.43%	41.912	42.92%	0.000	0.125	2.408	0.997	28.45%	26.336	26.97%	0.202	0.080	0.000	0.055	3.504	97.651	10	
5/30/2018	2.129	1.075	27.51%	30.478	30.01%	0.000	0.080	3.024	1.699	43.49%	43.611	42.94%	0.000	0.141	2.084	1.133	29.00%	27.469	27.05%	0.191	0.073	0.056	0.000	3.907	101.558	4	
5/31/2018	2.261	1.196	30.53%	31.674	30.03%	0.000	0.100	2.894	1.636	41.76%	45.247	42.90%	0.000	0.170	2.441	1.086	27.72%	28.555	27.07%	0.199	0.076	0.030	0.000	3.918	105.476	3	
Plant Meters (MG)		31.674				*0.180*	*1.600*		45.247				*0.000*	*3.457*		28.555				*5.422*	*1.928*	*0.917*	*0.055*	105.476			
Max	3.160	1.345	32.02%					3.150	1.746	46.43%					2.795	1.140	29.00%							4.200			
Ave	2.297	1.022	30.00%					2.552	1.460	42.90%					2.004	0.921	27.10%							3.402			
Min	1.690	0.860	25.11%					1.817	1.240	40.83%					1.585	0.817	24.44%							2.918			
Distribution SCADA Read		-0.558							4.877							-11.669								-7.350		Mequon	7.350
Dist. Adj. (Diff from Act.)						*0.000*	*0.000*						*0.000*	*0.000*						*0.000*	*0.000*	*0.000*	*0.000*				
Milwaukee Interconnect		0.000							0.000							0.000											
Total MG Charged		31.116		143.285					50.124		223.145					16.886		74.730						98.126	441.16		33.238
% Charged (month)		31.71%							51.08%							17.21%											
% Charged (cumul.)		32.48%							50.58%							16.94%											

NORTH SHORE WATER COMMISSION

WHOLESALE WATER SALES

FOR YEAR: 2018

					WHOLESALE INCOME BY COMPONENT (Top: JAN-MAR, Bottom: APR-DEC)			FACILITIES CHARGE FOR 2017 FACILITIES UPKEEP					
		KGAL	WHOLESALE	TOTAL VOLUME	CAPITAL $/Kgal $0.832 / Kgal	OPERATING $ $0.921 / Kgal	CONVEYANCE $0.390 / Kgal	DISTRIBUTION OF CONVEYANCE CHARGE			$500 / yr	NSWC	AMOUNT
MONTH	CUSTOMER	PURCHASED	RATE ($/KGAL)	CHARGE	$0.860 / Kgal	$0.927 / Kgal	$0.390 / Kgal	FOX PT: 0.60	GLEN: 0.20	WFB: 0.20		REVENUE	BILLED
JANUARY	Mequon Water	6,840	$2.143	$14,658.12	$5,690.88	$6,299.64	$2,667.60	$1,600.56	$533.52	$533.52	$0.00	$11,990.52	$14,658.12
FEBRUARY	Mequon Water	5,945	$2.143	$12,740.14	$4,946.24	$5,475.35	$2,318.55	$1,391.13	$463.71	$463.71	$0.00	$10,421.59	$12,740.14
MARCH	Mequon Water	6,633	$2.143	$14,214.52	$5,518.66	$6,108.99	$2,586.86	$1,552.12	$517.37	$517.37	$500.00	$12,127.66	$14,714.52
APRIL	Mequon Water	6,470	$2.177	$14,085.19	$5,564.20	$5,997.69	$2,523.30	$1,513.98	$504.66	$504.66	$0.00	$11,561.89	$14,085.19
MAY	Mequon Water	7,350	$2.177	$16,000.95	$6,321.00	$6,813.45	$2,866.50	$1,719.90	$573.30	$573.30	$0.00	$13,134.45	$16,000.95
JUNE	Mequon Water		$0.000	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
JULY	Mequon Water		$0.000	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
AUGUST	Mequon Water		$0.000	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
SEPTEMBER	Mequon Water		$0.000	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
OCTOBER	Mequon Water		$0.000	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
NOVEMBER	Mequon Water		$0.000	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
DECEMBER	Mequon Water		$0.000	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
TOTALS		33,238		$71,698.91	$28,040.98	$30,695.12	$12,962.81	$7,777.69	$2,592.56	$2,592.56	$500.00	$59,236.11	$72,198.92