

**OFFICE OF THE TOWN
MANAGER**



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Town of Shrewsbury
MASSACHUSETTS 01545-5398

August 7, 2015

To: Board of Selectmen

From: Daniel J. Morgado

Re: Water Rates

Reference is made to my memo to you dated August 5, 2014 (attached).

A year has passed since I last addressed the matter of water rates with the Board. During this year, we have continued to invest in the water system and maintained operations seeking to meet our customers' needs and the various performance standards contained within the Water Management Act regulations. Most significantly, we received last month our modified Water Management Act permit (Permit) which will now trigger a series of compliance actions and associated expenses to meet our obligations under this new permit granting the community an additional regulatory capacity, subject to offset, of 440,000 gallons per day.

In my memo of August 5, 2014, I advised that our current rate structure was not generating sufficient revenue to handle our capital program. This condition continue today and based upon the additional regulatory compliance costs of the Permit and what I see as improvements necessary for the upgrade of treatment facility or to develop an alternate water source, a rate increase is necessary.

The rate increase I propose today will not alone generated the funding I feel that will be necessary in Fiscal Years 2017, 2018 and 2019 to fund capital costs. I am banking on the meter replacement program itself to generate additional revenue since the primary reason behind the meter replacement program was to reduce unaccounted for water. I am hoping that the new meters along with the rate increase will provide the necessary level of funding. I note that if the meter replacements result in significantly higher revenues, then a rate reduction would be in order particularly on the sewer side of the water/sewer utility where revenue continues to be very strong and costs moderated.

The current rate structure has generated the following revenue streams and has resulted in the following cash balances on hand:

Revenue Source	FY 2015 Actual	FY 2014 Actual	FY 2013 Actual	FY 2012 Actual	FY 2011 Actual	FY 2010 Actual
Water Rates	\$3,247,632	\$3,219,038	\$3,025,683	\$2,965,611	\$3,177,472	\$3,102,282
Backflow Inspection Fees	\$49,750	\$42,200	\$26,330	\$16,100	\$1,571	\$0
Connection Fees/Charges	\$201,767	\$297,408	\$296,011	\$235,181	\$303,143	\$291,214
Liens/Penalties & Interest	\$233,891	\$232,552	\$187,743	\$196,614	\$172,555	\$143,522
Total Revenue	\$3,733,040	3,791,138	\$3,535,767	\$3,413,506	\$3,654,741	\$3,537,018
Bal Water Conservation 6/30	\$146,147	\$249,023	\$217,158	\$171,672	\$117,461	\$130,484
Bal Water System Improvements 6/30	\$702,417	\$820,418	\$2,686,023	\$2,771,023	\$3,005,300	\$2,034,160
Total Reserves	\$848,564	\$1,069,441	\$2,903,181	\$2,942,695	\$3,122,761	\$2,164,644

Outstanding debt on the water utility is \$400,313 for the new Masonic Water Tank (three years remaining to be retired in FY 2018) and \$581,700 for Harrington Avenue/Rte 9 (eight years remaining to be retired in FY 2023).

Current Water Department O&M and debt service is running at:

Charge Area	FY 2015 Actual	FY 2014 Actual	FY 2013 Actual	FY 2012 Actual	FY 2011 Actual
Operating Budget*	\$1,790,806	\$1,741,287	\$1,774,027	\$1,729,342	\$1,794,388
Debt Service*	\$222,188	\$228,173	\$174,348	\$152,813	\$156,563
Indirect Costs*	\$471,615	\$465,142	\$436,588	\$423,399	\$362,028
Capital Budget	\$155,000	\$185,000	\$200,000	\$45,000	\$45,000
Warrant Articles	\$2,375,000	\$2,061,000	\$2,468,000	\$2,210,500	\$1,095,000
Total Expenditures	\$5,014,609	\$4,680,602	\$5,052,963	\$4,561,054	\$3,452,979
Available = Revenue Less O&M*	\$1,248,431	\$1,356,536	\$1,150,804	\$1,107,952	\$1,329,165

Our equipment and infrastructure needs over the next few years should be \$1 Million or so for water line work annually with \$500,000 to \$1 Million for one off type projects such as equipment, vehicles, station improvements, engineering studies and design, technology improvements and the like.

A primary question that will need to be studied and decided upon is what the future means to supply the water system is. Currently being finalized is in alternate water source study that must be fully considered before a full commitment is made to install green sand filtration at the treatment plant. It is very possible that the Town gets out of the water supply and distribution business and just become a water distribution enterprise.

Accordingly, we need a rate structure that will generate \$1.5 Million to \$2.0 Million annually above our normal O & M expenses which is not the case so a rate increase must be considered. Also, if we pursue

green sand filtration or pursue an alternate water supply involving interconnection with a source outside of Shrewsbury, a rate increase will be necessary, in addition to fund those costs.

By example, at the last Annual Town Meeting, the following capital investments were authorized:

Art	Project	Amount	Comment
8	Replace ¾ ton pickup	\$52,000	
8	Design services WTP	\$500,000	Project design will wait for alternate water study
8	HVAC work at WTP	\$125,000	
8	Repairs at Home Farm Well	\$450,000	
8	Design garage expansion	\$75,000	50% cost share with Sewer
28	Meter replacement	\$400,000	
29	Compliance activities	\$100,000	
30	Oakland Avenue water main	\$250,000	
31	Poor Farm Brook Habitat	\$5,000	
Total Capital Investment		\$1,957,000	

I note that in addition to ongoing capital needs, operation and maintenance costs will be affected by sharp increases in energy, chemicals and other materials and supplies depending on what happens globally in the way of recession, inflation and/or commodity interruptions and other market distortions.

The recent history of the water rate structure is as follows:

Rate	Range	Effective Billing Dates				
		July 1, 1991	June 1, 2003	Aug 29, 2006	Sept 1, 2008	March 1, 2012
Residential & Condominiums	Minimum (0 to 5,000 Gallons)	\$24.00	\$15.00	\$16.50	\$19.00	
	5,001 to 25,000 Gallons/Thousand	\$1.80	\$2.50	\$2.85	\$3.20	
	25,001 to 50,000 Gallons/Thousand	\$1.80	\$4.50	\$5.20	\$6.00	
	Over 50,000 Gallons/Thousand	\$2.40	\$5.50	\$6.35	\$7.75	
	Minimum (0 to 5,000 Gallons)					\$21.00
	5,001 to 25,000 Gallons/Thousand					\$3.40
	25,001 to 60,000 Gallons/Thousand					\$6.30
	Over 60,000 Gallons/Thousand					\$10.00
Commercial	Minimum (0 to 5,000 Gallons)	\$24.00	\$24.00	\$27.50	\$32.50	\$36.00
	5,001 to 25,000 Gallons/Thousand	\$1.80	\$1.80	\$2.10	\$2.50	\$2.80
	25,001 to 50,000 Gallons/Thousand	\$1.80	\$1.80	\$2.10	\$2.50	\$3.80
	Over 50,000 Gallons/Thousand	\$2.40	\$2.40	\$2.80	\$3.50	\$3.80
Apartments	Flat Rate/Thousand	\$3.00	\$3.00	\$3.45	\$4.00	\$4.25

