

**AGENDA**  
**NORTH SHORE WATER COMMISSION**

400 West Bender Road  
Glendale, WI 53217  
Wednesday, April 13, 2011  
7:30 A.M.

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1. Call to order by the Chairman.
2. Approval of the minutes of the meeting held Wednesday, March 9, 2011.
3. Monthly report of plant operations for March.
4. Discussion of annual operating budget.
5. Approval of monthly bills.
6. Discussion of proposal by Strand Associates to investigate and design modifications to the safety shower system. Possible action may be taken regarding this matter.
7. Discussion and approval to pay Strand Associates for engineering services rendered under Task Order Number 10-05.
8. Discussion and approval to purchase replacement security cameras and equipment for the plant and remote pumping facilities.
9. Discussion of recent regulatory inspections.
10. Discussion and approval of the 2010 Annual Water Quality Report.
11. Discussion of issues pertaining to Shorewood's request to become a member. Possible action may be taken regarding this matter.
12. Manager's report for March.
13. Date and time of the next regular Commission Meeting.
14. Adjournment.

**NORTH SHORE WATER COMMISSION  
MEETING OF March 9, 2011**

A meeting of the North Shore Water Commission was held at the Filtration Plant, 400 West Bender Road, Glendale, Wisconsin on Wednesday, March 9, 2011.

Meeting was called to order at 7:30 A.M.

Present: Daniel Naze, Chairman; Michael West, Secretary; Richard Maslowski, Member

Also present: Eric Kiefer, Plant Manager & Recording Secretary; Jonathan Lee, Computer Administrator; Mark Peters, Operator Technician; John Knepel, Partner of Baker Tilly Virchow Krause; Dan Vliet, Labor Attorney

Absent: Richard Foster, Alternate for Whitefish Bay; Susan Robertson, Alternate for Fox Point; Dave Eastman, Alternate for Glendale

MINUTES

It was moved by Mr. Maslowski, seconded by Mr. West, and unanimously carried that the minutes for the meeting held Wednesday, February 9 be approved as drafted.

MONTHLY REPORT OF PLANT OPERATIONS

The monthly report of plant operations for February was placed on file without motion.

CLOSED SESSION

At 7:35 A.M., it was moved by Mr. West, seconded by Mr. Maslowski, and unanimously carried by roll call vote that the Commission meet in closed session pursuant to section 19.85(1)(c) Wisconsin Statutes to deliberate and discuss the terms of a possible labor agreement with the Local 1486.

The Commission reconvened into open session at 7:42 A.M.

It was moved by Mr. West, seconded by Mr. Maslowski, and unanimously carried by roll call vote to approve the tentative agreement as drafted and to authorize signature of the labor agreement.

FINANCIAL ANALYSIS PERTAINING TO THE ADDITION OF SHOREWOOD AS A MEMBER

Mr. Knepel presented his report regarding the potential financial effects of selling an equity share of the Commission to the Village of Shorewood. Mr. Knepel discussed in detail the following aspects of the analysis: (1) capital buy-in cost alternatives, (2) projected operating cost changes, (3) accounting issues arising

from selling a portion of an asset, and (4) assumptions and other information used in the report.

There was some discussion about the four different analyses regarding the capital buy-in cost. As Mr. Knepel explained, there are two different variables presented in the analysis: estimated net book value of the plant and the capital allocation percentage. Analyses 1 and 3 were based on historical costs; analyses 2 and 4 were based on current costs. Historical cost was estimated using Glendale's financial records. To estimate current costs, Mr. Knepel adjusted the data using price indexes. Analyses 1 and 2 were based on the Village's proposed buy-in rate of 14.39%; analyses 3 and 4 were based on the Commission's capital allocation rate using the current formula with a projection calculated by Commission staff, 25.02%.

Mr. Kiefer briefly described a section of his report that was prepared along with Mr. Knepel's. In his report, there are 3 methodologies which are described for estimating the Village's highest delivery day volumes using just average delivery day volumes. Mr. Kiefer recommends that the Commission assume maximum day delivery volumes will be in the same proportion to the average day delivery volumes for the purpose of this type of analysis.

It was the consensus of the Commission that the next action was for the Chairman to send these reports to the Village of Shorewood so they can take this information into further consideration.

#### FINANCIAL STATEMENTS

It was moved by Mr. West, seconded by Mr. Maslowski, and unanimously carried by roll call vote to accept the 2010 financial statements in their final form.

#### ANNUAL OPERATING BUDGET

The monthly budget reports were placed on file without motion.

#### MONTHLY BILLS

It was moved by Mr. West, seconded by Mr. Maslowski and unanimously carried that the following bills for the month of February, 2011 be approved and authorization was given to the Fiscal Agent to make such payments:

American Water Works Association (AWWA webcast for surrounding utilities)	236.00
Baker Tilly Virchow Krause (audit services)	1,858.73
Batteries Plus (batteries)	176.97
Brooks Rand Labs (chromium analysis)	130.00
Buelow Vetter (legal services)	2,161.50
Cintas (uniform and janitorial supplies)	520.98
Columbia Analytical Services (chromium analysis)	400.00
Cummins NPower (Bender and Klode generator maintenance)	2,610.66
Diversified Benefit Services (section 125 plan administration)	94.64
Fisher Scientific (lab supplies)	96.77
Fuchs & Boyle (legal services)	97.50

General Chemical (treatment chemical: alum)	5,438.40	
Grainger (lamps, hardware, batteries, labels, plumbing supplies, flag)	449.54	
Great America (lease payment for office copier)	87.00	
Great Lakes Excavating (snow removal services)	440.00	
Hach Company (lab supplies)	1,424.69	
Hawkins (treatment chemicals: aqua ammonia)	339.20	
John Mayer (rate review and report)	60.00	
KA Steel Chemicals (treatment chemical: sodium hypochlorite)	2,740.31	
Lab Safety Supply (oxygen sensor for confined space gas meter)	120.40	
McMaster-Carr (switches, electrical supplies)	277.83	
Northern Lake Service (water analysis service)	773.00	
Office Copying Equipment (monthly maintenance agreement)	26.73	
Pristine Water Solutions (treatment chemical: phosphate)	2,196.30	
Rotroff Jeanson (monthly accounting services)	875.00	
Saf-T-Flo (chemical injector quill)	137.03	
Time Warner Cable (Klode phone)	32.17	
Time Warner Cable (internet service)	764.80	
UPS Store (shipping)	53.61	
US Cellular (cellular phone service)	42.29	
USABluebook (hoses for chemical feed pumps)	603.04	
Vacuum Pump & Compressor (oil, filters, supplies for air compressor maint.)	1,787.14	
Village of Fox Point (fuel for truck)	67.39	
Village of Whitefish Bay (water at Klode)	170.65	
Waste Management (garbage disposal)	372.83	
We Energies (Bender electric)	11,692.93	
We Energies (Henry Clay electric)	9.28	
We Energies (Klode electric)	3,934.33	
We Engeries (Bender gas)	3,193.93	
We Energies (Klode gas)	16.05	
Wilkens-Anderson (lab supplies, fluoride probe)	1,102.04	
Wisconsin State Lab of Hygiene (fluoride analysis)	20.00	
	SUB-TOTAL	\$47,631.66
<u>Maintenance Reserve</u>		
Emerson (SCADA upgrade equipment)		11,826.05
	SUB-TOTAL	\$11,826.05
	TOTAL	\$59,457.71

DISCUSSION AND APPROVAL OF INVOICES TO STRAND ASSOCIATES FOR ENGINEERING SERVICES RENDERED UNDER TASK ORDER NUMBER 10-05

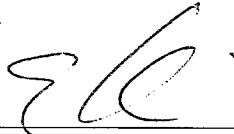
After discussion, it was moved by Mr. West, seconded by Mr. Maslowski, and unanimously carried that the Commission approve payment to Strand Associates in the amount of \$2,150.00. Funding to come from each community based on current capital allocation percentages.

