

AGENDA
NORTH SHORE WATER COMMISSION

400 West Bender Road
Glendale, WI 53217
Wednesday, May 4, 2011
7:30 A.M.

1. Call to order by the Chairman.
2. Annual rotation of office: Fox Point, Chairman; Glendale, Secretary; Whitefish Bay, Member.
3. Pursuant to section 19.85 (1)(g) Wisconsin Statutes, the Commission reserves the right to convene in closed session to confer with legal counsel regarding a worker's compensation case the Commission is involved in. The Commission will reconvene into open session to conduct business regarding the remaining items on the agenda.
4. Approval of the minutes of the meeting held Wednesday, April 13, 2011.
5. Monthly report of plant operations for April.
6. Discussion of annual operating budget.
7. Approval of monthly bills.
8. Discussion and approval to pay Strand Associates for engineering services rendered under Task Order Numbers: 10-04, 10-05, and 10-06.
9. Discussion and approval to repair raw water pump #2 and raw water motor #2 at Klode Park pumping station.
10. Discussion of issues pertaining to Shorewood's request to become a member. Possible action may be taken regarding this matter.
11. Computer Administrator's quarterly report on the SCADA Upgrade Project.
12. Manager's report for April.
13. Date and time of the next regular Commission Meeting.
14. Adjournment.

**NORTH SHORE WATER COMMISSION
MEETING OF April 13, 2011**

A meeting of the North Shore Water Commission was held at the Filtration Plant, 400 West Bender Road, Glendale, Wisconsin on Wednesday, April 13, 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

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, March 9 be approved as drafted.

MONTHLY REPORT OF PLANT OPERATIONS

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

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 March, 2011 be approved and authorization was given to the Fiscal Agent to make such payments:

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
<u>Maintenance Reserve</u>		-
	SUB-TOTAL	\$0.00
	TOTAL	\$36,971.89

PROPOSAL BY STRAND ASSOCIATES TO INVESTIGATE AND DESIGN MODIFICATIONS TO SAFTEY SHOWER SYSTEM

Mr. Kiefer discussed the proposal from Strand Associates to investigate and design modification to the plant's safety shower system—Task Order No 11-01. Unlike most facilities, the temperature of the cold water in the building is typically between 32 and 42 degrees Fahrenheit, and the ambient temperature in the basement is usually between 40 and 50 degrees Fahrenheit. Although building code does not require tempered water in safety shower systems, the Bender facility has unique environmental conditions that may make the shower ineffective or potentially dangerous to use as recommended under low-temperature conditions.

After discussion, it was moved by Mr. West, seconded by Mr. Maslowski, and unanimously carried that the Commission approve Task Order No 11-01 by Strand Associates for an amount not to exceed \$5,400.00. Funding to come from each community based on current capital allocation percentages.

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

After discussion, it was moved by Mr. Maslowski, seconded by Mr. West, and unanimously carried that the Commission approve payment to Strand Associates in the amount of \$790.00. Funding to come from each community based on current capital allocation percentages.

DISCUSSION AND APPROVAL TO PURCHASE SECURITY CAMERAS AND EQUIPMENT

The Commission maintains over 60 cameras that are installed in the plant and at remote pumping facilities. Over the last 5 to 6 years, equipment has failed. Quotations were solicited from vendors to replace non-functioning equipment: one 4-channel DVR, four dome IR security cameras, and seven fixed position IR cameras. Equipment quoted from USA Bluebook was the cheapest.

After discussion, it was moved by Mr. West, seconded by Mr. Maslowski, and unanimously carried that the Commission to purchase the quoted security equipment from USA Bluebook for an amount not to exceed \$2,103.80. Funding to come from the Maintenance Reserve Fund.

DISCUSSION OF RECENT REGULATORY INSPECTIONS

Mr. Kiefer reported that the City of Glendale inspected the Bender facility and found that the compressor for the air conditioning system was not a potential cross connection. However, that determination was based on close review of plant documentation and physical inspection; it is possible that future inspections may result in a different determination. Consequently, the Plant Manger discussed the need to include this device in the capital improvement plan to avoid an unplanned replacement.

The Department of Natural Resources (DNR) also inspected the facilities during a sanitary survey. No written report was available at the time of the meeting, but one item that was discussed during the visit was related to the UV system. Although the Commission does not receive official credit from the DNR for cryptosporidium inactivation, the DNR mentioned that the energy-saving mode that was programmed as an additional feature would not receive credit without further study. The manufacturer of the system has been contacted regarding this matter as well as engineering firms specializing in UV. Running the system without the UV reactor in the energy-saving mode will cost the Commission an additional \$10,000 each year.

DISCUSSION AND APPROVAL OF THE 2010 ANNUAL WATER QUALITY REPORT

After a brief discussion, it was moved by Mr. West, seconded by Mr. Maslowski, and unanimously carried that the Commission to approve the 2010 Annual Water Quality Report as drafted.

SHOREWOOD'S REQUEST TO BECOME A MEMBER

Mr. Naze discussed the meetings that have convened by staff of NSWC, Shorewood, and Whitefish Bay regarding the engineering study to connect Shorewood's water system to Whitefish Bay's and Glendale's. Technically, there does not appear to be any problems servicing Shorewood through the members' distribution systems. Furthermore, Mr. Naze mentioned that members will have to soon discuss how conveyance charges will be addressed, if necessary.

Mr. Kiefer pointed out that the capital improvement plan should be reprioritized to schedule the replacement of valves in the master meter pits as soon as possible. Since existing members have local storage facilities, the plant can be shut down to repair these valves; otherwise, additional cost will be incurred to prevent the interruption of service to Shorewood—if they were to become a member.

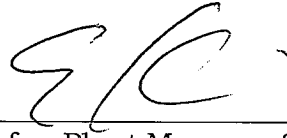
PLANT MANAGER'S MONTHLY REPORT

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. 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.

NEXT MEETING DATE AND ADJOURNMENT

The meeting adjourned at 8:34 A.M. The next scheduled regular meeting will be on Wednesday, May 4, 2011 at 7:30 A.M.

A handwritten signature in black ink, appearing to be 'EK', written above a horizontal line.

Eric Kiefer, Plant Manager & Recording Secretary

NORTH SHORE WATER COMMISSION
Income Statement
For the Three Months Ending March 31, 2011

Acct.	Revenues	Current Month Actual	Current Month Budget	Year to Date Actual	Year to Date Budget	Variance
43310	Whitefish Bay-Operations	\$ 39,134.35	\$ 39,134.35	\$ 117,403.05	\$ 117,403.05	0.00
43320	Fox Point-Operations	19,438.37	19,438.37	58,315.11	58,315.11	0.00
43330	Glendale-Operations	58,525.87	58,525.87	175,577.61	175,577.61	0.00
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	3,574.68	0.00	10,218.88	0.00	10,218.88
45400	Mequon Facilities Charges	500.00	0.00	500.00	0.00	500.00
45900	Misc Income	0.00	0.00	192.00	0.00	192.00
45910	Lab Services Income	0.00	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
	Total Revenues	121,173.27	117,098.59	363,856.65	351,295.77	12,560.88

Acct.	Wholesale Water Expenses					
53300	Wholesale Water Expense	0.00	0.00	0.00	0.00	0.00
	Total Wholesale Water Sales	0.00	0.00	0.00	0.00	0.00

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	2,000.01	(2,000.01)
60700	Standby Service - Milwaukee	0.00	291.67	1,350.00	875.00	475.00
60800	Great Lake Withdrawall Fee	0.00	802.08	0.00	2,406.24	(2,406.24)
	Total Source of Supply Expe	0.00	1,760.42	1,350.00	5,281.25	(3,931.25)

Acct.	Pumping Expenses					
62100	Labor & Super. Klode	8,911.91	10,227.41	28,052.56	30,682.23	(2,629.67)
62200	Electricity	16,771.01	19,750.00	50,130.73	59,250.00	(9,119.27)
62300	Normal Supplies, Klode	392.91	552.50	1,170.53	1,657.50	(486.97)
62400	Unusual Maint., Klode Pump	0.00	1,666.67	0.00	5,000.01	(5,000.01)
62510	Unusual Maint., Klode Suppl	325.00	166.67	325.00	500.01	(175.01)
62520	Unusual Maint., Klode Labor	754.33	275.00	754.33	825.00	(70.67)
62600	Electricity Demand	74.00	0.00	74.00	0.00	74.00
62700	Unusual Maint., Bender Pum	0.00	316.67	0.00	950.01	(950.01)
62750	Care of Grounds	0.00	291.67	0.00	875.01	(875.01)
	Total Pumping Expenses	27,229.16	33,246.59	80,507.15	99,739.77	(19,232.62)

Acct.	Purification Expenses					
63100	Labor & Super., Bender	17,308.41	20,292.08	53,572.10	60,876.24	(7,304.14)
63200	Normal Supplies, Bender	2,541.06	3,083.33	10,920.28	9,249.99	1,670.29
63300	Heating at Bender	2,444.56	2,000.00	8,835.93	6,000.00	2,835.93
63400	Disposal of Sludge	445.86	583.33	445.86	1,749.99	(1,304.13)
63510	Unusual Maint., Bender Supp	599.00	1,333.33	599.00	3,999.99	(3,400.99)
63520	Unusual Maint., Bender Labo	1,541.13	1,583.33	2,243.85	4,749.99	(2,506.14)
63600	Laboratory	3,064.66	2,200.42	8,986.56	6,601.26	2,385.30
63700	Instrumentation	1,933.67	2,041.67	22,301.91	6,125.01	16,176.90
63750	Care of Grounds	0.00	291.67	0.00	875.01	(875.01)
63800	Treatment Chemicals	1,060.90	8,792.00	14,900.71	26,376.00	(11,475.29)
	Total Purification Expenses	30,939.25	42,201.16	122,806.20	126,603.48	(3,797.28)

Acct. Transmission Main Expenses

NORTH SHORE WATER COMMISSION
Income Statement
For the Three Months Ending March 31, 2011

