

AGENDA
NORTH SHORE WATER COMMISSION

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

1. Call to order by the Chairman.
2. Approval of the minutes of the meeting held Wednesday, August 10, 2011.
3. Monthly report of plant operations for August.
4. Discussion of annual operating budget.
5. Approval of monthly bills.
6. Discussion and approval of the first payment request from J.F. Ahern for construction services pertaining to Contract 1-2011, Facilities Improvements Projects.
7. Discussion and possible action to adopt the 2012 operation and maintenance budget.
8. Discussion of the proposed capital improvement plan for 2012 - 2016. The Commission may take action to approve the plan and adopt the capital improvement budget for 2012.
9. Manager's report for August.
10. Discussion of issues pertaining to Shorewood's request to become a member. Possible action may be taken regarding this matter.
11. Pursuant to section 19.85 (1)(e) Wisconsin Statutes, the Commission reserves the right to convene in closed session to discuss and contemplate possible terms of an agreement with Shorewood which would provide them membership in the North Shore Water Commission. The Commission may reconvene into open session to take action regarding this matter.
12. Date and time of the next regular Commission Meeting.
13. Adjournment.

**NORTH SHORE WATER COMMISSION
MEETING OF August 10, 2011**

A meeting of the North Shore Water Commission was held at the Filtration Plant, 400 West Bender Road, Glendale, Wisconsin on Wednesday, August 10, 2011.

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

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

Also present: Eric Kiefer, Plant Manager & Recording Secretary; Jonathan Lee, Computer Administrator; Mark Peters, Operator Technician; Steve Ryan, Insurance Consultant

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

INSURANCE

Steve Ryan from T.E. Brennan Company was retained by the Commission to evaluate our causality and property insurance policies and make recommendations for changing coverage where appropriate. Mr. Ryan discussed his recommendations which included the following: (1) consider adding an additional \$3M ordinance and law coverage over the existing \$2M coverage on the Local Government Property Insurance Fund (LGPIF) policy, (2) consider adjusting the deductible on the LGPIF policy to \$1,000 from \$500 per claim, and (3) consider adding an umbrella policy of \$5M to supplement the League of Wisconsin Municipalities Mutual Insurance (LWWMI) policy. He found that all other types of coverage specified within the existing policies were appropriate for the Commission.

Ordinance and Law Coverage on the LGPIF Policy

Mr. Ryan described ordinance and law coverage as to how it would apply to the Commission if undamaged portions of the plant had to be brought up to building code requirements in the event of a loss. This would include the cost to demolish and build those undamaged portions if required by ordinances and laws.

Mr. Ryan had asked Mr. Kiefer to consider if ordinance and law coverage was warranted based on our exposure. When asked to report, the Plant Manager did not have the necessary information for the Commission to make a decision. Mr. Kiefer was directed to bring back this information to the Commission, at a later date, so a decision could be made.

Deductible on the LGPIF Policy

Mr. Ryan presented quotes by the LGPIF which indicated the premium amount corresponding to differing deductible amounts (from \$500 to \$5,000). His recommendation was to increase the deductible to \$1,000 as a way to reduce the premium while minimizing the exposure created by higher deductibles.

Umbrella Policy

Mr. Ryan discussed the benefits of an umbrella policy with terrorism coverage. The umbrella with \$5M of coverage combined with the LWWMI policy would bring liability coverage to \$11M. This type of coverage would help in various situations such as an outbreak of a waterborne illness.

Although Mr. Ryan thought the Commission should consider the coverage, he did not think it was necessary. After discussion, however, the Commission thought it was appropriate based on its value to the Commission; the \$6,500 was thought to be a relatively low cost for the \$5M of coverage gained.

Commission Action

It was moved by Mr. Maslowski, seconded by Mr. Naze, and unanimously carried that the Commission purchase the umbrella policy with terrorism coverage that was proposed by R&R Insurance.

It was moved by Mr. Maslowski, seconded by Mr. Naze, and unanimously carried that the Commission authorize the increase of the deductible on the LGPIF policy from \$500 to \$1,000.

MINUTES

It was moved by Mr. Naze, seconded by Mr. Maslowski, and unanimously carried that the minutes for the meeting held Wednesday, July 13, 2011 be approved as drafted.

MONTHLY REPORT OF PLANT OPERATIONS

Mr. Kiefer discussed his concerns regarding the Glendale and Whitefish Bay metering situation. For an as yet unknown reason, Whitefish Bay has consumed significantly less water this year and Glendale has consumed significantly more—based on NSWC meters. Mr. Kiefer noted that the meters have been tested and appropriately maintained; however, the Glendale meter has not been calibrated for several years because the valves in the master meter pit do not hold.

Mr. Kiefer outlined the following plan to resolve this potential metering problem:

- (1) Week of August 15: Request that Glendale and Whitefish Bay shut down the interconnection at Henry Clay.
- (2) Week of August 29: Request that Glendale and Whitefish Bay open the interconnection at Henry Clay.
- (3) Week of September 5: Shut down Whitefish Bay (at the plant) for about 4 hours to replace the master meter with a calibrated spare meter.
- (4) Send meter to Badger Meter for calibration—expected completion time of 4 weeks.
- (5) Week of October 3: Close all master meter valves and the high service pumps and replace Glendale master meter with calibrated spare. When everything has been installed, start high service pumps up and open all meter valves.

The monthly report of plant operations for July 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. Naze, seconded by Mr. Maslowski and unanimously carried that the following bills for the month of July, 2011 be approved and authorization was given to the Fiscal Agent to make such payments:

Buelow Vetter (legal services)	980.50
CDW-G (computer monitor)	139.88
Department of Workforce Development (special assessment, Wisconsin unemployment)	170.46
Diversified Benefit Services (section 125 plan admin)	90.44
Eric Kiefer (reimbursement for postage and gasket)	54.63
Fuchs and Boyle (legal services)	146.25
General Chemical (treatment chemical: alum)	5,559.84
Grainger (cleaner, gloves, lubricant, barricade tape, blades, lamp, and drill)	261.75
Great America (office copier lease)	87.00
Hach (lab supplies: reagents)	289.00
Hawkins (treatment chemicals: ammonia and polymer)	1,079.30
Idexx Distribution (lab supplies: color comparators)	35.04
KA Steel Chemicals (treatment chemical: sodium hypochlorite)	2,995.10
LGPIF (property insurance renewal)	3,060.00
McMaster-Carr (fiberglass hex nuts, conduit fittings)	97.19
Modular Piping Supply (channel stop lock kits)	289.15
Mulcahy/Shaw (uv reactor supplies: bearings, diaphragms, diaphragm caps, lamps, and seals)	4,659.27
Office Copying Equipment (maintenance payment for copier)	15.82
Personnel Concepts (compliance posters)	50.90
Pristine Water Solutions (treatment chemical: phosphate)	2,196.30
Rotroff Jeanson (accounting services)	875.00
SEH (drain-down inspection of SW reservoir)	1,950.00
Spytown.com (Ethernet to coax converters at Fox Point)	324.52
Strand Associates (engineering services: high service meter pit renovation)	2,780.90
TE Brennan (insurance consulting services)	2,250.74
Time Warner (Klode phone)	32.10
Time Warner (internet service)	764.80
US Cellular (cell phones)	45.32
Village Ace Hardware (weed killer, algaecide, calcium hypochlorite)	106.13
Village of Fox Point (fuel for truck)	35.85
Village of Whitefish Bay (Bender phone--4 months)	965.35
Waste Management (waste disposal)	406.57
Water Well Solutions (pump and motor repair of raw #2)--split	14,544.67
We Energies (Bender electric)	19,503.39
We Energies (Klode electric)	4,438.22
We Energies (Bender gas)	491.12

We Energies (Klode gas)		12.51
Wilkens-Anderson (lab supplies: glassware, reagents)		212.70
Wisconsin Water Assoc. (WWA annual conference registration)		300.00
	SUB-TOTAL	\$72,297.71
<u>Maintenance Reserve</u>		
Water Well Solutions (pump and motor repair of raw #2)--split		13,948.33
TCIC (Parker touchscreens)		2,210.00
	SUB-TOTAL	\$16,158.33
	TOTAL	\$88,456.04

DISCIPLINE AND GRIEVANCE PROCEDURE

In response the Wisconsin State Statues requiring a discipline and grievance policy to be in place by October 1, 2011, the Commission’s labor attorney prepared the following document for the Commission. After brief discussion, it was moved by Mr. Maslowski, seconded by Mr. Naze, and unanimously carried for the Commission to adopt the following Discipline and Grievance Procedure dated August 10, 2011.

DISCIPLINE AND GRIEVANCE PROCEDURE

August 10, 2011

- (a) **Discipline.** Discipline may result when an employee’s actions do not conform with generally accepted standards of good behavior, when an employee violates a policy or rule, when an employee’s performance is not acceptable, or when the employee’s conduct is detrimental to the interests of the Commission. Disciplinary action may call for any of four steps – verbal warning, written warning, suspension (with or without pay) or termination of employment – depending on the problem and the number of occurrences. There may be circumstances when one or more steps are bypassed. Certain types of employee problems are serious enough to justify either a suspension or termination of employment without going through progressive discipline steps. The Commission reserves the right, in its sole discretion, to impose disciplinary action as may be appropriate to the particular circumstances.
- (b) **Grievances.** This policy is intended to comply with Section 66.0509, Wis. Stats., and provides a grievance procedure addressing issues concerning workplace safety, discipline and termination. This policy applies to all employees covered under Section 66.0509, Wis. Stats. An employee may appeal any level of discipline under this grievance procedure. For purposes of this policy, “workplace safety” is defined as conditions of employment affecting an employee’s physical health or safety, the safe operation of workplace equipment and tools, safety of the physical work environment, personal protective equipment, workplace violence, and training related to same.

Employees should first discuss complaints or questions with their immediate supervisor. Every reasonable effort should be made by supervisors and employees to resolve any questions, problems or misunderstandings that have arisen before filing a grievance.

1. Step 1 – Written Grievance Filed with the Plant Manager. The employee must prepare and file a written grievance with the Manager within five (5) calendar days of when the employee knows, or should have known, of the events giving rise to the grievance. The written grievance must contain the name and position of the employee filing it, a statement of the grievance, the

issue involved, the relief sought, the date the event giving rise to the grievance took place, the employee's steps to orally review the matter with the employee's supervisor and the employee's signature and the date. The Manager or his designee will investigate the facts giving rise to the grievance and inform the employee of his or her decision, if possible within ten (10) business days of receipt of the grievance.

2. Step 2- Impartial Hearing Officer. If the grievance is not settled at the first step, the employee may request in writing, within five (5) business days following receipt of the Plant Manager's decision, a request for written review by an impartial hearing-officer. The Commission shall select the impartial hearing officer. The hearing officer shall not be a Commission employee. The impartial hearing officer will determine whether the Commission acted in an arbitrary and capricious manner. This process does not involve a hearing before a court of law; thus, the rules of evidence will not be followed. Depending on the issue involved, the impartial hearing officer will determine whether a hearing is necessary, or whether the case may be decided based on a submission of written documents. The impartial hearing officer shall prepare a written decision.
3. Step 3 - Review by the Commission. If the grievance is not resolved after Step 2, the employee shall request within five (5) business days of receipt of the written decision from the hearing officer a written review by the Commission. The Commission shall not take testimony or evidence; it may only determine whether the hearing officer reached an arbitrary or incorrect result based on a review of the record before the hearing officer. The matter will be scheduled for the Commission's next regular meeting. The Commission will inform the employee of its findings and decision in writing within ten (10) business days of the Commission meeting. The Commission shall decide the matter by majority vote and this decision shall be final and binding.

If the employee fails to meet the deadlines set forth above, the grievance will be considered resolved.

COMPUTER ADMINISTRATOR'S QUARTER REPORT

Jonathan Lee presented his 13th report to the Commission regarding the SCADA Upgrade Project. Included in his activities over the past quarter includes:

- (1) Wiring and programming of a drive temperature warning on Raw #4
- (2) Upgrading the SCADA equipment for the Fox Point pumping station with improvements including:
 - a. Adding a float alarms
 - b. Adding inputs from the backup generator and improving response time of pumps when emergency power is required
 - c. Adding power metering capabilities
 - d. Connecting the old Fox Point meters to the SCADA system
 - e. Improving wire labels and layout of equipment
- (3) Upgrading the SCADA equipment for the Glendale pumping station with improvements including:
 - a. Separating security door sensor alarms
 - b. Wiring motion sensors
 - c. Adding a command to reset the VFD remotely

Mr. Lee informed the Commission that the project is on schedule and well under budget. His report is on file.

PEER REVIEW AND VALIDATION RFP

Mr. Kiefer reported that two proposals were received in response to the RFP released last month. Both the proposal from CDM and SEH were responsive and both firms were qualified to perform the scoped work.

Fees (Not-to-Exceed Basis)

CDM: \$27,400 for Phase 1
\$32,500 for Phase 2
\$59,900 (TOTAL)

SEH: \$5,000 for Phase 1
\$16,000 for Phase 2.1
\$17,000 for Phase 2.2
\$17,000 for Phase 2.3
\$17,000 for Phase 2.4
\$7,000 for Phase 2.5
\$9,000 for Phase 3
\$27,000 for Phase 4
\$115,000 (TOTAL)

After a review and discussion of each proposal, it was moved by Mr. Maslowski, seconded by Mr. Naze, and unanimously carried to accept the proposal from CDM for both Phase 1 and Phase 2 of the *Peer Review and Validation of the SCADA Upgrade Project*. The project is to be funded by the Maintenance Reserve Fund.

PRELIMINARY 2012 OPERATION AND MAINTENANCE BUDGET

Mr. Kiefer presented updated preliminary O&M budget alternatives to the Commission.

- Alternative A included the necessary funds to staff the plant with the same positions filled as in 2011.
- Alternative B included the necessary funds to staff the plant with the same positions filled as in 2011 except that the Computer Administrator position would be left vacant and one of the vacant Technician Mechanic positions would be filled.
- Alternative C included the necessary funds to staff the plant with same positions filled as in 2011 except the Computer Administrator position would be left vacant (reducing staffing level by 1 employee).

Included in all of the budget alternatives are the funds to maintain all of the filter actuators—maintenance that has been deferred for several years. Depending on the alternative, different combinations of contractors would be required to perform all of the work scheduled for 2012. Various line items reflected the different staffing arrangements. Overall the following budgets included an annual increase in the following amounts:

- Alternative A, 4.63%
- Alternative B, 0.24%
- Alternative C, -0.40%

Mr. Kiefer also presented preliminary 2012 Capital Improvement Budget Alternatives.

- Alternative A included the necessary funds to perform capital improvement projects without the Computer Administrator.
- Alternative B included the necessary funds to perform capital improvement projects with the Computer Administrator.

The Commission discussed the budget alternatives. Out of this discussion several key issues were discussed.

O&M Budget: Computer Administrator Labor

Under this alternative, none of the Computer Administrator labor is allocated to valve actuator maintenance. Mr. Kiefer discussed how a Technician Mechanic or a contractor would be best suited for this type of work. Mr. Kiefer went on to say that Mr. Lee has unique qualifications since he was a Technician Mechanic before taking the Computer Administrator position. It may be possible to allocate some of his labor to filter valve maintenance; however, Mr. Kiefer expressed concerns of the legal ramifications.

Mr. Kiefer mentioned that the Computer Administrator position is most valuable when there are SCADA-related capital improvement projects. Because of limited funds for capital improvement projects, other types are projects have a higher priority in 2012 and in the next several years.

O&M Budget: Contractor Labor vs Staff Labor

Mr. Kiefer discussed the estimated cost for repairing the valve actuators using contractor labor. Although the committed costs of having a contractor perform the filter actuator maintenance is lower than hiring a Technician Mechanic, there is more labor available to allocate to other maintenance projects.

O&M Budget: Alternative C

The Commission discussed Alternative C which reduces the staffing level by one full-time employee. Mr. Kiefer mentioned the potential staffing problems that could arise, especially if an employee is absent for a long period of time. This is a concern because the plant is currently designed to be staffed 24 hours a day, 7 days a week.

Although it is the least costly option, it was the consensus of the Commission that Alternative C would no longer be considered because of concerns cited by Mr. Kiefer.

Allocating Labor Costs to Funds

In discussing the preliminary capital budget alternatives, Mr. Kiefer discussed how labor allocated in the O&M Budget is sometimes used for projects funded by the Maintenance Reserves (Capital Budget). This was true of the SCADA Upgrade Project where the labor for the Computer Administrator came out the O&M Budget. With that said, Mr. Kiefer explained the difference between capital improvement

budget alternatives is labor. In this case, the Alternative A would include contractor labor and Alternative B would include staff labor from the O&M Budget.

Commission Discussion

The Commission laid over Budget Alternatives A and B of the 2012 Operation and Maintenance Budget as well as the 2012 Capital Improvement Budget to next month for further discussion and possible adoption.

PLANT MANAGER'S MONTHLY REPORT

1. Basins #2 and #3 were cleaned and inspected. There was one flocculator paddle repaired in each basin. Also, sections of chain were replaced.
2. The repairs on raw water pump #2 were completed by Water Well Solutions. The VFD associated with the motor was also tested by Starnet Technologies to verify the drive was working properly--before everything was installed. As of August 1, the pump has been running without any noticeable problems.
3. Recent electrical storms resulted in communication problems at the remote sites. Four Ethernet-to-coax converters shorted out. Furthermore, a port on a SCADA card burnt out at Glendale.
4. The VFD at Glendale received damage during one of the electrical storms. Staff from Starnet and the Computer Administrator replaced a board on the drive to restore operability.
5. Plant staff completed the construction of new non-corrosive stands for the new fluoride and polymer pumps.
6. Plant staff replaced the corroded conductor bars on the overhead crane located in the loading dock area.
7. The Port Washington Meter Pit filled up with water and damaged a meter register. After plant staff pumped out the pit, the Computer Administrator replaced the meter registers and got them connected to our SCADA system.