PLANT MANAGER'S MONTHLY REPORT

1. Filter maintenance is still underway. Surface sandwash nozzles are being repaired and the external surfaces are being pressure-washed. Some valve actuators are also receiving maintenance.
2. Electrical energy consumed per million gallon pumped has dropped significantly as a result of the new pumping scheme. This month, 1929 kilowatt-hours (KWH) were consumed per MG of water pumped into the distribution system. In 2007, 2008, 2009, and 2010 the KWH consumed per MG for February were as follows: 2384, 2192, 2294, and 2204, respectively.
3. The sodium hypochlorite feed system is experiencing frequent clogging. The cause of the problem is currently unknown as there is no sign of scale formation. Plant staff is further investigating this matter.
4. Plant staff repaired the recirculation pump for the heating systems in the filter room and motor room.
5. The recirculation pump for the domestic water heater system decoupled from the motor. We are currently making the necessary repairs.
6. Plant staff is working on connecting the fluoride transfer pumps to RTU7 so they can be controlled automatically. To date this involved running sections of new conduit, pulling wire, labeling, and terminating. Plant staff plans on finishing this project before the upcoming capital projects are bided.

NEXT MEETING DATE AND ADJOURMENT

The meeting adjourned at 8:41 A.M. The next scheduled regular meeting will be on Wednesday, April 13, 2011 at 7:30 A.M.



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Eric Kiefer, Plant Manager & Recording Secretary

NORTH SHORE WATER COMMISSION  
 Monthly Summary of Operations  
 Month of March, 2011

	WFB.	GLE.	FPT.	MEQ	Totals
M.G. Metered at Plant	30.201	41.480	25.702	0.000	97.383
M.G. Reverse Flow	0.000	0.000	0.000	0.000	0.000
M.G. Metered in System	-1.879	8.056	-10.189	4.012	0.000
M.G. Charged to Members	28.322	49.536	15.513	0.000	93.371
M.G. Charged to All Users	28.322	49.536	15.513	4.012	97.383
M.G. Same Month Last Year (Members)	33.110	47.296	15.504	0.000	95.910
M.G. Same Month Last Year (All)	33.110	47.296	15.504	3.491	99.401
Accumulated M.G.	91.896	143.995	47.225	11.469	294.585
Accumulated M.G. Last Year	100.860	137.505	45.794	10.117	294.276
Accumulated % of Total Pumped	31.20%	48.88%	16.03%	3.89%	100.00%
Monthly % of Total Pumped	29.08%	50.87%	15.93%	4.12%	100.00%
Accumulated % Pumped of Members	32.46%	50.86%	16.68%		100.00%
Monthly % Pumped of Members	30.33%	53.05%	16.61%		100.00%
Average Daily Pumpage in M.G.	0.914	1.598	0.500	0.129	3.141

Maximum Day Pumpage	3.511 M.G.			
Date	2 nd			
Maximum Flow Rate	5.383 M.G.D.			
Date	2 nd			
Hour	2200			
Average Station Pressure	81.9 P.S.I.			
Avg. Total Cl Residual (Tap)	2.45 mg/L			
Raw Water Temperature (F)	Avg. 35	Max. 37	Min. 33	
Tap Hardness (mg/L)	Avg. 139	Max. 144	Min. 135	
Raw Water MPN Index	1.8			

Electrical Calculations:

*This Month (Billed)*

Bender On-Peak Consumption	56,442 @ \$0.06985 / kWh	\$3,942	23.5%
Bender Off-Peak Consumption	92,459 @ \$0.04974 / kWh	\$4,599	27.4%
Klode On-Peak Consumption	16,490 @ \$0.07686 / kWh	\$1,133	6.8%
Klode Off-Peak Consumption	31,040 @ \$0.05600 / kWh	\$1,738	10.4%
Other & Energy Credits		\$6,347	37.9%
Electrical Charge / kWh	\$0.08531		
Total Consumption / M.G.	2,017 kWh / M.G.		
\$ / M.G.	\$172.08		

Chemicals Applied	mg/L	\$/M.G.
Ammonium Hydroxide	0.536	\$4.70
Sodium Hypochlorite	2.930	\$12.58
Fluoride	1.273	\$15.27
Alum	12.527	\$25.18
Carbon (PAC)	0.000	\$0.00
Potassium Permanganate	0.000	\$0.00
Phosphates	2.329	\$11.15
Cationic Polymer	0.531	\$3.76
Total Chemical Cost		\$72.64

Water Metering	M.G.	% Diff.
Corrected High Service (Filters)	101.635	4.4
Total High Service	114.544	17.6
Communities	97.383	0.0

NORTH SHORE WATER COMMISSION  
Income Statement  
For the Two Months Ending February 28, 2011

Acct.	Revenues	Current Month Actual	Current Month Budget	Year to Date Actual	Year to Date Budget	Variance
43310	Whitefish Bay-Operations	\$ 39,114.26	\$ 39,154.44	\$ 78,268.70	\$ 78,308.88	(40.18)
43320	Fox Point-Operations	19,438.37	19,409.09	38,876.74	38,818.18	58.56
43330	Glendale-Operations	58,516.69	58,535.05	117,051.74	117,070.10	(18.36)
43411	Transf to Deferred Rev - WB	0.00	0.00	0.00	0.00	0.00
43412	Transf to Deferred Rev - FP	0.00	0.00	0.00	0.00	0.00
43413	Transf to Deferred Rev - Gle	0.00	0.00	0.00	0.00	0.00
45100	Interest Income	0.00	0.00	0.00	0.00	0.00
45200	Insurance Policy Dividend	0.00	0.00	0.00	0.00	0.00
45300	Wholesale Water Sales	3,162.16	0.00	6,644.20	0.00	6,644.20
45400	Mequon Facilities Charges	0.00	0.00	0.00	0.00	0.00
45900	Misc Income	0.00	0.00	192.00	0.00	192.00
45910	Lab Services Income	780.00	0.00	1,650.00	0.00	1,650.00
49500	Transfer From Maint Reserve	0.00	0.00	0.00	0.00	0.00
49600	Transf from Storm Water Tes	0.00	0.00	0.00	0.00	0.00
49900	Uncategorized Income	0.00	0.00	0.00	0.00	0.00
	<b>Total Revenues</b>	<b>121,011.48</b>	<b>117,098.58</b>	<b>242,683.38</b>	<b>234,197.16</b>	<b>8,486.22</b>
Acct.	Wholesale Water Expenses					
53300	Wholesale Water Expense	0.00	0.00	0.00	0.00	0.00
	<b>Total Wholesale Water Sales</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
Acct.	Source of Supply Expenses					
60100	Labor & Super. of Intake Cri	0.00	0.00	0.00	0.00	0.00
60200	Intake Supplies	0.00	0.00	0.00	0.00	0.00
60500	Maint. of Crib & Wet Well	0.00	666.67	0.00	1,333.34	(1,333.34)
60700	Standby Service - Milwaukee	0.00	291.67	1,350.00	583.33	766.67
60800	Great Lake Withdrawall Fee	0.00	802.08	0.00	1,604.16	(1,604.16)
	<b>Total Source of Supply Expe</b>	<b>0.00</b>	<b>1,760.42</b>	<b>1,350.00</b>	<b>3,520.83</b>	<b>(2,170.83)</b>
Acct.	Pumping Expenses					
62100	Labor & Super. Klode	4,500.54	10,227.41	14,678.39	20,454.82	(5,776.43)
62200	Electricity	15,636.54	19,750.00	33,359.72	39,500.00	(6,140.28)
62300	Normal Supplies, Klode	303.15	552.50	777.62	1,105.00	(327.38)
62400	Unusual Maint., Klode Pump	0.00	1,666.67	0.00	3,333.34	(3,333.34)
62510	Unusual Maint., Klode Suppl	0.00	166.67	0.00	333.34	(333.34)
62520	Unusual Maint., Klode Labor	0.00	275.00	0.00	550.00	(550.00)
62600	Electricity Demand	0.00	0.00	0.00	0.00	0.00
62700	Unusual Maint., Bender Pum	0.00	316.67	0.00	633.34	(633.34)
62750	Care of Grounds	0.00	291.67	0.00	583.34	(583.34)
	<b>Total Pumping Expenses</b>	<b>20,440.23</b>	<b>33,246.59</b>	<b>48,815.73</b>	<b>66,493.18</b>	<b>(17,677.45)</b>
Acct.	Purification Expenses					
63100	Labor & Super., Bender	8,998.54	20,292.08	27,603.17	40,584.16	(12,980.99)
63200	Normal Supplies, Bender	4,206.68	3,083.33	8,379.22	6,166.66	2,212.56
63300	Heating at Bender	3,193.93	2,000.00	6,391.37	4,000.00	2,391.37
63400	Disposal of Sludge	0.00	583.33	0.00	1,166.66	(1,166.66)
63510	Unusual Maint., Bender Supp	0.00	1,333.33	0.00	2,666.66	(2,666.66)
63520	Unusual Maint., Bender Labo	0.00	1,583.33	0.00	3,166.66	(3,166.66)
63600	Laboratory	2,623.50	2,200.42	5,921.90	4,400.84	1,521.06
63700	Instrumentation	20,368.24	2,041.67	20,368.24	4,083.34	16,284.90
63750	Care of Grounds	0.00	291.67	0.00	583.34	(583.34)
63800	Treatment Chemicals	10,714.21	8,792.00	13,839.81	17,584.00	(3,744.19)
	<b>Total Purification Expenses</b>	<b>50,105.10</b>	<b>42,201.16</b>	<b>82,503.71</b>	<b>84,402.32</b>	<b>(1,898.61)</b>
Acct.	Transmission Main Expenses					