Acct.	Revenues	Current Month Actual	Current Month Budget	Year to Date Actual	Year to Date Budget	Variance
64100	Labor & Super., Trans. Main	0.00	108.33	238.00	324.99	(86.99)
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	1,500.00	(1,500.00)
64600	Maint of Trans Mains	0.00	0.00	0.00	0.00	0.00
64700	Maint. of Meters	311.80	208.33	311.80	624.99	(313.19)
	Total Trans. Mains Expenses	311.80	816.66	549.80	2,449.98	(1,900.18)
Acct.	Administration & General Expenses					
92000	Office & Admin. Salaries	6,408.08	7,083.33	23,224.24	21,249.99	1,974.25
92100	Office Expenses	665.00	1,180.83	3,135.56	3,542.49	(406.93)
92200	Engineering Services	2,337.95	1,666.67	2,337.95	5,000.01	(2,662.06)
92300	Professional Services	6,020.74	3,605.42	18,673.47	10,816.26	7,857.21
92400	Prop & P.L. Insurance	827.42	5,000.00	10,994.55	15,000.00	(4,005.45)
92500	Injuries & Damages	0.00	0.00	0.00	0.00	0.00
92600	WI Retirement Fund	3,998.34	4,416.67	12,525.13	13,250.01	(724.88)
92620	Other Employee Benefits	9,883.87	10,833.33	28,755.02	32,499.99	(3,744.97)
92700	Bond, Fiscal Agent	0.00	0.00	0.00	0.00	0.00
92800	NSWC Expense	0.00	250.00	0.00	750.00	(750.00)
92900	Employee Training Expense	3,188.70	720.83	3,424.70	2,162.49	1,262.21
93000	Misc. General Expense	503.87	166.67	728.88	500.01	228.87
93100	Recording Secretary	0.00	0.00	0.00	0.00	0.00
93300	Transportation Expense	75.90	166.67	143.29	500.01	(356.72)
93500	Maint-Office Equipment	0.00	0.00	0.00	0.00	0.00
93600	General Outdoor Expense	440.00	483.33	1,317.78	1,449.99	(132.21)
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	2,506.11	3,083.33	7,945.83	9,249.99	(1,304.16)
94100	Relocation Expense	0.00	0.00	0.00	0.00	0.00
94500	Contingency Expense	0.00	416.67	0.00	1,250.01	(1,250.01)
	Total Adm. & General Expen	36,855.98	39,073.75	113,206.40	117,221.25	(4,014.85)
	Total Expenses	95,336.19	117,098.58	318,419.55	351,295.73	(32,876.18)
	Net Income	\$ 25,837.08	\$ 0.01	\$ 45,437.10	\$ 0.04	45,437.06

NORTH SHORE WATER COMMISSION
Income Statement (2 Year Comp.)
For the Three Months Ending March 31, 2011

Acct.	Revenues	Current Month Actual	Current Month Last year	Year to Date Actual	Year to Date Last year	Variance
43310	Whitefish Bay-Operations	\$ 39,134.35	\$ 38,895.93	\$ 117,403.05	\$ 116,687.79	715.26
43320	Fox Point-Operations	19,438.37	19,493.89	58,315.11	58,481.67	(166.56)
43330	Glendale-Operations	58,525.87	56,415.18	175,577.61	169,245.54	6,332.07
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	3,574.68	2,880.08	10,218.88	8,346.55	1,872.33
45400	Mequon Facilities Charges	500.00	500.00	500.00	500.00	0.00
45900	Misc Income	0.00	0.00	192.00	0.00	192.00
45910	Lab Services Income	0.00	1,185.00	1,650.00	3,135.00	(1,485.00)
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
	Total Revenues	121,173.27	119,370.08	363,856.65	356,396.55	7,460.10

Acct.	Wholesale Water Expenses					
53300	Wholesale Water Expense	0.00	0.00	0.00	0.00	0.00
	Total Wholesale Water Sales	0.00	0.00	0.00	0.00	0.00

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	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
	Total Source of Supply Expe	0.00	0.00	1,350.00	1,350.00	0.00

Acct.	Pumping Expenses					
62100	Labor & Super. Klode	8,911.91	8,733.91	28,052.56	23,755.42	4,297.14
62200	Electricity	16,771.01	14,916.28	50,130.73	44,860.03	5,270.70
62300	Normal Supplies, Klode	392.91	977.15	1,170.53	1,894.84	(724.31)
62400	Unusual Maint., Klode Pump	0.00	0.00	0.00	57.33	(57.33)
62510	Unusual Maint., Klode Suppl	325.00	0.00	325.00	769.63	(444.63)
62520	Unusual Maint., Klode Labor	754.33	1,196.33	754.33	1,196.33	(442.00)
62600	Electricity Demand	74.00	0.00	74.00	0.00	74.00
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
	Total Pumping Expenses	27,229.16	25,823.67	80,507.15	72,533.58	7,973.57

Acct.	Purification Expenses					
63100	Labor & Super., Bender	17,308.41	16,941.22	53,572.10	47,523.12	6,048.98
63200	Normal Supplies, Bender	2,541.06	2,843.95	10,920.28	9,030.54	1,889.74
63300	Heating at Bender	2,444.56	2,297.06	8,835.93	8,748.31	87.62
63400	Disposal of Sludge	445.86	992.39	445.86	1,624.39	(1,178.53)
63510	Unusual Maint., Bender Supp	599.00	2,568.70	599.00	3,004.04	(2,405.04)
63520	Unusual Maint., Bender Labo	1,541.13	2,037.91	2,243.85	2,386.31	(142.46)
63600	Laboratory	3,064.66	0.00	8,986.56	8,093.50	893.06
63700	Instrumentation	1,933.67	0.00	22,301.91	19,817.40	2,484.51
63750	Care of Grounds	0.00	0.00	0.00	0.00	0.00
63800	Treatment Chemicals	1,060.90	9,487.26	14,900.71	18,485.80	(3,585.09)
	Total Purification Expenses	30,939.25	37,168.49	122,806.20	118,713.41	4,092.79

Acct. Transmission Main Expenses

NORTH SHORE WATER COMMISSION
Income Statement (2 Year Comp.)
For the Three Months Ending March 31, 2011

Acct.		Current Month Actual	Current Month Last year	Year to Date Actual	Year to Date Last year	Variance
	Revenues					
64100	Labor & Super., Trans. Main	0.00	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	311.80	0.00	311.80	0.00	311.80
	Total Trans. Mains Expenses	311.80	0.00	549.80	0.00	549.80
	Administration & General Expenses					
92000	Office & Admin. Salaries	6,408.08	6,408.08	23,224.24	19,224.24	4,000.00
92100	Office Expenses	665.00	792.40	3,135.56	2,598.69	536.87
92200	Engineering Services	2,337.95	0.00	2,337.95	0.00	2,337.95
92300	Professional Services	6,020.74	2,954.83	18,673.47	12,666.40	6,007.07
92400	Prop & P.L. Insurance	827.42	238.17	10,994.55	238.17	10,756.38
92500	Injuries & Damages	0.00	0.00	0.00	0.00	0.00
92600	WI Retirement Fund	3,998.34	3,634.27	12,525.13	11,135.06	1,390.07
92620	Other Employee Benefits	9,883.87	9,240.62	28,755.02	27,816.14	938.88
92700	Bond, Fiscal Agent	0.00	0.00	0.00	0.00	0.00
92800	NSWC Expense	0.00	0.00	0.00	1,000.00	(1,000.00)
92900	Employee Training Expense	3,188.70	178.00	3,424.70	928.00	2,496.70
93000	Misc. General Expense	503.87	252.37	728.88	448.44	280.44
93100	Recording Secretary	0.00	90.00	0.00	180.00	(180.00)
93300	Transportation Expense	75.90	62.11	143.29	135.22	8.07
93500	Maint-Office Equipment	0.00	0.00	0.00	0.00	0.00
93600	General Outdoor Expense	440.00	0.00	1,317.78	520.00	797.78
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	2,506.11	2,408.45	7,945.83	6,656.69	1,289.14
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
	Total Adm. & General Expen	36,855.98	26,259.30	113,206.40	83,547.05	29,659.35
	Total Expenses	95,336.19	89,251.46	318,419.55	276,144.04	42,275.51
	Net Income	\$ 25,837.08	\$ 30,118.62	\$ 45,437.10	\$ 80,252.51	(34,815.41)

NORTH SHORE WATER COMMISSION
Maintenance Reserve Income Statement
For the Three Months Ending March 31, 2011

	Current Month This Year	Current Month Last Year	Year to Date This Year	Year to Date Last Year
Revenues				
Whitefish Bay-Maint Reserve	\$ 761.96	\$ 420.64	\$ 8,509.86	\$ 420.64
Fox Point-Maint Reserve	479.45	0.00	5,354.67	0.00
Glendale-Maint Reserve	908.59	501.60	10,147.47	501.60
Interest	79.42	98.54	245.42	278.39
Wholesale Water Sales	2,888.64	2,384.35	8,257.68	6,909.90
	<hr/>	<hr/>	<hr/>	<hr/>
Total Revenues	5,118.06	3,405.13	32,515.10	8,110.53
	<hr/>	<hr/>	<hr/>	<hr/>
Expenses				
Capital Outlays Maint Reserve	790.00	95.24	25,526.20	30,911.91
	<hr/>	<hr/>	<hr/>	<hr/>
Total Expenses	790.00	95.24	25,526.20	30,911.91
	<hr/>	<hr/>	<hr/>	<hr/>
Net Income	\$ 4,328.06	\$ 3,309.89	\$ 6,988.90	\$ (22,801.38)
	<hr/> <hr/>	<hr/> <hr/>	<hr/> <hr/>	<hr/> <hr/>

NORTH SHORE WATER COMMISSION
 Operating Fund Balance Sheet
 March 31, 2011 and 2010