DISCUSSION OF SHOREWOOD'S REQUEST TO BECOME A MEMBER

The Commission received two related documents since last month's meeting. Ruekert & Mielke, submitted its final draft of the report entitled, "Engineering Evaluation of Water Service for the Village of Shorewood from North Shore Water Commission." Mr. Kiefer stated that the report was complete and confirmed that it is technically feasible to serve the Village of Shorewood through a combination of new and existing interconnections with Glendale and Whitefish Bay without sacrificing quality of service. It should be noted that, in general, the northern portion of Shorewood would see improved fire flows than it currently does. Likewise, the southern portion would see reduced fire flows.

The Commission also discussed the report submitted by John Mayer entitled, "Consideration of a Conveyance Charge for the Village of Shorewood, August 2011." In that report, Mr. Mayer discussed the merits of using a conveyance charge for

Shorewood or any member. Mr. Mayer mentioned the possibility of using an alternative to the conveyance charge model. However, that option was only briefly described.

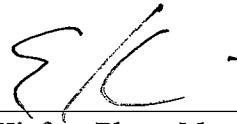
The Commission directed Mr. Kiefer to ask Mr. Mayer to supplement his report to provide more detail and a recommendation regarding a lump sum alternative to the conveyance charge that could be added to the capital buy-in cost.

NEXT MEETING DATE

The next scheduled regular meeting will be on Wednesday, September 14, 2011 at 7:30 A.M.

ADJOURMENT

It was moved by Mr. Maslowski, seconded by Mr. Naze, and unanimously carried to adjourn at 9:35 A.M.



Eric Kiefer, Plant Manager & Recording Secretary

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

	WFB.	GLE.	FPT.	MEQ	Totals
M.G. Metered at Plant	46.957	66.183	42.129	0.000	155.269
M.G. Reverse Flow	0.000	0.000	0.000	0.000	0.000
M.G. Metered in System	-3.485	13.224	-14.982	5.243	0.000
M.G. Charged to Members	43.472	79.407	27.147	0.000	150.026
M.G. Charged to All Users	43.472	79.407	27.147	5.243	155.269
M.G. Same Month Last Year (Members)	45.899	66.573	22.557	0.000	135.029
M.G. Same Month Last Year (All)	45.899	66.573	22.557	5.160	140.189
Accumulated M.G.	271.951	472.477	154.875	35.809	935.112
Accumulated M.G. Last Year	301.060	437.848	146.171	33.765	918.844
Accumulated % of Total Pumped	29.08%	50.53%	16.56%	3.83%	100.00%
Monthly % of Total Pumped	28.00%	51.14%	17.48%	3.38%	100.00%
Accumulated % Pumped of Members	30.24%	52.54%	17.22%		100.00%
Monthly % Pumped of Members	28.98%	52.93%	18.09%		100.00%
Average Daily Pumpage in M.G.	1.402	2.562	0.876	0.169	5.009

Maximum Day Pumpage	5.956 M.G.					
Date	27 th					
Maximum Flow Rate	9.419 M.G.D.					
Date	26 th					
Hour	0200					
Average Station Pressure	82.3 P.S.I.					
Avg. Total Cl Residual (Tap)	2.48 mg/L					
Raw Water Temperature (F)	Avg.	61	Max.	70	Min.	46
Tap Hardness (mg/L)	Avg.	133	Max.	135	Min.	129
Raw Water MPN Index	21.5					

Electrical Calculations: Klode info is estimated

This Month (Billed)

Bender On-Peak Consumption	79,676 @ \$0.06985 / kWh	\$5,565	23.1%
Bender Off-Peak Consumption	179,169 @ \$0.04974 / kWh	\$8,912	37.1%
Klode On-Peak Consumption	20,808 @ \$0.07686 / kWh	\$1,133	4.7%
Klode Off-Peak Consumption	40,392 @ \$0.05600 / kWh	\$2,262	9.4%
Other & Energy Credits		\$6,178	25.7%
Electrical Charge / kWh	\$0.07515		
Total Consumption / M.G.	2,061 kWh / MG		
\$ / M.G.	\$154.90		

Chemicals Applied	mg/L	\$/MG
Ammonium Hydroxide	0.568	\$4.99
Sodium Hypochlorite	3.270	\$14.18
Fluoride	1.147	\$14.01
Alum	7.713	\$15.50
Carbon (PAC)	0.000	\$0.00
Potassium Permanganate	0.000	\$0.00
Phosphates	2.400	\$11.50
Cationic Polymer	0.459	\$3.25
Total Chemical Cost		\$63.43

Water Metering	M.G.	% Diff.
Corrected High Service (Filters)	156.849	1.0
Total High Service	150.586	-3.0
Communities	155.269	0.0

NORTH SHORE WATER COMMISSION
Income Statement
For the Seven Months Ending July 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	\$ 273,940.45	\$ 273,940.45	0.00
43320	Fox Point-Operations	19,438.37	19,438.37	136,068.59	136,068.59	0.00
43330	Glendale-Operations	58,525.87	58,525.87	409,681.09	409,681.09	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	635.00	0.00	635.00
45300	Wholesale Water Sales	5,819.31	0.00	27,636.91	0.00	27,636.91
45400	Mequon Facilities Charges	0.00	0.00	500.00	0.00	500.00
45900	Misc Income	0.00	0.00	310.00	0.00	310.00
45910	Lab Services Income	1,170.00	0.00	6,671.04	0.00	6,671.04
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	124,087.90	117,098.59	855,443.08	819,690.13	35,752.95
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	4,666.69	(4,666.69)
60700	Standby Service - Milwaukee	1,350.00	291.67	2,700.00	2,041.68	658.32
60800	Great Lake Withdrawall Fee	0.00	802.08	7,112.00	5,614.56	1,497.44
	Total Source of Supply Expe	1,350.00	1,760.42	9,812.00	12,322.93	(2,510.93)
Acct.	Pumping Expenses					
62100	Labor & Super. Klode	10,739.96	10,227.42	68,756.41	71,591.90	(2,835.49)
62200	Electricity	23,941.61	19,750.00	128,946.16	138,250.00	(9,303.84)
62300	Normal Supplies, Klode	299.55	552.50	2,363.07	3,867.50	(1,504.43)
62400	Unusual Maint., Klode Pump	14,544.67	1,666.67	20,000.70	11,666.69	8,334.01
62510	Unusual Maint., Klode Suppl	52.56	166.67	377.56	1,166.69	(789.13)
62520	Unusual Maint., Klode Labor	0.00	275.00	754.33	1,925.00	(1,170.67)
62600	Electricity Demand	0.00	0.00	74.00	0.00	74.00
62700	Unusual Maint., Bender Pum	0.00	316.67	0.00	2,216.69	(2,216.69)
62750	Care of Grounds	553.67	291.67	1,186.08	2,041.69	(855.61)
	Total Pumping Expenses	50,132.02	33,246.60	222,458.31	232,726.16	(10,267.85)
Acct.	Purification Expenses					
63100	Labor & Super., Bender	21,864.90	20,292.08	137,505.46	142,044.56	(4,539.10)
63200	Normal Supplies, Bender	5,984.08	3,083.33	26,370.37	21,583.31	4,787.06
63300	Heating at Bender	491.12	2,000.00	12,439.58	14,000.00	(1,560.42)
63400	Disposal of Sludge	0.00	583.33	1,199.34	4,083.31	(2,883.97)
63510	Unusual Maint., Bender Supp	0.00	1,333.33	4,591.97	9,333.31	(4,741.34)
63520	Unusual Maint., Bender Labo	141.17	1,583.33	5,295.71	11,083.31	(5,787.60)
63600	Laboratory	3,518.00	2,200.42	18,415.28	15,402.94	3,012.34
63700	Instrumentation	0.00	2,041.67	23,826.90	14,291.69	9,535.21
63750	Care of Grounds	553.67	291.67	1,186.08	2,041.69	(855.61)
63800	Treatment Chemicals	8,841.44	8,792.00	58,643.60	61,544.00	(2,900.40)
	Total Purification Expenses	41,394.38	42,201.16	289,474.29	295,408.12	(5,933.83)
Acct.	Transmission Main Expenses					

NORTH SHORE WATER COMMISSION
Income Statement
For the Seven Months Ending July 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	405.36	758.31	(352.95)
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	4,370.00	3,500.00	870.00
64600	Maint of Trans Mains	0.00	0.00	0.00	0.00	0.00
64700	Maint. of Meters	0.00	208.33	1,296.80	1,458.31	(161.51)
	Total Trans. Mains Expenses	0.00	816.66	6,072.16	5,716.62	355.54
Acct.	Administration & General Expenses					
92000	Office & Admin. Salaries	7,054.60	7,083.33	52,020.53	49,583.31	2,437.22
92100	Office Expenses	1,695.97	1,180.83	7,045.16	8,265.81	(1,220.65)
92200	Engineering Services	4,730.90	1,666.67	9,604.55	11,666.69	(2,062.14)
92300	Professional Services	4,252.49	3,605.42	37,775.75	25,237.94	12,537.81
92400	Prop & P.L. Insurance	0.00	5,000.00	20,631.00	35,000.00	(14,369.00)
92500	Injuries & Damages	0.00	0.00	0.00	0.00	0.00
92600	WI Retirement Fund	2,069.28	4,416.67	21,355.99	30,916.69	(9,560.70)
92620	Other Employee Benefits	7,817.19	10,833.33	61,663.39	75,833.31	(14,169.92)
92700	Bond, Fiscal Agent	0.00	0.00	0.00	0.00	0.00
92800	NSWC Expense	0.00	250.00	1,000.00	1,750.00	(750.00)
92900	Employee Training Expense	50.90	720.83	3,595.60	5,045.81	(1,450.21)
93000	Misc. General Expense	126.81	166.67	1,145.33	1,166.69	(21.36)
93100	Recording Secretary	0.00	0.00	0.00	0.00	0.00
93300	Transportation Expense	35.85	166.67	443.55	1,166.69	(723.14)
93500	Maint-Office Equipment	0.00	0.00	0.00	0.00	0.00
93600	General Outdoor Expense	954.86	483.33	2,486.42	3,383.31	(896.89)
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	3,087.25	3,083.33	19,754.48	21,583.31	(1,828.83)
94100	Relocation Expense	0.00	0.00	0.00	0.00	0.00
94500	Contingency Expense	0.00	416.67	0.00	2,916.69	(2,916.69)
	Total Adm. & General Expen	31,876.10	39,073.75	238,521.75	273,516.25	(34,994.50)
	Total Expenses	124,752.50	117,098.59	766,338.51	819,690.08	(53,351.57)
	Net Income	\$ (664.60)	\$ 0.00	\$ 89,104.57	\$ 0.05	89,104.52

NORTH SHORE WATER COMMISSION
Income Statement (2 Year Comp.)
For the Seven Months Ending July 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	\$ 273,940.45	\$ 272,271.51	1,668.94
43320	Fox Point-Operations	19,438.37	19,493.89	136,068.59	136,457.23	(388.64)
43330	Glendale-Operations	58,525.87	56,415.18	409,681.09	394,906.26	14,774.83
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	635.00	1,626.00	(991.00)
45300	Wholesale Water Sales	5,819.31	4,597.56	27,636.91	24,070.04	3,566.87
45400	Mequon Facilities Charges	0.00	0.00	500.00	500.00	0.00
45900	Misc Income	0.00	0.00	310.00	900.00	(590.00)
45910	Lab Services Income	1,170.00	1,050.00	6,671.04	7,035.00	(363.96)
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	<u>124,087.90</u>	<u>120,452.56</u>	<u>855,443.08</u>	<u>837,766.04</u>	<u>17,677.04</u>
Acct.	Wholesale Water Expenses					
53300	Wholesale Water Expense	0.00	0.00	0.00	0.00	0.00
	Total Wholesale Water Sales	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
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	1,350.00	1,350.00	2,700.00	2,700.00	0.00
60800	Great Lake Withdrawall Fee	0.00	0.00	7,112.00	0.00	7,112.00
	Total Source of Supply Expe	<u>1,350.00</u>	<u>1,350.00</u>	<u>9,812.00</u>	<u>2,700.00</u>	<u>7,112.00</u>
Acct.	Pumping Expenses					
62100	Labor & Super. Klode	10,739.96	11,212.43	68,756.41	69,170.49	(414.08)
62200	Electricity	23,941.61	19,642.73	128,946.16	115,539.99	13,406.17
62300	Normal Supplies, Klode	299.55	342.11	2,363.07	3,768.69	(1,405.62)
62400	Unusual Maint., Klode Pump	14,544.67	0.00	20,000.70	57.33	19,943.37
62510	Unusual Maint., Klode Suppl	52.56	0.00	377.56	865.20	(487.64)
62520	Unusual Maint., Klode Labor	0.00	0.00	754.33	1,196.33	(442.00)
62600	Electricity Demand	0.00	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	553.67	602.25	1,186.08	1,207.25	(21.17)
	Total Pumping Expenses	<u>50,132.02</u>	<u>31,799.52</u>	<u>222,458.31</u>	<u>191,805.28</u>	<u>30,653.03</u>
Acct.	Purification Expenses					
63100	Labor & Super., Bender	21,864.90	19,589.27	137,505.46	128,245.76	9,259.70
63200	Normal Supplies, Bender	5,984.08	3,155.06	26,370.37	19,456.99	6,913.38
63300	Heating at Bender	491.12	0.00	12,439.58	11,139.23	1,300.35
63400	Disposal of Sludge	0.00	0.00	1,199.34	3,337.17	(2,137.83)
63510	Unusual Maint., Bender Supp	0.00	3,203.62	4,591.97	11,784.16	(7,192.19)
63520	Unusual Maint., Bender Labo	141.17	4,295.16	5,295.71	12,919.45	(7,623.74)
63600	Laboratory	3,518.00	(50.95)	18,415.28	14,834.43	3,580.85
63700	Instrumentation	0.00	807.40	23,826.90	20,805.95	3,020.95
63750	Care of Grounds	553.67	602.25	1,186.08	1,207.25	(21.17)
63800	Treatment Chemicals	8,841.44	2,834.85	58,643.60	31,480.30	27,163.30
	Total Purification Expenses	<u>41,394.38</u>	<u>34,436.66</u>	<u>289,474.29</u>	<u>255,210.69</u>	<u>34,263.60</u>
Acct.	Transmission Main Expenses					

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

Acct.	Revenues	Current Month	Current Month	Year to Date	Year to Date	Variance
		Actual	Last year	Actual	Last year	
64100	Labor & Super., Trans. Main	0.00	0.00	405.36	0.00	405.36
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	4,370.00	3,474.10	895.90
64600	Maint of Trans Mains	0.00	0.00	0.00	0.00	0.00
64700	Maint. of Meters	0.00	4,567.62	1,296.80	4,900.62	(3,603.82)
	Total Trans. Mains Expenses	0.00	4,567.62	6,072.16	8,374.72	(2,302.56)
Acct.	Administration & General Expenses					
92000	Office & Admin. Salaries	7,054.60	6,408.08	52,020.53	48,060.59	3,959.94
92100	Office Expenses	1,695.97	976.42	7,045.16	6,413.09	632.07
92200	Engineering Services	4,730.90	9,411.93	9,604.55	14,563.89	(4,959.34)
92300	Professional Services	4,252.49	1,493.25	37,775.75	18,763.21	19,012.54
92400	Prop & P.L. Insurance	0.00	238.17	20,631.00	1,190.85	19,440.15
92500	Injuries & Damages	0.00	0.00	0.00	0.00	0.00
92600	WI Retirement Fund	2,069.28	4,227.96	21,355.99	28,876.42	(7,520.43)
92620	Other Employee Benefits	7,817.19	9,925.84	61,663.39	66,825.85	(5,162.46)
92700	Bond, Fiscal Agent	0.00	0.00	0.00	0.00	0.00
92800	NSWC Expense	0.00	0.00	1,000.00	1,035.00	(35.00)
92900	Employee Training Expense	50.90	0.00	3,595.60	1,226.13	2,369.47
93000	Misc. General Expense	126.81	221.43	1,145.33	958.74	186.59
93100	Recording Secretary	0.00	90.00	0.00	540.00	(540.00)
93300	Transportation Expense	35.85	831.41	443.55	1,241.51	(797.96)
93500	Maint-Office Equipment	0.00	0.00	0.00	0.00	0.00
93600	General Outdoor Expense	954.86	197.68	2,486.42	2,720.31	(233.89)
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	3,087.25	2,643.76	19,754.48	17,968.33	1,786.15
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	31,876.10	36,665.93	238,521.75	210,383.92	28,137.83
	Total Expenses	124,752.50	108,819.73	766,338.51	668,474.61	97,863.90
	Net Income	\$ (664.60)	\$ 11,632.83	\$ 89,104.57	\$ 169,291.43	(80,186.86)

NORTH SHORE WATER COMMISSION
Maintenance Reserve Income Statement
For the Seven Months Ending July 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	\$ 1,229.76	\$ 0.00	\$ 10,541.27	\$ 1,715.96
Fox Point-Maint Reserve	773.81	0.00	6,632.90	815.06
Glendale-Maint Reserve	1,466.43	0.00	12,569.83	1,366.67
Interest	54.84	104.54	494.29	685.85
Wholesale Water Sales	4,754.26	3,715.20	22,487.85	19,615.74
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Total Revenues	8,279.10	3,819.74	52,726.14	24,199.28
	<hr/>	<hr/>	<hr/>	<hr/>
Expenses				
Capital Outlays Maint Reserve	16,158.33	17,006.61	50,523.05	66,549.90
	<hr/>	<hr/>	<hr/>	<hr/>
Total Expenses	16,158.33	17,006.61	50,523.05	66,549.90
	<hr/>	<hr/>	<hr/>	<hr/>
Net Income	\$ (7,879.23)	\$ (13,186.87)	\$ 2,203.09	\$ (42,350.62)
	<hr/> <hr/>	<hr/> <hr/>	<hr/> <hr/>	<hr/> <hr/>