NORTH SHORE WATER COMMISSION  
Income Statement  
For the Two Months Ending February 28, 2011

Acct.	Revenues	Current Month Actual	Current Month Budget	Year to Date Actual	Year to Date Budget	Variance
64100	Labor & Super., Trans. Main	51.44	108.33	238.00	216.66	21.34
64200	Trans. Mains- Supplies	0.00	0.00	0.00	0.00	0.00
64300	Meter Reading Supplies	0.00	0.00	0.00	0.00	0.00
64500	Maint. of Reservoir & Clear	0.00	500.00	0.00	1,000.00	(1,000.00)
64600	Maint of Trans Mains	0.00	0.00	0.00	0.00	0.00
64700	Maint. of Meters	0.00	208.33	0.00	416.66	(416.66)
	<b>Total Trans. Mains Expenses</b>	<u>51.44</u>	<u>816.66</u>	<u>238.00</u>	<u>1,633.32</u>	<u>(1,395.32)</u>
Acct.	Administration & General Expenses					
92000	Office & Admin. Salaries	7,204.04	7,083.33	13,612.12	14,166.66	(554.54)
92100	Office Expenses	537.30	1,180.83	1,989.23	2,361.66	(372.43)
92200	Engineering Services	0.00	1,666.67	0.00	3,333.34	(3,333.34)
92300	Professional Services	5,327.23	3,605.42	12,652.73	7,210.84	5,441.89
92400	Prop & P.L. Insurance	10,167.13	5,000.00	10,167.13	10,000.00	167.13
92500	Injuries & Damages	0.00	0.00	0.00	0.00	0.00
92600	WI Retirement Fund	4,391.13	4,416.67	8,526.79	8,833.34	(306.55)
92620	Other Employee Benefits	9,385.86	10,833.33	18,871.15	21,666.66	(2,795.51)
92700	Bond, Fiscal Agent	0.00	0.00	0.00	0.00	0.00
92800	NSWC Expense	0.00	250.00	0.00	500.00	(500.00)
92900	Employee Training Expense	0.00	720.83	236.00	1,441.66	(1,205.66)
93000	Misc. General Expense	135.87	166.67	225.01	333.34	(108.33)
93100	Recording Secretary	0.00	0.00	0.00	0.00	0.00
93300	Transportation Expense	0.00	166.67	67.39	333.34	(265.95)
93500	Maint-Office Equipment	0.00	0.00	0.00	0.00	0.00
93600	General Outdoor Expense	440.00	483.33	877.78	966.66	(88.88)
93700	Maint. of 516 W Bender	0.00	0.00	0.00	0.00	0.00
93800	Loss on Investments	0.00	0.00	0.00	0.00	0.00
94000	FICA Taxes	1,552.17	3,083.33	4,136.96	6,166.66	(2,029.70)
94100	Relocation Expense	0.00	0.00	0.00	0.00	0.00
94500	Contingency Expense	0.00	416.67	0.00	833.34	(833.34)
	<b>Total Adm. &amp; General Expen</b>	<u>39,140.73</u>	<u>39,073.75</u>	<u>71,362.29</u>	<u>78,147.50</u>	<u>(6,785.21)</u>
	<b>Total Expenses</b>	<u>109,737.50</u>	<u>117,098.58</u>	<u>204,269.73</u>	<u>234,197.15</u>	<u>(29,927.42)</u>
	<b>Net Income</b>	<u>\$ 11,273.98</u>	<u>\$ 0.00</u>	<u>\$ 38,413.65</u>	<u>\$ 0.01</u>	<u>38,413.64</u>

NORTH SHORE WATER COMMISSION  
Income Statement (2 Year Comp.)  
For the Two Months Ending February 28, 2011

Acct.	Revenues	Current Month Actual	Current Month Last year	Year to Date Actual	Year to Date Last year	Variance
43310	Whitefish Bay-Operations	\$ 39,114.26	\$ 38,895.93	\$ 78,268.70	\$ 77,791.86	476.84
43320	Fox Point-Operations	19,438.37	19,493.89	38,876.74	38,987.78	(111.04)
43330	Glendale-Operations	58,516.69	56,415.18	117,051.74	112,830.36	4,221.38
43411	Transf to Deferred Rev - WB	0.00	0.00	0.00	0.00	0.00
43412	Transf to Deferred Rev - FP	0.00	0.00	0.00	0.00	0.00
43413	Transf to Deferred Rev - Gle	0.00	0.00	0.00	0.00	0.00
45100	Interest Income	0.00	0.00	0.00	0.00	0.00
45200	Insurance Policy Dividend	0.00	0.00	0.00	0.00	0.00
45300	Wholesale Water Sales	3,162.16	2,564.11	6,644.20	5,466.47	1,177.73
45400	Mequon Facilities Charges	0.00	0.00	0.00	0.00	0.00
45900	Misc Income	0.00	0.00	192.00	0.00	192.00
45910	Lab Services Income	780.00	960.00	1,650.00	1,950.00	(300.00)
49500	Transfer From Maint Reserve	0.00	0.00	0.00	0.00	0.00
49600	Transf from Storm Water Tes	0.00	0.00	0.00	0.00	0.00
49900	Uncategorized Income	0.00	0.00	0.00	0.00	0.00
	<b>Total Revenues</b>	<b>121,011.48</b>	<b>118,329.11</b>	<b>242,683.38</b>	<b>237,026.47</b>	<b>5,656.91</b>
Acct.	<b>Wholesale Water Expenses</b>					
53300	Wholesale Water Expense	0.00	0.00	0.00	0.00	0.00
	<b>Total Wholesale Water Sales</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
Acct.	<b>Source of Supply Expenses</b>					
60100	Labor & Super. of Intake Cri	0.00	0.00	0.00	0.00	0.00
60200	Intake Supplies	0.00	0.00	0.00	0.00	0.00
60500	Maint. of Crib & Wet Well	0.00	0.00	0.00	0.00	0.00
60700	Standby Service - Milwaukee	0.00	0.00	1,350.00	1,350.00	0.00
60800	Great Lake Withdrawall Fee	0.00	0.00	0.00	0.00	0.00
	<b>Total Source of Supply Expe</b>	<b>0.00</b>	<b>0.00</b>	<b>1,350.00</b>	<b>1,350.00</b>	<b>0.00</b>
Acct.	<b>Pumping Expenses</b>					
62100	Labor & Super. Klode	4,500.54	8,957.30	14,678.39	15,021.51	(343.12)
62200	Electricity	15,636.54	13,867.70	33,359.72	29,943.75	3,415.97
62300	Normal Supplies, Klode	303.15	396.57	777.62	917.69	(140.07)
62400	Unusual Maint., Klode Pump	0.00	0.00	0.00	57.33	(57.33)
62510	Unusual Maint., Klode Suppl	0.00	769.63	0.00	769.63	(769.63)
62520	Unusual Maint., Klode Labor	0.00	0.00	0.00	0.00	0.00
62600	Electricity Demand	0.00	0.00	0.00	0.00	0.00
62700	Unusual Maint., Bender Pum	0.00	0.00	0.00	0.00	0.00
62750	Care of Grounds	0.00	0.00	0.00	0.00	0.00
	<b>Total Pumping Expenses</b>	<b>20,440.23</b>	<b>23,991.20</b>	<b>48,815.73</b>	<b>46,709.91</b>	<b>2,105.82</b>
Acct.	<b>Purification Expenses</b>					
63100	Labor & Super., Bender	8,998.54	17,291.70	27,603.17	30,581.90	(2,978.73)
63200	Normal Supplies, Bender	4,206.68	2,808.37	8,379.22	6,186.59	2,192.63
63300	Heating at Bender	3,193.93	2,871.62	6,391.37	6,451.25	(59.88)
63400	Disposal of Sludge	0.00	632.00	0.00	632.00	(632.00)
63510	Unusual Maint., Bender Supp	0.00	111.74	0.00	435.34	(435.34)
63520	Unusual Maint., Bender Labo	0.00	348.40	0.00	348.40	(348.40)
63600	Laboratory	2,623.50	6,425.62	5,921.90	8,093.50	(2,171.60)
63700	Instrumentation	20,368.24	0.00	20,368.24	19,817.40	550.84
63750	Care of Grounds	0.00	0.00	0.00	0.00	0.00
63800	Treatment Chemicals	10,714.21	2,902.60	13,839.81	8,998.54	4,841.27
	<b>Total Purification Expenses</b>	<b>50,105.10</b>	<b>33,392.05</b>	<b>82,503.71</b>	<b>81,544.92</b>	<b>958.79</b>
Acct.	<b>Transmission Main Expenses</b>					