Rate	Range	Effective Billing Dates				
		July 1, 1991	June 1, 2003	Aug 29, 2006	Sept 1, 2008	March 1, 2012
Residential Lawns	Minimum (0 to 5,000 Gallons)	\$24.00	\$24.00			
	5,001 to 25,000 Gallons/Thousand	\$1.80	\$1.80			
	25,001 to 50,000 Gallons/Thousand	\$1.80	\$1.80			
	Over 50,000 Gallons/Thousand	\$2.40	\$2.40			
Residential Lawns	Minimum			N/A	\$19.00	\$21.00
	0 to 60,000 Gallons/Thousand			\$4.50	\$5.75	\$6.30
	over 60,001 Gallons/Thousand			\$4.75	\$6.00	\$10.00
Residential Summer	Flat Rate/Thousand	\$3.00	\$3.00			
	Minimum			N/A	\$19.00	\$21.00
	0 to 60,000 Gallons/Thousand			\$4.50	\$5.75	\$6.30
	over 60,001 Gallons/Thousand			\$4.75	\$6.00	\$10.00
Apartment Lawns	Flat Rate/Thousand	\$3.00	\$3.00			
	Minimum			N/A	\$19.00	\$21.00
	0 to 60,000 Gallons/Thousand			\$4.50	\$5.75	\$6.30
	over 60,001 Gallons/Thousand			\$4.75	\$6.00	\$10.00
Commercial Lawns	Flat Rate/Thousand	\$3.00	\$3.00			
	Minimum			N/A	\$19.00	\$21.00
	0 to 60,000 Gallons/Thousand			\$4.50	\$5.75	\$6.30
	over 60,001 Gallons/Thousand			\$4.75	\$6.00	\$10.00
Condominium Lawns	Flat Rate/Thousand	\$3.00	\$3.00			
	Minimum			N/A	\$19.00	\$21.00
	0 to 60,000 Gallons/Thousand			\$4.50	\$5.75	\$6.30
	over 60,001 Gallons/Thousand			\$4.75	\$6.00	\$10.00
School & Municipal	Minimum (0 to 5,000 Gallons)	\$24.00	\$24.00	\$24.00	\$24.00	\$36.00
	5,001 to 50,000 Gallons/Thousand	\$1.80	\$1.80	\$1.80	\$1.80	\$2.30
	Over 50,000 Gallons/Thousand	\$2.40	\$2.40	\$2.40	\$2.40	\$3.40
School & Municipal Lawns	Flat Rate/Thousand	\$3.00	\$3.00	\$3.00	\$3.00	\$3.50

The four main revenue streams from the rate structure only in FY 2015 generated:

Rate	# of Bills	Consumption	Value	Cost/Thousand 2015	Cost/Thousand 2014	Cost/Thousand 2012	Change 2015 to 2012
Residential	38,693	560,886,896	\$2,283,580	\$4.07	\$4.02	\$3.75	\$0.32
Commercial	2,028	123,906,408	\$493,314	\$3.98	\$4.08	\$3.62	\$0.36
Condominium	3,182	27,620,985	\$114,287	\$4.14	\$4.18	\$3.79	\$0.35
Apartment	607	104,479,491	\$444,039	\$4.25	\$4.25	\$4.00	\$0.25
Totals	44,510	816,893,780	\$3,335,220	\$4.08	\$4.06	\$3.76	\$0.32

The residential customer is the primary revenue source for the water utility consuming nearly 69% of the water delivered through the meter and paying nearly 69% of the cost. Residential consumption has stabilized after falling greatly from the FY 2004 when the residential rate accounted for 644,306,471 gallons. In FY 2012 the amount that passed through residential meters was 557,693,042. The 560,886,896 gallons sold in the FY 2015 timeframe is an increase of only 0.6%.

In studying the distribution of residential rate bills over FY 2015, I have learned the following:

- The median bill remains quite low at 12,200 gallons per quarter.
- 17% of our residential customers are paying a quarterly bill today at a rate structure that is less than the rate structure in place in 1991. So low water users have been rewarded greatly.
- The median residential rate payer is paying \$32.80 more per year in 2015 than was paid in 1991.
- The average quarterly bill is 14,496 gallons (14,580 gallons in FY 2012). In the past, the average bill was as high as 17,000 gallons.
- The typical residential rate payer remains a predominately low consumption user with 49% of the quarterly bills issued at 12,000 gallons or less. 29% of the water consumed via the residential rate is by less than 11.4% of our residential customers that purchase more than 24,000 gallons per quarter.

Some comparisons to the 2012 rate study:

Rate	# of Bills	FY 2012		FY 2015		
		Consumption	Value	# of Bills	Consumption	Value
Residential	38,183	557,693,042	\$2,087,634	38,693	560,886,896	\$2,283,580
Commercial	1,957	130,380,510	\$471,510	2,028	123,906,408	\$493,314
Condominium	3,018	26,008,572	\$98,683	3,182	27,620,985	\$114,287
Apartment	651	98,757,500	\$395,075	607	104,479,491	\$444,039
	43,809	812,839,624	\$3,052,902	44,510	816,893,780	\$3,335,220

Rate	Projected Increase		Change			
			Consumption		Value	
Residential	\$168,276	8.06%	3,193,854	5.7%	\$195,946	9.3%
Commercial	\$49,340	10.46%	(6,474,102)	(5.0%)	\$21,804	4.6%
Condominium	\$8,901	9.00%	1,612,413	6.2%	\$15,604	15.8%
Apartment	\$24,625	6.24%	5,721,991	5.8%	\$48,964	12.9%
	\$251,142				\$282,318	

The 2012 rate increase was projected to raise \$251,142 based on the consumption modeled at that time. A total of \$282,318 was realized while the amount of water sold increased by 0.5%. We have seen a rebound in commercial water consumption since last year's study (down 5% versus 10%). Bill summaries for each of the rate codes are attached.