	<u>Current Year</u>	<u>Prior Year</u>
ASSETS		
Cash		
Petty Cash	\$ 50.00	50.00
Checking	140,134.63	53,268.68
Temporary Investments	25,127.30	25,620.98
	<hr/>	<hr/>
Total Cash	165,311.93	78,939.66
Accounts Receivable	16,409.56	15,109.90
Prepaid Expenses	10,151.21	13,652.33
Due to/from Storm Sewer Fund	165.81	0.00
Due to/from Maint Reserve Fund	100,417.26	86,036.89
	<hr/>	<hr/>
Total Assets	\$ 292,455.77	193,738.78
	<hr/> <hr/>	<hr/> <hr/>
LIABILITIES AND FUND BALANCE		
Liabilities		
Accounts Payable	\$ 44,992.52	37,646.34
Payable to Municipalities	2,948.80	1,361.49
Wages Payable	16,848.30	0.00
Accrued Payroll Taxes	1,288.89	0.00
Payroll Liabilities	988.84	989.29
Federal & FICA Taxes Payable	0.00	(13.48)
Flexible Spending Accounts	3,721.62	962.18
Deferred Revenue - WB	69,039.00	0.00
Deferred Revenue - Glendale	35,139.13	0.00
	<hr/>	<hr/>
Total Liabilities	174,967.10	40,945.82
Fund Balances:		
Operating Fund: Beginning of Year		
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
Emergency Fund: Beginning of Year		
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	45,437.10	80,252.51
	<hr/>	<hr/>
Total Fund Balances	117,488.67	152,792.96
	<hr/>	<hr/>
Total Liabilities & Fund Balance	\$ 292,455.77	193,738.78
	<hr/> <hr/>	<hr/> <hr/>

NORTH SHORE WATER COMMISSION
Maintenance Reserve Capital Projects Fund Balance Sheet
March 31, 2011 and 2010

	<u>Current Year</u>	<u>Prior Year</u>
ASSETS		
Savings	\$ 566,154.82	564,988.09
Receivable for Asset Additions	479.45	0.00
Due to/from Operations Fund	(100,417.26)	(86,036.89)
	<hr/>	<hr/>
Total Assets	\$ 466,217.01	478,951.20
	<hr/> <hr/>	<hr/> <hr/>
LIABILITIES AND FUND BALANCE		
Liabilities		
Accounts Payable Cap Projects	\$ 790.00	95.24
	<hr/>	<hr/>
Total Liabilities	790.00	95.24
Fund Balances:		
Reserve Fund: Beginning of Year		
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
Current Year Revenues Over (Under) Expenses	6,988.90	(22,801.38)
	<hr/>	<hr/>
Total Fund Balances	465,427.01	478,855.96
	<hr/>	<hr/>
Total Liabilities & Fund Balance	\$ 466,217.01	478,951.20
	<hr/> <hr/>	<hr/> <hr/>

BILLS TO BE APPROVED AT COMMISSION MEETING OF

5/4/11

Allied Electronics (electrical supplies to fix dehumidifier)	60.78
Brooks Rand Labs (total chromium analysis-ultra low level)	120.00
Cintas (uniform and janitorial supplies)	203.46
Columbia Analytical Services (chromium-6 analysis)	400.00
Diversified Benefit Services (section 125 plan administration)	90.00
Eric Kiefer (reimb: postage)	39.60
Fuchs & Boyle (legal services)	497.25
General Chemical (treatment chemical: aluminum sulfate)	5,546.40
Grainger (hardware, plumbing supplies, fuses, tape, and lamps)	142.60
Graybar (control wire for chemical transfer pumps)	659.18
Great America (lease payment for office copier)	87.00
Hawkins (treatment chemicals: aqua ammonia and polymer)	1,104.20
Jonathan Lee (reimb: certification renewal)	45.00
KA Steel Chemicals (treatment chemical: sodium hypochlorite)	2,995.10
LR Meter Testing (school road meter testing)	311.80
McMaster Carr (tube, fittings, clamps, valves)	153.44
Milwaukee 7 Water Council (renew annual membership)	1,000.00
Paul Potvin (reimb: certification renewal)	99.00
Rotroff Jeanson (monthly accounting services)	875.00
Superior Lamp Inc. (fluorescent lamps)	478.05
Swan (part for Swan analyzer)	176.10
Time Warner Cable (Klode phone)	32.13
Time Warner Cable (internet service)	764.80
UPS Store (shipping)	133.29
USABluebook (chlorine and turbidimeter kits)	1,274.33
Village Ace Hardware (hardware)	8.07
Village of Shorewood (water system engineering study, NSWC's share)	2,337.95
Waste Management (garbage disposal)	400.92
Water Research Foundation (renewal of annual membership)	2,999.70
We Energies (Henry Clay electric)	11.75
Wilkens-Anderson (lab supplies)	57.92
Wisconsin State Lab of Hygiene (fluoride analysis)	40.00

SUB-TOTAL \$23,144.82

Maintenance Reserve

USABluebook (security cameras and equipment)	2,103.80
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SUB-TOTAL \$2,103.80

TOTAL \$25,248.62

4/30/2011 Checking account balance \$139,432.28

4/30/2011 Local Government Investment Pool balance \$566,222.70

North Shore Water Commission

Payment to Strand Associates

Task Order Numbers 10-04, 10-5, 10-6

May 4, 2011

An invoice from Strand Associates for engineering services pertaining to Task Order Numbers 10-04, 10-05, and 10-06 has been reviewed and approved by the North Shore Water Commission. This invoice pertains to work completed in March 2011.

The payment request is for \$402.00. The proportionate costs for the respective municipalities are as follows:

Whitefish Bay	35.44%	\$142.47
Fox Point	22.30%	\$89.64
Glendale	42.26%	\$169.89
		\$402.00

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

April 13, 2011
 Project No: 3561.005
 Invoice No: 0084740

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: March 1, 2011 through March 31, 2011

Total Earned	18,209.00
Previous Fee Billing	17,970.00
Current Fee Billing	239.00

Total this project \$239.00

Contract Amount 18,209.00

Total Billings to date 18,209.00

Project: 3561.006 Bender WTP Reservoir Monitoring System
 Upgrade

Total Earned	15,553.00
Previous Fee Billing	15,390.00
Current Fee Billing	163.00

Total this project \$163.00

Outstanding Invoices

Number	Date	Balance
0084176	3/11/11	790.00
Total		790.00

Contract Amount 15,553.00

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

Total Billings to date	15,553.00
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Project: 3561.007	Klode Mussel Control System Upgrade
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Total Earned	14,432.00
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Previous Fee Billing	14,432.00
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Current Fee Billing	0.00
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Total this project	\$0.00
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Contract Amount	14,432.00
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Total Billings to date	14,432.00
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Total this invoice	\$402.00
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TERMS: Payment is due within 30 days of the date on this invoice.

NORTH SHOREWATER COMMISSION
Tabulation of Raw Water Pump #2 and Raw Water Motor #2 Repair Proposals
Eric Kiefer
5/4/2011

Respondent	Scope	Lump Sum Fees for Services and Deliverables	Methodology for assessing fee for repair/replacement	Hourly Rate(s) - Additional Work that is Out of Scope	Experience Comments	Schedule
Grunau	Remove pump and motor, inspect, evaluate, report, and reinstall. Also includes standard maintenance to motor in shop. Mechanical seal installation NOT mentioned in proposal.	\$54,415	8% fee, with additional fee for project management time.	\$97/hr, Project Manager; \$83/hr, Field Foreman; \$107/hr, electrical repairs; \$107/hr, pump repairs	Experienced mechanical contractor.	Approximately 10-12 weeks
Municipal Well & Pump	Remove pump and motor, inspect, evaluate, report, and reinstall. Mechanical seal installation is included in lump sum. This proposal also includes rewinding of the motor and other maintenance items.	base motor cost: \$7,212; base pump cost: \$13,980; <u>total base cost: \$21,192</u>	Fee will be based on separate proposal.	\$125/hr.	Experienced pump and well contractor.	Schedule not given except for motor replacement, if that is selected--10 to 21 weeks.
CTW Corporation	Remove pump and motor, inspect, evaluate, report, and reinstall. Mechanical seal installation is included in lump sum.	base motor cost: \$1,475; base pump cost: \$10,725; <u>total base cost: \$12,200</u>	Fee will be based on separate proposal.	\$70/hr, all employees except Tim Cummens; \$80/hr, Tim Cummens	Experienced pump and well contractor.	Approximately 2 weeks for motor; approximately 3-4 weeks for pump. Can be flexible.
Water Well Solutions	Remove pump and motor, inspect, evaluate, report, and reinstall. Also includes standard maintenance to motor in shop. Mechanical seal installation is included in lump sum fee.	base motor cost: \$3,400; base pump cost: \$7,350; <u>total base cost: \$10,750</u>	Fee will be based on separate proposal.	\$95/hr, Superintendent; \$85/hr, Assistant; \$500/day, Stinger Service Crane; \$250/day, service truck w/tools; \$150/day, shop equipment; \$175/day, flat bed trailer	Experienced pump and well contractor.	Schedule will be flexible; 1-2 weeks for motor work, no schedule mentioned for pump work.
Layne Christensen Company	Remove pump and motor, inspect, evaluate, report, and reinstall. Also includes standard maintenance to motor in shop. Mechanical seal installation NOT included in lump sum.	base motor cost: \$3,912; base pump cost: \$5,600; <u>total base cost: \$9,512</u>	Fee will be based on separate proposal.	\$115/hr, Service Technician; \$195/hr, Sup't & Ass't with truck; \$95/hr, one-person shop time; \$165/hr, two-person shop time.	Experienced pump and well contractor.	Approximately 4-10 weeks
Circle Electric	Assist in disconnection of motor, take motor to testing facility, evaluate, report, reinstall in conjunction with pump contractor.	\$5,190	Fee will be based on separate proposal.	Not provided	Experienced electrical contractor.	Schedule would be set with pump contractor.