NORTH SHORE WATER COMMISSION  
Income Statement (2 Year Comp.)  
For the Two Months Ending February 28, 2011

Acct.	Revenues	Current Month Actual	Current Month Last year	Year to Date Actual	Year to Date Last year	Variance
64100	Labor & Super., Trans. Main	51.44	0.00	238.00	0.00	238.00
64200	Trans. Mains- Supplies	0.00	0.00	0.00	0.00	0.00
64300	Meter Reading Supplies	0.00	0.00	0.00	0.00	0.00
64500	Maint. of Reservoir & Clear	0.00	0.00	0.00	0.00	0.00
64600	Maint of Trans Mains	0.00	0.00	0.00	0.00	0.00
64700	Maint. of Meters	0.00	0.00	0.00	0.00	0.00
	<b>Total Trans. Mains Expenses</b>	<u>51.44</u>	<u>0.00</u>	<u>238.00</u>	<u>0.00</u>	<u>238.00</u>
Acct.	Administration & General Expenses					
92000	Office & Admin. Salaries	7,204.04	6,408.08	13,612.12	12,816.16	795.96
92100	Office Expenses	537.30	529.42	1,989.23	1,806.29	182.94
92200	Engineering Services	0.00	0.00	0.00	0.00	0.00
92300	Professional Services	5,327.23	2,610.07	12,652.73	9,711.57	2,941.16
92400	Prop & P.L. Insurance	10,167.13	0.00	10,167.13	0.00	10,167.13
92500	Injuries & Damages	0.00	0.00	0.00	0.00	0.00
92600	WI Retirement Fund	4,391.13	3,630.60	8,526.79	7,500.79	1,026.00
92620	Other Employee Benefits	9,385.86	9,237.98	18,871.15	18,575.52	295.63
92700	Bond, Fiscal Agent	0.00	0.00	0.00	0.00	0.00
92800	NSWC Expense	0.00	1,000.00	0.00	1,000.00	(1,000.00)
92900	Employee Training Expense	0.00	750.00	236.00	750.00	(514.00)
93000	Misc. General Expense	135.87	101.18	225.01	196.07	28.94
93100	Recording Secretary	0.00	0.00	0.00	90.00	(90.00)
93300	Transportation Expense	0.00	0.00	67.39	73.11	(5.72)
93500	Maint-Office Equipment	0.00	0.00	0.00	0.00	0.00
93600	General Outdoor Expense	440.00	280.00	877.78	520.00	357.78
93700	Maint. of 516 W Bender	0.00	0.00	0.00	0.00	0.00
93800	Loss on Investments	0.00	0.00	0.00	0.00	0.00
94000	FICA Taxes	1,552.17	2,412.64	4,136.96	4,248.24	(111.28)
94100	Relocation Expense	0.00	0.00	0.00	0.00	0.00
94500	Contingency Expense	0.00	0.00	0.00	0.00	0.00
	<b>Total Adm. &amp; General Expen</b>	<u>39,140.73</u>	<u>26,959.97</u>	<u>71,362.29</u>	<u>57,287.75</u>	<u>14,074.54</u>
	<b>Total Expenses</b>	<u>109,737.50</u>	<u>84,343.22</u>	<u>204,269.73</u>	<u>186,892.58</u>	<u>17,377.15</u>
	<b>Net Income</b>	<u>\$ 11,273.98</u>	<u>\$ 33,985.89</u>	<u>\$ 38,413.65</u>	<u>\$ 50,133.89</u>	<u>(11,720.24)</u>

NORTH SHORE WATER COMMISSION  
 Operating Fund Balance Sheet  
 February 28, 2011 and 2010

	<u>Current Year</u>	<u>Prior Year</u>
<b>ASSETS</b>		
Cash		
Petty Cash	\$ 50.00	50.00
Checking	190,408.32	28,591.20
Temporary Investments	25,127.30	25,620.98
	<hr/>	<hr/>
Total Cash	215,585.62	54,262.18
Accounts Receivable	16,571.46	6,798.98
Prepaid Expenses	11,051.37	13,890.50
Due to/from Storm Sewer Fund	165.81	0.00
Due to/from Maint Reserve Fund	92,615.53	88,603.89
	<hr/>	<hr/>
Total Assets	\$ 335,989.79	163,555.55
	<hr/> <hr/>	<hr/> <hr/>
<b>LIABILITIES AND FUND BALANCE</b>		
<b>Liabilities</b>		
Accounts Payable	\$ 47,767.46	37,938.55
Payable to Municipalities	1,384.11	1,212.11
Payroll Liabilities	1,239.67	0.00
Wisconsin State Payable	0.00	981.61
Flexible Spending Accounts	3,144.20	748.94
Deferred Revenue - WB	76,709.00	0.00
Deferred Revenue - Glendale	93,665.00	0.00
	<hr/>	<hr/>
Total Liabilities	223,909.44	40,881.21
<b>Fund Balances:</b>		
<b>Operating Fund: Beginning of Year</b>		
Whitefish Bay - Oper Fund	16,121.69	16,285.05
Fox Point - Oper Fund	8,502.99	8,584.16
Glendale - Oper Fund	22,426.89	22,671.24
	<hr/>	<hr/>
Total Operating Fund	47,051.57	47,540.45
<b>Emergency Fund: Beginning of Year</b>		
Whitefish Bay Emergency	8,127.50	8,127.50
Fox Point Emergency	5,372.50	5,372.50
Glendale Emergency	11,500.00	11,500.00
	<hr/>	<hr/>
Total Emergency Fund	25,000.00	25,000.00
Current Year Revenues Over (Under) Expenses	38,413.65	50,133.89
	<hr/>	<hr/>
Total Fund Balances	110,465.22	122,674.34
	<hr/>	<hr/>
Total Liabilities & Fund Balance	\$ 334,374.66	163,555.55
	<hr/> <hr/>	<hr/> <hr/>

NORTH SHORE WATER COMMISSION  
Maintenance Reserve Capital Projects Fund Balance Sheet  
February 28, 2011 and 2010

	<u>Current Year</u>	<u>Prior Year</u>
<b>ASSETS</b>		
Savings	\$ 566,075.40	564,889.55
Due to/from Operations Fund	(92,615.53)	(88,603.89)
	<hr/>	<hr/>
Total Assets	\$ 473,459.87	476,285.66
	<hr/> <hr/>	<hr/> <hr/>
<b>LIABILITIES AND FUND BALANCE</b>		
<b>Liabilities</b>		
Accounts Payable Cap Projects	\$ 13,976.05	739.59
	<hr/>	<hr/>
Total Liabilities	13,976.05	739.59
<b>Fund Balances:</b>		
<b>Reserve Fund: Beginning of Year</b>		
Whitefish Bay Maint Reserve	190,452.00	220,013.10
Fox Point Maint Reserve	56,259.11	34,666.81
Glendale Maint Reserve	211,727.00	246,977.43
	<hr/>	<hr/>
Total Reserve Fund	458,438.11	501,657.34
<b>Current Year Revenues Over (Under) Expenses</b>		
	2,660.84	(26,111.27)
	<hr/>	<hr/>
Total Fund Balances	461,098.95	475,546.07
	<hr/>	<hr/>
Total Liabilities & Fund Balance	\$ 475,075.00	476,285.66
	<hr/> <hr/>	<hr/> <hr/>