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

	<u>Current Year</u>	<u>Prior Year</u>
ASSETS		
Cash		
Petty Cash	\$ 50.00	50.00
Checking	180,997.19	144,093.81
Temporary Investments	25,113.28	25,620.98
	206,160.47	169,764.79
Total Cash	206,160.47	169,764.79
Accounts Receivable	24,551.01	21,007.55
Prepaid Expenses	9,028.90	15,099.94
Due to/from Storm Sewer Fund	321.90	0.00
Due to/from Maint Reserve Fund	104,312.97	101,498.09
	344,375.25	307,370.37
Total Assets	\$ 344,375.25	307,370.37
 LIABILITIES AND FUND BALANCE		
Liabilities		
Accounts Payable	\$ 84,303.54	54,929.44
Payable to Municipalities	2,502.24	3,726.06
Wages Payable	18,009.90	0.00
Accrued Payroll Taxes	1,377.76	0.00
Payroll Liabilities	1,115.30	2,186.73
Flexible Spending Accounts	6,087.02	4,696.26
Deferred Revenue - WB	38,359.00	0.00
Deferred Revenue	31,464.35	0.00
	183,219.11	65,538.49
Total Liabilities	183,219.11	65,538.49
 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
	47,051.57	47,540.45
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
	25,000.00	25,000.00
Total Emergency Fund	25,000.00	25,000.00
 Current Year Revenues Over (Under) Expenses		
	89,104.57	169,291.43
Total Fund Balances	161,156.14	241,831.88
	344,375.25	307,370.37
Total Liabilities & Fund Balance	\$ 344,375.25	307,370.37

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

	<u>Current Year</u>	<u>Prior Year</u>
ASSETS		
Savings	\$ 566,390.36	565,395.55
Receivable for Asset Additions	773.81	0.00
Due to/from Operations Fund	(104,312.97)	(101,498.09)
	<hr/>	<hr/>
Total Assets	\$ 462,851.20	463,897.46
	<hr/> <hr/>	<hr/> <hr/>
LIABILITIES AND FUND BALANCE		
Liabilities		
Accounts Payable Cap Projects	\$ 2,210.00	3,911.19
	<hr/>	<hr/>
Total Liabilities	2,210.00	3,911.19
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	247,656.98
	<hr/>	<hr/>
Total Reserve Fund	458,438.11	502,336.89
Current Year Revenues Over (Under) Expenses	2,203.09	(42,350.62)
	<hr/>	<hr/>
Total Fund Balances	460,641.20	459,986.27
	<hr/>	<hr/>
Total Liabilities & Fund Balance	\$ 462,851.20	463,897.46
	<hr/> <hr/>	<hr/> <hr/>

BILLS TO BE APPROVED AT COMMISSION MEETING OF

9/7/11

Brooks Rand Labs (chromium analysis)	516.00
CDW-G (computer monitor, graphics card, and monitor cable)	248.56
Diversified Benefit Services (section 125 plan admin)	90.00
Eric Kiefer (reimbursement for postage and Water Council meeting registration)	267.32
Fuchs and Boyle (legal services)	117.00
Grainger (lamp, lamp holders, and signs)	167.22
Great America (office copier lease)	87.00
Hach (lab supplies: reagents and analyzer maintenance kit)	399.95
Hawkins (treatment chemicals: ammonia and polymer)	1,457.00
Idexx Distribution (lab supplies: quantitrays and quality control kit for Colilert)	479.51
Northern Lake Service (water analysis)	943.00
Quill (office supplies)	187.36
R&R Insurance (liability insurance renewal with umbrella)	50,220.00
Rotroff Jeanson (accounting services)	875.00
Spytown.com (Ethernet to coax converters at Fox Point)	326.01
Superior Chemical (hand cleanser and wipes)	136.25
TE Brennan (insurance consulting services)	849.05
Time Warner (Klode phone)	32.30
Time Warner (internet service)	764.80
US Cellular (cell phones)	61.78
USA Bluebook (hoses for chemical feed pumps)	599.69
Village Ace Hardware (bolts and herbicide)	44.38
Waste Management (waste disposal)	404.23
We Energies (Bender electric)	19,050.59
We Energies (Bender gas)	26.35
We Energies (Klode gas)	8.68
Wilkens-Anderson (lab supplies: glass disposal box, gloves, pipet tips, reagent, and standards)	546.50
Wisconsin State Lab of Hygiene (fluoride analysis)	20.00

SUB-TOTAL \$78,925.53

Maintenance Reserve

0.00

SUB-TOTAL \$0.00

TOTAL \$78,925.53

8/31/2011 Checking account balance \$178,137.61

8/31/2011 Local Government Investment Pool balance \$566,442.01

North Shore Water Commission
Payment to Strand Associates
Contract 1-2011
J.F. Ahern Project Number 211936
September 7, 2011

An invoice from J.F. Ahern Company for construction services pertaining to Contract 1-2011 has been reviewed and approved by the North Shore Water Commission. This invoice pertains to work completed in August 2011.

The payment request is for \$9,814.47. The proportionate costs for the respective municipalities are as follows:

Whitefish Bay	35.44%	\$3,478.24
Fox Point	22.30%	\$2,188.63
Glendale	42.26%	\$4,147.60
		\$9,814.47

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 J.F. Ahern. Your prompt attention to this matter is appreciated.

Respectfully,

Eric Kiefer



J. F. AHERN Co.
MECHANICAL & FIRE
PROTECTION CONTRACTORS

855 Morris Street, P.O. Box 1316
Fond du Lac, WI 54936-1316
(920) 921-9020 p • (920) 921-8632 f
www.jfahern.com

August 31, 2011

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

RE: CONTACT LISTING AND INITIAL PAY APPLICATION
J. F. AHERN CO. JOB NO. 211936

Dear Eric:

Attached to this letter there is a contact listing for the Bender Road and Klode Park work. In general, please call me first with anything you need. Of course, Tim Seipel can also be contacted if you have an urgent onsite need or I cannot be reached.

Regarding pay applications: Per our meeting a few weeks ago you requested the pay applications be delivered two weeks prior to the 2nd Wednesday of the coming month - which is today. As requested please find an electronic copy of pay application No. 1, the hardcopy will be in the mail to you tomorrow.

As this is our first pay application I wanted to take a minute to explain how it is setup:

First off - per Virginia's emailed "preconstruction meeting" outline the pay applications will be sent directly to you and Strand will not be copied. We are using our typical AIA form for the application and attaching it to Strand's pay application form she supplied. I trust this will be acceptable.

Secondly - I have divided the application into five line items:

1. General Conditions – The general conditions value includes my time, our project coordinators time, the performance bond value, permits, insurance, garbage dumpsters, etc. I will apply for payment for this line item as we spend this money. This typically will be the highest during the first billings as the project is setup and will taper off as the project progresses.
2. Concrete Demo and New Work – This line item includes the concrete work for both Klode Park and Bender Road including the alternates. As the submittals for this work are partially completed I am applying for 3% of this value for the work done to date.

North Shore Water Commission
August 31, 2011
Page 2 of 2

3. Coating Prep and New Application – This line item includes the coating work for both Klode Park and Bender Road. As the submittals for this work have been completed and submitted I am applying for 6% of this value for the work done to date.
4. Mechanical Piping and Equipment Work – This line item includes all of the new piping and equipment for both facilities. As we have partially submitted on the materials for this work and the purchase orders have been cut I am requesting 3% of this line item be paid.
5. Electrical Demo and New Work – The scope of this work is straight forward. Due to the fact that no submittals have been completed at this time I will not be applying for any payment for work completed to date.

Please let me know if you have any questions. I can be reached at (920) 907-5148.

Sincerely,

J. F. AHERN CO.



Chris Behrendt
Project Manager
WI Major Construction Services Division

cc: Tim Siepel / J. F. Ahern Co.

APPLICATION FOR PAYMENT

OWNER North Shore Water Commission PROJECT Glendale WTP
CONTRACTOR J. F. Ahern Co. CONTRACT 3561.005/1-2011
FOR PERIOD ENDING 8/31/11 PAYMENT APPLICATION DATE 8/31/11
PAYMENT APPLICATION NO. 1

TOTAL AMOUNT REQUESTED TO DATE	<u>\$10,331.02</u>
LESS RETAINAGE <u>5</u> %	<u>\$516.55</u>
NET AMOUNT DUE	<u>\$9,814.47</u>
AMOUNT OF PREVIOUS PAYMENTS	<u>\$0.00</u>
AMOUNT DUE THIS APPLICATION	<u>\$9,814.47</u>

CONTRACTOR's Certification:

The undersigned CONTRACTOR certifies that: (1) all previous progress payments received from OWNER on account of Work done under the Contract referred to above have been applied to discharge in full all obligations of CONTRACTOR incurred in connection with Work covered by prior Applications for Payment numbered 1 through n/a inclusive; (2) title to all Work, materials and equipment incorporated in said Work or otherwise listed in or covered by this Application for Payment will pass to OWNER at time of payment free and clear of all liens, claims, security interests and encumbrances (except such as are covered by Bond acceptable to OWNER indemnifying OWNER against any such lien, claim, security interest or encumbrance); and (3) all Work covered by this Application for Payment is in accordance with the Contract Documents and not *defective* as that term is defined in the Contract Documents.

Dated August 31, 2011

J. F. Ahern Co.
CONTRACTOR

By 
(Authorized Signature)

Required lien waivers attached.

Payment of the above AMOUNT DUE THIS APPLICATION is recommended.

Dated _____, _____

STRAND ASSOCIATES, INC.®

By _____
(Authorized Signature)

APPLICATION AND CERTIFICATE FOR PAYMENT

JFA Detail

Project: Glendale WTP
Glendale WI

J F AHERN CO Job Number: 211936

CONTINUATION SHEET

A ITEM NO.	B DESCRIPTION OF WORK	C SCHEDULED VALUE	D PREVIOUS APPLICATIONS	E WORK COMPLETED THIS APPLICATION		F STORED MATERIAL (NOT D OR E)	G TOTAL STORED & COMPLETED TO DATE (D+E+F)	H % COMPL	I BALANCE TO FINISH (C-G)
				WORK IN PLACE	APPLICATIONS				
1.	General Conditions	19,886.00		6,960.10			6,960.10	35%	12,925.90
2.	Concrete Demo & New Work	9,500.00		285.00			285.00	3%	9,215.00
3.	Coating Prep & New Application	17,250.00		1,035.00			1,035.00	6%	16,215.00
4.	Mechanical Piping & Equipment Work	68,364.00		2,050.92			2,050.92	3%	66,313.08
5.	Electrical Demo & New Work	67,800.00						0%	67,800.00
CHANGE ORDERS									
		182,800.00	0.00	10,331.02	0.00		10,331.02	6%	172,468.98

WAIVER OF LIEN

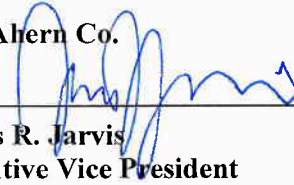
JFA JOB #211936

August 31, 2011

For Value received, we hereby waive partial rights and claims for lien on land and on buildings about to be erected, being erected, erected, altered or repaired and to the appurtenances thereunto, for **North Shore Water Commission** owner, for **Water Treatment Plant Work** same being situated in **Milwaukee** County, State of Wisconsin, described as **Glendale WTP** Project for all labor performed and for all material furnished for the erection, construction, alteration or repair of said building and appurtenances, except, none.

\$9,814.47

J. F. Ahern Co.



James R. Jarvis
Executive Vice President
Wisconsin Construction Division
J. F. Ahern Co.

NORTH SHORE WATER COMMISSION 2012 OPERATION AND MAINTENANCE BUDGET--ALTERNATIVE A

(Staffing Level of 7 Employees: 1 Manager, 1 Foreman, 1 **Computer Administrator**, 3 Op/Techs, 1 Relief Op/Tech)

ACCT. NO. & TITLE	ANTICIPATED				PROPOSED		% CHNG. 10 to 11
	2009 EXPENSES	2010 EXPENSES	2011 EXPENSES	2010 BUDGET	2011 BUDGET	2012 BUDGET	
---SOURCE OF SUPPLY---							
6010--Labor & Super-Intake Crib	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.00%
6020--Intake Supplies & Expense	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.00%
6050--Maint. of Crib & Well	\$ 8,335	\$ 5,230	\$ 9,000	\$ 9,000	\$ 8,000	\$ 5,830	-27.13%
6070--Standby Service, Milw.	\$ 2,700	\$ 2,700	\$ 2,700	\$ 3,500	\$ 3,500	\$ 2,800	-20.00%
6080--Great Lakes Withdrawal Fee	\$ -	\$ -	\$ 9,625	\$ -	\$ 9,625	\$ 9,625	0.00%
Total	\$ 11,035	\$ 7,930	\$ 21,325	\$ 12,500	\$ 21,125	\$ 18,255	-13.59%
---PUMPING EXPENSES---							
6210--Labor & Super., Klode	\$ 118,391	\$ 127,179	\$ 122,000	\$ 117,000	\$ 122,729	\$ 126,772	3.29%
6220--Electricity Expense	\$ 209,686	\$ 201,347	\$ 224,000	\$ 248,000	\$ 237,000	\$ 254,960	7.58%
6230--Normal Supplies, Klode	\$ 7,454	\$ 5,801	\$ 6,600	\$ 6,600	\$ 6,630	\$ 6,878	3.74%
6240--Unusual Maint., Klode Pumps	\$ -	\$ 57	\$ 20,000	\$ -	\$ 20,000	\$ 31,000	55.00%
6251--Unusual Maint., Klode Supplies	\$ -	\$ 832	\$ 1,000	\$ 2,000	\$ 2,000	\$ 800	-60.00%
6252--Unusual Maint., Klode Labor	\$ 2,900	\$ 1,196	\$ 2,000	\$ 2,000	\$ 3,300	\$ 1,200	-63.64%
6270--Unusual Maint., Bender Pumps	\$ 324	\$ 3,858	\$ 3,800	\$ 4,000	\$ 3,800	\$ 2,000	-47.37%
6275--Care Of Grounds	\$ 2,060	\$ 2,522	\$ 2,750	\$ 3,500	\$ 3,500	\$ 3,333	-4.77%
Total	\$ 340,815	\$ 342,792	\$ 382,150	\$ 383,100	\$ 398,959	\$ 426,943	7.01%
---PURIFICATION EXPENSES---							
6310--Labor & Super., Bender	\$ 235,139	\$ 239,796	\$ 243,000	\$ 235,800	\$ 243,505	\$ 248,967	2.24%
6320--Normal Supplies, Bender	\$ 37,383	\$ 31,808	\$ 35,000	\$ 34,100	\$ 37,000	\$ 41,142	11.19%
6330--Heating at Bender	\$ 23,732	\$ 19,061	\$ 24,000	\$ 34,000	\$ 24,000	\$ 24,000	0.00%
6340--Disposal of Sludge	\$ 4,983	\$ 4,563	\$ 6,000	\$ 7,000	\$ 7,000	\$ 7,000	0.00%
6351--Unusual Maint., Bender Supplies	\$ 16,132	\$ 19,794	\$ 16,000	\$ 16,000	\$ 16,000	\$ 30,800	92.50%
6352--Unusual Maint., Bender Labor	\$ 12,499	\$ 20,257	\$ 19,000	\$ 19,000	\$ 19,000	\$ 78,100	311.05%
6360--Laboratory Expense	\$ 27,601	\$ 25,598	\$ 26,400	\$ 25,000	\$ 26,405	\$ 25,960	-1.69%
6370--Instrumentation Expense	\$ 19,005	\$ 21,661	\$ 24,500	\$ 23,500	\$ 24,500	\$ 14,000	-42.86%
6375--Care Of Grounds	\$ 1,904	\$ 2,522	\$ 2,750	\$ 3,500	\$ 3,500	\$ 3,333	-4.77%
6380--Treatment Chemicals	\$ 127,389	\$ 79,282	\$ 98,000	\$ 133,000	\$ 105,504	\$ 126,972	20.35%
Total	\$ 505,767	\$ 464,342	\$ 494,650	\$ 530,900	\$ 506,414	\$ 600,274	18.53%
---TRANSMISSION MAINS---							
6410--Labor & Super, Mains	\$ -	\$ -	\$ 1,300	\$ -	\$ 1,300	\$ 1,600	23.08%
6420--Trans. Mains, Supply Exp.	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.00%
6450--Maintenance Of Reservoir	\$ 6,684	\$ 3,474	\$ 4,700	\$ 6,000	\$ 6,000	\$ 4,300	-28.33%
6470--Maint. of Meters	\$ 590	\$ 5,535	\$ 2,500	\$ 2,500	\$ 2,500	\$ 4,000	60.00%
Total	\$ 7,274	\$ 9,009	\$ 8,500	\$ 8,500	\$ 9,800	\$ 9,900	1.02%
---ADMINISTRATIVE & GENERAL---							
9200--Office & Admin. Salaries	\$ 81,934	\$ 86,389	\$ 87,305	\$ 85,000	\$ 85,000	\$ 85,803	0.94%
9210--Office Supplies & Expenses	\$ 12,971	\$ 11,237	\$ 13,000	\$ 14,170	\$ 14,170	\$ 12,950	-8.61%
9220--Engineering Services	\$ 18,717	\$ 16,609	\$ 20,000	\$ 20,000	\$ 20,000	\$ 30,000	50.00%
9230--Professional Services	\$ 33,005	\$ 40,633	\$ 45,000	\$ 45,140	\$ 43,265	\$ 51,225	18.40%
9240--Prop. & P.L. Insurance	\$ 44,670	\$ 39,440	\$ 73,911	\$ 54,000	\$ 60,000	\$ 56,730	-5.45%
9260--Wisconsin Retirement	\$ 44,449	\$ 49,825	\$ 39,000	\$ 48,000	\$ 53,000	\$ 26,582	-49.85%
9262--Employee Insurance	\$ 101,599	\$ 116,112	\$ 99,000	\$ 114,500	\$ 130,000	\$ 88,863	-31.64%
9280--N.S.W.C. Expense	\$ 126	\$ 1,035	\$ 1,100	\$ 3,000	\$ 3,000	\$ 3,000	0.00%
9290--Employee Training	\$ 7,088	\$ 4,151	\$ 8,000	\$ 9,150	\$ 8,650	\$ 8,150	-5.78%
9300--Misc. General Expense	\$ 956	\$ 1,527	\$ 1,500	\$ 2,000	\$ 2,000	\$ 2,000	0.00%
9310--Recording Secretary	\$ 1,080	\$ 540	\$ -	\$ 1,300	\$ -	\$ -	0.00%
9330--Transportation Expense	\$ 1,093	\$ 1,429	\$ 2,000	\$ 1,600	\$ 2,000	\$ 2,340	17.00%
9360--General Outdoor Expense	\$ 3,553	\$ 3,209	\$ 5,800	\$ 5,800	\$ 5,800	\$ 5,800	0.00%
9370--Maint. of 516 W. Bender	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.00%
9400--F.I.C.A. Taxes	\$ 32,546	\$ 32,050	\$ 35,000	\$ 34,000	\$ 37,000	\$ 35,818	-3.19%
9450--Contingencies	\$ -	\$ -	\$ -	\$ 5,000	\$ 5,000	\$ 5,000	0.00%
Total	\$ 383,787	\$ 404,186	\$ 430,616	\$ 442,660	\$ 468,885	\$ 414,261	-11.65%
EXPENDITURE TOTALS	\$ 1,248,678	\$ 1,228,259	\$ 1,337,241				
BUDGET TOTALS				\$ 1,377,660	\$ 1,405,183	\$ 1,469,633	4.59%

