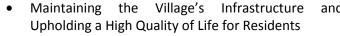
Public Works Department – Water/Sewer Utilities Operating Division

Service Area Description

The Water and Sewer Utilities Division of the Public Works Department is responsible for the management, maintenance, and distribution of the Village's water and sanitary sewer system. This includes one wastewater treatment facility, three water treatment plants and the overall distribution and conveyance system within the Village.

The Water and Sewer Utilities Division of the Public Works Department supports the Village of Algonquin's Mission by:







Maintaining the Public's Health, Safety, and Welfare Through a Well Trained and Dedicated Staff

• Promoting Programs with a Conservation Focus



The Water/Sewer Utilities Operating Division maintains over 2,100 hydrants in the Village.

Personnel Summary

Three (3) seasonal personnel are proposed for FY 11/12. The Environmental Compliance Coordinator position and a Maintenance Worker I position will not be filled this fiscal year.

Personnel Schedule	FY 07/08	FY 08/09	FY 09/10	FY 10/11	FY 11/12	Change
Utilities Superintendent ¹	1.0	1.0	1.0	1.0	1.0	-
Chief Wastewater Operator	1.0	1.0	1.0	1.0	1.0	ı
Chief Water Operator	1.0	1.0	1.0	1.0	1.0	ı
Wastewater Operator	2.0	2.0	2.0	2.0	2.0	1
Water Operator	3.0	3.0	3.0	3.0	3.0	1
Environmental Compliance Coordinator	1.0	1.0	1.0	1.0	-	▼ 1.0
Utilities Supervisor ¹	1.0	1.0	1.0	1.0	1.0	-
Lab Technician ¹	1.0	1.0	1.0	1.0	1.0	-
Maintenance Worker II ¹	2.0	2.0	2.0	2.0	2.0	-
Maintenance Worker I ²	9.0	9.0	9.0	9.0	8.0	▼ 1.0
Seasonal	1.25	1.25	1.25	-	0.75	▲ 0.75
Total Full-Time Equivalent Positions	23.25	23.25	23.25	22.00	20.75	▼1.25
Full-Time Employees	22	22	22	22	20	₹2
Part-Time Employees	5	5	5	0	3	▲ 3

^{1 –} Position is funded between 50% Water Division, 50% Sewer Division.

^{2 –} Position breakdown includes 7.0 FTEs funded 50% Water Division, 50% Sewer Division, 1.0 FTE funded 100% Water Division, and 1.0 FTE funded 100% Sewer Division.

FY 10/11 Accomplishments

The following list provides a status update for departmental objectives outlined in the FY 10/11 budget document and other tasks completed during the fiscal year. The status list is current as of the date this document was published.

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Complete

- Staff rebuilt approximately 200 fire hydrants in conjunction with a manufacturer's recall.
- Site improvements to the WWTF, including site grading, sidewalks, and landscape beds.
- Analytical testing and re-development of the local limits for the Pretreatment Program.
- Hosted the Fox Valley Operators Association 4th annual mini-conference at Public Works.
- Utilities Supervisor completed management program, Illinois Public Service Institute
- Reduced the annual sanitary sewer flushing program by one year
- Initial steps for fire hydrant painting program. First year of program to begin in 2011.
- Rehabilitation of four primary clarifiers at the WWTF.
- Received Fluoridation award from Illinois Department of Public Health.
- WWTF hosted national workshop with USEPA on Nutrient Removal.
- WWTF hosted site tour for delegation of 40 Chinese business people, part of WEFTEC'10.



Near Completion

- Replacement of worn digester gas safety components.
- Inventory water meters and backflow prevention devices on Village owned sites.
- Pilot study to determine beneficial use of a fermentation tank on the enhanced biological removal process.
- Sanitary sewer backup response procedure.



Not Complete

- Provide preventative maintenance on Well #8.
- Provide preventative maintenance on Well #9.
- Development of system for the evaluation of water main to predict long range planning/budgeting.
- Development of GIS layer depicting high risk businesses and associated spill response plans.
- Development of water meter replacement program.