NORTH SHORE WATER COMMISSION  
Maintenance Reserve Income Statement  
For the Two Months Ending February 28, 2011

	Current Month This Year	Current Month Last Year	Year to Date This Year	Year to Date Last Year
<b>Revenues</b>				
Whitefish Bay-Maint Reserve	\$ 0.00	\$ 0.00	\$ 7,747.90	\$ 0.00
Fox Point-Maint Reserve	0.00	0.00	4,875.22	0.00
Glendale-Maint Reserve	0.00	0.00	9,238.88	0.00
Interest	75.21	80.48	166.00	179.85
Wholesale Water Sales	2,555.28	2,122.76	5,369.04	4,525.55
	<hr/>	<hr/>	<hr/>	<hr/>
Total Revenues	2,630.49	2,203.24	27,397.04	4,705.40
	<hr/>	<hr/>	<hr/>	<hr/>
<b>Expenses</b>				
Capital Outlays Maint Reserve	13,976.05	1,258.06	24,736.20	30,816.67
	<hr/>	<hr/>	<hr/>	<hr/>
Total Expenses	13,976.05	1,258.06	24,736.20	30,816.67
	<hr/>	<hr/>	<hr/>	<hr/>
Net Income	\$ (11,345.56)	\$ 945.18	\$ 2,660.84	\$ (26,111.27)
	<hr/> <hr/>	<hr/> <hr/>	<hr/> <hr/>	<hr/> <hr/>

BILLS TO BE APPROVED AT COMMISSION MEETING OF

4/13/2011

Baker Tilly Virchow Krause (financial study of plant assets)	2,400.00
Buelow Vetter (legal services)	2,333.00
CDWG (hard drive)	37.01
Cintas (uniform and janitorial supplies)	483.42
Davy Labs (reagent water analysis)	319.74
Diversified Benefit Services (section 125 plan administration)	92.64
Eric Kiefer (reimb: seminar, leak test for ecd detectors, and postage)	203.60
Fuchs & Boyle (legal services)	78.00
Glendale Water Utility (storm and environmental charges)	414.90
Goodyear Auto Service (oil change for truck)	23.35
Grainger (batteries, hardware, first aid supplies, and filters)	210.04
Great America (lease payment for office copier)	87.00
Great Lakes Excavating (snow removal services)	440.00
Hach Company (lab supplies)	622.95
Hawkins (treatment chemicals: aqua ammonia and polymer)	1,060.90
Holt Electric (replacement control board for UV reactor #2)	1,345.22
Idexx (lab supplies)	1,685.10
M&I Bank (safety box rental)	63.00
MMSD (1st qtr sludge disposal)	445.86
Northern Lake Service (water analysis service)	53.00
Office Copying Equipment (monthly maintenance agreement)	22.54
Peachtree (checks and envelopes)	355.90
Rotroff Jeanson (monthly accounting services)	875.00
Superior Chemical Co. (cleaning supplies)	93.30
Swan (reagents for Swan analyzer)	412.35
Time Warner Cable (Klode phone)	32.13
Time Warner Cable (internet service)	764.80
UPS Store (shipping)	64.08
US Cellular (cellular phone service)	42.24
USABluebook (hoses for chemical feed pumps, gas detector, lab supplies)	1,135.10
Village of Fox Point (fuel for truck)	75.90
Village of Whitefish Bay (phone at Bender-Jan and Feb.)	481.33
Waste Management (garbage disposal)	399.21
We Energies (Bender electric)	12,361.45
We Energies (Henry Clay electric)	12.91
We Energies (Klode electric)	4,396.65
We Engeries (Bender gas)	2,444.56
We Energies (Klode gas)	2.80
Wilkens-Anderson (lab supplies)	560.91
Wisconsin State Lab of Hygiene (fluoride analysis)	40.00

SUB-TOTAL \$36,971.89

Maintenance Reserve

-

SUB-TOTAL \$0.00

TOTAL \$36,971.89

3/31/2011 Checking account balance \$140,568.71

3/31/2011 Local Government Investment Pool balance \$566,154.82



Suite 800  
633 West Wisconsin Avenue  
Milwaukee, WI 53203  
Phone: 414-271-0771  
Fax: 414-271-8312

Task Order No. 11-01  
North Shore Water Commission, Glendale, Wisconsin (OWNER)  
and Strand Associates, Inc.® (ENGINEER)  
Pursuant to Technical Services Agreement dated May 21, 2010

**Office Locations**

Madison, WI  
Joliet, IL  
Louisville, KY  
Lexington, KY  
Mobile, AL  
Columbus, IN  
Columbus, OH  
Indianapolis, IN  
Milwaukee, WI  
Cincinnati, OH  
Phoenix, AZ

[www.strand.com](http://www.strand.com)

**Project Information**

Project Name: Tempered Water Recommendations and Improvements

Project Description: Investigate alternatives to provide a tempered water system for emergency showers.

Services Description: Services included in this Task Order are in addition to those provided under Task Orders 10-04, 10-05, and 10-06.

**Scope of Services**

ENGINEER will provide the following services to OWNER:

1. Prepare a brief report summarizing the tempered water system alternatives and recommendations for the emergency showers.
2. Update the existing drawings and specifications, previously prepared by ENGINEER, to incorporate the tempered water system for the emergency showers.
3. Review the tempered water system shop drawings and incorporate into the project's existing shop drawing log.

**Compensation**

OWNER shall compensate ENGINEER for Services under this Task Order a lump sum of \$5,400.

**Schedule**

Services will begin upon execution of this Task Order, which is anticipated on April 13, 2011. Services are scheduled for completion by December 2011.

**TASK ORDER AUTHORIZATION AND ACCEPTANCE:**

ENGINEER:

STRAND ASSOCIATES, INC.®

OWNER:

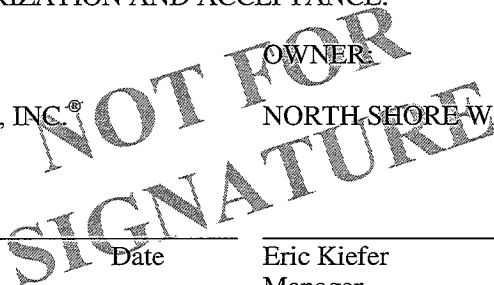
NORTH SHORE WATER COMMISSION

Matthew S. Richards  
Corporate Secretary

Date

Eric Kiefer  
Manager

Date



**North Shore Water Commission**  
Payment to Strand Associates  
Task Order Number 10-05  
April 13, 2011

An invoice from Strand Associates for engineering services pertaining to Task Order Number 10-05 has been reviewed and approved by the North Shore Water Commission. This includes invoices for work completed in February 2011.

The payment request is for \$790.00. The proportionate costs for the respective municipalities are as follows:

<u>Whitefish Bay</u>	<u>35.44%</u>	<u>\$279.98</u>
<u>Fox Point</u>	<u>22.30%</u>	<u>\$176.17</u>
<u>Glendale</u>	<u>42.26%</u>	<u>\$333.85</u>
		\$790.00

Please remember that the three municipalities must deposit these above amounts into the North Shore Water Commission Operating Account before payment can be made to Strand Associates. Your prompt attention to this matter is appreciated.