If you apply the 2015 consumption amounts using the May 1, 2008 rate, the result is:

Rate	Projected Increase	Actual Increase
Residential	\$168,276	\$169,201
Commercial	\$49,340	\$55,901
Condominium	\$8,901	\$9,200
Apartment	\$24,625	\$26,121
	\$251,142	\$260,423

I have updated my last rate comparison from 2014 as follows:

Community	Annual Water Cost - April 2008 Survey*	Annual Water Cost - August 2012 Survey**	Annual Water Cost - July 2015 Survey***	Change Since 2008	Percent Since 2008
Shrewsbury	\$266	\$300	\$322	\$56	21.1%
Natick	\$221	\$293	\$336	\$115	52.0%
Ashland	\$436	\$398	\$406	(\$30)	-6.9%
Worcester	\$313	\$341	\$425	\$112	35.8%
Douglas	\$371	N/A	\$430	\$59	15.9%
Hudson	\$290	\$298	\$472	\$182	62.8%
Westborough	\$367	\$367	\$503	\$136	37.1%
Grafton	\$461	\$461	\$504	\$43	9.3%
W. Boylston	\$297	\$342	\$528	\$231	77.8%
Holden	\$278	\$414	\$530	\$252	90.6%

Community	Annual Water Cost - April 2008 Survey*	Annual Water Cost - August 2012 Survey**	Annual Water Cost - July 2015 Survey***	Change Since 2008	Percent Since 2008
Millbury	\$397	\$543	\$608	\$211	53.1%
Milford	\$310	\$310	\$628	\$318	102.6%
Bellingham	\$252	\$351	\$631	\$379	150.4%
Franklin	\$441	\$507	\$732	\$291	66.0%

Bills are based on consumption of 22,500 gals/quarter (90,000 Annual)
* Source: 2006 Massachusetts Water Rate Survey – Tighe & Bond
** Source: 2010 Massachusetts Water Rate Survey – Tighe & Bond
*** Source: 2014 Massachusetts Water Rate Survey – Tighe & Bond
+ Website for 2015 Rate

I propose the following rate increases to become effective for water sold after September 30, 2015:

Rate	Range	Current	Proposed
Residential & Condominiums	Minimum (0 to 5,000 Gallons)	\$21.00	\$24.00
	5,001 to 25,000 Gallons/Thousand	\$3.40	\$3.70
	25,001 to 60,000 Gallons/Thousand	\$6.30	\$6.90
	Over 60,000 Gallons/Thousand	\$10.00	\$12.00
Commercial	Minimum (0 to 5,000 Gallons)	\$36.00	\$40.00
	5,001 to 25,000 Gallons/Thousand	\$2.80	\$3.30
	25,001 to 50,000 Gallons/Thousand	\$3.80	\$4.30
	Over 50,000 Gallons/Thousand	\$3.80	\$4.30
Apartments	Flat Rate/Thousand	\$4.25	\$4.50
Residential Lawns	Minimum	\$21.00	\$24.00
Residential Summer	0 to 60,000 Gallons/Thousand	\$6.30	\$6.90
Apartment Lawns	Over 60,000 Gallons/Thousand	\$10.00	\$12.00
Commercial Lawns			
Condominium Lawns			
School & Municipal	Minimum (0 to 5,000 Gallons)	\$36.00	\$40.00
	5,001 to 50,000 Gallons/Thousand	\$2.30	\$2.50
	Over 50,000 Gallons/Thousand	\$3.40	\$3.80
School & Municipal Lawns	Flat Rate/Thousand	\$3.50	\$3.80

If you apply the 2015 consumption amounts using the proposed rates, the following amounts of new revenue will be realized:

Rate	# of Bills	Consumption	Current Value	Cost/Thousand	New Value	Cost/Thousand	Change
Residential	38,693	560,886,896	\$2,283,580	\$4.07	\$2,541,953	\$4.53	\$0.46
Commercial	2,028	123,906,408	\$493,314	\$3.98	\$559,283	\$4.51	\$0.53
Condominium	3,182	27,620,985	\$114,287	\$4.14	\$128,021	\$4.64	\$0.50
Apartment	607	104,479,491	\$444,039	\$4.25	\$470,158	\$4.50	\$0.25
Totals	44,510	816,893,780	\$3,335,220	\$4.08	\$3,699,415	\$4.53	\$0.45
Projected Increase in Revenue					\$364,195		

In summary:

1. The current (2012) rate is now generating \$1.2 to \$1.4 Million annually above our O&M.
2. Ideally we should be generating about \$2.0 Million annually above O&M.
3. Commercial consumption compared to FY 2012 is off by 5%.
4. 17.25% of the residential customer base in FY 2015 is paying an amount less than would they would have paid if the 1991 rate was still in effect.
5. Shrewsbury’s residential water rate is still among the lowest (if not the lowest) in the region.
6. The proposed rate will generate based upon the current consumption model an additional \$364,195. There is a belief that the new meters will result in less unaccounted for water which in turn will increase revenue.
7. Green sand filtration or an alternate water supply source will require rates to increase, in addition, to cover those associated costs.

I have attached to this memo a series of exhibits for your review.

Please advise with any questions.

Cc Board of Sewer Commissioners
 Jeff Howland
 Robert Tozeski
 Mary Thompson
 Kristen Las
 John Decillis
 Sharon Horne
 Mary Budzinski

Additional Reference Materials:

August 1, 2012, memo to the Board of Selectmen - Re: Water Rates
 September 5, 2012, memo the Board of Selectmen - Re: Water Rates

September 7, 2012, memo the Board of Selectmen - Re: Water Rates
June 20, 2014, memo to the Board of Selectmen - Re: Manganese Standards
July 18, 2014, memo to the Board of Selectmen - Re: Strategic Planning Exercise
August 5, 2015, memo to the Board of Selectmen – Re: Water Rates
Capital Efficiency Plan dated March 2014
Final Modified Water Management Act Permit dated July 2, 2015
Alternate Water Supply Study (Draft) dated June 30, 2015