NORTH SHORE WATER COMMISSION
2012 OPERATION AND MAINTENANCE BUDGET--ALTERNATIVE B

(Staffing Level of 7 Employees: 1 Manager, 1 Foreman, 1 Technician Mechanic, 3 Op/Techs, 1 Relief Op/Tech)

ACCT. NO. & TITLE	ANTICIPATED			PROPOSED			% CHNG. 10 to 11
	2009 EXPENSES	2010 EXPENSES	2011 EXPENSES	2010 BUDGET	2011 BUDGET	2012 BUDGET	
---SOURCE OF SUPPLY---							
6010--Labor & Super-Intake Crib	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.00%
6020--Intake Supplies & Expense	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.00%
6050--Maint. of Crib & Well	\$ 8,335	\$ 5,230	\$ 9,000	\$ 9,000	\$ 8,000	\$ 5,830	-27.13%
6070--Standby Service, Milw.	\$ 2,700	\$ 2,700	\$ 2,700	\$ 3,500	\$ 3,500	\$ 2,800	-20.00%
6080--Great Lakes Withdrawal Fee	\$ -	\$ -	\$ 9,625	\$ -	\$ 9,625	\$ 9,625	0.00%
Total	\$ 11,035	\$ 7,930	\$ 21,325	\$ 12,500	\$ 21,125	\$ 18,255	-13.59%
---PUMPING EXPENSES---							
6210--Labor & Super., Klode	\$ 118,391	\$ 127,179	\$ 122,000	\$ 117,000	\$ 122,729	\$ 126,772	3.29%
6220--Electricity Expense	\$ 209,686	\$ 201,347	\$ 224,000	\$ 248,000	\$ 237,000	\$ 254,960	7.58%
6230--Normal Supplies, Klode	\$ 7,454	\$ 5,801	\$ 6,600	\$ 6,600	\$ 6,630	\$ 6,878	3.74%
6240--Unusual Maint., Klode Pumps	\$ -	\$ 57	\$ 20,000	\$ -	\$ 20,000	\$ 31,000	55.00%
6251--Unusual Maint., Klode Supplies	\$ -	\$ 832	\$ 1,000	\$ 2,000	\$ 2,000	\$ 800	-60.00%
6252--Unusual Maint., Klode Labor	\$ 2,900	\$ 1,196	\$ 2,000	\$ 2,000	\$ 3,300	\$ 1,200	-63.64%
6270--Unusual Maint., Bender Pumps	\$ 324	\$ 3,858	\$ 3,800	\$ 4,000	\$ 3,800	\$ 2,000	-47.37%
6275--Care Of Grounds	\$ 2,060	\$ 2,522	\$ 2,750	\$ 3,500	\$ 3,500	\$ 3,333	-4.77%
Total	\$ 340,815	\$ 342,792	\$ 382,150	\$ 383,100	\$ 398,959	\$ 426,943	7.01%
---PURIFICATION EXPENSES---							
6310--Labor & Super., Bender	\$ 235,139	\$ 239,796	\$ 243,000	\$ 235,800	\$ 243,505	\$ 235,928	-3.11%
6320--Normal Supplies, Bender	\$ 37,383	\$ 31,808	\$ 35,000	\$ 34,100	\$ 37,000	\$ 41,142	11.19%
6330--Heating at Bender	\$ 23,732	\$ 19,061	\$ 24,000	\$ 34,000	\$ 24,000	\$ 24,000	0.00%
6340--Disposal of Sludge	\$ 4,983	\$ 4,563	\$ 6,000	\$ 7,000	\$ 7,000	\$ 7,000	0.00%
6351--Unusual Maint., Bender Supplies	\$ 16,132	\$ 19,794	\$ 16,000	\$ 16,000	\$ 16,000	\$ 30,800	92.50%
6352--Unusual Maint., Bender Labor	\$ 12,499	\$ 20,257	\$ 19,000	\$ 19,000	\$ 19,000	\$ 4,800	-74.74%
6360--Laboratory Expense	\$ 27,601	\$ 25,598	\$ 26,400	\$ 25,000	\$ 26,405	\$ 25,960	-1.69%
6370--Instrumentation Expense	\$ 19,005	\$ 21,661	\$ 24,500	\$ 23,500	\$ 24,500	\$ 25,000	2.04%
6375--Care Of Grounds	\$ 1,904	\$ 2,522	\$ 2,750	\$ 3,500	\$ 3,500	\$ 3,333	-4.77%
6380--Treatment Chemicals	\$ 127,389	\$ 79,282	\$ 98,000	\$ 133,000	\$ 105,504	\$ 126,972	20.35%
Total	\$ 505,767	\$ 464,342	\$ 494,650	\$ 530,900	\$ 506,414	\$ 524,934	3.66%
---TRANSMISSION MAINS---							
6410--Labor & Super, Mains	\$ -	\$ -	\$ 1,300	\$ -	\$ 1,300	\$ 1,600	23.08%
6420--Trans. Mains, Supply Exp.	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.00%
6450--Maintenance Of Reservoir	\$ 6,684	\$ 3,474	\$ 4,700	\$ 6,000	\$ 6,000	\$ 4,300	-28.33%
6470--Maint. of Meters	\$ 590	\$ 5,535	\$ 2,500	\$ 2,500	\$ 2,500	\$ 4,000	60.00%
Total	\$ 7,274	\$ 9,009	\$ 8,500	\$ 8,500	\$ 9,800	\$ 9,900	1.02%
---ADMINISTRATIVE & GENERAL---							
9200--Office & Admin. Salaries	\$ 81,934	\$ 86,389	\$ 87,305	\$ 85,000	\$ 85,000	\$ 85,803	0.94%
9210--Office Supplies & Expenses	\$ 12,971	\$ 11,237	\$ 13,000	\$ 14,170	\$ 14,170	\$ 12,950	-8.61%
9220--Engineering Services	\$ 18,717	\$ 16,609	\$ 20,000	\$ 20,000	\$ 20,000	\$ 30,000	50.00%
9230--Professional Services	\$ 33,005	\$ 40,633	\$ 45,000	\$ 45,140	\$ 43,265	\$ 53,225	23.02%
9240--Prop. & P.L. Insurance	\$ 44,670	\$ 39,440	\$ 73,911	\$ 54,000	\$ 60,000	\$ 56,730	-5.45%
9260--Wisconsin Retirement	\$ 44,449	\$ 49,825	\$ 39,000	\$ 48,000	\$ 53,000	\$ 25,835	-51.26%
9262--Employee Insurance	\$ 101,599	\$ 116,112	\$ 99,000	\$ 114,500	\$ 130,000	\$ 102,179	-21.40%
9280--N.S.W.C. Expense	\$ 126	\$ 1,035	\$ 1,100	\$ 3,000	\$ 3,000	\$ 3,000	0.00%
9290--Employee Training	\$ 7,088	\$ 4,151	\$ 8,000	\$ 9,150	\$ 8,650	\$ 8,150	-5.78%
9300--Misc. General Expense	\$ 956	\$ 1,527	\$ 1,500	\$ 2,000	\$ 2,000	\$ 2,000	0.00%
9310--Recording Secretary	\$ 1,080	\$ 540	\$ -	\$ 1,300	\$ -	\$ -	0.00%
9330--Transportation Expense	\$ 1,093	\$ 1,429	\$ 2,000	\$ 1,600	\$ 2,000	\$ 2,340	17.00%
9360--General Outdoor Expense	\$ 3,553	\$ 3,209	\$ 5,800	\$ 5,800	\$ 5,800	\$ 5,800	0.00%
9370--Maint. of 516 W. Bender	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.00%
9400--F.I.C.A. Taxes	\$ 32,546	\$ 32,050	\$ 35,000	\$ 34,000	\$ 37,000	\$ 34,820	-5.89%
9450--Contingencies	\$ -	\$ -	\$ -	\$ 5,000	\$ 5,000	\$ 5,000	0.00%
Total	\$ 383,787	\$ 404,186	\$ 430,616	\$ 442,660	\$ 468,885	\$ 427,832	-8.76%
EXPENDITURE TOTALS	\$ 1,248,678	\$ 1,228,259	\$ 1,337,241	\$ 1,377,660	\$ 1,405,183	\$ 1,407,865	0.19%
BUDGET TOTALS				\$ 1,377,660	\$ 1,405,183	\$ 1,407,865	0.19%

**NORTH SHORE WATER COMMISSION
PRELIMINARY 2012 OPERATION AND MAINTENANCE BUDGET--ALTERNATIVE A
DETAILED**

	PROPOSED 2012	% OF 2012 BUDGET
---SOURCE OF SUPPLY---		
6010--Labor & Super-Intake Crib	\$ -	
Total	\$ -	0.00%
6020--Intake Supplies & Expense	\$ -	
Total	\$ -	0.00%
6050--Maint. of Crib & Well		
Locate and set up at intake	\$ 380	
Enter cone and inspect	\$ 1,275	
Video inspection at intake	\$ 1,650	
Wet well dive inspection and video	\$ 1,525	
Contingency	\$ 1,000	
Total	\$ 5,830	0.40%
<i>Inspect to see how new polymer system is working--no anticipated repairs.</i>		
6070--Standby Service, Milw.		
Standby Agreement	\$ 2,800	
Total	\$ 2,800	0.19%
6080--Great Lakes Withdrawal Fee		
Withdrawal Fee	\$ 9,625	
Total	\$ 9,625	0.65%
---PUMPING EXPENSES---		
6210--Labor & Super., Klode		
Operator/Technician (1/2)	\$ 28,729	
Operator/Technician (1/2)	\$ 28,729	
Operator/Technician (1/2)	\$ 28,365	
Relief Operator/Technician (1/2)	\$ 29,057	
Foreman (3/20)	\$ 10,637	
Contingency (1%)	\$ 1,255	
Total	\$ 126,772	8.63%
<i>Newer employees are receiving a wage increase because of increased years of service.</i>		
6220--Electricity Expense		
Treatment & Pumping Electricity	\$ 254,660	
Metering Stations	\$ 300	
Total	\$ 254,960	17.35%
<i>Electrical charges are assumed to increase by ~7%</i>		
<i>Estimates of pumpage and ave. cost are conservative:</i>		
181.90	\$/MG	1,400
		\$ 254,660
		MG/yr
6230--Normal Supplies, Klode		
Internet Service - Klode (1/2)	\$ 918	
Internet Service - FPT (1/2)	\$ 918	
Internet Service - WFB (1/2)	\$ 918	
Internet Service - GLEN (1/2)	\$ 918	
Internet Service - Henry Clay (1/2)	\$ 300	
Internet Service - Green Tree (1/2)	\$ 300	
Plumbing Supplies	\$ 500	
Natural Gas	\$ 300	
Whitefish Bay Water Bills	\$ 920	
Phone	\$ 386	
Contingency	\$ 500	
Total	\$ 6,878	0.47%
6240--Unusual Maint., Klode Pumps		
Repairs on Raw Pump #2	\$ 30,000	
Contingency	\$ 1,000	
Total	\$ 31,000	2.11%
<i>Major maintenance is required on raw pump #2 which requires removal and rebuilding of many pump components.</i>		
6251--Unusual Maint., Klode Supplies		
Generator maintenance supplies	\$ 600	
Other	\$ 200	

Total	\$	800	0.05%
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Maintenance contract with generator contractor needs to be renewed; conservative increases are assumed.

6252--Unusual Maint., Klode Labor

Generator maintenance labor	\$	1,000	
Contingency	\$	200	
Total	\$	1,200	0.08%

Maintenance contract with generator contractor needs to be renewed; conservative increases are assumed.

6270--Unusual Maint., Bender Pumps

Vibration analysis of pumps	\$	1,500	
Contingency	\$	500	
Total	\$	2,000	0.14%

6275--Care Of Grounds

Gardener (1/2)	\$	3,300	
Contingency (1%)	\$	33	
Total	\$	3,333	0.23%

---PURIFICATION EXPENSES---

6310--Labor & Super., Bender

Operator/Technician (1/2)	\$	28,729	
Operator/Technician (1/2)	\$	28,729	
Operator/Technician (1/2)	\$	28,365	
Relief Operator/Technician (1/2)	\$	29,057	
Working Foreman (17/20)	\$	60,276	
Computer Administrator	\$	66,560	
Contingency (3%)	\$	7,251	
Total	\$	248,967	16.94%

Recently hired employees will receive an increase in wage based on years of experience.

6320--Normal Supplies, Bender

Internet Service - Klode (1/2)	\$	918	
Internet Service - FPT (1/2)	\$	918	
Internet Service - WFB (1/2)	\$	918	
Internet Service - GLEN (1/2)	\$	918	
Internet Service - Henry Clay (1/2)	\$	300	
Internet Service - Green Tree (1/2)	\$	300	
Electrical Supplies & Wire	\$	1,000	
Plumbing Supplies	\$	2,500	
Cintas service charge	\$	950	
Uniform Service	\$	2,800	
Chemical Feed Supplies	\$	1,500	
Air Compressor Supplies	\$	1,500	
UV System Supplies	\$	6,700	
Janitorial Supplies	\$	3,300	
Tool Replacement	\$	1,000	
Safety Supplies and Equipment	\$	1,500	
Garbage Collection Service	\$	4,920	
Paint	\$	1,000	
Sand Filter Parts	\$	500	
Glendale Water Bills	\$	1,680	
Lubrication Supplies and Oil	\$	500	
Air Filters for Air Handling System	\$	700	
Light Bulbs & Lamp Supplies	\$	2,000	
Batteries & UPS Supplies	\$	200	
Hardware	\$	1,250	
First AID Supplies	\$	150	
Fire Extinguisher Service	\$	220	
Contingency	\$	1,000	
Total	\$	41,142	2.80%

With all 8 lamps on (instead of 2), more lamps will burn out per year; there is a significant increase in UV supplies for 2012.

6330--Heating at Bender

Natural Gas	\$	24,000	
Total	\$	24,000	1.63%

6340--Disposal of Sludge

MMSD Fees	\$	7,000	
Total	\$	7,000	0.48%

6351--Unusual Maint., Bender Supplies

Bender generator maintenance supplies	\$	900	
Bender plant-wide UPS, materials for maintenance	\$	2,400	
Supplies for alum transfer pump stands	\$	5,000	
Materials and equipment charges for filter actuator repairs	\$	20,500	
Contingency	\$	2,000	
Total	\$	30,800	2.10%

Significant increase if all of the filter actuators were rebuilt.
Contractors provide materials

6352--Unusual Maint., Bender Labor

Bender generator maintenance labor	\$	1,200	
Bender plant-wide UPS, labor for maintenance	\$	1,600	
Labor for filter actuator repairs	\$	68,300	
Contingency	\$	7,000	
Total	\$	78,100	5.31%

Significant increase if all of the filter actuators were rebuilt.
Contractors provide labor

6360--Laboratory Expense

Certification	\$	680	
Alkalinity testing supplies	\$	80	
Bacteriological supplies	\$	13,000	
Chlorine testing supplies	\$	5,000	
Fluoride testing supplies	\$	1,500	
General lab supplies	\$	2,300	
Hardness testing supplies	\$	100	
Nitrate testing supplies	\$	100	
Nitrite testing supplies	\$	100	
Phosphate testing supplies	\$	1,000	
Lab inspection/calibration checks	\$	300	
Analytical instrument repairs/replacement parts	\$	1,500	
Contingency	\$	300	
Total	\$	25,960	1.77%

6370--Instrumentation Expense

Emerson Support Contract - 1 year contract	\$	11,500	
Starnet Support Contract - Emergency Support & Preventative Maintenance	\$	-	
Instrumentation repair and replacement	\$	1,000	
Analyzer Maintenance	\$	1,000	
Other	\$	500	
Total	\$	14,000	0.95%

6375--Care Of Grounds

Gardener (1/2)	\$	3,300	
Contingency (1%)	\$	33	
Total	\$	3,333	0.23%

6380--Treatment Chemicals

Aqua Ammonia	\$	7,484	
Alum	\$	34,989	
Carbon	\$	-	
Sodium Hypochlorite	\$	23,118	
Fluoride	\$	25,663	
Potassium Permanganate	\$	-	
Phosphate	\$	18,480	
Coagulant Aid Polymer	\$	6,637	
Mussel Control Chemical	\$	9,100	
Other/Contingency	\$	1,500	
Total	\$	126,972	8.64%

With an increase in fuel prices, chemicals are anticipated to increase significantly.

	%inc	\$/MG	MG treated	\$/year
Aqua Ammonia	10	\$ 5.35	1,400.00	\$ 7,484
Alum	10	\$ 24.99	1,400.00	\$ 34,989
Carbon	10	\$ -	1,400.00	\$ -
Sodium Hypochlorite	25	\$ 16.51	1,400.00	\$ 23,118
Fluoride	15	\$ 18.33	1,400.00	\$ 25,663
Potassium Permanganate	10	\$ -	1,400.00	\$ -
Phosphate	20	\$ 13.20	1,400.00	\$ 18,480
Coagulant Aid Polymer	10	\$ 4.74	1,400.00	\$ 6,637
Mussel Control Chemical	0	\$ 6.50	1,400.00	\$ 9,100

---TRANSMISSION MAINS---

6410--Labor & Super, Mains

Inspection of Distribution Equipment	\$	500	
Vault Inspection and Pumping	\$	300	
Meter Readings at Bayside & Other Activities	\$	700	
Contingency	\$	100	
Total	\$	1,600	0.11%

6420--Trans. Mains, Supply Exp.