Respectfully,

---

Eric Kiefer



STRAND ASSOCIATES, INC.  
 910 West Wingra Drive  
 Madison, WI 53715  
 (608) 251-4843

**Invoice**

March 11, 2011  
 Project No: 3561.005  
 Invoice No: 0084176

Mr. Eric Kiefer  
 North Shore Water Commission  
 400 West Bender Road  
 Glendale WI 53217

Project: 3561.005 Bender WTP Fluoride Feed System Upgrade

**Professional Services: February 1, 2011 through February 28, 2011**

Total Earned	17,970.00
Previous Fee Billing	17,970.00
Current Fee Billing	0.00

**Total this project      \$0.00**

**Contract Amount**                      18,209.00

**Total Billings to date**                17,970.00

Project: 3561.006 Bender WTP Reservoir Monitoring System  
 Upgrade

Total Earned	15,390.00
Previous Fee Billing	14,600.00
Current Fee Billing	790.00

**Total this project      \$790.00**

**Outstanding Invoices**

Number	Date	Balance
0083794	2/11/11	2,150.00
<b>Total</b>		<b>2,150.00</b>

**Contract Amount**                      15,553.00

**TERMS:** Payment is due within 30 days of the date on this invoice.

---

**Total Billings to date**            15,390.00

**Total this invoice**            **\$790.00**

---

**TERMS: Payment is due within 30 days of the date on this invoice.**

Strand Associates, Inc. 910 West Wingra Drive Madison, Wisconsin 53715 608-251-4843

**North Shore Water Commission**  
**Tabulation of Proposals – Security Cameras and Equipment**

April 7, 2011

Eric Kiefer

Quotations were received for replacing various security cameras and devices that have stopped working over the past several years.

USA Bluebook

The following materials for \$2,103.80 with shipping included:

- One (1) 500 GB DVR with hard drive, 4 channel
- Four (4) dome IR security cameras (40' IR visibility, IP66 housing)
- Seven (7) IR security cameras (130' IR visibility, IP67 housing)

Supercircuits

The following materials for \$2,154.04 with shipping included:

- One (1) 500 GB DVR with hard drive, 4 channel
- Four (4) dome IR security cameras (60' IR visibility, IP67 housing)
- Seven (7) IR security cameras (60' IR visibility, IP66 housing)

SurveillanceVideo.com

The following materials for \$2,317.00 excluding shipping:

- One (1) 500 GB DVR with hard drive, 4 channel
- Four (4) dome IR security cameras (65' IR visibility, IP rating not given)
- Seven (7) IR security cameras (45' IR visibility, IP rating not given)

Skyway Security

The following materials for \$3,081.00 excluding shipping:

- One (1) 1000 GB DVR with hard drive, 4 channel
- Four (4) dome IR security cameras (65' IR visibility, IP rating not given)
- Seven (7) security cameras (night visibility not specified, IP rating not given)

**Recommendation**

I recommend the Commission authorize the purchase of the security cameras and devices as quoted above from USA Bluebook using the Maintenance Reserve Fund.

QUOTATION  
HDSFM  
D/B/A USABLUBOOK  
PO Box 9004  
Gurnee, IL 60031-9004  
Toll free: 1-800-548-1234  
Fax: (847) 689-3030

NO. 452049

Page 1

04/06/11

Ship-to: SAME  
NORTHSHORE WATER COMMISSION

Bill-to: 655419  
NORTHSHORE WATER COMMISSION

400 W BENDER RD  
GLENDALÉ WI 53217  
USA

400 W BENDER RD  
GLENDALÉ WI 53217  
USA

REFERENCE #	EXPIRES	SLSP	TERMS	WH	FREIGHT	SHIP VIA
3/24/11	04/23/11	GJJ	NET 30	01	FXD/PPD	UPS

QUOTED BY: GJJ | QUOTED TO: ERIC KIEFER

ITEM	DESCRIPTION	QUANTITY	UM	PRICE	UM	EXTENSION
45374	EDGE+ 4Ch, 500GB Surveillance DVR	1	EA	404.10	EA	404.10
41003	Professional Long Range Outdoor Security Camera	7	EA	161.11	EA	1127.77
41749	Super Resolution Dome Security Camera	4	EA	134.99	EA	539.96
ITEN # 41858 IS OBSOLETE AND REPLACED WITH # 41749 WHICH HAS UP TO 40' OF NIGHT VISION						

Please note that your order may be subject to applicable taxes based on current rates at the time your order is completed.

TO ORDER --

For your convenience, you may simply sign below and return via fax to 847-689-3030. We will process your order promptly and fax a confirmation so you know we have it. If you prefer to call your order in or have additional questions or concerns, you may contact our Customer Service Department @ 800-548-1234. Please note any changes to the quantities or shipping address. Thanks for choosing USABlueBook.

\_\_\_\_\_  
Authorization Signature

\_\_\_\_\_  
PO Number (if required)

MERCHANDISE	MISC	TAX	FREIGHT	TOTAL
2071.83	.00	.00	31.97	2103.80

USE THIS QUOTE # ON PO's!

# Cross Connections

## Independent Inspections Ltd.

W241 S4235 Pine Hollow Court

Waukesha, WI 53189

(262) 544-8280

Tuesday, March 29, 2011

Survey Site: NORTH SHORE FILTRATION PLANT

Address: 400 W BENDER ROAD

City: GLENDALE WI 53209

*This document lists the cross connections that exist in the potable water supply and water distribution system in the above site. Cross connections with protection provided are checked in the Yes column of the Protection Provided section. Cross connections listed which are not checked in the Yes column require the installation of a backflow protection assembly by a properly licensed individual. The violations listed in this notice must be corrected within 30 days of the date of this notice. A plumbing permit is required. Call 262-544-8280 to request a Cross Connection re-inspection when the work is completed.*

Date	Location	Code Section	Cross Connections	Hazard	High	Low	Yes	Date	Protection Provided	Type Of Protection	Test Req.
3/24/2011	Trane Unit	Comm 82.41	Need More Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Protection Needed		<input type="checkbox"/>
3/24/2011	Filters	Comm 82.41	Hose Connection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Need ASSE 1011		<input type="checkbox"/>

Contact Jim Adkins with questions and to schedule a re-inspection at 414-339-7373



# NORTH SHORE WATER COMMISSION

## 2010 Annual Water Quality Report

The North Shore Water Commission is pleased to present you with this year's Annual Water Quality Report. This report is designed to keep you informed about the quality of water we deliver to you every day. If you have any questions about this report or other concern about water quality, please call our Manager Eric Kiefer at (414) 963-0160 or email [Info@northshorewc.com](mailto:Info@northshorewc.com). The public is welcome to attend any of our meetings; dates and times for scheduled meetings are posted at the Glendale City Hall, Fox Point Village Hall, and Whitefish Bay Village Hall. We also have additional information available at our office regarding our treatment process, source water protection, and UV disinfection.

### Regulatory Compliance

Drinking water standards are regulations that U.S. Environmental Protection Agency (EPA) sets to control the level of contaminants in the nation's drinking water. These standards are part of the Safe Drinking Water Act (SDWA) that was signed into law in 1974. To continually improve the standards, the existing regulations are periodically updated to address the emergence of new technology and new research. These regulations are reviewed and then enforced by the Wisconsin Department of Natural Resources (WDNR).

Last year, as in years past, your tap water met all EPA and state drinking water health standards. The North Shore Water Commission vigilantly safeguards its water supplies and once again we are proud to report that our system has not violated a maximum contaminant level or any other water quality standard.

### Summary of Monitoring

This table displays the number of contaminants that were required to be tested in the last five years. This report may contain up to five years worth of water quality results. If tested annually, or more frequently, the results from the most recent year are shown on this report. If testing is done less frequently, the results are shown from the most recent testing event.