FY 11/12 Objectives

Guiding Principle #1: Maintain and/or Enhance Customer Service and Citizen Satisfaction

• Miles of sanitary sewer flushed annually. Target – 5 year flushing cycle; approximately 150,000 linear feet of sewer to be flushed annually to reduce risk of backup.

<u>Guiding Principle #3:</u> Evaluate, Plan for, and Implement Important Capital Improvement Projects in Order to Maintain the Village's Infrastructure and Uphold a High Quality of Life for Residents

Miles of sanitary sewer televised annually. Target – 5 year televising cycle; approximately 200,000 linear feet to be televised annually to evaluate infrastructure to maintain aging system, determine necessary repairs, illegal connection points, and long range budgeting.

Guiding Principle #4: Assess All Viable Options to Increase/Maintain the Village's Revenue Base

- Operational costs associated with wastewater treatment. Target reduce electrical costs for treatment through operational changes, conservation, and items identified on the energy audit conducted in 2010; upgraded lighting fixtures.
- Operational costs associated with chemical consumption with wastewater treatment. Target reduce chemical costs by operation changes and conservation; 5% reduction.

<u>Guiding Principle #5:</u> Continue to Allocate the Necessary Resources for the Maintenance of the Public's Health, Safety, and Welfare Through a Well Trained and Dedicated Staff

• **Staff training.** Target – 100 hours per person annually. Focused on topics related to job performance, customer service, and safety. Training is outside of prescribed safety program.

Guiding Principle #6: Continue to Promote and Develop Programs with a Conservation Focus

• Water leak detection. Target – continue to conduct an annual water leak audit. Water losses will be accounted and a cost benefits analysis prepared for comparison from year to year.

Performance Measures

The FY 11/12 budget document features performance measures related to the Village's Guiding Principles to assist linking budgetary decisions to the intended outcomes determined by the Village Board. Output, efficiency, and outcome measures are used to provide a tangible link from Village services and strategies to the Guiding Principles. Aggressive targets are set during the budget process not to determine success or failure, but to continuously improve service delivery and provide core services in the most cost-effective manner possible. Additional measures and strategies will be featured in subsequent budgets.

Guiding Principle #5: Continue to Allocate the Necessary Resources for the Maintenance of the Public's Health, Safety, and Welfare Through a Well Trained and Dedicated Staff									
Donartment Objective	Ctratagy/Magazura	2008	2009	20	10	2011			
Department Objective	Strategy/Measure	Actual	Actual	Target	Actual	Target			
Provide our community a	Volume of water produced (million gallons) ¹	1123.06	1145.86	N/A	1007.47	TBD			
safe and reliable supply of water.	Volume of wastewater treated (million gallons) ¹	1361.75	1294.27	N/A	1099.40	TBD			
Notes: 1 – Values are for Fiscal Year E	inding.	1							

Guiding Principle #6: Continue to Promote and Develop Programs with a Conservation Focus										
Department Objective	Stratagy/Magazina	2008	2009	20	2011					
Department Objective	Strategy/Measure	Actual	Actual	Target	Actual	Target				
Protect and manage groundwater supplies.	Daily water consumption per capita (gallons) ¹	102	117	N/A	92	TBD				
Notes: 1 – Values are for Fiscal Year E	inding.									