North Shore Water Commission

Contractor Recommendation for Raw Water Pump #2 and Raw Water Motor #2 Repairs

Eric Kiefer

May 4, 2011

Background

After installing a new VFD in January of 2010 on raw water pump #2, an unacceptable wobble was detected by staff. L&S Electric was retained to test the motor and pump to ascertain the cause of the vibration. At that time, it was determined that the pump had a minor mechanical problem. Raw water pump #2 was started periodically to exercise the pump throughout the year; however, it was not used extensively. During one of these tests, an employee witnessed a small flame or arc inside the motor which faulted the system. The flame/arc extinguished in a second leaving no external evidence of damage.

During the budgeting process, we determined to wait until 2011 to service the pump as an operating expense. The budget was set before the motor faulted in the fall of 2010. After reviewing the submitted proposals and after talking to contractors, it is believed that the pump and motor can be still be repaired under or at budget. If there is significant motor damage, we may face an additional \$6,000 of expense to have the motor rewind.

Tabulation

Contractors were asked to provide the following services for a lump sum fee: removing the motor and pump, inspect the parts at their shop, evaluate parts as necessary, provide a report with their findings and recommendations, and reinstall pump and motor with a new mechanical seal. A separate proposal will be created to specify how the motor and pump will be repaired--after the Commission is able to review the findings. The tabulation lists the base costs, which excludes future "repair" work.

Some contractors included additional work in the base bid; those services are included in the tabulations. Some contractors did not include the mechanical seal installation--those contractors are noted on the tabulation as well.

Recommendation

Circle Electric provided a proposal for just the motor work; with no corresponding contractor to do just the pump work, this proposal will not be considered. Layne Chirstensen Company provided the lowest base bid for both motor and pump projects; however, they did not include the mechanical seal installation, a value of approximately \$2,000. Water Well Solutions was the next lowest bidder at \$10,750. This proposal satisfies our needs and provides for standard motor maintenance in the base bid. After reviewing resumes and other documentation, the contractor has the necessary qualifications and experience to complete the job.

I recommend the Commission approve the proposal submitted from Water Well Solutions for services pertaining raw water pump #2 repair project and raw water motor #2 repair project for a fee not to exceed \$10,750. This work would be funded out of the operating fund. At a future time, we would review a proposal from Water Well Solutions for performing repairs.

North Shore Water Commission
Request for Proposals - RFP
Raw Water Pump #2 Motor Repair Project
Prepared by Eric Kiefer
April 5, 2011

Introduction

The North Shore Water Commission operates a water treatment facility that has four (4) raw water pumps at its Klode Park facility that conveys Lake Michigan water to the Bender facility. One of the pumps, Raw Water Pump #2, is a 1971 Worthington vertical turbine pump; the motor recently failed after an electrical short that was observed by an employee. In general, the scope of this project is to provide all labor, materials, tools, supplies, supervision, transportation, and appurtenances to rebuild Raw Water Pump #2 Motor.

This project will be running concurrent with Raw Water Pump #2 Rebuild Project. As a result, the timing of this project may be slightly effected.

Working Conditions of Interest and Other Information

The Klode Park facility is located at approximately 5870 N. Shore Drive in Whitefish Bay, Wisconsin. However, the motor will be delivered (as a part of the Raw Water Pump #2 Rebuild Project) to the south loading dock at the Bender facility located at 400 W. Bender Rd, Glendale, WI which is equipped with an overhead crane system.

As it is installed, Raw Water Pump #2 is connected to a 200 H.P. motor manufactured by U.S. Motors in the 2000. The motor has the following design properties: 200 H.P., 3 phase, 1190 RPM, 232 amps, 460 volts, 1.15 SF, 60 hertz.

Please note that the Klode Park facility is difficult to access. However, the contractor in charge of Raw Water Pump #2 Rebuild Project will be responsible for delivering, loading, and unloading the motor.

Interested contractors should also be aware that the North Shore Water Commission normally meets once per month to approve expenditures, agreements, and related items. This process has the potential to delay the overall project.

Scope of Work

Phase I

1. Mobilize crew and necessary equipment to the Bender facility to accomplish the following tasks during a single-day visit:
 - a. Load motor onto contractor's vehicle using the North Shore Water Commission overhead crane.
 - b. Deliver motor to contractor's shop.
2. Inspect and test motor.
3. Assess the condition of the motor and prepare a report with the following information:

- a. A description of the tests performed and the corresponding results.
- b. A lump sum cost for (1) refurbishing the motor and restoring to OEM standard or (2) replacing the motor with new.
- c. Provide a recommendation for either refurbishing or replacing the motor.

Phase II

1. Refurbish or repair motor as agreed upon by the North Shore Water Commission upon written authorization.
2. Test motor at contractor's location to verify motor is functioning properly and provide documentation.
3. Mobilize crew and necessary equipment to the Bender facility to accomplish the following tasks during a single-day visit:
 - a. Drop off motor at the south loading dock of the Bender facility located at 400 W. Bender Rd, Glendale, WI. At this facility, there is an overhead crane system that can pick the motor off of the contractor's vehicle and place it on the floor of the building.
4. After motor is placed back on Raw Water Pump #2 at the Klode Park facility by pump contractor, the contractor shall provide final installation including balancing (i.e. motor shimming) and to perform a vibration analysis with written report to follow. Please note that NSWC personnel must operate equipment once installed to prevent operational issues at water treatment plant. This day is to be scheduled in advanced and is to correlate with Phase II of the Raw Water Pump #2 Rebuild Project.

Proposal Submission

Proposals for completing the entire scope of work must meet the following requirements:

1. Detailed scope of services for each of the items listed in the "Scope of Work" section.
2. A list of deliverables.
3. A lump sum fee for the services and deliverables.
4. A methodology for assessing a fee for the item, "Phase II, (1)."
5. Name(s) of the main people working on the project (qualifications available upon request).
6. Hourly rate for mutually agreed upon out-of-scope work.
7. Projected completion date for items including Phase I, (1) through Phase II, (3). Phase II, (4) is to be completed on a specific date and time in the future.

Submit 3 copies of the proposal by noon on May 2, 2011 to Eric Kiefer at the following address:

North Shore Water Commission
400 W Bender Road
Glendale, WI 53217
414-963-0160

Alternatively, you may submit an electronic copy of the proposal by noon on May 2, 2011 in Adobe Acrobat (pdf format) to EKiefer@northshorewc.com. You must contact Eric Kiefer via

phone or email to verify submission was successful.

North Shore Water Commission
Request for Proposals - RFP
Raw Water Pump #2 Rebuild Project
Prepared by Eric Kiefer
April 5, 2011

Introduction

The North Shore Water Commission operates a water treatment facility that has four (4) raw water pumps at its Klode Park facility that conveys Lake Michigan water to the Bender facility. One of the pumps, Raw Water Pump #2, is a 1971 Worthington vertical turbine pump that requires maintenance. In general, the scope of this project is to provide all labor, materials, tools, supplies, supervision, transportation, and appurtenances to rebuild Raw Water Pump #2. This project will also involve the retrofitting of a split mechanical seal.

This project will be running concurrent with Raw Water Pump #2 Motor Repair Project. As a result, the timing of this project may be slightly effected.

Working Conditions of Interest and Other Information

The Klode Park facility is located at approximately 5870 N. Shore Drive in Whitefish Bay, Wisconsin. Although there is a concrete pathway to the facility that can withstand vehicular traffic, contractors must be aware that the area outside of the pumping station is open to the public. As Appendix A shows, there are many winding and sharp turns. Contractors must be courteous when interacting with the public and respect all park rules as stipulated by the Village of Whitefish Bay.

Inside the facility, contractors must also be aware that there is no restroom or sanitary sewer. Consequently, no chemicals or hazardous materials may be put down any drains at any times.

A drawing of the pump as it was installed in 1971 is shown in Appendix B. Along with this is a copy of the original maintenance manual from the manufacturer in Appendix C.

The installation of Raw Water Pump #2 in the Klode Park facility does not allow for the direct removal of the vertical turbine pump through the roof opening. Instead, the entire pump must be pulled and disassembled in sections. Please note that no elevator, overhead hoist, or other such device is available. All parts must be either maneuvered by the tools and equipment provided by the contractor.

The pump is currently connected to a 200 H.P. motor manufactured by U.S. Motors in the 2000. The motor has the following design properties: 200 H.P., 3 phase, 1190 RPM, 232 amps, 460 volts, 1.15 SF, 60 hertz. The motor and electrical connections to it must be handled in the course of rebuilding the pump.

The Klode Park facility is difficult to access. It is the contractor's responsibility to be familiar with the site and its challenges before submitting a proposal. Interested contractors may request a

tour of the site prior to submitting a proposal.

Interested contractors should also be aware that the North Shore Water Commission normally meets once per month to approve expenditures, agreements, and related items. This process has the potential to delay the overall project.

Scope of Work

Phase I

1. Mobilize crew and necessary equipment to Klode Park facility and Bender facility to accomplish the following tasks during a single-day visit:
 - a. De-energize circuit feeding Raw Water Pump #2 motor and remove motor.
 - b. Remove Raw Water Pump #2, one section at a time. This may involve splitting the cover plant sealing the shorewell.
 - c. Load sections and motor using contractor-provided equipment onto vehicle(s) provided by contractor until all parts of the pump loaded.
 - d. Securely cover floor penetrations.
 - e. Deliver motor to the south loading dock of the Bender facility located at 400 W Bender Road, Glendale, WI. At this facility, there is an overhead crane system that can pick up the motor off of the contractor's vehicle--provided it can mate with a standard loading dock.
 - f. Deliver pump components to contractor's shop.
2. Completely disassemble pump.
3. Inspect and make an assessment of all components using Appendix C as a reference as necessary and prepare a report with the following information:
 - a. Inventory of all components that were removed from Klode Park Pumping Station.
 - b. For each component, provide a brief description of its condition.
 - c. For each component, provide a lump sum cost for (1) refurbishing the component and restoring to OEM standard or (2) replacing the component with new.
 - d. Provide a recommendation to rebuild of Raw Water Pump #2 in its entirety which may include a combination of repair and replacement of components.