Other	\$	-	
Total	\$	-	0.00%

6450--Maintenance Of Reservoir

Inspection and Cleaning of NW Reservoir	\$	4,000	
Contingency	\$	300	
Total	\$	4,300	0.29%

6470--Maint. of Meters

Swap of calibrated meters	\$	1,900	
High Service Meter Calibration (One 8" Magmeter)	\$	800	
Distribution Meter Calibration	\$	1,200	
Contingency	\$	100	
Total	\$	4,000	0.27%

Green Tree and Henry Clay meters to be tested every year instead of once every other year.

---ADMINISTRATIVE & GENERAL---

9200--Office & Admin. Salaries

Manager	\$	83,304	
Contingency (3%)	\$	2,499	
Total	\$	85,803	5.84%

9210--Office Supplies & Expenses

Internet Service - Bender	\$	1,900	
Phone Service - Bender & Cellular	\$	3,600	
Copier Lease and Maintenance	\$	1,400	
General Office Supp.	\$	500	
Software / Security Upgrade	\$	1,000	
Computer Hardware	\$	1,000	
Google Email Renewal	\$	550	
Acct Software	\$	300	
Postage & Shipping	\$	1,500	
Paper	\$	200	
Contingency	\$	1,000	
Total	\$	12,950	0.88%

9220--Engineering Services

Arc Flash Study	\$	10,000	
Shorewood/NSWC Engineering	\$	10,000	
Predesign of 2013 Chemical Feed Upgrade	\$	10,000	
Total	\$	30,000	2.04%

Budget anticipates additional engineering due to possible connection with Shorewood.

9230--Professional Services

Legal	\$	19,000	
Fluoride QC	\$	300	
Water Suitability QC	\$	350	
Bacteriological QC	\$	1,400	
Compliance Testing	\$	4,500	
Accounting Services	\$	11,025	
Backflow Testing	\$	2,000	
Safety Program Consultant	\$	2,000	
Respirator Fit Testing & Medical Evaluations	\$	700	
CCR Notification	\$	900	
Alarm monitoring service	\$	550	
Audit and Audit Assistance	\$	8,000	
Contingency	\$	500	
Total	\$	51,225	3.49%

Budget includes additional legal expense due to possible connection with Shorewood

9240--Prop. & P.L. Insurance

Property (LGPIF)	\$	8,575	
Liability (LWMMI)	\$	9,900	
Workers Compensation (United Heartland)	\$	24,000	
Crime (Ohio Casualty)	\$	130	
Boiler and Machinery (CNA)	\$	4,750	

Umbrella (Agent Service Fee)	\$	500	
Umbrella (American Alternative)	\$	6,000	
Law and Ordinance Coverage	\$	875	
Other / Contingency	\$	2,000	
Total	\$	56,730	3.86%

9260--Wisconsin Retirement

Retirement Fund	\$	26,582	
Total	\$	26,582	1.81%

Employees are to pay half of the retirement benefit; overall retirement contribution is at 11.8% of gross earnings.

9262--Other Employee Benefits

Section 125 Plan	\$	1,200	
Life Insurance	\$	900	
Health Insurance - Single	\$	27,936	
Health Insurance - Fam.	\$	46,440	
Retirees	\$	9,312	
Cash in-lieu	\$	12,000	
Employee Contribution - Current Employees - (current rate 12%)	\$	(8,925)	
Other	\$	-	
Total	\$	88,863	6.05%

Health insurance cost significantly reduced because of cash in lieu benefit and increased employee contribution.

9280--N.S.W.C. Expense

Milwaukee Water Council Membership	\$	1,000	
Other	\$	2,000	
Total	\$	3,000	0.20%

9290--Employee Training

CPR & First Aid	\$	800	
Electrical Safety, PPE Training	\$	1,000	
Seminars & Conferences	\$	1,000	
General Training Materials	\$	550	
AWWA / WWA Membership Dues	\$	1,800	
WRF Membership Dues	\$	3,000	
Total	\$	8,150	0.55%

9300--Misc. General Expense

Bank Fees/Services	\$	700	
Other	\$	1,300	
Total	\$	2,000	0.14%

9310--Recording Secretary

Secretarial Fees	\$	-	
Total	\$	-	0.00%

9330--Transportation Expense

Gasoline	\$	840	
Truck Maintenance	\$	1,400	
Contingency	\$	100	
Total	\$	2,340	0.16%

Truck is requiring more maintenance because of its age.

9360--General Outdoor Expense

Fuel	\$	800	
Gardening Supplies	\$	1,000	
Lawnmower Maintenance	\$	200	
Tractor Parts & Supplies	\$	500	
Snow Removal Service	\$	2,200	
Tractor Repair Service	\$	1,000	
Other	\$	100	
Total	\$	5,800	0.39%

9400--F.I.C.A. Taxes

Payroll Tax	\$	35,818	
Total	\$	35,818	2.44%

9450--Contingencies

Contingencies	\$	5,000	
Total	\$	5,000	0.34%

TOTAL	\$	1,469,633	
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**NORTH SHORE WATER COMMISSION
PRELIMINARY 2012 OPERATION AND MAINTENANCE BUDGET--ALTERNATIVE B
DETAILED**

	PROPOSED 2012	% OF 2012 BUDGET
---SOURCE OF SUPPLY---		
6010--Labor & Super-Intake Crib	\$ -	
Total	\$ -	0.00%
6020--Intake Supplies & Expense	\$ -	
Total	\$ -	0.00%
6050--Maint. of Crib & Well		
Locate and set up at intake	\$ 380	
Enter cone and inspect	\$ 1,275	
Video inspection at intake	\$ 1,650	
Wet well dive inspection and video	\$ 1,525	
Contingency	\$ 1,000	
Total	\$ 5,830	0.41%
<i>Inspect to see how new polymer system is working--no anticipated repairs.</i>		
6070--Standby Service, Milw.		
Standby Agreement	\$ 2,800	
Total	\$ 2,800	0.20%
6080--Great Lakes Withdrawal Fee		
Withdrawal Fee	\$ 9,625	
Total	\$ 9,625	0.68%
---PUMPING EXPENSES---		
6210--Labor & Super., Klode		
Operator/Technician (1/2)	\$ 28,729	
Operator/Technician (1/2)	\$ 28,729	
Operator/Technician (1/2)	\$ 28,365	
Relief Operator/Technician (1/2)	\$ 29,057	
Foreman (3/20)	\$ 10,637	
Contingency (1%)	\$ 1,255	
Total	\$ 126,772	9.00%
<i>Newer employees are receiving a wage increase because of increased years of service.</i>		
6220--Electricity Expense		
Treatment & Pumping Electricity	\$ 254,660	
Metering Stations	\$ 300	
Total	\$ 254,960	18.11%
<i>Electrical charges are assumed to increase by ~7%</i>		
<i>Estimates of pumpage and ave. cost are conservative:</i>		
181.90	\$/MG	1,400
		\$ 254,660
		MG/yr
6230--Normal Supplies, Klode		
Internet Service - Klode (1/2)	\$ 918	
Internet Service - FPT (1/2)	\$ 918	
Internet Service - WFB (1/2)	\$ 918	
Internet Service - GLEN (1/2)	\$ 918	
Internet Service - Henry Clay (1/2)	\$ 300	
Internet Service - Green Tree (1/2)	\$ 300	
Plumbing Supplies	\$ 500	
Natural Gas	\$ 300	
Whitefish Bay Water Bills	\$ 920	
Phone	\$ 386	
Contingency	\$ 500	
Total	\$ 6,878	0.49%
6240--Unusual Maint., Klode Pumps		
Repairs on Raw Pump #2	\$ 30,000	
Contingency	\$ 1,000	
Total	\$ 31,000	2.20%
<i>Major maintenance is required on raw pump #2 which requires removal and rebuilding of many pump components.</i>		
6251--Unusual Maint., Klode Supplies		
Generator maintenance supplies	\$ 600	
Other	\$ 200	

Total	\$	800	0.06%
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Maintenance contract with generator contractor needs to be renewed; conservative increases are assumed.

6252--Unusual Maint., Klode Labor

Generator maintenance labor	\$	1,000	
Contingency	\$	200	
Total	\$	1,200	0.09%

Maintenance contract with generator contractor needs to be renewed; conservative increases are assumed.

6270--Unusual Maint., Bender Pumps

Vibration analysis of pumps	\$	1,500	
Contingency	\$	500	
Total	\$	2,000	0.14%

6275--Care Of Grounds

Gardener (1/2)	\$	3,300	
Contingency (1%)	\$	33	
Total	\$	3,333	0.24%

---PURIFICATION EXPENSES---

6310--Labor & Super., Bender

Operator/Technician (1/2)	\$	28,729	
Operator/Technician (1/2)	\$	28,729	
Operator/Technician (1/2)	\$	28,365	
Relief Operator/Technician (1/2)	\$	29,057	
Foreman (17/20)	\$	60,276	
Technician Mechanic	\$	53,900	
Contingency (3%)	\$	6,872	
Total	\$	235,928	16.76%

Recently hired employees will receive an increase in wage based on years of experience.

6320--Normal Supplies, Bender

Internet Service - Klode (1/2)	\$	918	
Internet Service - FPT (1/2)	\$	918	
Internet Service - WFB (1/2)	\$	918	
Internet Service - GLEN (1/2)	\$	918	
Internet Service - Henry Clay (1/2)	\$	300	
Internet Service - Green Tree (1/2)	\$	300	
Electrical Supplies & Wire	\$	1,000	
Plumbing Supplies	\$	2,500	
Cintas service charge	\$	950	
Uniform Service	\$	2,800	
Chemical Feed Supplies	\$	1,500	
Air Compressor Supplies	\$	1,500	
UV System Supplies	\$	6,700	
Janitorial Supplies	\$	3,300	
Tool Replacement	\$	1,000	
Safety Supplies and Equipment	\$	1,500	
Garbage Collection Service	\$	4,920	
Paint	\$	1,000	
Sand Filter Parts	\$	500	
Glendale Water Bills	\$	1,680	
Lubrication Supplies and Oil	\$	500	
Air Filters for Air Handling System	\$	700	
Light Bulbs & Lamp Supplies	\$	2,000	
Batteries & UPS Supplies	\$	200	
Hardware	\$	1,250	
First AID Supplies	\$	150	
Fire Extinguisher Service	\$	220	
Contingency	\$	1,000	
Total	\$	41,142	2.92%

With all 8 lamps on (instead of 2), more lamps will burn out per year; there is a significant increase in UV supplies for 2012.

6330--Heating at Bender

Natural Gas	\$	24,000	
Total	\$	24,000	1.70%

6340--Disposal of Sludge

MMSD Fees	\$	7,000	
Total	\$	7,000	0.50%

6351--Unusual Maint., Bender Supplies

Bender generator maintenance supplies	\$	900	
Bender plant-wide UPS, materials for maintenance	\$	2,400	
Supplies for alum transfer pump stands	\$	5,000	
Materials and equipment charges for filter actuator repairs	\$	20,500	
Contingency	\$	2,000	
Total	\$	30,800	2.19%

Significant increase if all of the filter actuators were rebuilt.
Staff procures materials.

6352--Unusual Maint., Bender Labor

Bender generator maintenance labor	\$	1,200	
Bender plant-wide UPS, labor for maintenance	\$	1,600	
Contingency	\$	2,000	
Total	\$	4,800	0.34%

Significant increase if all of the filter actuators were rebuilt.
Staff provides labor.

6360--Laboratory Expense

Certification	\$	680	
Alkalinity testing supplies	\$	80	
Bacteriological supplies	\$	13,000	
Chlorine testing supplies	\$	5,000	
Fluoride testing supplies	\$	1,500	
General lab supplies	\$	2,300	
Hardness testing supplies	\$	100	
Nitrate testing supplies	\$	100	
Nitrite testing supplies	\$	100	
Phosphate testing supplies	\$	1,000	
Lab inspection/calibration checks	\$	300	
Analytical instrument repairs/replacement parts	\$	1,500	
Contingency	\$	300	
Total	\$	25,960	1.84%

6370--Instrumentation Expense

Emerson Support Contract - 1 year contract	\$	11,500	
Starnet Support Contract - Emergency Support & Preventative Maintenance	\$	11,000	
Instrumentation repair and replacement	\$	1,000	
Analyzer Maintenance	\$	1,000	
Other	\$	500	
Total	\$	25,000	1.78%

6375--Care Of Grounds

Gardener (1/2)	\$	3,300	
Contingency (1%)	\$	33	
Total	\$	3,333	0.24%

6380--Treatment Chemicals

Aqua Ammonia	\$	7,484	
Alum	\$	34,989	
Carbon	\$	-	
Sodium Hypochlorite	\$	23,118	
Fluoride	\$	25,663	
Potassium Permanganate	\$	-	
Phosphate	\$	18,480	
Coagulant Aid Polymer	\$	6,637	
Mussel Control Chemical	\$	9,100	
Other/Contingency	\$	1,500	
Total	\$	126,972	9.02%

With an increase in fuel prices, chemicals are anticipated to increase significantly.

	%inc	\$/MG	MG treated	\$/year
Aqua Ammonia	10	\$ 5.35	1400.00	\$ 7,484
Alum	10	\$ 24.99	1,400.00	\$ 34,989
Carbon	10	\$ -	1,400.00	\$ -
Sodium Hypochlorite	25	\$ 16.51	1,400.00	\$ 23,118
Fluoride	15	\$ 18.33	1,400.00	\$ 25,663
Potassium Permanganate	10	\$ -	1,400.00	\$ -
Phosphate	20	\$ 13.20	1,400.00	\$ 18,480
Coagulant Aid Polymer	10	\$ 4.74	1,400.00	\$ 6,637
Mussel Control Chemical	0	\$ 6.50	1,400.00	\$ 9,100

---TRANSMISSION MAINS---

6410--Labor & Super, Mains

Inspection of Distribution Equipment	\$	500	
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Vault Inspection and Pumping	\$	300	
Meter Readings at Bayside & Other Activities	\$	700	
Contingency	\$	100	
Total	\$	1,600	0.11%

6420--Trans. Mains, Supply Exp.

Other	\$	-	
Total	\$	-	0.00%

6450--Maintenance Of Reservoir

Inspection and Cleaning of NW Reservoir	\$	4,000	
Contingency	\$	300	
Total	\$	4,300	0.31%

6470--Maint. of Meters

Swap of calibrated meters	\$	1,900	
High Service Meter Calibration (One 8" Magmeter)	\$	800	
Distribution Meter Calibration	\$	1,200	
Contingency	\$	100	
Total	\$	4,000	0.28%

Green Tree and Henry Clay meters to be tested every year instead of once every other year.

---ADMINISTRATIVE & GENERAL---

9200--Office & Admin. Salaries

Manager	\$	83,304	
Contingency (3%)	\$	2,499	
Total	\$	85,803	6.09%

9210--Office Supplies & Expenses

Internet Service - Bender	\$	1,900	
Phone Service - Bender & Cellular	\$	3,600	
Copier Lease and Maintenance	\$	1,400	
General Office Supp.	\$	500	
Software / Security Upgrade	\$	1,000	
Computer Hardware	\$	1,000	
Google Email Renewal	\$	550	
Acct Software	\$	300	
Postage & Shipping	\$	1,500	
Paper	\$	200	
Contingency	\$	1,000	
Total	\$	12,950	0.92%

9220--Engineering Services

Arc Flash Study	\$	10,000	
Shorewood/NSWC Engineering	\$	10,000	
Predesign of 2013 Chemical Feed Upgrade	\$	10,000	
Total	\$	30,000	2.13%

Budget anticipates additional engineering due to possible connection with Shorewood.

9230--Professional Services

Legal	\$	19,000	
Fluoride QC	\$	300	
Water Suitability QC	\$	350	
Bacteriological QC	\$	1,400	
Compliance Testing	\$	4,500	
Accounting Services	\$	11,025	
Backflow Testing	\$	2,000	
Safety Program Consultant	\$	2,000	
Respirator Fit Testing & Medical Evaluations	\$	700	
CCR Notification	\$	900	
Alarm monitoring service	\$	550	
Audit and Audit Assistance	\$	8,000	
Computer/IT service	\$	2,000	
Contingency	\$	500	
Total	\$	53,225	3.78%

Budget includes additional legal expense due to possible connection with Shorewood

9240--Prop. & P.L. Insurance

Property (LGPIF)	\$	8,575	
Liability (LWMMI)	\$	9,900	
Workers Compensation (United Heartland)	\$	24,000	
Crime (Ohio Casualty)	\$	130	
Boiler and Machinery (CNA)	\$	4,750	

Umbrella (Agent Service Fee)	\$	500	
Umbrella (American Alternative)	\$	6,000	
Law and Ordinance Coverage	\$	875	
Other / Contingency	\$	2,000	
Total	\$	56,730	4.03%

9260--Wisconsin Retirement

Retirement Fund	\$	25,835	
Total	\$	25,835	1.84%

Employees are to pay half of the retirement benefit; assumes overall retirement contribution increases to 11.8%.

9262--Other Employee Benefits

Section 125 Plan	\$	1,200	
Life Insurance	\$	900	
Health Insurance - Single	\$	27,936	
Health Insurance - Fam.	\$	69,660	
Retirees	\$	9,312	
Cash in-lieu	\$	6,000	
Employee Contribution - Current Employees - (current rate 12%)	\$	(12,829)	
Other	\$	-	
Total	\$	102,179	7.26%

Health insurance cost significantly reduced because of cash in lieu benefit and increased employee contribution.