Water and Sewer Operating Fund

Revenues

			FY 07/08 Actual	FY 08/09 Actual	FY 09/10 Actual	FY 10/11 Budget	FY 11/12 Budget	
07000400	33035	Donations-Operating-W&S	\$ 45,467.91	\$ 8,040.00	\$ 37,071.13	\$ 8,000.00	\$ 25,000.00	
07000400	33055	Donations-Capital-W&S	-	833,418.00	-	-	-	
07000400	34100	Rental Income ¹	55,243.63	63,801.51	120,062.16	141,685.00	121,800.00	
07000400	34200	Miscellaneous Billing	-	-	2,362.07	-	-	
07000400	34700	Water Fees	2,323,263.16	2,329,652.22	2,524,350.30	2,955,735.00	2,708,000.00	
07000400	34710	Sewer Fees	2,156,838.68	2,188,343.87	2,399,526.60	2,813,000.00	2,575,000.00	
07000400	34720	Administrative Fees	2,020.19	(704.54)	1,955.85	1,000.00	1,000.00	
07000400	34730	Late Charges	53,128.12	43,465.62	58,367.22	60,000.00	62,000.00	
07000400	34740	Reinstatement Fees	20,108.97	18,067.36	20,350.46	20,000.00	22,000.00	
07000400	34820	Meter Sales	29,900.00	31,425.00	9,050.00	6,000.00	7,500.00	
07000400	35010	Fines/Penalties	3,500.00	2,300.00	712.68	1,500.00	500.00	
07000500	36001	Interest	2,747.02	831.44	316.33	100.00	300.00	
07000500	36020	Interest - Illinois Funds	37.42	11.55	0.28	1,000.00	-	
07000500	36030	Interest - Bond (Restricted)	85,031.28	36,780.06	17,317.23	7,000.00	10,000.00	
07000500	37110	Insurance Claims	258,212.25	308,500.54	-	-	-	
07000500	37900	Other Revenue	4,676.29	920.00	1,162.47	1,000.00	1,000.00	
07000400	37905	Sale of Surplus Property	3,440.80	13,778.21	3,613.10	1,000.00	6,500.00	
Water & Sewe	r Operati	ng Fund Total	\$ 5,043,615.72	\$ 5,878,630.84	\$ 5,196,217.88	\$ 6,017,020.00	\$ 5,540,600.00	
Actual figures have been adjusted, per auditor.								
	- Accounts for rental from wireless service providers for tower rental							

Water and Sewer Operating Fund

Total Expenditures

			FY 07/08	FY 08/09	FY 08/09 FY 09/10		FY 11/12
			Actual	Actual	Actual	Budget	Budget
07700400		Water Division Total	\$ 2,255,992.41	\$ 2,380,366.44	\$ 2,147,277.22	\$ 2,463,587.00	\$ 2,546,550.00
07800400		Sewer Division Total	1,909,554.64	2,237,693.40	2,151,904.43	2,610,942.00	2,572,925.00
07080400	46680	Bond Principal Payment	430,000.00	440,000.00	460,000.00	405,000.00	355,000.00
07080400	46681	Bond Interest Expense	469,594.69	213,940.00	70,547.14	36,000.00	7,100.00
07080400	46682	Bond Fees	802.50	428.00	428.00	3,000.00	3,000.00
07800400	47900	Working Capital	-	-	-	488,491.00	46,025.00
07800500	48012	Transfer to W&S I&C Fund	-	22,930.02	11,519.45	10,000.00	10,000.00
Subtotal			\$ 5,065,944.24	\$ 5,295,357.86	\$ 4,841,676.24	\$ 6,017,020.00	\$ 5,540,600.00
07800400	47785	Depreciation Expense	\$ 2,910,577.00	\$ 3,682,587.00	\$ 3,588,711.00	\$ -	\$ -
Subtotal			\$ 2,910,577.00	\$ 3,682,587.00	\$ 3,588,711.00	\$ -	\$ -
Water and Sew	er Opera	ting Fund Total	\$ 7,976,521.24	\$ 8,977,944.86	\$ 8,430,387.24	\$ 6,017,020.00	\$ 5,540,600.00
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Please note that Fund 08, the Water & Sewer Bond and Interest Fund, was collapsed into this fund beginning in the 2009-2010 fiscal year.

Depreciation Expense, which is an adjustment made by the auditors each year, has been moved from the Sewer Division budget to this summary budget.

Bond Series 2001A was a refinancing of debt issued in 1993 to finance improvements in water/sewer systems. Final debt service payments will occur in FY 11/12.