Summary of Water Bills
FY 2015
Residential

Consumption Range			# of Bills	Bills Issued		Consumption				
	to			Cumulative	Percent	Cumulative	Consumption	Cumulative	Percent	Cumulative
0	to	5000	5,203	5,203	13.45%	13.45%	15,396,829	15,396,829	2.75%	2.75%
5001	to	6000	1,471	6,674	3.80%	17.25%	8,536,436	23,933,265	1.52%	4.27%
6001	to	7000	1,689	8,363	4.37%	21.61%	11,501,400	35,434,665	2.05%	6.32%
7001	to	8000	1,948	10,311	5.03%	26.65%	15,224,628	50,659,293	2.71%	9.03%
8001	to	9000	2,100	12,411	5.43%	32.08%	18,500,832	69,160,125	3.30%	12.33%
9001	to	10000	2,199	14,610	5.68%	37.76%	21,617,659	90,777,784	3.85%	16.18%
10001	to	11000	2,306	16,916	5.96%	43.72%	24,966,289	115,744,073	4.45%	20.64%
11001	to	12000	2,163	19,079	5.59%	49.31%	25,597,544	141,341,617	4.56%	25.20%
12001	to	13000	2,094	21,173	5.41%	54.72%	26,858,976	168,200,593	4.79%	29.99%
13001	to	14000	1,983	23,156	5.12%	59.85%	27,421,704	195,622,297	4.89%	34.88%
14001	to	15000	1,842	24,998	4.76%	64.61%	27,301,103	222,923,400	4.87%	39.74%
15001	to	16000	1,671	26,669	4.32%	68.92%	26,441,298	249,364,698	4.71%	44.46%
16001	to	17000	1,504	28,173	3.89%	72.81%	25,284,895	274,649,593	4.51%	48.97%
17001	to	18000	1,220	29,393	3.15%	75.96%	21,750,610	296,400,203	3.88%	52.84%
18001	to	19000	1,118	30,511	2.89%	78.85%	21,067,166	317,467,369	3.76%	56.60%
19001	to	20000	1,002	31,513	2.59%	81.44%	19,901,618	337,368,987	3.55%	60.15%
20001	to	21000	846	32,359	2.19%	83.63%	17,639,567	355,008,554	3.14%	63.29%
21001	to	22000	740	33,099	1.91%	85.54%	16,151,980	371,160,534	2.88%	66.17%
22001	to	23000	619	33,718	1.60%	87.14%	14,134,606	385,295,140	2.52%	68.69%
23001	to	24000	564	34,282	1.46%	88.60%	13,441,830	398,736,970	2.40%	71.09%
24001	to	25000	506	34,788	1.31%	89.91%	12,572,460	411,309,430	2.24%	73.33%
25001	to	26000	405	35,193	1.05%	90.95%	10,459,841	421,769,271	1.86%	75.20%
26001	to	27000	366	35,559	0.95%	91.90%	9,822,579	431,591,850	1.75%	76.95%
27001	to	28000	326	35,885	0.84%	92.74%	9,080,439	440,672,289	1.62%	78.57%
28001	to	29000	275	36,160	0.71%	93.45%	7,942,730	448,615,019	1.42%	79.98%
29001	to	30000	256	36,416	0.66%	94.12%	7,648,230	456,263,249	1.36%	81.35%
30001	to	35000	809	37,225	2.09%	96.21%	26,392,730	482,655,979	4.71%	86.05%
35001	to	40000	473	37,698	1.22%	97.43%	17,825,740	500,481,719	3.18%	89.23%
40001	to	45000	285	37,983	0.74%	98.17%	12,173,127	512,654,846	2.17%	91.40%
45001	to	50000	206	38,189	0.53%	98.70%	9,803,060	522,457,906	1.75%	93.15%
50001	to	60000	212	38,401	0.55%	99.25%	11,654,310	534,112,216	2.08%	95.23%

Summary of Water Bills
FY 2015
Residential

Consumption Range			# of Bills	Bills Issued				Consumption			
				Cumulative	Percent	Cumulative	Consumption	Cumulative	Percent	Cumulative	
60001	to	70000	114	38,515	0.29%	99.54%	7,385,520	541,497,736	1.32%	96.54%	
70001	to	80000	53	38,568	0.14%	99.68%	3,948,380	545,446,116	0.70%	97.25%	
80001	to	90000	40	38,608	0.10%	99.78%	3,379,810	548,825,926	0.60%	97.85%	
90001	to	100000	30	38,638	0.08%	99.86%	2,856,170	551,682,096	0.51%	98.36%	
100001	to	125000	26	38,664	0.07%	99.93%	2,907,400	554,589,496	0.52%	98.88%	
125001	to	150000	14	38,678	0.04%	99.96%	1,937,900	556,527,396	0.35%	99.22%	
150001	to	999999	15	38,693	0.04%	100.00%	4,359,500	560,886,896	0.78%	100.00%	
0	to	5000	5,203	13.45%	13.45%		15,396,829	2.75%	2.75%		
5001	to	25000	29,585	76.46%	89.91%		395,912,601	70.59%	73.33%		
25001	to	60000	3,613	9.34%	99.25%		122,802,786	21.89%	95.23%		
60001	to	999999	292	0.75%	100.00%		26,774,680	4.77%	100.00%		
			38,693				560,886,896				
								Bill Amount	\$2,283,580.25		
						Average Bill	14,496	Gallons Consumed	560,886,896		
						Median Bill	12,200	Per Thousand Gal	\$4.07		

Summary of Water Bills
FY 2015
Commercial

Consumption Range			# of Bills	Bills Issued		Consumption				
				Cumulative	Percent	Cumulative	Consumption	Cumulative	Percent	Cumulative
0	to	5000	659	659	32.50%	32.50%	1,385,150	1,385,150	1.12%	1.12%
5001	to	6000	66	725	3.25%	35.75%	381,080	1,766,230	0.31%	1.43%
6001	to	7000	59	784	2.91%	38.66%	403,540	2,169,770	0.33%	1.75%
7001	to	8000	48	832	2.37%	41.03%	374,510	2,544,280	0.30%	2.05%
8001	to	9000	50	882	2.47%	43.49%	443,370	2,987,650	0.36%	2.41%
9001	to	10000	50	932	2.47%	45.96%	477,790	3,465,440	0.39%	2.80%
10001	to	15000	162	1,094	7.99%	53.94%	2,074,350	5,539,790	1.67%	4.47%
15001	to	20000	140	1,234	6.90%	60.85%	2,492,756	8,032,546	2.01%	6.48%
20001	to	25000	106	1,340	5.23%	66.07%	2,402,750	10,435,296	1.94%	8.42%
25001	to	30000	65	1,405	3.21%	69.28%	1,799,940	12,235,236	1.45%	9.87%
30001	to	35000	46	1,451	2.27%	71.55%	1,483,829	13,719,065	1.20%	11.07%
35001	to	40000	46	1,497	2.27%	73.82%	1,747,070	15,466,135	1.41%	12.48%
40001	to	45000	32	1,529	1.58%	75.39%	1,362,760	16,828,895	1.10%	13.58%
45001	to	50000	35	1,564	1.73%	77.12%	1,693,150	18,522,045	1.37%	14.95%
50001	to	60000	56	1,620	2.76%	79.88%	3,064,910	21,586,955	2.47%	17.42%
60001	to	70000	48	1,668	2.37%	82.25%	3,176,060	24,763,015	2.56%	19.99%
70001	to	80000	42	1,710	2.07%	84.32%	3,161,630	27,924,645	2.55%	22.54%
80001	to	90000	39	1,749	1.92%	86.24%	3,345,753	31,270,398	2.70%	25.24%
90001	to	100000	25	1,774	1.23%	87.48%	2,366,130	33,636,528	1.91%	27.15%
100001	to	125000	49	1,823	2.42%	89.89%	5,507,550	39,144,078	4.44%	31.59%
125001	to	150000	36	1,859	1.78%	91.67%	4,951,510	44,095,588	4.00%	35.59%
150001	to	175000	27	1,886	1.33%	93.00%	4,367,810	48,463,398	3.53%	39.11%
175001	to	200000	17	1,903	0.84%	93.84%	3,158,730	51,622,128	2.55%	41.66%
200001	to	250000	25	1,928	1.23%	95.07%	5,730,850	57,352,978	4.63%	46.29%
250001	to	300000	10	1,938	0.49%	95.56%	2,701,600	60,054,578	2.18%	48.47%
300001	to	999999	90	2,028	4.44%	100.00%	63,851,830	123,906,408	51.53%	100.00%
0	to	5000	659	32.50%	32.50%	1,385,150	1.12%	1.12%		
5001	to	25000	681	33.58%	66.07%	9,050,146	7.30%	8.42%		
25001	to	50000	224	11.05%	77.12%	8,086,749	6.53%	14.95%		
50001	to	999999	464	22.88%	100.00%	105,384,363	85.05%	100.00%		

