

Water system losses report - February 27, 2012

- District metering will begin with the March 20th read. Sub district metering will likely follow in April.
- Residential meter changes and cross connection inspections are ongoing.
- We are planning to begin replacing large commercial meters this spring and summer. We would have started the replacements already however a majority of the CBCWA members and the City of Appleton are planning meter replacements very soon and the Village should participate in the joint non-obligatory RFQ process. Participation in the process will reduce acquisition costs, standardize meters, and share meter reading systems. New analytical software and management technology allow the instant acquisition of customer consumption information by the hour or by the minute. This has many advantages that allow automatic monitoring and detection of customer leaks, meter inaccuracies, and other types of warnings. Acoustical leak detection can also be implemented. The software will increase meter reading and billing efficiencies that could lead to future billing consolidation with other municipalities.
- Patrick Planton from Short Elliot Hendrickson will be present to report on the Village's water audit report and answer questions that you may have.

<u>Water Service & Water Valve Exercising data</u>	<u>Current period</u>	<u>To date</u>
Curb boxes located	0	5,524
Curb boxes adjustment (completed/needed)	0	1347/1,389
Curb boxes GPS located	0	5051
Curb boxes leak tested	0	5051
Curb Box Leaks found & repaired (Village / Private)	0/0	25/7
Valve / Watermain Leaks found & repaired	0/0	
Valve Exercising (operate 50% of 1535 per year)	0	885

<u>Water meter data</u>	<u>Current period</u>	<u>To date</u>
Residential Meters changed / tested	83	259
Commercial Meters tested	0	10

6 month average unsold water rate trend

2010	<u>Jan</u>	<u>Feb</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug</u>	<u>Sept</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>
						21%	20%	22%	21%	22%	20%	23%
2011	<u>Jan</u>	<u>Feb</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug</u>	<u>Sept</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>
	23%	23%	23%	24%	25%	25%	24%	25%	25%	24%	23%	25%
2012	<u>Jan</u>	<u>Feb</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug</u>	<u>Sept</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>
	26%											

<u>Year</u>	<u>Pumped</u>	<u>Sold</u>	<u>% Sold/Unsold</u>	<u>Not Sold (NS)</u>	<u>NS Acct*</u>	<u>NS UnAcct**</u>	<u>% Unaccounted</u>	<u>Cost of daily unsold water @ \$4.16 thousand</u>
2000	598,898	414,683	69%/31%	184,215	95,500	88,715	18%	\$2,099
2001	640,188	492,275	77%/23%	147,913	101,000	46,913	7%	\$1,685
2002	631,980	474,974	75%/25%	157,006	112,000	45,006	7%	\$1,789
2003	662,678	599,115	90%/10%	63,563	30,500	33,063	5%	\$747
2004	701,227	616,448	88%/12%	84,779	28,000	56,779	8%	\$966
2005	766,323	628,311	82%/18%	138,012	29,800	108,212	14%	\$1,572
2006	732,793	692,154	94%/6%	40,639	23,300	17,339	2%	\$463
2007	731,696	725,217@#99%/1%		6,479	5,700	779	0%	\$74
2008	623,490	557,077	89%/11%	66,413	7,050	59,363	10%	\$760
2009	643,244^	513,143	80%/20%	130,101	7,080	123,021	19%	\$1,482
2010	616,348	490,936	80%/20%	125,412	18,050	107,362	17%	\$1,429

CBCWA water supply began in Sept 2007

@ Monthly billing implemented in Jan 2007 and skewed sales

^ Bold data in 2009 corrected to actual pumpage. 2010 estimated data.

* 2010 – 0.05 M treatment process, 2 M Tank Overflows, 10 M system filling/flushing, 6 M fire fighting & training, 0 M meter errors, 5M detected watermain and service leakage.

** 2010 – 107,362 M unreported/undetected watermain and service leakage, vandalism & theft.

Automatic meter reading was implemented between Jan 2004 and June 2006