9280--N.S.W.C. Expense

Milwaukee Water Council Membership	\$	1,000	
Other	\$	2,000	
Total	\$	3,000	0.21%

9290--Employee Training

CPR & First Aid	\$	800	
Electrical Safety, PPE Training	\$	1,000	
Seminars & Conferences	\$	1,000	
General Training Materials	\$	550	
AWWA / WWA Membership Dues	\$	1,800	
WRF Membership Dues	\$	3,000	
Total	\$	8,150	0.58%

9300--Misc. General Expense

Bank Fees/Services	\$	700	
Other	\$	1,300	
Total	\$	2,000	0.14%

9310--Recording Secretary

Secretarial Fees	\$	-	
Total	\$	-	0.00%

9330--Transportation Expense

Gasoline	\$	840	
Truck Maintenance	\$	1,400	
Contingency	\$	100	
Total	\$	2,340	0.17%

Truck is requiring more maintenance because of its age.

9360--General Outdoor Expense

Fuel	\$	800	
Gardening Supplies	\$	1,000	
Lawnmower Maintenance	\$	200	
Tractor Parts & Supplies	\$	500	
Snow Removal Service	\$	2,200	
Tractor Repair Service	\$	1,000	
Other	\$	100	
Total	\$	5,800	0.41%

9400--F.I.C.A. Taxes

Payroll Tax	\$	34,820	
Total	\$	34,820	2.47%

9450--Contingencies

Contingencies	\$	5,000	
Total	\$	5,000	0.36%

TOTAL	\$	1,407,865	
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NORTH SHORE WATER COMMISSION
CAPITAL IMPROVEMENT BUDGET FOR 2012-ALT A
(Computer Administrator Position Filled)

Master Meter Pit Valve Replacement	COST
Demolition of 24-inch and 30-inch Butterfly Valves	\$7,000
8-inch Ball Valves	\$24,000
Flange Coupling Adapters	\$1,500
8-inch Pipe	\$3,000
Subtotal	\$35,500
Profit and Overhead (10%)	\$3,550
Engineering (15%)	\$5,325
Contingency (15%)	\$5,325
	\$49,700
Server Upgrade	COST
2 Servers	\$10,598
Windows 2008 R2 Server Standard	\$1,140
Windows 7 Licensing	\$148
Labor & Professional Services - Computer Administrator	\$0
Subtotal	\$11,886
Contingency (15%)	\$1,783
	\$13,669
Riding Lawn Mower	COST
Mower, 40 to 50-inch Cutting Width	\$6,000
	\$6,000
Door Replacement	COST
Demolition, Installation, and Painting of 2 Doors at Bender	\$6,722
Contingency (15%)	\$1,008
	\$7,730
Online Turbidimeter	COST
Online Turbidimeter	\$6,000
	\$6,000
TOTAL	\$83,099

**NORTH SHORE WATER COMMISSION
CAPITAL IMPROVEMENT PLAN - ITEMIZED
2012 - 2016 (ALT-A)
(Computer Administrator Postion Filled)**

PROPOSED CAPITAL IMPROVEMENT PLAN FOR 2012

Master Meter Pit Valve Replacement	COST	
Demolition of 24-inch and 30-inch Butterfly Valves	\$	7,000
8-inch Ball Valves	\$	24,000
Flange Coupling Adapters	\$	1,500
8-inch Pipe	\$	3,000
Subtotal	\$	35,500
Profit and Overhead (10%)	\$	3,550
Engineering (15%)	\$	5,325
Contingency (15%)	\$	5,325
	\$	49,700

Server Upgrade	COST	
2 Servers	\$	10,598
Windows 2008 R2 Server Standard	\$	1,140
Windows 7 Licensing	\$	148
Labor & Professional Services - Contractor	\$	-
Subtotal	\$	11,886
Contingency (15%)	\$	1,783
	\$	13,669

Riding Lawn Mower	COST	
Mower, 40 to 50-inch Cutting Width	\$	6,000
	\$	6,000

Door Replacement	COST	
Demolition, Installation, and Painting of 2 Doors at Bender	\$	6,722
Contingency (15%)	\$	1,008
	\$	7,730

Online Turbidimeter	COST	
Online Turbidimeter	\$	6,000
	\$	6,000

2012 TOTAL	\$83,099
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PROPOSED CAPITAL IMPROVEMENT PLAN FOR 2013

Bender Chemical Feed Upgrade (Alum, Phosphate)	COST	
Chemical feed scales (alum-day, phosphate-day)	\$	10,000
Chemical feed pumps (alum-bulk, alum-day, phosphate-day)	\$	50,000
Chemical injector quills and plumbing	\$	2,500

Construction of containment walls for alum and phosphate	\$	5,000
Replacement access doors to chemical storage area	\$	3,000
Installation of day tanks	\$	8,500
Vent & fill line upgrade for alum bulk tanks	\$	8,000
Installation of emergency shower and eyewash stations	\$	4,500
Chemical feed room ventilation & HVAC upgrade	\$	20,000
Installation of heater for eyewash water	\$	21,000
Installation of SCADA equipment and associated instrumentation	\$	20,000
SCADA programming and integration	\$	-
Electrical work	\$	10,000
Demolition of old chemical feed systems	\$	8,500
Subtotal	\$	171,000
Engineering (15%)	\$	25,650
Contingency (15%)	\$	25,650
	\$	222,300

2013 TOTAL **\$222,300**

PROPOSED CAPITAL IMPROVEMENT PLAN FOR 2014

<i>Upgrade Front Entryway</i>		COST
Construction of new entryway and any necessary demolition (ADA)	\$	30,000
Subtotal	\$	30,000
Engineering (15%)	\$	4,500
Contingency (15%)	\$	4,500
	\$	39,000

<i>Domestic Hot Water Heater Replacement</i>		COST
Asbestos abatement	\$	2,000
Demolition of existing hot water heater, plumbing, & circulation pump	\$	3,000
Installation of on-demand heaters in bathroom areas	\$	5,000
	\$	10,000

<i>Air Conditioner Replacement</i>		COST
Asbestos abatement	\$	2,000
Installation of backflow preventor	\$	7,000
Demolition of air conditioner and associated equipment (R-12 refrig.)	\$	5,000
Installation of new heat exchanger / chiller unit	\$	15,000
Subtotal	\$	29,000
Engineering (15%)	\$	4,350
Contingency (15%)	\$	4,350
	\$	37,700

IT Upgrade		COST
2 SCADA Workstations	\$	3,000
4 Security camera workstations	\$	4,000
1 Employee workstation	\$	1,000
Monitors	\$	2,000
Network Switches	\$	1,000

Professional services to install and setup	\$	-
Subtotal	\$	11,000
Contingency (15%)	\$	1,650
	\$	12,650

2014 TOTAL \$99,350

PROPOSED CAPITAL IMPROVEMENT PLAN FOR 2015

Panel and Motor Upgrade at Klode Park		COST
Repair of floor above motor control cabinet	\$	15,000
Installation of a new motor control cabinet	\$	40,000
Install a new motor and VFD for raw water pump #1	\$	30,000
Installation of SCADA equipment and associated hardware	\$	20,000
SCADA integration and programming	\$	-
Demolition of old equipment	\$	8,000
Subtotal	\$	113,000
Engineering (15%)	\$	16,950
Contingency (15%)	\$	16,950
	\$	146,900

2015 TOTAL \$146,900

PROPOSED CAPITAL IMPROVEMENT PLAN FOR 2016

Valve Actuator Upgrade at Klode Park		COST
Installation of electric valve actuators	\$	45,000
Upgrade of control and 120V wiring in lower basement	\$	10,000
Install a new uninterruptable power supply (UPS) for SCADA system	\$	5,000
Demolition of old equipment	\$	3,000
SCADA integration and programming	\$	-
Subtotal	\$	63,000
Engineering (15%)	\$	9,450
Contingency (15%)	\$	9,450
	\$	81,900

2016 TOTAL \$81,900

GRAND TOTAL OVER 5-YEAR PERIOD \$633,549

NORTH SHORE WATER COMMISSION
CAPITAL IMPROVEMENT BUDGET FOR 2012-ALT B
(Computer Administrator Position **Vacant**)

Master Meter Pit Valve Replacement	COST
Demolition of 24-inch and 30-inch Butterfly Valves	\$7,000
8-inch Ball Valves	\$24,000
Flange Coupling Adapters	\$1,500
8-inch Pipe	\$3,000
Subtotal	\$35,500
Profit and Overhead (10%)	\$3,550
Engineering (15%)	\$5,325
Contingency (15%)	\$5,325
	\$49,700
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Server Upgrade	COST
2 Servers	\$10,598
Windows 2008 R2 Server Standard	\$1,140
Windows 7 Licensing	\$148
Labor & Professional Services - Contractor	\$7,750
Subtotal	\$19,636
Contingency (15%)	\$2,945
	\$22,581
<hr/>	
Riding Lawn Mower	COST
Mower, 40 to 50-inch Cutting Width	\$6,000
	\$6,000
<hr/>	
Door Replacement	COST
Demolition, Installation, and Painting of 2 Doors at Bender	\$6,722
Contingency (15%)	\$1,008
	\$7,730
<hr/>	
Online Turbidimeter	COST
Online Turbidimeter	\$6,000
	\$6,000
<hr/>	
TOTAL	\$92,012

**NORTH SHORE WATER COMMISSION
CAPITAL IMPROVEMENT PLAN - ITEMIZED
2012 - 2016 (ALT-B)
(Computer Administrator Position Vacant)**

PROPOSED CAPITAL IMPROVEMENT PLAN FOR 2012

Master Meter Pit Valve Replacement	COST	
Demolition of 24-inch and 30-inch Butterfly Valves	\$	7,000
8-inch Ball Valves	\$	24,000
Flange Coupling Adapters	\$	1,500
8-inch Pipe	\$	3,000
Subtotal	\$	35,500
Profit and Overhead (10%)	\$	3,550
Engineering (15%)	\$	5,325
Contingency (15%)	\$	5,325
	\$	49,700

Server Upgrade	COST	
2 Servers	\$	10,598
Windows 2008 R2 Server Standard	\$	1,140
Windows 7 Licensing	\$	148
Labor & Professional Services - Contractor	\$	7,750
Subtotal	\$	19,636
Contingency (15%)	\$	2,945
	\$	22,581

Riding Lawn Mower	COST	
Mower, 40 to 50-inch Cutting Width	\$	6,000
	\$	6,000

Door Replacement	COST	
Demolition, Installation, and Painting of 2 Doors at Bender	\$	6,722
Contingency (15%)	\$	1,008
	\$	7,730

Online Turbidimeter	COST	
Online Turbidimeter	\$	6,000
	\$	6,000

2012 TOTAL	\$92,012
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PROPOSED CAPITAL IMPROVEMENT PLAN FOR 2013

Bender Chemical Feed Upgrade (Alum, Phosphate)	COST	
Chemical feed scales (alum-day, phosphate-day)	\$	10,000
Chemical feed pumps (alum-bulk, alum-day, phosphate-day)	\$	50,000
Chemical injector quills and plumbing	\$	2,500

Construction of containment walls for alum and phosphate	\$	5,000
Replacement access doors to chemical storage area	\$	3,000
Installation of day tanks	\$	8,500
Vent & fill line upgrade for alum bulk tanks	\$	8,000
Installation of emergency shower and eyewash stations	\$	4,500
Chemical feed room ventilation & HVAC upgrade	\$	20,000
Installation of heater for eyewash water	\$	21,000
Installation of SCADA equipment and associated instrumentation	\$	20,000
SCADA programming and integration	\$	20,000
Electrical work	\$	10,000
Demolition of old chemical feed systems	\$	8,500
Subtotal	\$	191,000
Engineering (15%)	\$	28,650
Contingency (15%)	\$	28,650
	\$	248,300

2013 TOTAL **\$248,300**

PROPOSED CAPITAL IMPROVEMENT PLAN FOR 2014

<i>Upgrade Front Entryway</i>		COST
Construction of new entryway and any necessary demolition (ADA)	\$	30,000
Subtotal	\$	30,000
Engineering (15%)	\$	4,500
Contingency (15%)	\$	4,500
	\$	39,000

<i>Domestic Hot Water Heater Replacement</i>		COST
Asbestos abatement	\$	2,000
Demolition of existing hot water heater, plumbing, & circulation pump	\$	3,000
Installation of on-demand heaters in bathroom areas	\$	5,000
	\$	10,000

<i>Air Conditioner Replacement</i>		COST
Asbestos abatement	\$	2,000
Installation of backflow preventor	\$	7,000
Demolition of air conditioner and associated equipment (R-12 refrig.)	\$	5,000
Installation of new heat exchanger / chiller unit	\$	15,000
Subtotal	\$	29,000
Engineering (15%)	\$	4,350
Contingency (15%)	\$	4,350
	\$	37,700

IT Upgrade		COST
2 SCADA Workstations	\$	3,000
4 Security camera workstations	\$	4,000
1 Employee workstation	\$	1,000
Monitors	\$	2,000
Network Switches	\$	1,000

Professional services to install and setup	\$	3,000
Subtotal	\$	14,000
Contingency (15%)	\$	2,100
	\$	16,100

2014 TOTAL \$102,800

PROPOSED CAPITAL IMPROVEMENT PLAN FOR 2015

<i>Panel and Motor Upgrade at Klode Park</i>		COST
Repair of floor above motor control cabinet	\$	15,000
Installation of a new motor control cabinet	\$	40,000
Install a new motor and VFD for raw water pump #1	\$	30,000
Installation of SCADA equipment and associated hardware	\$	20,000
SCADA integration and programming	\$	20,000
Demolition of old equipment	\$	8,000
Subtotal	\$	133,000
Engineering (15%)	\$	19,950
Contingency (15%)	\$	19,950
	\$	172,900

2015 TOTAL \$172,900

PROPOSED CAPITAL IMPROVEMENT PLAN FOR 2016

<i>Valve Actuator Upgrade at Klode Park</i>		COST
Installation of electric valve actuators	\$	45,000
Upgrade of control and 120V wiring in lower basement	\$	10,000
Install a new uninterruptable power supply (UPS) for SCADA system	\$	5,000
Demolition of old equipment	\$	3,000
SCADA integration and programming	\$	20,000
Subtotal	\$	83,000
Engineering (15%)	\$	12,450
Contingency (15%)	\$	12,450
	\$	107,900

2016 TOTAL \$107,900

GRAND TOTAL OVER 5-YEAR PERIOD \$723,912

**Manager's Report of Operations
September 7, 2011**

For the Period: August 10 - September 6

1. Basins #1 and #5 were cleaned and inspected. There were 3 flocculator paddles repaired in basin #1. Sections of chain were also repaired.
2. Plant staff cleaned out old equipment and supplies at the Klode Park pumping station in preparation for the upcoming construction project.
3. Plant staff and Starnet started programming the new RTU that will be installed as a part of the upcoming construction project.
4. Plant Manager has been in contact with various parties to determine the appropriate law and ordinance coverage. Contractors are preparing cost estimates for various projects identified by the Glendale building inspector.
5. CDM visited the plant and remote sites to begin its review of the SCADA Upgrade Project.
6. Third quarter chromium results are now available. Raw water was found to have 0.267 ppb of total chromium and 0.270 ppb of chromium-6. Finished water leaving the plant was found to have 0.242 ppb of total chromium and 0.294 ppb of chromium-6.
7. The Plant Manager has entered into the following agreements in accordance to the purchasing policy:
 - Diversified Benefit Service - Renewal of section 125 plan administration agreement (\$4.40 per participant with a \$95 per month minimum)
 - Business Fitness - Service to get optimize telecommunication services (payment due is half of 1st year of savings from approved improvements)
 - Verizon Wireless - Cellular internet access for one remote metering site (monthly fee of \$39.99)

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Thursday, September 01, 2011

NORTH SHORE WATER COMMISSION
400 West Bender Road
Glendale, WI 53217

Dear Commissioners:

The question you have asked of me is to estimate the "cost avoidance" savings that Shorewood would benefit from by using the existing water main and elevated / stand pipe reservoir storage of the three (3) current NSWC members.

That is an extremely difficult question. If Shorewood does become a NSWC member, effectively they will be using the existing water main and storage capacity of the existing members in lieu of constructing their own transmission main and storage. With all the interconnects between the 3 NSWC members now open and metered, the distribution system is working more efficiently and substantial quantities of water are now flowing between members through their respective distribution systems. Consequently it makes sense to view the 3 distribution systems as "one system" and consider a simple "sharing" of the excess capacity or water main "oversizing" construction costs and storage construction cost. Using this "sharing" concept, Shorewood's trailing 4-year average annual usage as a percentage of everyone's trailing 4-year annual usage calculates to 22.18%.

The original construction cost for each members elevated / standpipe storage was taken from the 2010 PSC Annual Report with two adjustments. On page 29 of the NSWC 2010 Audit, the "Reservoir monitoring project" was listed as a capital outlay for Acct. 342 - Distribution Reservoirs and Standpipes. This project involved modifications to the clear water storage in-ground concrete tanks physically on the NSWC grounds. The suggestion that this project should be included as an asset addition to Acct. 342 is incorrect. The correct account should have been Acct. 332 – Sand or Other Media Filtration Equipment. (See PSCW Uniform System of Accounts page 60 which lists clear water basins on the treatment plant site). Glendale and Whitefish Bay booked clear water storage modifications into Acct. 342 as suggested in the NSWC Audit. (I corrected FP before the PSC Report was completed.) Consequently I needed to remove \$13,567 from GDL's account 342 and \$11,378 from WFB's account 342 to arrive at the corrected balance for those accounts. The combined storage original cost investment for all 3 members is \$479,080 so Shorewood's 22.18% share would be \$106,238.

I used original cost, not "net book cost", because all 3 member's tanks are nearly completely depreciated. These storage tanks have been excellently maintained throughout the past 50 years, and with continued preventative maintenance will provide service for another 50 years. Including them at "net book cost" would be suggesting that they have no value to Shorewood which is not the proper conclusion.