Summary of Water Bills
 FY 2015
 Commercial

2,028	123,906,408	Bill Amount	\$493,314.47
Average Bill	61,098	Gallons Consumed	123,906,408
Median Bill	13,500	Per Thousand Gal	\$3.98

Summary of Water Bills
FY 2015
Condominiums

Consumption Range	# of Bills	Bills Issued				Consumption			
		Cumulative	Percent	Cumulative	Consumption	Cumulative	Percent	Cumulative	
0 to 5000	1,004	1,004	31.55%	31.55%	3,159,284	3,159,284	11.44%	11.44%	
5001 to 6000	271	1,275	8.52%	40.07%	1,576,130	4,735,414	5.71%	17.14%	
6001 to 7000	262	1,537	8.23%	48.30%	1,781,784	6,517,198	6.45%	23.60%	
7001 to 8000	224	1,761	7.04%	55.34%	1,755,496	8,272,694	6.36%	29.95%	
8001 to 9000	233	1,994	7.32%	62.66%	2,063,142	10,335,836	7.47%	37.42%	
9001 to 10000	205	2,199	6.44%	69.11%	2,026,385	12,362,221	7.34%	44.76%	
10001 to 11000	180	2,379	5.66%	74.76%	1,957,980	14,320,201	7.09%	51.85%	
11001 to 12000	143	2,522	4.49%	79.26%	1,695,451	16,015,652	6.14%	57.98%	
12001 to 13000	133	2,655	4.18%	83.44%	1,715,036	17,730,688	6.21%	64.19%	
13001 to 14000	93	2,748	2.92%	86.36%	1,291,970	19,022,658	4.68%	68.87%	
14001 to 15000	74	2,822	2.33%	88.69%	1,099,399	20,122,057	3.98%	72.85%	
15001 to 16000	73	2,895	2.29%	90.98%	1,161,595	21,283,652	4.21%	77.06%	
16001 to 17000	46	2,941	1.45%	92.43%	775,030	22,058,682	2.81%	79.86%	
17001 to 18000	42	2,983	1.32%	93.75%	750,099	22,808,781	2.72%	82.58%	
18001 to 19000	31	3,014	0.97%	94.72%	584,900	23,393,681	2.12%	84.70%	
19001 to 20000	27	3,041	0.85%	95.57%	536,910	23,930,591	1.94%	86.64%	
20001 to 21000	22	3,063	0.69%	96.26%	461,475	24,392,066	1.67%	88.31%	
21001 to 22000	27	3,090	0.85%	97.11%	590,630	24,982,696	2.14%	90.45%	
22001 to 23000	10	3,100	0.31%	97.42%	226,210	25,208,906	0.82%	91.27%	
23001 to 24000	12	3,112	0.38%	97.80%	285,175	25,494,081	1.03%	92.30%	
24001 to 25000	8	3,120	0.25%	98.05%	199,900	25,693,981	0.72%	93.02%	
25001 to 26000	16	3,136	0.50%	98.55%	414,590	26,108,571	1.50%	94.52%	
26001 to 27000	10	3,146	0.31%	98.87%	268,634	26,377,205	0.97%	95.50%	
27001 to 28000	9	3,155	0.28%	99.15%	250,230	26,627,435	0.91%	96.40%	
28001 to 29000	5	3,160	0.16%	99.31%	145,000	26,772,435	0.52%	96.93%	
29001 to 30000	2	3,162	0.06%	99.37%	59,370	26,831,805	0.21%	97.14%	
30001 to 35000	10	3,172	0.31%	99.69%	317,400	27,149,205	1.15%	98.29%	
35001 to 40000	5	3,177	0.16%	99.84%	193,580	27,342,785	0.70%	98.99%	
40001 to 45000	4	3,181	0.13%	99.97%	167,800	27,510,585	0.61%	99.60%	
45001 to 50000	0	3,181	0.00%	99.97%	0	27,510,585	0.00%	99.60%	
50001 to 55000	0	3,181	0.00%	99.97%	0	27,510,585	0.00%	99.60%	
55001 to 60000	0	3,181	0.00%	99.97%	0	27,510,585	0.00%	99.60%	

Summary of Water Bills
FY 2015
Condominiums

Consumption Range			# of Bills	Bills Issued			Consumption			
	to			Cumulative	Percent	Cumulative	Consumption	Cumulative	Percent	Cumulative
60001	to	70000	0	3,181	0.00%	99.97%	0	27,510,585	0.00%	99.60%
70001	to	80000	0	3,181	0.00%	99.97%	0	27,510,585	0.00%	99.60%
80001	to	85000	0	3,181	0.00%	99.97%	0	27,510,585	0.00%	99.60%
85001	to	90000	0	3,181	0.00%	99.97%	0	27,510,585	0.00%	99.60%
90001	to	100000	1	3,182	0.03%	100.00%	110,400	27,620,985	0.40%	100.00%
100001	to	125000	0	3,182	0.00%	100.00%	0	27,620,985	0.00%	100.00%
125001	to	999999	0	3,182	0.00%	100.00%	0	27,620,985	0.00%	100.00%
0	to	5000	1,004	31.55%	31.55%		3,159,284	11.44%	11.44%	
5001	to	25000	2,116	66.50%	98.05%		22,534,697	81.59%	93.02%	
25001	to	60000	61	1.92%	99.97%		1,816,604	6.58%	99.60%	
60001	to	999999	1	0.03%	100.00%		110,400	0.40%	100.00%	
			3,182				27,620,985			
						Average Bill	8,680	Bill Amount	\$114,287.48	
						Median Bill	7,300	Gallons Consumed	27,620,985	
								Per Thousand Gal	\$4.14	