<u>Contaminant Group</u>	<u># Tested</u>
Disinfection Byproducts	2
Inorganic Contaminants	16
Microbiological Contaminants	1
Radioactive Contaminants	3
Synthetic Organic Contaminants	26
Unregulated Contaminants	34
Volatile Organic Contaminants	20

### Monitoring Results

We have learned through monitoring and testing that some contaminants have been detected; however, the EPA (Environmental Protection Agency) has determined that your water IS SAFE at these levels. All sources of drinking water are subject to potential contamination by contaminants that are naturally occurring or man made. Those contaminants can be microbes, organic or inorganic chemicals, or radioactive materials. All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate the water poses a health risk. Maximum Contaminant Levels are set at very stringent levels. To understand the possible health effects described for many regulated constituents, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised people such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care providers about drinking water. EPA/CDC (Center for Disease Control) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

# NORTH SHORE WATER COMMISSION

Parameter & (Units)	Compliance Status	Level Found (Range)	MCL	MCLG	Typical Source of Contamination
Microbiological					
Combined Filter Effluent Turbidity (NTU)	☺	0.06--Ave (0.03 - 0.16)	0.3--95% of time	NA	Soil Runoff
Inorganic Contaminants					
Barium (ppm)	☺	0.019	2	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Copper (ppm)* [Latest result from 2009]	☺	0.065--90th Percentile (0.001 - 0.190)	AL=1.3	1.3	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Fluoride (ppm)	☺	1.05--Ave (0.81 - 1.20)	4	4	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Lead (ppb)* [Latest result from 2009]	☺	6.9--90th Percentile (ND - 20)	AL = 15	0	Corrosion of household plumbing systems; Erosion of natural deposits
Nitrate (NO <sub>3</sub> -N) (ppm)	☺	0.31	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Sodium (ppm)	☺	9.1	NA	NA	NA
Radioactive Contaminants					
Gross Beta Particle Activity* (pCi/L)* [Latest result from 2008]	☺	2.5 ± 2.1	NA	NA	Decay of natural and man-made deposits. MCL units are in millirem/year. Calculation for compliance with MCL is not possible unless level found is greater than 50 pCi/L.
Radium, 226 + 228 (pCi/L)* [Latest result from 2009]	☺	1.11	5	0	Erosion of natural deposits.
Combined Uranium (ug/L)* [Latest result from 2009]	☺	0.34 ± 0.06	5	0	Erosion of natural deposits.
Gross Alpha Particle Activity (pCi/L)* [Latest result from 2009]	☺	0.46 ± 0.81	5	0	Erosion of natural deposits.
Gross Alpha (excluding radon and uranium) (pCi/L)* [Latest result from 2009]	☺	0.2	5	0	Erosion of natural deposits.
Disinfection By-products					
HAA5 (ppb)	☺	7.9--Ave (4.5 - 9.6)	60	60	By-product of drinking water chlorination
TTHM (ppb)	☺	16.8--Ave (10.2 - 20.6)	80	0	By-product of drinking water chlorination
Unregulated Contaminants					
Bromodichloromethane (ppb)	☺	6.15--Ave (4.30 - 7.50)	NA	NA	NA
Chloroform (ppb)	☺	7.25--Ave (3.30 - 10.00)	NA	NA	NA
Dibromochloromethane (ppb)	☺	3.35--Ave (2.60 - 3.90)	NA	NA	NA
Sulfate (ppm)	☺	25	NA	NA	NA
Other Parameters					
Alkalinity (ppm)	☺	112--Ave	NA	NA	NA
Hardness (ppm)	☺	137--Ave	NA	NA	NA
pH (pH units)	☺	7.78--Ave	NA	NA	NA

# NORTH SHORE WATER COMMISSION

## Abbreviations and Definitions

Not Applicable (NA): Not applicable.

Not Detected (ND): Laboratory analysis indicates that the constituent is not present.

Parts per million (ppm) or Milligrams per liter (mg/l): One part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (ppb) or Micrograms per liter: One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Parts per trillion (ppt) or Nanograms per liter (nanograms/l): One part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

Parts per quadrillion (ppq) or Picograms per liter (picograms/l): One part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.

Picocuries per liter (pCi/L): Picocuries per liter is a measure of the radioactivity in water.

Millirems per year (mrem/yr): measure of radiation absorbed by the body.

Million Fibers per Liter (MFL): Million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.

Nephelometric Turbidity Unit (NTU): Nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Treatment Technique (TT): A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

Maximum Contaminant Level (MCL): The "Maximum Allowed" (MCL) is the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG): The "Goal" (MCLG) is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

## Source Water Assessment

The North Shore Water Commission purifies water from Lake Michigan. The latest evaluation by the Wisconsin Department of Natural Resources (WDNR) indicates our source water quality is susceptible to pollution and contaminants. Preserving the water quality of Lake Michigan is essential to maintaining your drinking water quality. For more information on the impacts to your source of drinking water, see the Source Water Assessment for North Shore Water Commission at <http://www.dnr.state.wi.us/org/water/dwg/SWAP/index.htm>.

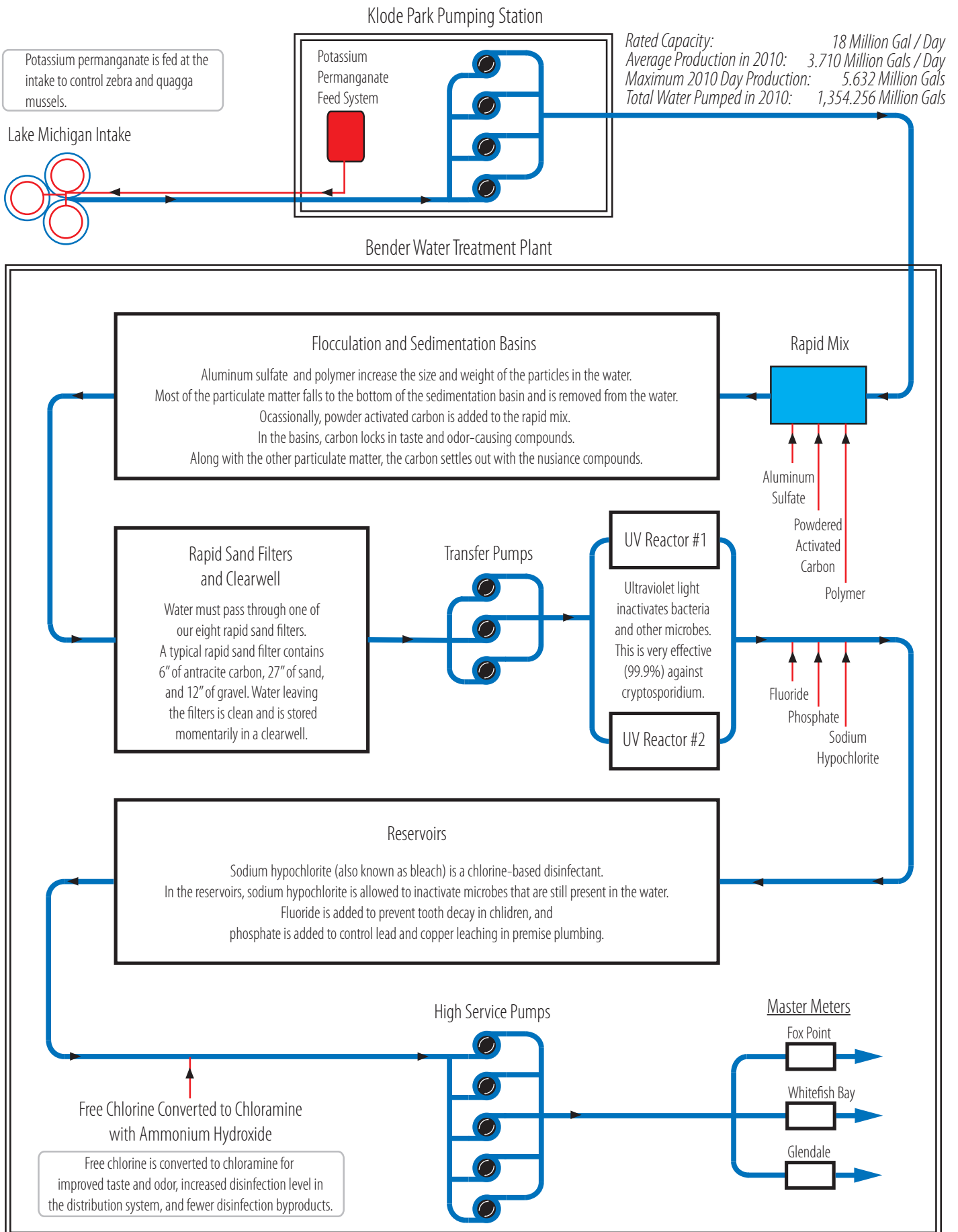
## Education Information

The sources of drinking water, both tap water and bottled water, include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include:

- **MICROBIAL CONTAMINANTS**, SUCH AS VIRUSES AND BACTERIA, WHICH MAY COME FROM SEWAGE TREATMENT PLANTS, SEPTIC SYSTEMS, AGRICULTURAL LIVESTOCK OPERATIONS AND WILDLIFE.
- **INORGANIC CONTAMINANTS**, SUCH AS SALTS AND METALS, WHICH CAN BE NATURALLY-OCCURRING OR RESULT FROM URBAN STORMWATER RUNOFF, INDUSTRIAL OR DOMESTIC WASTEWATER DISCHARGES, OIL AND GAS PRODUCTION, MINING OR FARMING.
- **PESTICIDES AND HERBICIDES**, WHICH MAY COME FROM A VARIETY OF SOURCES SUCH AS AGRICULTURE, URBAN STORMWATER RUNOFF AND RESIDENTIAL USES.
- **ORGANIC CHEMICAL CONTAMINANTS**, INCLUDING SYNTHETIC AND VOLATILE ORGANIC CHEMICALS, WHICH ARE BY-PRODUCTS OF INDUSTRIAL PROCESSES AND PETROLEUM PRODUCTION, AND CAN ALSO COME FROM GAS STATIONS, URBAN STORMWATER RUNOFF AND SEPTIC SYSTEMS.
- **RADIOACTIVE CONTAMINANTS**, WHICH CAN BE NATURALLY OCCURRING OR BE THE RESULT OF OIL AND GAS PRODUCTION AND MINING ACTIVITIES.