Phase II

1. Refurbish or repair pump components as agreed upon by the North Shore Water Commission upon written authorization.
2. Mobilize crew and necessary equipment to the Bender facility and Klode Park facility to accomplish the following tasks during a single-day visit:
 - a. Pick up motor at the south loading dock of the Bender facility located at 400 W Bender Rd, Glendale, WI. At this facility, there is an overhead crane system that can pick up the motor off of the floor and place it on the contractor's vehicle, provided it can mate with a standard loading dock.
 - b. Delivery pump components to the Klode Park facility.
 - c. Install pump, one section at a time.
 - d. Fully reinstall pump and make any repairs as necessary.
 - e. Any exposed metal, excluding bolts, in the pumping system should be prepped and

- then painted with a white epoxy-based primer.
- f. Retrofit split mechanical seal.
 - g. Install motor and re-energize circuit feeding motor; motor will be repaired and tested under the concurrent project. Motor repair contractor will also be present to provide final installation services as well.
 - h. Test operation of pump and demonstrate it within operating range; NSWC personnel must be physically present when test is conducted. NSWC personnel must operate equipment once installed to prevent operational issues at water treatment plant.
3. Provide a written report of all of the work that was performed for our records.

Proposal Submission

Proposals for completing the entire scope of work must meet the following requirements:

1. Detailed scope of services for each of the items listed in the "Scope of Work" section.
2. A list of deliverables.
3. A lump sum fee for the services and deliverables.
4. A methodology for assessing a fee for the item, "Phase II, (1)."
5. Name(s) of the main people working on the project (qualifications available upon request).
6. Hourly rate for mutually agreed upon out-of-scope work.
7. Projected completion date.

Submit 3 copies of the proposal by noon on May 2, 2011 to Eric Kiefer at the following address:

North Shore Water Commission
400 W Bender Road
Glendale, WI 53217
414-963-0160

Alternatively, you may submit an electronic copy of the proposal by noon on May 2, 2011 in Adobe Acrobat (pdf format) to EKiefer@northshorewc.com. You must contact Eric Kiefer via phone or email to verify submission was successful.



April 29, 2011

North Shore Water Commission
400 W. Bender Street
Milwaukee, WI 53217-4103
Attn: Eric Kiefer

Re: Booster Pump #2 Repair

Dear Eric,

The following correspondence is in response to your request for a proposal to perform the rehabilitation of the above mentioned pump and motor. Below is a step by step description of the proposed work along with the associated costs:

Raw Water Pump #2 Pump Repair Project:

1. Mobilize crew and necessary equipment to Klode Park facility de-energize circuit feeding Raw Water Pump #2 motor and remove motor. Remove Raw Water Pump #2, one section at a time. This may involve splitting the cover plant sealing the shorewell. Load sections and motor using contractor-provided equipment onto vehicle(s) provided by contractor until all parts of the pump loaded. Securely cover floor penetrations. Deliver motor to the south loading dock of the Bender facility located at 400 W Bender Road, Glendale, WI. At this facility, there is an overhead crane system that can pick up the motor off of the contractor's vehicle--provided it can mate with a standard loading dock. Deliver pump components to contractor's shop.

Complete Pump Removal: \$1,900.00

2. Completely disassemble pump. Inspect and make an assessment of all components using Appendix C as a reference as necessary and prepare a report with the following information:
 - a. Inventory of all components that were removed from Klode Park Pumping Station.
 - b. For each component, provide a brief description of its condition.
 - c. For each component, provide a lump sum cost for (1) refurbishing the component and restoring to OEM standard or (2) replacing the component with new.
 - d. Provide a recommendation to rebuild of Raw Water Pump #2 in its entirety which may include a combination of repair and replacement of components.

Pump Disassembly and Inspection: \$550.00

3. Refurbish or repair pump components as agreed upon by the North Shore Water Commission upon written authorization.

Pump Repair and Replacement Components: To be Determined

4. Mobilize crew and necessary equipment to the Bender facility. Pick up motor at the south loading dock at 400 W Bender Rd, Glendale, WI. At this facility, there is an overhead crane system that can pick up the motor off of the floor and place it on the contractor's vehicle, provided it can mate with a standard loading dock. Deliver pump components to the Klode Park facility. Install pump, one section at a time. Fully reinstall pump and make any repairs as necessary. Any exposed metal, excluding bolts, in the pumping system should be prepped and then painted with a white epoxy-based primer. Retrofit split mechanical seal. Install motor and re-energize circuit feeding motor; motor will be repaired and tested under the concurrent project. Motor repair contractor will also be present to provide final installation services as well. Test operation of pump and demonstrate it within operating range;



Water Well Solutions

NSWC personnel must be physically present when test is conducted. NSWC personnel must operate equipment once installed to prevent operational issues at water treatment plant. Provide a written report of all of the work that was performed for our records.

Pump Installation and Start-up: \$4,900.00

Raw Water Pump #2 Motor Repair Project:

1. Mobilize flat bed service truck and driver to the Bender facility. Load motor onto contractor's vehicle using the North Shore Water Commission overhead crane. Deliver motor to contractor's shop.

Deliver motor to shop: \$ No Charge

2. Inspect and test motor.
 - a. Assess the condition of the motor and prepare a report with a description of the tests performed and the corresponding results. Provide a recommendation for either refurbishing or replacing the motor.
 - b. Lump sum cost for standard refurbishing of motor and restoring to OEM standard:
 - i. Complete disassembly and inspection of all winding and parts.
 - ii. Steam cleaning of all parts and windings as necessary.
 - iii. Bake out windings.
 - iv. Reinsulate winding as necessary.
 - v. Rebalance rotating assembly.
 - vi. Replace (1) 7226B bronze cage thrust bearing.
 - vii. Replace (1) 6219ZZ double shielded guide bearing.
 - viii. Assemble and perform no-load test and vibration analysis.
 - ix. Provide detailed service report.

Standard motor servicing: \$3,400.00

(Additional repairs to be quoted following disassembly and inspection.)

(Turn around time about 5-7 days.)

(If a complete rewind of the stator is required, add \$5,998.00 to above price.)

(Turn around time for rewind about 10-15 working days.)

- c. (Or) Lump sum cost for replacing the motor with new:
 - i. 200 HP Vertical Hollow Shaft Electric Motor.
 - ii. 1200 RPM.
 - iii. 460 volt, 60 cycle, 3 phase.
 - iv. Standard premium efficient.
 - v. Weather Protected – 1, Open drip proof.
 - vi. 16.5" base diameter, 1-15/16" shaft bore.

New replacement motor: \$29,650.00 (Optional)

(Delivery 10-12 weeks.)

(Due to extreme market volatility, price only valid 1 week.)



Water Well Solutions

3. Mobilize crew and necessary equipment to the Bender facility to drop off motor at the south loading dock located at 400 W. Bender Rd, Glendale, WI. At this facility, there is an overhead crane system that can pick the motor off of the contractor's vehicle and place it on the floor of the building.

Deliver motor to Bender: \$ No Charge

We hope you will find this correspondence complete in meeting your needs. Should further questions or comments arise, please feel free to contact our office at your convenience. All work will be performed at our standard hourly rates. Please feel free to sign and return one copy of the attached Work Agreement which will act as our formal notice to proceed. We greatly appreciate this opportunity, and look forward to assisting North Shore Water with the maintenance of their water system

Most sincerely,

Michael E. Judkins
Water Well Solution Service Group, Inc.
MEJ/mej

Attachments: Work Agreement



North Shore Water Commission
400 W. Bender Street
Milwaukee, WI 53217-4103
Attn: Eric Kiefer

April 29, 2011

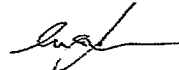
Work Agreement

The undersigned Purchaser hereby instructs Water Well Solutions Service Group Inc. (WWS) to proceed with the work described with the understanding that the Terms and Conditions shown on the reverse are hereby incorporated as part of this Work Agreement. The Purchaser further understands that all quotes or estimates, if any are based on the best information available prior to beginning work. As the scope of work, conditions or estimated quantities change, revised quotations or estimates will not be issued unless requested. All prices are subject to Federal, State and Local Sales and Use Taxes.

Work Location: Booster Pump #2 pump & Motor Repair Job No. WJ11

Description	Price
Raw Water Pump #2 Pump Repair Project:	
1. Complete Pump Removal:	\$1,900.00
2. Pump Disassembly and Inspection:	\$550.00
3. Pump Repair and Replacement Components:	T. B. D.
4. Pump Installation and Start-up:	\$4,900.00
Raw Water Pump #2 Motor Repair Project:	
1. Deliver motor to shop:	\$ No Charge
2. Standard motor servicing:	\$3,400.00
(Additional repairs to be quoted following disassembly and inspection.)	
(Turn around time about 5-7 days.)	
(If a complete rewind of the stator is required, add \$5,998.00 to above price.)	
(Turn around time for rewind about 10-15 working days.)	
(or) New replacement motor: \$29,650.00 (Optional)	
(Delivery 10-12 weeks.)	
(Due to extreme market volatility, price only valid 1 week.)	
3. Deliver motor to Bender:	\$ No Charge

Purchaser	Contractor
<u>North Shore Water Commission</u>	Water Well Solutions Service Group Inc

By: _____	By: 
Title: _____	Title: <u>President</u>
Date: _____	Date: <u>April 29, 2011</u>

Water Well Solutions Service Group Inc., supports the principle of equal opportunity for all, without regard to race, creed, color, sex, age, national origin, disabled or veteran's status and commits to compliance with applicable executive orders, and applicable federal, state and local laws supporting equal opportunity for all.