Summary of Water Bills
FY 2015
Apartments

Consumption Range			# of Bills	Bills Issued		Consumption				
	to			Cumulative	Percent	Cumulative	Consumption	Cumulative	Percent	Cumulative
0	to	5000	34	34	5.60%	5.60%	46,680	46,680	0.04%	0.04%
5001	to	10000	9	43	1.48%	7.08%	72,470	119,150	0.07%	0.11%
10001	to	15000	10	53	1.65%	8.73%	126,460	245,610	0.12%	0.24%
15001	to	20000	20	73	3.29%	12.03%	358,570	604,180	0.34%	0.58%
20001	to	25000	12	85	1.98%	14.00%	270,260	874,440	0.26%	0.84%
25001	to	30000	9	94	1.48%	15.49%	247,180	1,121,620	0.24%	1.07%
30001	to	35000	6	100	0.99%	16.47%	201,080	1,322,700	0.19%	1.27%
35001	to	40000	12	112	1.98%	18.45%	453,830	1,776,530	0.43%	1.70%
40001	to	45000	20	132	3.29%	21.75%	858,090	2,634,620	0.82%	2.52%
45001	to	50000	16	148	2.64%	24.38%	768,910	3,403,530	0.74%	3.26%
50001	to	60000	27	175	4.45%	28.83%	1,490,806	4,894,336	1.43%	4.68%
60001	to	70000	39	214	6.43%	35.26%	2,519,829	7,414,165	2.41%	7.10%
70001	to	80000	38	252	6.26%	41.52%	2,857,666	10,271,831	2.74%	9.83%
80001	to	90000	30	282	4.94%	46.46%	2,559,180	12,831,011	2.45%	12.28%
90001	to	100000	36	318	5.93%	52.39%	3,406,000	16,237,011	3.26%	15.54%
100001	to	125000	43	361	7.08%	59.47%	4,784,800	21,021,811	4.58%	20.12%
125001	to	150000	25	386	4.12%	63.59%	3,386,700	24,408,511	3.24%	23.36%
150001	to	175000	44	430	7.25%	70.84%	7,064,520	31,473,031	6.76%	30.12%
175001	to	200000	33	463	5.44%	76.28%	6,136,770	37,609,801	5.87%	36.00%
200001	to	250000	37	500	6.10%	82.37%	8,447,090	46,056,891	8.08%	44.08%
250001	to	300000	28	528	4.61%	86.99%	7,797,700	53,854,591	7.46%	51.55%
300001	to	400000	20	548	3.29%	90.28%	6,709,100	60,563,691	6.42%	57.97%
400001	to	500000	13	561	2.14%	92.42%	6,107,500	66,671,191	5.85%	63.81%
500001	to	999999	46	607	7.58%	100.00%	37,808,300	104,479,491	36.19%	100.00%
0	to	5000	34	5.60%	5.60%	46,680	0.04%	0.04%		
5001	to	50000	114	18.78%	24.38%	3,356,850	3.21%	3.26%		
50001	to	100000	170	28.01%	52.39%	12,833,481	12.28%	15.54%		
100000	to	999999	289	47.61%	100.00%	88,242,480	84.46%	100.00%		
			607			104,479,491				
							Bill Amount	\$444,038.73		
					Average Bill	172,124	Gallons Consumed	104,479,491		
					Median Bill	96,200	Per Thousand Gal	\$4.25		

Summary of Water Bills
FY 2015
Various Rate Codes

Residential Lawn			28 Accounts		Bills Issued		Consumption		
Consumption Range	# of Bills	Cumulative	Percent	Cumulative	Consumption	Cumulative	Percent	Cumulative	
0 to 60000	104	104	92.86%	92.86%	740,000	740,000	45.13%	45.13%	
60001 to 999999	8	112	7.14%	100.00%	899,800	1,639,800	54.87%	100.00%	
					Average Bill	14,641	Bill Amount	\$14,236.00	
					Median Bill	N/A	Gallons Consumed	1,639,800	
							Per Thousand Gal	\$8.68	
Residential Summer Service			7 Accounts		Bills Issued		Consumption		
Consumption Range	# of Bills	Cumulative	Percent	Cumulative	Consumption	Cumulative	Percent	Cumulative	
0 to 60000	18	18	94.74%	94.74%	61,000	61,000	20.68%	20.68%	
60001 to 999999	1	19	5.26%	100.00%	234,000	295,000	79.32%	100.00%	
					Average Bill	15,526	Bill Amount	\$2,901.30	
					Median Bill	N/A	Gallons Consumed	295,000	
							Per Thousand Gal	\$9.83	
Apartment Lawn			13 Accounts		Bills Issued		Consumption		
Consumption Range	# of Bills	Cumulative	Percent	Cumulative	Consumption	Cumulative	Percent	Cumulative	
0 to 60000	32	32	64.00%	64.00%	310,500	310,500	11.27%	11.27%	
60001 to 999999	18	50	36.00%	100.00%	2,444,300	2,754,800	88.73%	100.00%	
					Average Bill	55,096	Bill Amount	\$23,333.93	
					Median Bill	N/A	Gallons Consumed	2,754,800	
							Per Thousand Gal	\$8.47	

Summary of Water Bills
FY 2015
Various Rate Codes

Commercial Lawn			5 Accounts							
Consumption Range			# of Bills	Cumulative	Bills Issued		Consumption			
					Percent	Cumulative	Consumption	Cumulative	Percent	Cumulative
0	to	60000	17	17	85.00%	85.00%	93,340	93,340	13.49%	13.49%
60001	to	999999	3	20	15.00%	100.00%	598,600	691,940	86.51%	100.00%
							Average Bill	34,597	Bill Amount	\$6,030.79
							Median Bill	N/A	Gallons Consumed	691,940
									Per Thousand Gal	\$8.72
Condominium Lawn			10 Accounts							
Consumption Range			# of Bills	Cumulative	Bills Issued		Consumption			
					Percent	Cumulative	Consumption	Cumulative	Percent	Cumulative
0	to	60000	25	25	65.79%	65.79%	312,400	312,400	10.06%	10.06%
60001	to	999999	13	38	34.21%	100.00%	2,793,700	3,106,100	89.94%	100.00%
							Average Bill	81,739	Bill Amount	\$27,817.12
							Median Bill	N/A	Gallons Consumed	3,106,100
									Per Thousand Gal	\$8.96
Water Municipal			20 Accounts							
Consumption Range			# of Bills	Cumulative	Bills Issued		Consumption			
					Percent	Cumulative	Consumption	Cumulative	Percent	Cumulative
0	to	5000	32	32	41.56%	41.56%	37,550	37,550	3.12%	3.12%
5001	to	50000	42	74	54.55%	96.10%	778,940	816,490	64.79%	67.91%
50001	to	999999	3	77	3.90%	100.00%	385,760	1,202,250	32.09%	100.00%
							Average Bill	15,614	Bill Amount	\$5,192.64
							Median Bill	N/A	Gallons Consumed	1,202,250
									Per Thousand Gal	\$4.32

