

# Water system losses report 8/18/11

- Water service locating and adjusting curb stops is 95% completed. Exercising watermain valves is completed for 2011. Several valve, hydrant, and service leaks were found and repaired this month.
- Leakage testing of water mains crossing under creeks and rivers has begun. No leaks have been found thus far.
- System leakage testing will be a continuous on-going effort; however, a large leakage component has yet to be found.
- Commercial water meter testing (1 ½" and larger) will begin next month to identify any potential large meter inaccuracies.
- Historical billing information for large meters has been obtained and analysis is underway. Data on new and existing high capacity wells and sewer discharge records are being obtained for industrial customers in the Village.
- Data analysis, comparison and unauthorized consumption will be reviewed in the future.
- The unaccounted for water trend remains unchanged for the time being.

Current leakage data and performance information is provided below:

<u>Water Service &amp; Water Valve Exercising data</u>	<u>Current period</u>	<u>To date</u>
Curb boxes located	553	5,509
Curb boxes adjustment (completed/needed)	338	1,227/1,389
Curb boxes GPS located	0	4,925
Curb boxes leak tested	0	4,868
Leaks found (Village / Private)	1/0	24/7
Leaks repaired (Village / Private)	1/0	24/7
Valve Exercising (operate 50% of 1535 per year)	318	885

<u>Water meter data</u>	<u>Current period</u>	<u>To date</u>
Residential Meters change notices sent out	0	197
Residential Meters changed / tested	0	176
Commercial Meters change notices sent out	0	0
Commercial Meters changed / tested	0	0

### 6 month average unsold water rate trend\*\*\*

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
2010						21%	20%	22%	21%	22%	20%	23%
2011	23%	23%	23%	24%	25%	25%	24%					

\*\*\* note this rate can fluctuate up and down, but should slowly trend downward.

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

# 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