INVOICES. Invoices will be submitted once a month with payment due within 10 days of the invoice date. A late charge at the rate of 1 1/2 % per month, or the highest rate allowed by applicable law, whichever is lowest, will be added to all amounts outstanding after 30 days. Purchaser agrees to pay any and all attorneys' fees and court costs should attorneys be utilized or court proceedings initiated to collect any past due amounts.

INFORMATION. It is recognized that Purchaser has superior knowledge of the job site, site history, access routes to the job site, known or suspected contaminants, surface and subsurface conditions, etc., and Purchaser is obligated to advise Water Well Solutions of all or any conditions that may affect Water Well Solutions performance hereunder. Purchaser agrees to provide Water Well Solutions with such specifications, plans, site history information, reports, studies or other information on surface and subsurface conditions as will be reasonably required by Water Well Solutions for safe, proper and timely performance of the work. Purchaser shall obtain all necessary permits and rights-of-way and indemnify and hold Water Well Solutions harmless for its failure to do so and for claims of trespass or damage to property, including underground utilities or structures, which arise out of the work.

LIABILITY. Neither party shall be liable to the other party for any special, indirect, incidental or consequential damages, whether based on contract, tort (including negligence), strict liability or otherwise. Further, Purchaser agrees to indemnify and hold Water Well Solutions harmless from and against any and all claims, demands, causes of action (including third party claims for contribution or indemnification), liability and costs (including attorneys' fees and other costs of defense) which result from (i) any release or threatened release of any substance (whether hazardous or not); (ii) any claim that Water Well Solutions or any of its subcontractors was a "generator" or "transporter" of hazardous waste or an "operator" of the job site (as such terms are used or defined under local, state or federal laws or regulations); or (iii) any negligent or wrongful act or omission of Purchaser or others under Purchaser's control, except that this indemnification shall not apply to the extent any demand of cause of action results from Water Well Solutions negligence or intentional misconduct.

PERFORMANCE. Water Well Solutions will exercise reasonable skill and judgment in performing the work, EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO OTHER WARRANTIES (EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) ARE GIVEN HEREUNDER. Water Well Solutions does not warrant specific results of any kind.

CHANGED CONDITIONS. The discovery of any hazardous waste, substance, pollutant, contaminant, underground obstruction, condition or utilities on or under the job site which were not brought to the attention of Water Well Solutions prior to the date of this Work Agreement will constitute a materially different site condition entitling Water Well Solutions, at its option, to terminate this Work Agreement (and to receive payment for all work performed up to and including the date of such termination) or to receive an equitable adjustment in the contract price and time for performance. Water Well Solutions, however, shall only have the right to terminate if such different site condition(s) creates additional health and safety risks or requires Water Well Solutions to perform work outside the original scope or beyond its capabilities. In any event, Water Well Solutions may terminate operations on a site which it believes presents an unreasonable health or safety risk.

DELAYS. Water Well Solutions shall have no liability to Purchaser, or its clients, contractors or consultants for delays attributable to acts of God, acts of third parties, weather which is not reasonably anticipatable, intervention or public authorities, inability to obtain permits necessary to perform the work, work stoppages, changes in applicable laws or regulations after the date of commencement of performance hereunder and any other conditions or events which are beyond the reasonable control of Water Well Solutions shall be entitled to additional time to perform this Work Agreement equal to the time of any such delay.

MISCELLANEOUS. The terms and conditions set forth in the Work Agreement constitute the entire understanding of the parties relating to the work. All previous proposals, offers, and other communications relative to the work, oral or written, are hereby superseded. Any additional or conflicting provision(s) contained in any purchase order, acknowledgement, or other form of the Purchaser is hereby expressly objected to by Water Well Solutions and shall not modify this Work Agreement.

INTERPRETATION. This Work Agreement shall be governed and construed in accordance with the laws of the state of the job site location. If any term, provision or condition contained herein shall, to any extent, be invalid or unenforceable, pursuant to state law or otherwise, the remainder of the terms, provisions and conditions stated in the Work Agreement (or the application of such term, provision or condition to person or circumstances other than those in respect of which it is invalid or unenforceable) shall not be affected, and each term, provision and condition of this Work Agreement shall be valid and enforceable to the fullest extent permitted by law.



Water Well Solutions

CORPORATE RESUME

BACKGROUND:

Water Well Solutions Service Group, Inc. is a full service water well contractor. Our main cliental consists of municipalities, industries, agriculture, commercial and other high capacity, multi-well facilities. Our main services consists of: well site investigation /selection; well construction and pump design/installation; well reconstruction/rehabilitation; pump repair/redesign; as well as other well house appurtenances such as: electrical controls; discharge piping; chemical treatment instruments; etc. It is our desire to develop a sole source company for providing our clients the highest quality and most cost effective solutions for the servicing of any and all the interior components of a typical water well facility. We are most widely recognized for our diverse team of professionals, and the team's ability to develop and utilize unique water well technologies to provide the best solution for water well redevelopment.

Water Well Solutions Service Group, Inc. was developed in November of 2000 by the company's principals Michael E. Judkins and Mark W. Thurow along with the assistance of other key employees. Mr. Judkins and Mr. Thurow share the duties of president, vice president, secretary, and treasurer of the corporation. The company was expanded to service the Illinois market through a relationship with partners Timothy Kelly and Todd Kerry with the development of Water Well Solutions Illinois Division, LLC, a wholly owned subsidiary of WWSSG, Inc. with offices in Elburn, IL; as well as the development of Water Well Solutions Residential Division, LLC a wholly owned subsidiary of WWSSG, Inc. with offices in Lake Villa, IL.

SENIOR PROJECT ENGINEERS:

Michael E. Judkins is a 1987 graduate of the University of Wisconsin-Madison, with a Bachelor of Science degree in Geology and Geophysics. Following school he spent 9 years with Layne Christensen in the water well, environmental and mining industries. He then joined Municipal Well & Pump in 1995 and continued as a project engineer until October 2000.

Mark W. Thurow attended the University of Wisconsin-Barron, studying telecommunications. He joined Layne Christensen in 1986 as a pump installer/drilling assistant, continued as a project engineer in the water well, environmental and water treatment industries until 1996. At this time Mark joined Municipal Well & Pump and continued as a project engineer until October 2000.

Timothy L. Kelly is a graduate of the University of Missouri with a Bachelor of Science degree in Agricultural Mechanization. Tim spent 14 years as project engineer and vice president of Brotcke Well & Pump in St. Louis, Missouri. He joined the company in the spring of 2004 as project engineer and is now acting Vice President of the Illinois Division.

Todd E. Kerry is a graduate of the Northern Illinois University of DeKalb, IL and worked his way through College as a third generation water well drilling and pump installation contractor with Meadow Equipment Sales & Service, Inc. After graduating, he spent 3 years in the field as a installer and drilling assistant on rotary and cable tool projects with Meadow Equipment and in 1998 he was promoted to a Project Engineer were he continued to 2009. He also sits on the board of directors with the Illinois Association of Groundwater Professionals being elected by his peers to represent them.



Peter Bennin joined the company in June of 2006 as a project manager. Peter worked as both a field service technician and a project manager with Municipal Well and Pump for the last 13 years. He has extensive experience with both line shaft and submersible turbine pumps. In addition, Peter is a state of Wisconsin certified water operator and a licensed pump installer. He is a factory authorized start-up technician for ABB ACS 550 Variable Frequency Drives and has experience troubleshooting and repairing all types of electrical control equipment. He has successfully completed both the OSHA 40 hr hazardous waste operations training course and the permit required confined spaces training course.

John E. Yakimisky is a graduate of the University of Illinois-Chicago with a degree in Criminal Justice. He has spent the last 8 years working for the Henry Boysen Company. He spent 6 years as Director of Operations at Boysen before becoming President for the last 2 years. During the course of his employment at Boysen Well Drilling he worked on residential, commercial, municipal and irrigation well and pump systems. He looks forward to using his experience at Boysen to help WWS expand its market presence. John is now acting Manager for Water Well Solutions Residential Division, LLC.

OPERATIONS MANAGERS & KEY FIELD PERSONNEL:

Steve Judkins is our Wisconsin Division Field Operations Manager with more than 25 years experience at Layne Christensen before joining our growing team. **Mike Nailor** is our Illinois Division Field Operations Manager with more than 15 years experience at Meadow Equipment Sales & Service, Inc. Both are also tasked as site safety managers to ensure safe working conditions on the jobsite.

WWS has recognized continued growth throughout the years with the acquisition of the highest quality machinery and equipment, and the addition of talented personnel. Our operations staff is comprised of talented individuals with an impressive number of years of service. Arthur Klemme and Randy Williams are lead cable tool drilling superintendents, and have in excess of 50 years combined experience. Arthur Klemme is also a **Factory Trained Certified Byron Jackson** Technician of 25 years. These gentlemen are supported by Jon Kohlmetz our Shop Superintendents and our field staff Austin Barber, Jeff Moore, Andy Burbach, Nick Christian, Matt Flack, Jeremy Hoberg, Andy Olson, Craig Jones, Ronaldo Warren, Jim Cleary, Eric Elhers, Jake Good, Jack Bark, Wayne Johnson, and Dave Knutson.

MAJOR EQUIPMENT:

We are very proud of our "state of the art" equipment. The major components of our fleet consist of (2) late model, 36L Bucyrus Erie cable tool drill rigs, (1) 100,000# Franks Pulling/Drilling Unit, (1) P66000 Pulstar pump service crane, (2) P38000 Pulstar pump service cranes, (1) 10 T Smeal pump service crane, (3) 5 T Smeal pump service cranes, (2) Terex 23 ½ ton telescoping/articulating boom cranes, and a 22W Bucyrus Erie cable tool drill rig. These units are supported by a variety of Ford F350 and F450 service trucks and heavy weight trailers, as well as flat bed trucks, chemical surge tankers, semi tractor with trailers, etc. Possibly the most impressive piece of equipment is our 2001 CCV down hole color televising van with Mount Sopris borehole logging capabilities as well as sonic burst capabilities.