Summary of Water Bills
FY 2015
Various Rate Codes

Water School			16 Accounts		Bills Issued		Consumption			
Consumption Range	# of Bills	Cumulative	Percent	Cumulative	Consumption	Cumulative	Percent	Cumulative		
0 to 5000	3	3	4.69%	4.69%	2,800	2,800	0.05%	0.05%		
5001 to 50000	23	26	35.94%	40.63%	776,300	779,100	13.84%	13.84%		
50001 to 999999	38	64	59.38%	100.00%	4,828,060	5,607,160	86.11%	86.11%		
						Bill Amount	\$16,690.97			
				Average Bill	87,612	Gallons Consumed	5,607,160			
				Median Bill	N/A	Per Thousand Gal	\$2.98			
Water School Lawn			6 Accounts		Bills Issued		Consumption			
Consumption Range	# of Bills	Cumulative	Percent	Cumulative	Consumption	Cumulative	Percent	Cumulative		
0 to 999999	24	24	100.00%	100.00%	7,115,250	7,115,250	100.00%	100.00%		
						Bill Amount	\$24,903.38			
				Average Bill	296,469	Gallons Consumed	7,115,250			
				Median Bill	N/A	Per Thousand Gal	\$3.50			

Historical Comparison
Residential Water Rate Structure
July 2015

Consumption	July 1, 1991 Rate	June 1, 2003 Rate	August 29, 2006 Rate	Sept 1, 2008 Rate	March 1, 2013 Rate	October 1, 2015 Rate (Effective with February Billing)	Variance to 2013	Percent to 2013	Variance to 1991	Percent to 1991
Base Charge	\$24.00	\$15.00	\$16.50	\$19.00	\$21.00	\$24.00				
5,000 to 25,000	\$1.80	\$2.50	\$2.85	\$3.20	\$3.40	\$3.70				
25,001 to 60,000	\$1.80	\$4.50	\$5.20	\$6.00	\$6.30	\$6.90				
50,000+	\$2.40	\$5.50	\$6.35	\$7.75	\$6.30					
60,000+					\$10.00	\$12.00				
5000	\$24.00	\$15.00	\$16.50	\$19.00	\$21.00	\$24.00	\$3.00	14.29%	\$0.00	0.00%
6000	\$25.80	\$17.50	\$19.35	\$22.20	\$24.40	\$27.70	\$3.30	13.52%	\$1.90	7.36%
7000	\$27.60	\$20.00	\$22.20	\$25.40	\$27.80	\$31.40	\$3.60	12.95%	\$3.80	13.77%
8000	\$29.40	\$22.50	\$25.05	\$28.60	\$31.20	\$35.10	\$3.90	12.50%	\$5.70	19.39%
9000	\$31.20	\$25.00	\$27.90	\$31.80	\$34.60	\$38.80	\$4.20	12.14%	\$7.60	24.36%
10000	\$33.00	\$27.50	\$30.75	\$35.00	\$38.00	\$42.50	\$4.50	11.84%	\$9.50	28.79%
11000	\$34.80	\$30.00	\$33.60	\$38.20	\$41.40	\$46.20	\$4.80	11.59%	\$11.40	32.76%
12000	\$36.60	\$32.50	\$36.45	\$41.40	\$44.80	\$49.90	\$5.10	11.38%	\$13.30	36.34%
Median Bill										
13000	\$38.40	\$35.00	\$39.30	\$44.60	\$48.20	\$53.60	\$5.40	11.20%	\$15.20	39.58%
14000	\$40.20	\$37.50	\$42.15	\$47.80	\$51.60	\$57.30	\$5.70	11.05%	\$17.10	42.54%
Average Bill										
15000	\$42.00	\$40.00	\$45.00	\$51.00	\$55.00	\$61.00	\$6.00	10.91%	\$19.00	45.24%
16000	\$43.80	\$42.50	\$47.85	\$54.20	\$58.40	\$64.70	\$6.30	10.79%	\$20.90	47.72%
17000	\$45.60	\$45.00	\$50.70	\$57.40	\$61.80	\$68.40	\$6.60	10.68%	\$22.80	50.00%
18000	\$47.40	\$47.50	\$53.55	\$60.60	\$65.20	\$72.10	\$6.90	10.58%	\$24.70	52.11%
19000	\$49.20	\$50.00	\$56.40	\$63.80	\$68.60	\$75.80	\$7.20	10.50%	\$26.60	54.07%
20000	\$51.00	\$52.50	\$59.25	\$67.00	\$72.00	\$79.50	\$7.50	10.42%	\$28.50	55.88%
21000	\$52.80	\$55.00	\$62.10	\$70.20	\$75.40	\$83.20	\$7.80	10.34%	\$30.40	57.58%
22000	\$54.60	\$57.50	\$64.95	\$73.40	\$78.80	\$86.90	\$8.10	10.28%	\$32.30	59.16%
23000	\$56.40	\$60.00	\$67.80	\$76.60	\$82.20	\$90.60	\$8.40	10.22%	\$34.20	60.64%
24000	\$58.20	\$62.50	\$70.65	\$79.80	\$85.60	\$94.30	\$8.70	10.16%	\$36.10	62.03%
25000	\$60.00	\$65.00	\$73.50	\$83.00	\$89.00	\$98.00	\$9.00	10.11%	\$38.00	63.33%
26000	\$61.80	\$69.50	\$78.70	\$89.00	\$95.30	\$104.90	\$9.60	10.07%	\$43.10	69.74%
27000	\$63.60	\$74.00	\$83.90	\$95.00	\$101.60	\$111.80	\$10.20	10.04%	\$48.20	75.79%
28000	\$65.40	\$78.50	\$89.10	\$101.00	\$107.90	\$118.70	\$10.80	10.01%	\$53.30	81.50%
29000	\$67.20	\$83.00	\$94.30	\$107.00	\$114.20	\$125.60	\$11.40	9.98%	\$58.40	86.90%
30000	\$69.00	\$87.50	\$99.50	\$113.00	\$120.50	\$132.50	\$12.00	9.96%	\$63.50	92.03%
31000	\$70.80	\$92.00	\$104.70	\$119.00	\$126.80	\$139.40	\$12.60	9.94%	\$68.60	96.89%
32000	\$72.60	\$96.50	\$109.90	\$125.00	\$133.10	\$146.30	\$13.20	9.92%	\$73.70	101.52%
33000	\$74.40	\$101.00	\$115.10	\$131.00	\$139.40	\$153.20	\$13.80	9.90%	\$78.80	105.91%