The cost for water main oversizing is much more complicated. There is the previously discussed conundrum of what size main to pick as the "base". Do we use the 6" and 8" average that was used to establish the conveyance charge for Mequon wholesale? Do we use the 12" or 14" size that the PSCW used for the Milwaukee, Racine and Oak Creek wholesale rates? Normal residential water main construction uses 6" or 8" main. In terms of feet of water main,

89% of WFB's mains, 82% of FP's mains, and 72% of GDL's mains are 8" or smaller. If we consider that the purpose of the extra capacity available in mains 10" or larger is to move water from one end of the system to the other, then perhaps that should be the basis for the "shared capacity" calculations. If distribution capacity larger than that of an 8" main is shared, then of the \$20,712,566 of net distribution main times the combined oversizing percentage of 12.54% means that there is \$2,598,189 of oversizing net book costs to be shared. Shorewood's 22.18% of that is \$576,161.

If Shorewood had been one of the original members it likely would have been required to construct a transmission main to its physical border (or pay for main oversizing costs in Glendale and Whitefish Bay), and also construct some amount of either elevated or ground level water storage. I am not a water facilities design engineer, and I have no idea what the design criteria were in the late 1950's early 1960's to even begin to estimate the size of transmission main that Shorewood would have built and the size and cost of the elevated storage that would have been required. I am sure that the NSWC could hire an engineering firm to perform that kind of "what if" analysis, however I suspect it would be somewhat expensive to retroactively design a system for water use conditions more than 50 years old.

As a "reality check" if this "shared capacity" dollar amount is reasonable, the question of "What would have been the construction cost of a transmission main to Shorewood in the early 1960's? From the FP vintage construction data taken from the PSC Annual Reports going back to 1932 I calculated the cost per inch-foot for each year of construction from 1963 through 2010. Using the Handy-Whitman construction cost index I adjusted the cost per inch-foot for each vintage year and arrived at a calculated cost per inch-foot in the \$1.48 to \$1.56 range. The PSCW's Water Utility Reference Manual recommends a benchmark retirement cost of \$10 per foot for 6" or 8" main installed between 1960 and 1969. That calculates to \$1.25 to \$1.67 (average \$1.46) per inch-foot and is very close to my calculated \$1.48 - \$1.56 using actual FP records. A reasonable 1963 water main construction cost would be \$1.50 per inch-foot.

Using "MapQuest", the distance from 400 W. Bender Rd. to Wilson Dr. at Capitol was estimated at 3.61 miles running down Port Washington Rd., or 3.39 miles running down Santa Monica Blvd. Using the shortest route, 3.39 miles equals 17,899 feet. At \$1.50 per inch-foot, the estimated construction cost for a transmission main to Shorewood would have been:

<u>Diameter</u>	<u>\$/ft.</u>	<u>Total Est. Cost</u>
16"	\$24.00	\$ 429,576
18"	\$27.00	\$ 483,273
21"	\$31.50	\$ 563,819
24"	\$36.00	\$ 644,364
30"	\$45.00	\$ 805,455

Not being a water system design engineer, I have no idea what size transmission would have been required in 1963, however the "shared capacity" of oversizing calculated for Shorewood in the amount of \$576,161 does not appear unreasonable.

Shorewood's total "shared capacity" of the elevated storage of \$106,238 plus the water main oversizing of \$576,161 would indicate that they would benefit in an amount of \$682,400 of original cost of the 3 members facilities. Be aware that this is strictly an estimate of the shared facilities benefiting Shorewood. Annual operating, maintenance and ultimate replacement costs are not included.

If this were to be an up-front payment as a condition of becoming a NSWC member, it would need to be booked as a "contribution". It would be administratively impossible to have Shorewood "owning" a portion of all the water mains in GDL, WFB, and FP.

That said it brings up a question and concern. The NSWC has apparently proposed that Shorewood be given the opportunity to "buy in" to the NSWC and become a 25.02% owner by paying \$1,267,620 which is 25.02% of the Baker Tilly estimated "Net Book Value" of \$5,066,426 as shown on Schedule 2 of their March 4, 2001 letter to the Commission.

It should be obvious to all that the fair market value (FMV) of the treatment plant is far greater than \$5,066,426. Oak Creek just expanded their treatment plant from 20 MGD to 28 MGD for about \$15 million. Simple math suggests that the NSWC treatment plant FMV is likely worth something in the \$35 - \$40 million range, and perhaps more.

The possibility that the Village of Shorewood might become a "full member" of the NSWC raises one concern. While an extraordinary remote possibility, what if at some point in the future, say in the year 2050, potable water become a really scarce asset and some entity offers to buy the NSWC assets for \$60 million. If that wildly incomprehensible event did materialize, Shorewood would get 25.02% of that purchase price (\$15 million) for a buy-in price of \$1,267,620? Toll ways have been sold to investors (Chicago's Skyway), so anything is a possibility.

If this buy-in gets to the point of writing an agreement, a paragraph needs to be included to deal with just such a possibility. What I would suggest is that the sales price be "deflated" from the date of the treatment plant sale, to the date Shorewood joins as a full member, using the Engineering New Record 20-city Construction Cost Index (ENR-CCI) or if that is not available or in existence then the CPI-U. The difference between that deflated sales price and the \$5,066,426 should be split up between the 3 original members of the NSWC using a capital percentage calculated from all capital paid by the members for all years prior to the date Shorewood becomes a full member.

An alternative suggestion is that the \$1,267,620 payment be made to look similar to the "Economic Development Charge" that Milwaukee charged New Berlin for the privilege to be able to receive Milwaukee water, and that the \$1.267 MM not contain any asset ownership of existing assets. An appraisal of the NSWC assets could be done to establish a current value for the plant as of the date Shorewood becomes a NSWC member, and Shorewood would then participate in any increase in value should the plant ever be sold.

Respectfully submitted,

/s/ John A. Mayer

John A. Mayer
Utility Rate Consultant

COMBINED HISTORICAL INCOME STATEMENTS

Acct. Description	Average CPI-U for Year	207.342	215.303	214.537	218.056	4-Year Average
	Actual CPI-U Inflation %	105.17%	101.28%	101.64%	100.00%	
	2007	2008	2009	2010		
	\$	\$	\$	\$		\$
TOTAL OPERATING REVENUE	4,905,622	5,106,387	4,944,647	5,243,284		5,049,985
<u>OPERATING EXPENSE</u>						
Purchased Water	1,172,643	1,231,563	1,297,465	1,260,185		1,240,464
Local O&M Expense	1,573,363	1,633,362	1,665,211	1,728,103		1,650,010
403.0 Depreciation Expense	812,405	914,251	969,721	1,006,865		925,811
407.0 Amortization Expense	-	-	-	25,532		6,383
408.0 Taxes - Tax Equiv. Pymt.	473,966	484,097	536,084	588,187		520,584
408.0 Taxes - FICA	39,089	41,850	44,510	45,488		42,734
408.0 Taxes - PSC Remainder Asmnt	4,872	6,124	5,282	5,084		5,341
TOTAL OPERATING EXPENSE	4,076,338	4,311,247	4,518,273	4,659,444		4,391,326
NET OPERATING INCOME	<u>829,284</u>	<u>795,140</u>	<u>426,374</u>	<u>583,840</u>		<u>658,659</u>

Conveyance System Net Investment	Use 12/31/2010				12/31/2010
Trans. & Distr. Water Main	18,301,033	18,301,033	18,301,033	18,301,033	18,301,033
Accum. Depr. Trans. & Distr. Water Main	710,242	710,242	710,242	710,242	710,242
Conveyance System Net Investment (Utility Financed)	17,590,791	17,590,791	17,590,791	17,590,791	17,590,791
Trans. & Distr. Water Main (Contributed)					4,906,207
Accum. Depr. Trans. & Distr. Water Main					1,784,432
Conveyance System Net Investment (Contributed)					3,121,775
Total Conveyance System Net Investment					20,712,566
Water Main Net Book Cost Oversizing w/ 8" base	12.54%	2,598,189	Shrwd %	22.18%	576,161
Elevated Storage - Allocated to Shorewood		479,080	Shrwd %	22.18%	106,238
Total Capitalized Cost for Main Oversizing & Elevated Storage Allocated to Shorewood					682,400

Oversizing w/ 8" base	(1)	8
Oversizing w/ 10" base	(2)	10
Oversizing w/ avg. of 8" & 10"	(3)	
Select Option Number		1

Glendale Water Sales	650,748	664,460	599,115	611,713	631,509
Whitefish Bay Water Sales	384,048	403,472	399,080	370,181	389,195
Fox Point Water Sales	243,511	243,226	222,891	207,065	229,173
Mequon Water Sales	59,136	61,135	55,232	51,653	56,789
Shorewood Water Sales	377,109	364,543	405,882	341,764	372,325

GLENDALE HISTORICAL INCOME STATEMENTS

Average CPI-U for Year 207.342 215.303 214.537 218.056
Actual CPI-U Inflation % 105.17% 101.28% 101.64% 100.00%

Acct. Description	2007	2008	2009	2010	4-Year Average
	\$	\$	\$	\$	\$
TOTAL OPERATING REVENUE	2,500,836	2,531,761	2,398,482	2,501,295	2,483,094
SUMMARY:					
Purchased Water	554,775	567,288	661,236	616,842	611,726
Local O&M Expense	873,034	894,866	949,675	966,992	939,173
403.0 Depreciation Expense	329,481	386,724	398,789	405,748	387,313
408.0 Taxes - Tax Equiv. Pymt.	279,242	286,453	300,073	312,762	300,386
408.0 Taxes - FICA	14,887	15,490	16,385	17,433	16,358
408.0 Taxes - PSC Remainder Asmnt	2,333	2,594	2,171	2,276	2,391
TOTAL OPERATING EXPENSE	2,053,752	2,153,415	2,328,329	2,322,053	2,257,346
NET OPERATING INCOME	<u>447,084</u>	<u>378,346</u>	<u>70,153</u>	<u>179,242</u>	<u>225,748</u>

Conveyance System Net Investment	Use 12/31/2010				12/31/2010
Trans. & Distr. Water Main (Utility Financed)	8,898,298	8,898,298	8,898,298	8,898,298	8,898,298
Accum. Depr. Trans. & Distr. Water Main	638,433	638,433	638,433	638,433	638,433
Conveyance System Net Investment (Utility Financed)	8,259,865	8,259,865	8,259,865	8,259,865	8,259,865
Trans. & Distr. Water Main (Contributed)					3,258,312
Accum. Depr. Trans. & Distr. Water Main					1,165,315
Conveyance System Net Investment (Contributed)					2,092,997
Total Conveyance System Net Investment					10,352,862
Water Main Net Book Cost Oversizing w/ 8" base	14.57%	1,508,437	Shrwd %	22.18%	334,503
Elevated Storage - Allocated to Shorewood	Adj. 12/31/2011	157,092	Shrwd %	22.18%	34,836
Total Capitalized Cost for Main Oversizing & Elevated Storage Allocated to Shorewood					369,339
GLENDALE percentage of Total					42.29%

Glendale Water Sales	650,748	664,460	599,115	611,713	631,509
Shorewood Water Conveyance	188,555	182,272	202,941	170,882	186,162

WHITEFISH BAY HISTORICAL INCOME STATEMENTS

Average CPI-U for Year 207.342 215.303 214.537 218.056
Actual CPI-U Inflation % 105.17% 101.28% 101.64% 100.00%

Acct. Description	2007	2008	2009	2010	4-Year Average
	\$	\$	\$	\$	\$
TOTAL OPERATING REVENUE	1,214,130	1,331,626	1,320,602	1,448,817	1,328,794
SUMMARY:					
Purchased Water	416,713	444,076	424,205	439,399	439,640
Local O&M Expense	344,787	421,870	383,092	462,557	410,449
403.0 Depreciation Expense	239,395	266,675	287,102	315,284	282,236
408.0 Taxes - Tax Equiv. Pymt.	91,926	96,323	119,164	148,813	116,040
408.0 Taxes - FICA	13,350	16,300	17,809	18,450	16,775
408.0 Taxes - PSC Remainder Asmnt	1,752	1,059	1,366	1,313	1,404
TOTAL OPERATING EXPENSE	1,107,923	1,246,303	1,232,738	1,385,816	1,266,545
NET OPERATING INCOME	<u>106,207</u>	<u>85,323</u>	<u>87,864</u>	<u>63,001</u>	<u>62,249</u>

Conveyance System Net Investment	Use 12/31/2010				12/31/2010
Trans. & Distr. Water Main (Utility Financed)	5,020,148	5,020,148	5,020,148	5,020,148	5,020,148
Accum. Depr. Trans. & Distr. Water Main	26,223	26,223	26,223	26,223	26,223
Conveyance System Net Investment (Utility Financed)	4,993,925	4,993,925	4,993,925	4,993,925	4,993,925
Trans. & Distr. Water Main (Contributed)					419,785
Accum. Depr. Trans. & Distr. Water Main					155,099
Conveyance System Net Investment (Contributed)					264,686
Total Conveyance System Net Investment					5,258,611
Water Main Net Book Cost Oversizing w/ 8" base	7.42%	390,229	Shrwd %	22.18%	86,535
Elevated Storage - Allocated to Shorewood	Adj. 12/31/2011	216,654	Shrwd %	22.18%	48,044
Total Capitalized Cost for Main Oversizing & Elevated Storage Allocated to Shorewood					134,579
WHITEFISH BAY percentage of Total					21.08%

Whitefish Bay Water Sales	384,048	403,472	399,080	370,181	389,195
Shorewood Water Conveyance	188,555	182,272	202,941	170,882	186,162

FOX POINT HISTORICAL INCOME STATEMENTS

Average CPI-U for Year 207.342 215.303 214.537 218.056
Actual CPI-U Inflation % 105.17% 101.28% 101.64% 100.00%

Acct. Description	2007	2008	2009	2010	4-Year Average
	\$	\$	\$	\$	\$
TOTAL OPERATING REVENUE	1,190,656	1,243,000	1,225,563	1,293,172	1,238,098
<u>SUMMARY:</u>					
Purchased Water	201,155	220,199	212,024	203,944	213,502
Local O&M Expense	355,542	316,626	332,444	298,554	332,759
403.0 Depreciation Expense	243,529	260,852	283,830	285,833	273,654
407.0 Amortization Expense				25,532	6,383
408.0 Taxes - Tax Equiv. Pymt.	102,798	101,321	116,847	126,612	114,025
408.0 Taxes - FICA	10,852	10,060	10,316	9,605	10,423
408.0 Taxes - PSC Remainder Asmnt	787	2,471	1,745	1,495	1,650
TOTAL OPERATING EXPENSE	914,663	911,529	957,206	951,575	952,397
NET OPERATING INCOME	<u>275,993</u>	<u>331,471</u>	<u>268,357</u>	<u>341,597</u>	<u>285,701</u>

Conveyance System Net Investment	Use 12/31/2010				12/31/2010
Trans. & Distr. Water Main (Utility Financed)	4,382,587	4,382,587	4,382,587	4,382,587	4,382,587
Accum. Depr. Trans. & Distr. Water Main	45,586	45,586	45,586	45,586	45,586
Conveyance System Net Investment (Utility Financed)	4,337,001	4,337,001	4,337,001	4,337,001	4,337,001
Trans. & Distr. Water Main (Contributed)					1,228,110
Accum. Depr. Trans. & Distr. Water Main					464,018
Conveyance System Net Investment (Contributed)					764,092
Total Conveyance System Net Investment					5,101,093
Water Main Net Book Cost Oversizing w/ 8" base	13.71%	699,524	Shrwd %	22.18%	155,123
Elevated Storage - Allocated to Shorewood	12/31/2011	105,334	Shrwd %	22.18%	23,358
Total Capitalized Cost for Main Oversizing & Elevated Storage Allocated to Shorewood					178,481
FOX POINT percentage of Total					26.15%

Fox Point Water Sales	243,511	243,226	222,891	207,065	229,173
Mequon Water Sales	59,136	61,135	55,232	51,653	56,789

COMBINED - TRANSMISSION & DISTRIBUTION MAINS

Calculation of Capacity-Feet of Water Main as of: 12-31-2010								
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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Size (inches)	Feet of Watermain		Total Feet of Main	Capacity-Ft. of Main	Remove 8.0 Inch Equiv. of Main	Net Capacity-Ft. of Main	Remove 10.0 Inch Equiv. of Main	Net Capacity-Ft. of Main
	Within Municipality	Outside Municipality			[(1) /2]^2 x (4)	(5) - (6)	(5) - (6)	
2	322	-	322	322	322	-	322	-
3	370	-	370	833	833	-	833	-
4	5,184	-	5,184	20,736	20,736	-	20,736	-
6	385,162	16,195	401,357	3,612,213	3,612,213	-	3,612,213	-
8	316,295	-	316,295	5,060,720	5,060,720	-	5,060,720	-
10	20,325	-	20,325	508,125	325,200	182,925	508,125	-
12	120,196	-	120,196	4,327,056	1,923,136	2,403,920	3,004,900	1,322,156
16	34,648	-	34,648	2,217,472	554,368	1,663,104	866,200	1,351,272
20	10,408	-	10,408	1,040,800	166,528	874,272	260,200	780,600
24	70	-	70	10,080	1,120	8,960	1,750	8,330
Total	892,980	16,195	909,175	16,798,357	11,665,176	5,133,181	13,335,999	3,462,358

Total Capacity-Feet @ 8 in. equiv. 11,665,176
 Total Capacity-Feet @ 10 in. equiv. 13,335,999

% Oversizing w/ 8" base (1) 30.6%
 % Oversizing w/ 10" base (2) 20.6%
 % Oversizing w/ avg. of 8" & 10" (3) 25.6%
 Select Option Number 1

Est. Oversizing Capacity - Percent	30.56%
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Size (inches)	Feet of Watermain		Total Feet of Main	Inch-Ft. of Main	Remove 8.000 Inch Equiv. of Main	Net Inch-Ft. of Main	Remove 10.000 Inch Equiv. of Main	Net Inch-Ft. of Main
	Within Municipality	Outside Municipality			(1) x (4)	(5) - (6)	(5) - (6)	
2	322	-	322	644	644	-	644	-
3	370	-	370	1,110	1,110	-	1,110	-
4	5,184	-	5,184	20,736	20,736	-	20,736	-
6	385,162	16,195	401,357	2,408,142	2,408,142	-	2,408,142	-
8	316,295	-	316,295	2,530,360	2,530,360	-	2,530,360	-
10	20,325	-	20,325	203,250	162,600	40,650	203,250	-
12	120,196	-	120,196	1,442,352	961,568	480,784	1,201,960	240,392
16	34,648	-	34,648	554,368	277,184	277,184	346,480	207,888
20	10,408	-	10,408	208,160	83,264	124,896	104,080	104,080
24	70	-	70	1,680	560	1,120	700	980
Total	892,980	16,195	909,175	7,370,802	6,446,168	924,634	6,817,462	553,340