Water Well Solutions

PARTNERING TECHNOLOGY:

Water Well Solutions is honored to represent, and be supported by, such exclusive vendors as: “**AirBurst® Technologies**” & “**Hy-RIP**” for water well development and rehabilitation; “**Aquastream®**” suction flow control technologies for sand and contaminant control; “**Carus Chemicals**” & “**Pristine Chemicals**” for well rehabilitation specific chemistry; “**Layne Vertiline**” and “**American Turbine Pump**” line of vertical turbine and “**Centrilift**” as well as “**Sun-Star Electric**”, for submersible pumping equipment, submersible motor re-winds of all major manufactures, for submersible pumping equipment; etc. WWS is also a distributor of “**ABB Drives**”. Exclusive relationships with such industry recognized suppliers aid Water Well Solutions in maintaining a competitive and opportunistic position in the water well market place.

Water Well Solutions would like to recognize our new Illinois distributor status with **ITT Goulds Pump** as of 4/1/09. We are proud to be able to buy factory direct for Goulds products and services which offers WWS purchasing power with Global support. Water Well Solutions would also like to recognize our exclusive agreement with **AirBurst® Technology** in Northern, IL as of 4/1/09. We are proud to be the sole provider of **AirBurst® Technology** in ten counties surrounding the Chicago land area and a Semi-Exclusive provider in the remainder of the State. Water Well Solutions Senior Project Managers worked to develop and perfect the technology to what it is today. No other company has the knowledge, and application experience that WWS has to offer.

Water Well Solutions is very proud of our image, and are sure you will be as equally impressed with the quality of our equipment and professionalism. We have enjoyed rapid growth by attracting the best people in the industry. We continue to strive to meet our client’s individual requirements with professionalism and realistic solutions to their ever changing needs. We base our business on trust, and are confident our clients will appreciate our innovative, cost effective, and straightforward approach to all their water needs.



Current Project List

Project	Owner	Design Professional	Location	Contract Price	Percentage Completion
Booster Repair	Fort Atkinson, WI Terry Siglinsky (920) 563-7775	Water Well Solutions	Jones Park	\$14,000.00	10%
Booster Repair	BPM, Inc. Steve Peterich (715) 582-5290	Water Well Solutions	Sewer	\$10,000.00	10%
VFD & Piping	Pleasant View Nursing Home, Monroe, WI Rodger Sullivan (608) 558-4786	Water Well Solutions	Well #1	\$12,000.00	20%
Well Rehabilitation	Parquelynn Village Apts., Nashota, WI Goerge Kopacz (262) 367-8282	Water Well Solutions	Well #2	\$20,000.00	90%
Well Rehabilitation	Marshfield, WI Dave Wasserburger (715) 387-1195	Water Well Solutions	Wells 10, 20 & 21	\$50,000	0%
Well Rehabilitation and Pump Repair	City of Joliet Bon Mui (815) 724-4254	City of Joliet	Well No. 5D, 23 D, & 11D	\$440,000	20%
SCADA System	Dousman, WI	Ruekert Mielke	Well System	\$31,000.00	90%
Well Rehabilitation	City of Union Grove, WI Mark Osmundsen (262) 878-1818	Water Well Solutions	Well #5	\$122,000.00	0%
Electrical Controls	Southern Wisconsin Center LeRoy Farley (262) 878-2411	Water Well Solutions	Boiler Feed System Power Plant	\$6,000.00	0%



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Well Rehabilitation	Allenton, WI Tom Gureki (262) 629-5761	Water Well Solutions	Well #2	\$25,000.00	0%
Booster Repair	Illinois American Dave Farrar (217) 373-3231	Water Well Solutions	Booster #15	\$27,000.00	0%
Well Pump Repair	Hanover Park, IL Howard Killian (630) 372-4440	Owner	Well No. 3 Deep well pump repair	\$293,000.00	0%
Well Abandonment	Kewaunee, IL Steve Bruner (309) 856-5986	Owner	Well No. 2	\$25,000.00	0%



Water Well Solutions

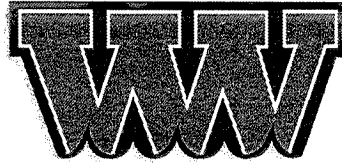
PRIOR WORK EXPERIENCE

Project	Owner	Design Professional	Location	Contract Price	Percentage Completion
Menasha Utility District	Town of Menasha, WI Jeff Roth (920) 739-5120	McMahon Associates	Well #7 & 8	\$910,000.00	100%
Fitchburg, WI	City of Fitchburg, WI Tracy Foss (608) 270-4272	Water Well Solutions & Owner	Well #9	\$150,000.00	100%
Elkhorn, WI	City of Elkhorn, WI John Kingwell (262) 749-4050	Baxter Woodman	Well #8 Pump and Boosters	\$182,000.00	100%
Pewaukee, WI	City of Pewaukee, WI Jane Mueller (262) 691-0804	Ruekert & Mielke	Test well & well construction	\$121,000.00	100%
Geneva National Service Corp.	Geneva National Lake Geneva, WI Patrick Prah (262) 245-9850	Water Well Solutions & Owner	Well Pump Repair	\$31,000	100%
City of Joliet, IL	City of Joliet Bon Mui (815) 724-4254	City of Joliet	Well No. 10D Pump Repair	\$217,000	100%
King Veteran Home	State of Wisconsin	State of Wisconsin	Well Pump	\$19,000.00	100%
Eau Claire, WI	City of Eau Claire, WI	City of Eau Claire, WI	Well Rehab	\$22,000.00	100%
Village of Shorewood, IL	Village of Shorewood Roger Barrowman (815) 405-5794	Owner	Well Pump Repair, Well Rehab,	\$64,000.00	100%
Equistar Chemical	Equistar Chemical, IA	Water Well Solutions & Owner	Well liner repair	\$95,000.00	100%



Water Well Solutions

City of Crystal Lake, IL	City of Crystal Lake, IL Andy Resek (815) 459-2020	Owner	Well No. 6 and 17 Well & Pump Rehab	\$110,000.00	100%
Flint Hills Resources, LP Joliet, IL	Flint Hills Resources, LP Jim Neuman (815) 467-3215	Owner	Well No. 3 Deep well pump repair	\$225,000.00	100%
Village of E. Dundee, IL	Village of East Dundee	Clark Dietz Dave Talbott 262-657-1550	Well No. 5 & 6	\$780,000	100%



Water Well Solutions

Major Equipment Listing

- (2) 23.5 ton Terex 4792 Crane 2002
- (2) 44,000 lbs. Pump rigs Pulstar P38000HD 2001
- (1) 66,000 Pulstar P66000HD Pump Rig 2003
- (1) 20,000 lbs. 10T Smeal Pump Rig
- (2) 10,000 lbs. 5T Smeal Pump Rig
- (1) 100,000 lbs. Franks Pulling Unit
- (2) 140,000 lb. Cable Tool Drill Rig Bucyrus Erie 36L 1988
- (1) 22 W Cable Tool Drill Rig
- (1) 2500' Well Televising van 2001 GMC
- (9) F350 Service trucks 2001
- (5) F450 Service trucks 2001
- (1) GMC Service truck 1998
- (5) 12,000 lb. trailer 1978
- (3) 7,000 lb. trailer 2001
- (6) F150 Service trucks
- (1) Ford Flatbed Water Truck
- (1) International Winch Tractor w/ Low Boy
- (1) Hy-RIP Apparatus Trailer
- (1) 200 KW Trailer Mounted Generator
- (1) 75 KW Trailer Mounted Generator



Eric Kiefer <ekiefer@northshorewc.com>

Hourly Rate and People Working on the Project

Mike Judkins <mike@wwssg.com>

Tue, May 3, 2011 at 6:42 AM

To: Eric Kiefer <ekiefer@northshorewc.com>

Eric, here is the contact information for our people:

- Steve Judkins, Field Operations Manager: 262-269-6250
- Andy Olson, Superintendent: 262-269-6387
- Nick Christian, Assistant: 262-354-4079

Standard hourly rates that may apply to this project:

- Superintendent: \$95.00/hr.
- Assistant: \$85.00/hr.
- Stinger Service Crane: \$500.00/day
- Service Truck w/ tools: \$250.00/day
- Shop Equipment: \$150.00/day
- Flat bed trailer: \$175.00/day

Please call with questions. Thanks, Mike

Michael E. Judkins
President
Water Well Solutions
N87 W36051 Mapleton St.

Oconomowoc, WI 53066
Office Phone: 888.769.9009
Office.....Fax: 920.474.4771
Mobile.....: 262.269.6196
WEB: <http://www.wvssg.com>

E-mail: Mike@wvssg.com

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From: Eric Kiefer [<mailto:ekiefer@northshorewc.com>]
Sent: Monday, May 02, 2011 12:22 PM
To: Mike Judkins
Subject: Hourly Rate and People Working on the Project

[Quoted text hidden]

_____ Information from ESET Smart Security, version of virus signature database 6090 (20110503)

The message was checked by ESET Smart Security.

<http://www.eset.com>

North Shore Water Commission
Computer Administrator Report # 12
February 9, 2011 – May 4, 2011

Executive Summary

The RTU upgrades are running ahead of schedule. Overcoming challenges in previous RTU upgrades has created a foundation of tools. These tools make the current and future challenges less time consuming.

This report goes into greater depth about what has happened over last three months.

RTU5 – Motor Room, Low Lift and Backwash pump control, doorbell and door sensors

RTU5 is located in the motor room and controls starters for the three low lift and two backwash pumps. It receives inputs from the plant uninterruptable power supply, doorbells, front door sensor, pump speed and motor temperature alarms.

This RTU sends and receives data from the Allen Bradley RTUs in the filter wing. The filter RTUs request the backwash pumps to run to clean the filters during the backwash cycle. The information is sent using the Ethernet Modbus protocol which was configured during the RTU6 upgrade. Since the legwork was already done the communications configuration on this RTU was very quick.