				FY 07/08		FY 08/09		FY 09/10		FY 10/11		FY 11/12
				Actual		Actual		Actual		Budget		Budget
Personnel												
07700400	41103	IMRF	\$	74,093.12	\$	76,204.34	\$	83,347.51	\$	93,889.00	\$	96,825.00
07700400		FICA		61,598.93		63,612.22		65,000.12		70,403.00		68,000.00
07700400		Unemployment Tax		2,410.90		1,788.54		1,541.81		2,075.00		1,250.00
07700400		Health Insurance		119,050.72		130,344.91		148,802.61		153,725.00		160,485.00
07700400		Salaries		793,810.43		832,651.77		863,932.62		881,010.00		860,655.00
07700400	41140	Overtime		53,878.73		39,131.27	Ļ	28,544.02		28,000.00		28,000.00
Subtotal	_	1	\$	1,104,842.83	\$	1,143,733.05	\$	1,191,168.69	\$	1,229,102.00	\$	1,215,215.00
Contractual Ser							_		_		_	=
07700400		Telephone	\$	6,134.75	\$	5,655.17	\$	6,644.06	\$	7,720.00	\$	7,100.00
07700400 4 07700400 4		Natural Gas		48,439.44		40,363.01		24,013.17		34,500.00		35,800.00
07700400 4		Electric		318,569.05		337,348.88		271,768.61		287,600.00		289,900.00
07700400 4		Alarm Lines		633.00 14,617.51		15 752 92		16,191.19		17,000.00		19,000,00
07700400 4		Bank Processing Fees		276.40		15,752.83 4,411.97				4,000.00		18,000.00
07700400 4		Legal Services Audit Services		2,795.44		4,411.97		9,451.63 4,386.00		4,450.00		4,000.00 4,340.00
07700400 4		Engineering Services		2,793.44		12,534.08		(3,050.00)		5,500.00		89,000.00
07700400		Professional Services		94,204.32		87,116.95		67,503.31		81,320.00		81,500.00
07700400		Insurance		81,574.01		83,696.65		56,717.55		92,000.00		91,875.00
07700400		Publications		661.00		962.94		451.50		900.00		900.00
07700400		Printing & Advertising		8,745.77		7,532.81		4,763.85		5,600.00		5,700.00
07700400		Physical Exams		-		258.75		114.40		400.00		160.00
07700400		Equipment Rental		1,216.42		901.11		1,542.66		1,750.00		8,250.00
Subtotal	12270	Equipment Nemai	\$	577,867.11	\$	600,615.15	\$	460,497.93	\$	542,740.00	\$	636,525.00
Supplies & Mate	erials			0,7,00,111		000,010.10		100,107155	_	3 12,7 10100		000,020.00
07700400		Office Supplies	\$	819.69	\$	368.06	\$	287.38	\$	500.00	\$	500.00
07700400		Materials	İ	6,131.14		5,548.68	Ė	9,357.52		15,400.00		29,100.00
07700400		Postage		23,101.28		28,070.30		24,698.97		29,300.00		30,300.00
07700400		Building Supplies		5.78		79.36		-		-		_
07700400	43320	Tools, Equipment & Supplies		8,587.66		12,059.77		10,628.47		9,600.00		12,350.00