Total Inch-Feet @ 8 in. equiv. 6,446,168
 Total Inch-Feet @ 10 in. equiv. 6,817,462

% Oversizing w/ 8" base (1) 12.5%
 % Oversizing w/ 10" base (2) 7.5%
 % Oversizing w/ avg. of 8" & 10" (3) 10.0%
 Select Option Number 1

Est. Cost of Oversizing in Percent	12.54%
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WHITEFISH BAY - TRANSMISSION & DISTRIBUTION MAINS

Calculation of Capacity-Feet of Water Main as of: 12-31-2010

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Size (inches)	Feet of Watermain		Total Feet of Main	Capacity-Ft. of Main	Remove 8.0 Inch Equiv. of Main	Net Capacity-Ft. of Main	Remove 10.0 Inch Equiv. of Main	Net Capacity-Ft. of Main
	Within Municipality	Outside Municipality		[(1) /2]^2 x (4)		(5) - (6)		(5) - (6)
4	51		51	204	204	-	204	-
6	126,055		126,055	1,134,495	1,134,495	-	1,134,495	-
8	93,567		93,567	1,497,072	1,497,072	-	1,497,072	-
12	18,566		18,566	668,376	297,056	371,320	464,150	204,226
16	7,920		7,920	506,880	126,720	380,160	198,000	308,880
Total	246,159	-	246,159	3,807,027	3,055,547	751,480	3,293,921	513,106

Total Capacity-Feet @ 8 in. equiv. 3,055,547

Total Capacity-Feet @ 10 in. equiv. 3,293,921

% Oversizing w/ 8" base (1) 19.7%

% Oversizing w/ 10" base (2) 13.5%

% Oversizing w/ avg. of 8" & 10" (3) 16.6%

Select Option Number 1

Est. Oversizing Capacity - Percent 19.74%

Size (inches)	Feet of Watermain		Total Feet of Main	Inch-Ft. of Main	Remove 8.0 Inch Equiv. of Main	Net Inch-Ft. of Main	Remove 10.0 Inch Equiv. of Main	Net Inch-Ft. of Main
	Within Municipality	Outside Municipality		(1) x (4)		(5) - (6)		(5) - (6)
4	51	-	51	204	204	-	204	-
6	126,055	-	126,055	756,330	756,330	-	756,330	-
8	93,567	-	93,567	748,536	748,536	-	748,536	-
12	18,566	-	18,566	222,792	148,528	74,264	185,660	37,132
16	7,920	-	7,920	126,720	63,360	63,360	79,200	47,520
Total	246,159	-	246,159	1,854,582	1,716,958	137,624	1,769,930	84,652

Total Inch-Feet @ 8 in. equiv. 1,716,958

Total Inch-Feet @ 10 in. equiv. 1,769,930

% Oversizing w/ 8" base (1) 7.4%

% Oversizing w/ 10" base (2) 4.6%

% Oversizing w/ avg. of 8" & 10" (3) 6.0%

Select Option Number 1

Est. Cost of Oversizing in Percent 7.42%

NORTH SHORE WATER COMMISSION
 WHOLESALE WATER SALES
 FOR YEAR: 2011

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

FACILITIES CHARGE
 FOR 2010 FACILITIES UPKEEP

MONTH	CUSTOMER	KGAL PURCHASED	WHOLESALE RATE (\$/KGAL)	TOTAL VOLUME CHARGE	CAPITAL \$/Kgal \$0.720 / Kgal \$0.741 / Kgal	OPERATING \$ \$0.891 / Kgal \$0.907 / Kgal	CONVEYANCE \$0.390 / Kgal	DISTRIBUTION OF CONVEYANCE CHARGE			\$500 / yr	NSWC REVENUE	AMOUNT BILLED
								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	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	4,251	\$ 2.038	\$ 8,663.54	\$ 3,149.99	\$ 3,855.66	\$ 1,657.89	\$ 994.73	\$ 331.58	\$ 331.58	\$ -	\$ 7,005.65	\$ 8,663.54
JUNE	Mequon Water	4,821	\$ 2.038	\$ 9,825.20	\$ 3,572.36	\$ 4,372.65	\$ 1,880.19	\$ 1,128.11	\$ 376.04	\$ 376.04	\$ -	\$ 7,945.01	\$ 9,825.20
JULY	Mequon Water	6,416	\$ 2.038	\$ 13,075.81	\$ 4,754.26	\$ 5,819.31	\$ 2,502.24	\$ 1,501.34	\$ 500.45	\$ 500.45	\$ -	\$ 10,573.57	\$ 13,075.81
AUGUST	Mequon Water	5,146	\$ 2.038	\$ 10,487.55	\$ 3,813.19	\$ 4,667.42	\$ 2,006.94	\$ 1,204.16	\$ 401.39	\$ 401.39	\$ -	\$ 8,480.61	\$ 10,487.55
SEPTEMBER	Mequon Water		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
OCTOBER	Mequon Water		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
NOVEMBER	Mequon Water		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
DECEMBER	Mequon Water		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTALS		35,819		\$ 72,574.77	\$ 26,301.04	\$ 32,304.33	\$ 13,969.41	\$ 8,381.63	\$ 2,793.89	\$ 2,793.89	\$ 500.00	\$ 59,105.37	\$ 73,074.78

North Shore Water Commission
Extended Monthly Report (Page 2) **August 2011**
Flows Uncorrected for Distribution Activity

Date	High Service PSI (Gauge #1)			High Service PSI (Gauge #2)			WFB Tower PSI			Glen Standpipe PSI			FPT Standpipe PSI			WFB Standpipe Level (ft)			Glen Standpipe Level (ft)			FPT Tower Level (ft)			Monthly Pumpage RANK	Sum Master Meters (MGD)			WFB Flow (MGD)			Glen Flow (MGD)			FPT Flow (MGD)		
	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min		Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min
8/1/2011	84.19	82.14	78.63	84.56	82.62	79.30	67.70	65.57	62.14	56.01	46.63	35.43	56.06	53.79	51.21	32.03	27.17	21.28	75.56	62.62	45.99	22.53	21.09	19.23	8	8.27	5.49	2.98	3.14	1.70	0.58	3.12	2.32	1.47	2.47	1.47	0.75
8/2/2011	85.37	82.11	78.58	85.87	82.59	78.90	69.93	65.87	62.57	56.32	47.52	35.20	57.84	54.22	50.67	32.05	26.83	20.83	77.29	65.43	48.18	22.53	20.71	18.97	26	7.92	4.61	2.38	2.77	1.35	0.37	3.04	2.02	1.08	2.28	1.23	0.65
8/3/2011	85.22	82.29	80.05	85.70	82.77	80.32	69.29	66.13	63.35	55.46	47.63	35.43	57.26	54.21	51.25	32.03	25.74	19.01	79.41	66.89	50.45	22.53	20.73	18.79	20	8.13	4.80	2.81	2.89	1.35	0.46	3.02	2.09	1.34	2.35	1.36	0.79
8/4/2011	86.09	82.23	79.76	86.63	82.71	80.44	70.35	65.88	62.40	55.45	47.90	35.35	58.32	54.23	51.69	32.12	24.99	18.23	78.45	66.79	50.37	22.54	20.65	18.82	22	7.97	4.73	2.83	2.85	1.39	0.51	2.95	2.06	1.34	2.27	1.29	0.74
8/5/2011	84.12	82.24	78.82	84.43	82.70	80.21	68.17	65.73	61.80	55.50	47.95	34.99	56.19	54.03	51.08	31.80	24.50	17.76	78.91	66.48	49.07	22.53	20.50	18.57	13	8.38	5.10	2.79	3.07	1.53	0.46	3.06	2.14	1.34	2.50	1.43	0.83
8/6/2011	84.10	82.17	79.16	84.39	82.63	79.63	68.01	65.54	61.00	55.40	48.98	35.34	56.60	54.07	51.17	32.14	25.82	20.09	77.84	61.99	42.95	22.53	20.70	18.72	17	7.91	4.94	2.74	2.85	1.57	0.48	2.98	2.01	1.22	2.35	1.36	0.67
8/7/2011	86.35	82.28	79.50	86.79	82.72	80.02	70.87	65.90	61.41	55.15	49.04	35.69	59.24	54.75	51.82	32.17	26.76	21.00	78.09	62.68	46.75	22.54	22.32	20.70	29	7.61	4.09	2.12	2.74	1.26	0.44	2.81	1.69	0.91	2.21	1.14	0.53
8/8/2011	84.55	82.17	79.64	85.07	82.61	79.96	69.18	66.05	62.69	55.94	49.05	35.11	56.34	54.52	51.63	32.05	26.23	20.22	77.86	64.13	51.76	22.36	21.03	18.67	28	7.58	4.09	2.42	2.79	1.19	0.39	2.81	1.80	1.18	2.21	1.09	0.60
8/9/2011	84.05	82.04	79.64	84.35	82.47	79.79	68.46	65.70	61.52	56.76	49.38	35.66	56.33	54.18	51.69	32.00	26.14	20.14	77.87	64.72	51.01	22.53	20.50	18.53	27	7.71	4.26	2.41	2.80	1.29	0.36	2.79	1.83	1.22	2.29	1.14	0.57
8/10/2011	86.40	82.31	79.76	86.73	82.72	80.25	70.20	65.74	62.25	55.70	49.33	35.62	58.38	54.15	51.40	32.12	26.26	19.88	77.76	63.38	47.80	22.54	20.51	18.44	25	8.37	4.66	2.94	3.02	1.40	0.54	3.01	1.98	1.40	2.43	1.28	0.72
8/11/2011	85.30	82.40	76.62	85.57	82.80	77.18	69.18	65.95	60.58	55.70	49.16	34.91	57.65	54.29	49.14	32.01	25.35	17.88	77.91	61.42	44.19	22.54	20.49	18.29	19	8.11	4.87	2.70	2.97	1.54	0.47	2.96	2.07	1.34	2.35	1.26	0.76
8/12/2011	85.15	82.43	78.58	85.34	82.82	79.10	68.34	65.55	61.86	55.87	48.77	34.69	57.30	54.27	51.05	32.09	25.50	19.30	77.62	61.51	47.13	22.54	20.52	18.48	16	8.74	4.99	2.30	3.24	1.55	0.33	3.21	2.13	1.14	2.57	1.31	0.65
8/13/2011	84.24	81.81	77.17	84.52	82.21	77.54	67.46	65.40	59.78	55.08	48.84	35.67	57.22	54.13	49.70	32.00	26.76	21.64	77.79	66.32	54.25	22.53	20.82	18.93	31	7.11	4.00	2.16	2.62	1.26	0.41	2.69	1.71	1.08	2.00	1.04	0.54
8/14/2011	83.83	81.65	78.46	83.97	82.04	78.64	67.95	65.66	61.14	55.80	49.33	35.54	56.47	53.98	50.35	31.98	26.62	20.44	78.04	64.88	48.85	22.53	20.68	18.66	30	6.70	4.09	2.40	2.59	1.23	0.60	2.53	1.75	0.89	1.88	1.11	0.55
8/15/2011	84.07	81.86	77.46	84.38	82.25	77.92	67.66	65.58	61.01	56.03	48.78	35.99	56.99	53.69	50.21	32.01	25.78	19.55	77.16	61.85	45.70	22.52	20.60	18.91	23	7.77	4.73	2.98	2.86	1.44	0.61	2.85	1.98	1.34	2.24	1.32	0.77
8/16/2011	84.67	82.05	79.45	85.17	82.43	79.89	68.91	65.66	62.15	56.61	48.78	36.03	57.12	54.14	51.19	32.07	25.64	19.28	77.51	60.99	44.56	22.54	20.75	18.94	21	7.51	4.76	2.71	2.79	1.49	0.53	2.86	2.04	1.28	2.09	1.23	0.80
8/17/2011	84.96	82.07	78.68	85.07	82.44	79.32	69.03	65.57	61.97	55.89	48.56	34.75	57.05	53.91	51.07	31.97	25.14	18.74	76.28	59.15	41.25	22.53	20.61	18.67	14	7.86	5.11	3.15	3.04	1.54	0.39	3.25	2.20	1.56	2.24	1.37	0.65
8/18/2011	85.46	82.22	78.90	85.67	82.60	79.53	69.34	65.66	62.31	55.90	48.26	34.38	56.67	53.95	51.13	32.08	25.27	18.62	74.07	55.40	36.22	22.53	20.42	18.22	10	7.95	5.36	3.58	2.77	1.57	0.50	3.37	2.36	1.63	2.17	1.44	0.70
8/19/2011	85.06	82.37	78.39	85.36	82.76	79.35	68.95	65.69	62.48	56.08	48.05	34.84	55.96	53.86	51.12	32.12	24.91	18.18	71.25	52.16	34.64	22.53	20.45	18.62	6	8.77	5.59	3.02	3.02	1.66	0.30	3.59	2.44	1.46	2.55	1.49	0.76
8/20/2011	86.14	82.47	79.21	86.55	82.85	79.63	70.42	65.76	62.14	55.28	47.36	35.22	57.69	53.52	50.40	32.07	26.22	20.16	77.33	62.74	49.36	22.51	20.81	19.03	12	8.75	5.20	2.75	2.70	1.45	0.28	3.51	2.24	1.35	2.90	1.51	0.63
8/21/2011	85.13	82.24	78.68	85.30	82.63	78.96	68.76	65.80	62.41	55.28	48.86	34.25	57.29	53.71	51.83	32.18	25.81	17.88	78.08	62.59	41.61	22.53	20.56	18.10	15	8.35	5.08	2.43	2.98	1.60	0.48	3.14	2.10	1.05	2.37	1.38	0.66
8/22/2011	85.54	82.59	79.45	85.68	82.99	80.17	69.57	65.88	62.57	55.34	48.54	35.06	56.85	54.02	51.41	32.06	25.28	18.48	76.60	58.17	39.55	22.54	20.40	18.14	11	8.41	5.30	3.00	3.15	1.56	0.28	3.23	2.27	1.46	2.59	1.47	0.81
8/23/2011	86.54	82.57	79.02	86.87	82.96	79.85	70.90	65.91	62.59	56.08	48.49	34.75	58.14	54.29	52.00	32.06	25.44	19.07	75.83	60.29	46.60	22.54	20.59	18.63	24	8.20	4.68	2.67	2.76	1.37	0.37	3.31	2.10	1.35	2.37	1.21	0.55
8/24/2011	85.18	82.47	77.53	85.34	82.87	78.10	69.20	65.95	61.82	55.94	48.76	32.90	56.79	53.90	50.98	32.01	24.27	16.06	77.81	56.01	31.12	22.54	20.24	17.69	5	8.84	5.62	3.37	2.99	1.75	0.67	3.39	2.37	1.57	2.70	1.51	0.86
8/25/2011	85.13	82.38	75.01	85.54	82.80	75.96	69.11	65.70	62.45	55.74	47.85	33.19	57.20	53.74	45.85	31.13	22.67	15.08	69.03	45.89	23.03	22.54	19.77	17.42	9	8.44	5.46	2.23	3.01	1.64	0.44	3.62	2.34	1.40	2.45	1.48	-1.10
8/26/2011	85.01	82.50	79.09	85.37	82.93	79.61	68.23	65.48	61.53	56.17	46.32	32.92	56.94	53.85	50.96	31.03	23.90	17.27	68.12	49.21	30.41	22.54	20.12	17.85	3	9.42	5.82	3.07	3.29	1.75	0.50	3.86	2.47	1.43	2.63	1.60	0.89
8/27/2011	84.19	82.28	77.89	84.47	82.74	78.40	68.06	65.54	62.03	55.48	46.41	34.83	56.35	53.76	51.18	32.01	25.11	18.52	74.46	56.79	41.02	22.53	20.17	17.74	1	7.93	5.94	3.10	3.05	1.88	0.41	3.30	2.45	1.56	2.39	1.60	0.79
8/28/2011	85.10	82.27	79.30	85.30	82.71	79.79	68.57	65.83	62.88	55.11	47.80	34.68	57.36	53.68	51.58	32.06	24.74	16.54	78.02	61.12	41.46	22.54	20.07	17.36	4	8.24	5.62	3.21	2.92	1.78	0.64	3.01	2.25	1.36	2.44	1.59	0.82
8/29/2011	85.61	82.57	79.18	85.97	82.98	79.51	68.93	65.68	61.69	55.55	47.88	34.11	56.80	53.79	51.00	32.11	25.32	18.04	77.17	56.10	34.60	22.53	20.17	17.85	2	8.47	5.90	3.75	3.81	1.84	0.58	3.26	2.42	1.68	2.58	1.63	0.79
8/30/2011	85.34	82.64	79.66	85.80	83.05	80.02	69.73	65.89	62.21	56.95	46.12	35.13	57.39	54.17	51.30	32.09	26.83	20.14	74.29	61.33	46.95	22.54	20.71	18.95	7	8.81	5.45	1.93	3.06	1.55	0.14	3.67	2.44	0.94	2.49	1.46	0.71
8/31/2011	85.44	82.31	79.23	85.88	82.71	79.72	69.99	66.07	63.22	55.99	47.88	35.06	57.80	54.18	51.17	32.01	26.72	19.25	77.94	65.14	47.26	22.54	20.78	18.85	18	7.78	4.91	2.76	3.02	1.44	0.28	3.19	2.13	1.32	2.35	1.34	0.60
MAX	86.54	82.64	80.05	86.87	83.05	80.44	70.90	66.13	63.35	56.95	49.38	36.03	59.24	54.75	52.00	32.18	27.17	21.64	79.41	66.89	54.25</																