The new RTU's program can be modified while it is running. The modified program can be edited and then saved to the boot program much like saving a file on a computer. If a file is edited, not saved and the computer restarts without saving only the saved copy will exist. With new firmware releases the RTU can now compare the boot and running programs. The RTU will let the programmer know that it is not saved to the boot program and a restart will not run like the current program. This will prevent mistakes in the future.

WFB – Whitefish Bay Water Tower

Whitefish Bay had a smaller, model 3305 compact RTU. There were originally five of these in the SCADA system. Only the one at Fox Point remains in use today.

The 3305 RTU has a limited amount of inputs and outputs. The booster pump speed, for example, could not be recorded as the two analog input ports were used for the system water pressure and tower water level. The VFD drive did have the output to send the speed signal but the RTU did not have an available input. These limitations are removed with the new equipment and the RTU now sees pump speed as a "new" input.

There were a couple pieces of hardware added to this RTU. There is now a door sensor similar to the door sensor at Klode Park and the Glendale stand pipe. The operator at the plant is alerted when the door is opened. A relay for the cable modem was also added. If communication with the plant fails for 15 minutes the RTU will shut down the modem for 30 seconds and turn it back on. This will fix the modem when it is frozen in a disconnected state typical in cable modems. The only remote site without this reset is Fox Point, and the location of the modem will make this feature difficult to incorporate.

The original pump schedule was created to run during the day. It was not designed to run past midnight. The schedule has a start time and a stop time. If the current time is between these times the schedule runs and the pump turns on. To do the opposite is not as simple as inverting the run command because there is a weekend and weekday schedule.

The schedule has been updated to work past midnight. If the start time is later than the stop time, the schedule will run past midnight. It also does a reality check to compare the weekend and weekday schedules to alert the operator if Friday night at 23:59 and Saturday morning at 00:01 are different.

Additional schedules were added to better control the tower use. Two additional pressure schedules were added. This allows the tower to be run or filled faster or slower at specific hours of the day.

The fill valve program had a limiting factor to slow the speed of the valve movements. This prevented the valve from opening or closing too quickly in an attempt to prevent water hammers in the distribution system. A PID control loop maintained a set pressure by controlling the position of the valve. The combination of the PID loop and limiting factor did not work well together. The valve over adjusted and changed position more often than it needed to.

The control method has been updated to run a much simpler program. It acts inverted to how the high service pumps work. The result has been dramatic. The previous control program changed the valve position more than 0.5% a minute 568 times a day. The new control program changed the valve position only 13 times. The result is the valve changes its position 97.7% fewer times resulting in lower wear and tear on the valve control motor and prevents the valve from causing minor pressure disturbances in the distribution system.

The same is true for the control of the booster pump. The pump changes speed 92% less often, but changing the speed a small amount on a VFD drive and motor is of little mechanical consequence.

RT11 – Remote Site Data Concentrator

RT11 was originally set created to control all of the remote site RTUs. Control programming could be done at the plant on a single RTU and this RTU would send instructions out to the remote sites. This alleviated traveling to each site to do minor program changes. There were many downsides. When communication failed so did the control of the remote RTU. If a booster pump was running and communication failed the pump would continue to run regardless of the pump's schedule set at the plant.

Pieces of RT11's program have been segmented and moved to other RTUs over the years starting with the schedules. During the WFB upgrade all signals and controls were moved to the local RTU.

The largest remote site is Klode Park with 4 large pumps, traveling screen and a chemical feed system. Most of the control program was moved to Klode's three RTUs during the upgrade project in 2010. RT11 at the plant still controlled which Klode pumps were called to run and also the speed of these pumps.

How fast the pumps at Klode run is a fairly complex program. It takes into account how much water was pumped to the communities the day before, the current reservoir level and new reservoir target. It then calculates which speed the pump should run at to meet this target. Translating this program to run on the

new equipment took some time. It was set up to run on a temporary RTU to ensure it would work properly for days before running on the live system. If the program told a pump at Klode to run at 100% for even 15 minutes it could cost thousands of dollars in electrical demand charges.

Which pumps run at Klode is fairly simple. The lead pump runs by itself over 99% of the year. Only in very high demand or exercising routines do older, less efficient pumps run. Switches at the control panel at the plant and at Klode are both used in the control program. Communication setup of these signals to Klode was more time consuming than moving the pump control program.

Communication failures were also taken into account. In 2010 communications were lost with Klode for over a day when Time Warner had an amplifier fail. During this failure we could not control the pumps even from the touch screen at Klode. RT11's program was still intertwined in the start of the pumps. This has been resolved and added protections have been programmed. Now the pumps will continue to run but default to a minimum speed after a set number of hours. The operator can anticipate what will happen next and make changes at the shift change by visiting Klode or let it run until the next day. Klode's touch screen has been updated for this control method. Calling in additional help should be an unlikely circumstance.

RT11 still contains some controls and alarming for Glendale and Fox Point. These will be removed when these RTUs are upgraded. The RT11 project is estimated to be 80% complete.

Completed Projects:

RTU2 – Filters 3 and 4, first RTU attempted.
RTU9 – Control Panel, failing RTU, priority upgrade
RT24 – Hypochlorite feed system, first control panel built from scratch
RT33 – Port Washington, battery operated pulse meter between Fox Point and Bayside/Mequon
RT34 – Green Vale, battery operated pulse meter between Fox Point and Bayside
RT35 – Henry Clay, mag meter between Glendale and Whitefish Bay
RT36 – Green Tree, mag meter between Glendale and Fox Point
RT37 – School Road, two pulse meters between Fox Point and Whitefish Bay
RAW2 – Raw Pump #2 at Klode pumping station
RAW4 – Raw Pump #4 at Klode pumping station
RT12 – main RTU at Klode, generator control, permanganate feed system, electrical metering
RTU3 – Filters 5 and 6, filter lead RTU
RTU4 – Filters 7 and 8
RTU1 – Filters 1 and 2
RT28 – MMSD mag meter and valve control
RTU6 – Community Flow Meters, Turbidity Meters
RTU7 – Raw and Basin flow control, Bulk Chemical Tank Levels
RTU5 – Motor Room Low Lift pump and Backwash pump control
WFB – Whitefish Bay water tower
RT11 – Remote Site Data Concentrator (80% complete)

Projected timeline of remaining projects:

Project	Start	Finish	Days	Weeks	Year
RTU6 – complete	11/18/2010	12/30/2010	30	6.0	2011
RTU7 – complete	12/30/2010	2/10/2011	30	6.0	
RTU5 – complete	2/10/2011	3/24/2011	30	6.0	
WFB – complete	3/24/2011	5/5/2011	30	6.0	
RT14 Fox Point	5/5/2011	6/23/2011	35	7.0	
RT13 Glendale	6/23/2011	8/4/2011	30	6.0	
RT11 (20 % remaining)	8/4/2011	8/13/2011	7	1.4	
RTU8 Chemical Feed	8/13/2011	9/24/2011	30	6.0	
MTU Alarming and Comms	9/24/2011	11/12/2011	35	7.0	

Moving Forward

The time line has accelerated to have the listed above RTU upgrades complete by the end of 2011. Fox Point is planning is underway. By the next presentation Fox Point and Glendale’s water tower should be complete.

Expenses and Budget

There are no expenses to report.

Starnet Service

Starnet was not asked for assistance in any projects this quarter.

May 4, 2011

Manager's report of completed operational projects

April 13th – May 3rd

1. Surface sandwash nozzles have been replaced and external surfaces have been pressure washed for all 8 rapid sand filters. Several surface sandwash arms will require additional maintenance to get them rotating at full speed.
2. The compressed air system at Bender has a moisture removal system that is under-performing. Oil from the compressor fouled the desiccant which caused excessive water to accumulate in pneumatic devices which has ultimately led to unexpected valve actuation problems. Plant staff installed an oil separator and made arrangements to replace all of the desiccant in the system.
3. Second quarter chromium results is now available. Raw water was found to have 0.349 ppb of total chromium and 0.190 ppb of chromium-6. Finished water leaving the plant was found to have 0.216 ppb of total chromium and 0.192 ppb of chromium-6.
4. Plant staff installed fans in the enclosure controlling the dehumidifier. Lack of air flow has resulted in repeated overheating failures over the past couple years. Since the fans have been installed, we have not noticed any problems with the system.
5. River Run Computers, Inc. has been retained to evaluate our aging IT system (excluding the SCADA system) and make recommendations for routine upkeep as well as capital replacements in the near future. Scope also includes providing cost estimates.
6. T.E. Brennan Company has been retained to review our insurance policies and to meet with the Commission in June to provide assistance during the renewal process.
7. The Plant Manager has entered into the following agreements in accordance to the purchasing policy:
 - River Run Computers, Inc.: IT evaluation and recommendations--fee not to exceed \$1,800.
 - T.E. Brennan Company: Insurance evaluation and recommendations--hourly fee of \$200 per hour for consultant services, \$60 per hour for administrative services, reimbursable expenses (i.e. postage, travel, etc.) will also be charged.

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			DISTRIBUTION OF CONVEYANCE CHARGE			FOR 2010 FACILITIES UPKEEP		AMOUNT BILLED
					CAPITAL \$/Kgal \$0.720 / Kgal \$0.741 / Kgal	OPERATING \$ \$0.891 / Kgal \$0.907 / Kgal	CONVEYANCE \$0.390 / Kgal \$0.390 / Kgal	FOX PT: 0.60	GLEN: 0.20	WFB: 0.20	\$500 / yr	NSWC REVENUE	
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	3,716	\$ 2.038	\$ 7,573.21	\$ 2,753.56	\$ 3,370.41	\$ 1,449.24	\$ 869.54	\$ 289.85	\$ 289.85	\$ -	\$ 6,123.97	\$ 7,573.21
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		15,185		\$ 30,522.68	\$ 11,011.24	\$ 13,589.29	\$ 5,922.15	\$ 3,553.29	\$ 1,184.43	\$ 1,184.43	\$ 500.00	\$ 25,100.53	\$ 31,022.68