07700400	43332	Office Furniture & Equipment		3,702.30		9,548.78		5,788.39		14,275.00		16,765.00
07700400	43340	Fuel		25,840.46		26,380.37		19,541.42		26,450.00		25,325.00
07700400	43342	Chemicals		149,760.22		194,299.18		179,036.67		189,600.00		199,080.00
07700400	43345	Lab Supplies		6,397.60		7,955.27		7,602.08		7,250.00		7,580.00
07700400	43348	Meters & Meter Supplies		84,773.38		73,187.85		42,703.32		35,000.00		70,000.00
Subtotal		_	\$	309,119.51	\$	357,497.62	\$	299,644.22	\$	327,375.00	\$	391,000.00
Maintenance			ļ.,									
07700400		Booster Station	\$	8,692.74	\$	15,554.24	\$	2,837.59	\$	19,400.00	\$	16,980.00
07700400		Maintenance Storage Facility		12,533.80		5,235.90		7,768.01		9,000.00		9,000.00
07700400		Treatment Facility		26,371.07		40,560.57		12,564.57		15,120.00		8,150.00
07700400		Distribution System		23,960.12		20,740.58		14,001.74		37,450.00		31,750.00
07700400		Wells		41,720.08		2,960.20		1,250.80		124,630.00		61,980.00
07700400		Vehicle Maintenance (S)		25,947.04		23,883.29		26,103.98		20,640.00		28,945.00
07700400		Equipment Maintenance (S)		14,302.65		37,477.31		33,271.53		33,870.00		35,965.00
07700400		Building Services (S)		43,719.60		70,371.74		85,429.57		70,375.00		71,900.00
07700400 4 07700400 4		Grounds Maintenance (S) Office Equipment Maintenance		8,219.42 827.10		703.96		549.83		820.00		500.00
Subtotal	44426	Office Equipment Maintenance	\$	206,293.62	\$	217,487.79	\$	183,777.62	\$	331,305.00	\$	265,170.00
Capital Expendi	itures		ڔ	200,293.02	٠	217,467.79	ڔ	103,777.02	٠	331,303.00	۲	203,170.00
07700400		Vehicles & Equipment	\$		\$	_	\$		\$		\$	24,950.00
07700400		Capital Purchase	7	0.17	,	48,880.00	7	_		21,000.00		- 1,550.00
Subtotal	.5555		\$	0.17	\$	48,880.00	\$	-	\$	21,000.00	\$	24,950.00
Other Charges						.5,500.00	7			,500.00		,550.50
07700400	47740	Travel/Training/Dues	\$	49,934.94	\$	5,526.09	\$	4,503.91	\$	5,765.00	\$	6,915.00
07700400		Uniforms & Safety Items	_	7,934.23	<u> </u>	6,626.74	7	7,684.85	-	6,300.00		6,775.00
Subtotal			\$	57,869.17	\$	12,152.83	\$	12,188.76	\$	12,065.00	\$	13,690.00
Jubiciai					_				_			
Jubiotal												
Water Total			\$	2,255,992.41	\$	2,380,366.44	\$	2,147,277.22	\$	2,463,587.00	\$	2,546,550.00
			\$	2,255,992.41	\$	2,380,366.44	\$	2,147,277.22	\$	2,463,587.00	\$	2,546,550.00