In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water, which should provide the same protection for public health.

# Overview of the North Shore Water Commission's Water Treatment Process



# NORTH SHORE WATER COMMISSION

## Organization and Structure

The North Shore Water Commission consists of three appointed Commissioners and three appointed Alternates with equal representation from Glendale, Whitefish Bay, and Fox Point. Each member is appointed by his/her respective municipality for a term of one year. Annually, the responsibilities of Chairperson, Secretary and Member are rotated giving each community equal share of authority.

Under normal circumstances, the Commission convenes monthly and reviews the operation and maintenance of the water treatment facility as well as water quality. After discussion, the Commission votes on proposed action, spending and budgets. Capital improvements, such as the UV disinfection upgrade, must be unanimously approved and financed by the member communities. Furthermore, the distribution, metering and billing of all water used is the responsibility of each member community.

## Current Projects

We started working on the reservoir monitoring project last year and made substantial progress with engineering and fabricating level monitoring devices. The new equipment will provide accurate water-level measurements of each reservoir and will safeguard them against overfilling. This project is scheduled to be completed this year.

Engineering was also completed at Klode Park pumping station where we will be switching to a new polymer-based feed system for mussel control and the Bender Filtration Plant where the fluoride feed system will be updated. The upgrades will replace out-dated equipment.

Furthermore, we are in the process of upgrading our supervisory control and data acquisition (SCADA) system; this equipment includes the industrial computers that perform critical functions such as starting and stopping pumps. The old system is nearly 20 years old and is difficult to maintain due to a shortage of supplies and lack of vendor support. This project started in the end of 2008 and is anticipated to finish at the end of 2011.

## Current Officials

Whitefish Bay: Dan Naze, Chairman  
(414) 962-6690; [engineer@wfbvillage.org](mailto:engineer@wfbvillage.org)  
Richard Foster, Alternate  
(414) 962-6690

Fox Point: Michael West, Secretary  
(414) 352-2712  
Susan Robertson, Alternate  
(414) 351-8900; [srobertson@vil.fox-point.wi.us](mailto:srobertson@vil.fox-point.wi.us)

Glendale: Richard Maslowski, Member  
(414) 228-1705; [cityhall@glendale-wi.org](mailto:cityhall@glendale-wi.org)  
Dave Eastman, Alternate  
(414) 228-1746; [cityhall@glendale-wi.org](mailto:cityhall@glendale-wi.org)

Management: Eric Kiefer, Plant Manager  
(414) 963-0160; [info@northshorewc.com](mailto:info@northshorewc.com)

## Location

The water filtration plant is located at 400 West Bender Road, Glendale, Wisconsin 53217. We also operate and maintain the Klode Park Pump Station located in Whitefish Bay. If you would like to schedule a visit or request more information, please call (414) 963-0160.

## Additional Information

For additional information about water quality on the internet, please visit the WDNR's web site at <http://dnr.wi.gov/org/water/dwg>, the EPA's web site at <http://www.epa.gov/safewater>, or our web site at <http://www.northshorewc.com>. For more information about our member communities visit: <http://www.glendale-wi.org/>, <http://www.wfbvillage.org/>, and <http://www.vil.fox-point.wi.us/>.

**April 13, 2011**

**Manager's report of completed operational projects  
March 9<sup>th</sup> – April 12<sup>th</sup>**

1. Filter maintenance is still underway. Surface sandwash nozzles are being repaired and the external surfaces are being pressure-washed. Some valve actuators are also receiving maintenance.
2. The Bayside meters and the School Road meters were tested by L&R Meter Testing. After making a minor repair to the 2" meter at Greenvale, all of the meters were found to be in good operating condition.
3. Plant staff installed a float switch in the Green Tree meter pit much like the one installed in the Henry Clay meter pit. When data is downloaded every month, plant staff will receive an indication as to which pits require pumping without visually checking.
4. Plant staff has finished connecting the fluoride transfer pumps to RTU7 so they can be controlled via the SCADA system. Extra cables and input/output cards have been installed to accommodate new transfer pumps for sodium hypochlorite and aluminum sulfate.
5. Plant staff worked with technical support from TrojanUV to repair control equipment for UV reactor #2. After troubleshooting the problem, the solution was a replacement of one of the communication boards in its control panel. Also routine maintenance was performed on UV reactor #1.
6. Plant staff installed new communication wire going to the SWAN chlorine analyzer and started recording 2 additional measurements using the SCADA system.
7. The Plant Manager has entered into the following agreements in accordance to the purchasing policy:
  - SEH: services pertaining to newly required drain-down inspection of reservoirs and clearwell from 2011 to 2015. Lump sum fees--\$2,600 (2011), \$2,700 (2012), \$2,800 (2013), \$2,900 (2014), and \$3,400 (2015). Either party may cancel in writing without cause 30 days in advance to termination.





NORTH SHORE WATER COMMISSION  
 WHOLESALE WATER SALES  
 FOR YEAR: 2011

WHOLESALE INCOME BY COMPONENT  
 (Top: JAN-MAR, Bottom: APR-DEC)

FACILITIES CHARGE

MONTH	CUSTOMER	KGAL PURCHASED	WHOLESALE RATE (\$/KGAL)	TOTAL VOLUME CHARGE	WHOLESALE INCOME BY COMPONENT			FACILITIES CHARGE			AMOUNT BILLED		
					CAPITAL \$/Kgal \$0.720 / Kgal	OPERATING \$ \$0.891 / Kgal	CONVEYANCE \$0.390 / Kgal	FOR 2010 FACILITIES UPKEEP					
								DISTRIBUTION OF CONVEYANCE CHARGE			\$500 / yr	NSWC REVENUE	
								FOX PT: 0.60	GLEN: 0.20	WFB: 0.20			
JANUARY	Mequon Water	3,908	\$ 2.001	\$ 7,819.91	\$ 2,813.76	\$ 3,482.03	\$ 1,524.11	\$ 914.47	\$ 304.82	\$ 304.82	\$ -	\$ 6,295.80	\$ 7,819.91
FEBRUARY	Mequon Water	3,549	\$ 2.001	\$ 7,101.55	\$ 2,555.28	\$ 3,162.16	\$ 1,384.11	\$ 830.47	\$ 276.82	\$ 276.82	\$ -	\$ 5,717.44	\$ 7,101.55
MARCH	Mequon Water	4,012	\$ 2.001	\$ 8,028.01	\$ 2,888.64	\$ 3,574.69	\$ 1,564.69	\$ 938.81	\$ 312.94	\$ 312.94	\$ 500.00	\$ 6,963.32	\$ 8,528.01
APRIL	Mequon Water		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
MAY	Mequon Water		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
JUNE	Mequon Water		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
JULY	Mequon Water		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
AUGUST	Mequon Water		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SEPTEMBER	Mequon Water		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
OCTOBER	Mequon Water		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
NOVEMBER	Mequon Water		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
DECEMBER	Mequon Water		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTALS		11,469		\$ 22,949.47	\$ 8,257.68	\$ 10,218.88	\$ 4,472.91	\$ 2,683.75	\$ 894.58	\$ 894.58	\$ 500.00	\$ 18,976.56	\$ 23,449.47