Expenditures

			FY 07/08		FY 08/09		FY 09/10		FY 10/11	FY 11/12	
			Actual		Actual		Actual		Budget		Budget
Personnel									<u> </u>		
07800400 41103	IMRF	\$	64,341.73	\$	71,604.56	\$	77,090.60	\$	92,894.00	\$	87,510.00
07800400 41104	FICA		53,450.74		59,368.60		60,650.64		69,638.00		63,200.00
07800400 41105	Unemployment Tax		2,351.38		1,548.96		1,433.54		1,975.00		1,060.00
07800400 41106	Health Insurance		103,969.27		119,225.08		118,393.96		128,625.00		138,735.00
07800400 41110	Salaries		688,419.58		793,287.32		808,376.77		870,110.00		799,815.00
07800400 41140	Overtime		46,065.13		28,566.58		21,094.16		29,600.00		29,600.00
Subtotal		\$	958,597.83	\$	1,073,601.10	\$	1,087,039.67	\$	1,192,842.00	\$	1,119,920.00
Contractual Services											
07800400 42210	Telephone	\$	10,042.12	\$	9,038.32	\$	9,478.21	\$	9,660.00	\$	9,775.00
07800400 42211	Natural Gas		24,602.62		39,544.75		17,770.17		22,200.00		17,960.00
07800400 42212	Electric		264,397.04		450,155.07		436,558.06		431,150.00		430,200.00
07800400 42225	Bank Processing Fees		14,617.45		15,752.97		16,191.29		17,000.00		18,000.00
07800400 42230	Legal Services		2,048.13		5,568.97		10,390.82		4,000.00		4,000.00
07800400 42231	Audit Services		2,795.43		4,080.00		4,386.00		4,450.00		4,335.00
07800400 42232	Engineering Services		31,776.20		3,026.63		8,390.67		4,000.00		4,000.00
07800400 42234	Professional Services		63,174.40		63,204.68		60,206.83		100,220.00		93,400.00
07800400 42236	Insurance		72,276.04		72,277.23		54,294.90		107,000.00		91,875.00
07800400 42242	Publications		553.57		1,028.07		423.50		500.00		500.00
07800400 42243	Printing & Advertising		4,899.76		2,443.20		1,416.34		2,300.00		1,500.00
07800400 42260	Physical Exams		183.75		681.00		114.35		400.00		160.00
	Sludge Removal		45,918.77		45,118.95		77,106.00		68,500.00		79,540.00
07800400 42270	Equipment Rental		7,379.59		1,536.01	_	1,304.30		2,050.00		1,000.00
Subtotal		\$	544,664.87	\$	713,455.85	\$	698,031.44	\$	773,430.00	\$	756,245.00
Supplies & Materials	000	_	202.22	_	1 0 1 0 7 0		670.04	_	222.22	_	500.00
07800400 43308	Office Supplies	\$	900.39	\$	1,048.79	\$		\$	800.00	\$	500.00
07800400 43309	Materials		10,874.98		2,297.67		7,120.53		12,523.00		14,050.00
07800400 43317	Postage		21,973.57		24,954.86		24,717.36		27,350.00		28,000.00
07800400 43319	Building Supplies		2,091.09		22.97		- 14 425 42		- 14 400 00		
07800400 43320	Tools, Equipment & Supplies		20,702.21		14,158.10		14,425.13		14,400.00		27,470.00
07800400 43332	Office Furniture & Equipment		6,810.91		9,548.78		9,335.39		14,275.00		16,765.00
07800400 43340	Fuel Chemicals		33,648.58		25,639.72 77,036.59		16,178.06		19,660.00		16,455.00
07800400 43342			49,238.05		,		57,369.18		94,100.00		82,100.00
07800400 43345	Lab Supplies		3,235.85		3,737.09		5,470.18		6,650.00		6,650.00
07800400 43348 Subtotal	Meters & Meter Supplies	\$	84,773.28 234,248.91	\$	71,335.64 229,780.21	\$	42,703.31 177,998.38	\$	35,000.00 224,758.00	\$	70,000.00 261,990.00
Maintenance		<u>ې</u>	254,246.91	Ş	229,760.21	Ş	177,990.50	Ş	224,736.00	Ş	201,990.00
	Treatment Facility	\$	32,420.24	\$	46,455.17	\$	41,075.99	\$	106,200.00	\$	101,880.00
07800400 44414	Lift Station Maintenance	7	27,403.16	٧	17,973.95	۲	16,721.87	7	22,450.00	٧	27,500.00
07800400 44414	Collection System Maintenance		14,418.75		3,660.31		1,989.98		15,300.00		15,300.00
07800400 44420	Vehicle Maintenance (S)		30,531.77		22,208.32		31,952.49		43,690.00		34,165.00
07800400 44421	Equipment Maintenance (S)		18,590.46		41,822.30		29,075.51		51,460.00		30,025.00
07800400 44423	Building Services (S)		29,053.19		41,748.32		55,666.77		54,427.00		97,125.00
07800400 44424	Grounds Maintenance (S)		301.45		-		-		-		-
	Office Equipment Maintenance		1,507.01		703.96		738.83		820.00		500.00
Subtotal		\$	154,226.03	\$	174,572.33	\$		\$	294,347.00	\$	306,495.00
Capital Expenditures			,	Ė	,	Ė	,		,		•
07800400 43335	Vehicles & Equipment	\$	-	\$	-	\$	-	\$	-	\$	46,500.00
07800400 45590	Capital Purchase	Ė	-	Ĺ	29,220.00	Ė	-		113,000.00	Ĺ	70,000.00
Subtotal		\$	-	\$	29,220.00	\$	-	\$	113,000.00	\$	116,500.00
Other Charges											
07800400 47740	Travel/Training/Dues	\$	8,635.52	\$	9,252.70	\$	3,807.63	\$	5,665.00	\$	4,800.00
	Uniforms & Safety Items		9,181.48		7,811.21		7,805.87		6,900.00		6,975.00
Subtotal		\$	17,817.00	\$	17,063.91	\$		\$	12,565.00	\$	11,775.00
Sewer Total		\$	1,909,554.64	\$	2,237,693.40	\$	2,151,904.43	\$	2,610,942.00	\$	2,572,925.00
(S) indicates those line it	ems that reimburse the Internal Se	rvic	e Funds. Grou	inds	Maintenance i	s n	ow covered und	ler I	Building Service	es.	



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Village of Algonquin, Illinois