0.00%	26.6% of bills are 8,000 gallons or less
7.36%	
13.77%	
19.39%	

Historical Comparison
Residential Water Rate Structure
July 2015

Consumption	July 1, 1991 Rate	June 1, 2003 Rate	August 29, 2006 Rate	Sept 1, 2008 Rate	March 1, 2013 Rate	October 1, 2015 Rate (Effective with February Billing)	Variance to 2013	Percent to 2013	Variance to 1991	Percent to 1991
34000	\$76.20	\$105.50	\$120.30	\$137.00	\$145.70	\$160.10	\$14.40	9.88%	\$83.90	110.10%
35000	\$78.00	\$110.00	\$125.50	\$143.00	\$152.00	\$167.00	\$15.00	9.87%	\$89.00	114.10%
36000	\$79.80	\$114.50	\$130.70	\$149.00	\$158.30	\$173.90	\$15.60	9.85%	\$94.10	117.92%
37000	\$81.60	\$119.00	\$135.90	\$155.00	\$164.60	\$180.80	\$16.20	9.84%	\$99.20	121.57%
38000	\$83.40	\$123.50	\$141.10	\$161.00	\$170.90	\$187.70	\$16.80	9.83%	\$104.30	125.06%
39000	\$85.20	\$128.00	\$146.30	\$167.00	\$177.20	\$194.60	\$17.40	9.82%	\$109.40	128.40%
40000	\$87.00	\$132.50	\$151.50	\$173.00	\$183.50	\$201.50	\$18.00	9.81%	\$114.50	131.61%
41000	\$88.80	\$137.00	\$156.70	\$179.00	\$189.80	\$208.40	\$18.60	9.80%	\$119.60	134.68%
42000	\$90.60	\$141.50	\$161.90	\$185.00	\$196.10	\$215.30	\$19.20	9.79%	\$124.70	137.64%
43000	\$92.40	\$146.00	\$167.10	\$191.00	\$202.40	\$222.20	\$19.80	9.78%	\$129.80	140.48%
44000	\$94.20	\$150.50	\$172.30	\$197.00	\$208.70	\$229.10	\$20.40	9.77%	\$134.90	143.21%
45000	\$96.00	\$155.00	\$177.50	\$203.00	\$215.00	\$236.00	\$21.00	9.77%	\$140.00	145.83%
46000	\$97.80	\$159.50	\$182.70	\$209.00	\$221.30	\$242.90	\$21.60	9.76%	\$145.10	148.36%
47000	\$99.60	\$164.00	\$187.90	\$215.00	\$227.60	\$249.80	\$22.20	9.75%	\$150.20	150.80%
48000	\$101.40	\$168.50	\$193.10	\$221.00	\$233.90	\$256.70	\$22.80	9.75%	\$155.30	153.16%
49000	\$103.20	\$173.00	\$198.30	\$227.00	\$240.20	\$263.60	\$23.40	9.74%	\$160.40	155.43%
50000	\$105.60	\$177.50	\$203.50	\$233.00	\$246.50	\$270.50	\$24.00	9.74%	\$164.90	156.16%
51000	\$108.00	\$183.00	\$209.85	\$240.75	\$252.80	\$277.40	\$24.60	9.73%	\$169.40	156.85%
52000	\$110.40	\$189.50	\$216.20	\$248.50	\$259.10	\$284.30	\$25.20	9.73%	\$173.90	157.52%
53000	\$112.80	\$195.00	\$222.55	\$256.25	\$265.40	\$291.20	\$25.80	9.72%	\$178.40	158.16%
54000	\$115.20	\$200.50	\$228.90	\$264.00	\$271.70	\$298.10	\$26.40	9.72%	\$182.90	158.77%
55000	\$117.60	\$206.00	\$235.25	\$271.75	\$278.00	\$305.00	\$27.00	9.71%	\$187.40	159.35%
56000	\$120.00	\$211.50	\$241.60	\$279.50	\$284.30	\$311.90	\$27.60	9.71%	\$191.90	159.92%
57000	\$122.40	\$217.00	\$247.95	\$287.25	\$290.60	\$318.80	\$28.20	9.70%	\$196.40	160.46%
58000	\$124.80	\$222.50	\$254.30	\$295.00	\$296.90	\$325.70	\$28.80	9.70%	\$200.90	160.98%
59000	\$127.20	\$228.00	\$260.65	\$302.75	\$303.20	\$332.60	\$29.40	9.70%	\$205.40	161.48%
60000	\$129.60	\$233.50	\$267.00	\$310.50	\$309.50	\$339.50	\$30.00	9.69%	\$209.90	161.96%
61000	\$132.00	\$239.00	\$273.35	\$318.25	\$319.50	\$351.50	\$32.00	10.02%	\$219.50	166.29%
62000	\$134.40	\$244.50	\$279.70	\$326.00	\$329.50	\$363.50	\$34.00	10.32%	\$229.10	170.46%
63000	\$136.80	\$250.00	\$286.05	\$333.75	\$339.50	\$375.50	\$36.00	10.60%	\$238.70	174.49%
64000	\$139.20	\$255.50	\$292.40	\$341.50	\$349.50	\$387.50	\$38.00	10.87%	\$248.30	178.38%
65000	\$141.60	\$261.00	\$298.75	\$349.25	\$359.50	\$399.50	\$40.00	11.13%	\$257.90	182.13%
66000	\$144.00	\$266.50	\$305.10	\$357.00	\$369.50	\$411.50	\$42.00	11.37%	\$267.50	185.76%
67000	\$146.40	\$272.00	\$311.45	\$364.75	\$379.50	\$423.50	\$44.00	11.59%	\$277.10	189.28%
68000	\$148.80	\$277.50	\$317.80	\$372.50	\$389.50	\$435.50	\$46.00	11.81%	\$286.70	192.67%
69000	\$151.20	\$283.00	\$324.15	\$380.25	\$399.50	\$447.50	\$48.00	12.02%	\$296.30	195.97%

Historical Comparison
Residential Water Rate Structure
July 2015

Consumption	July 1, 1991 Rate	June 1, 2003 Rate	August 29, 2006 Rate	Sept 1, 2008 Rate	March 1, 2013 Rate	October 1, 2015 Rate (Effective with February Billing)	Variance to 2013	Percent to 2013	Variance to 1991	Percent to 1991
70000	\$153.60	\$288.50	\$330.50	\$388.00	\$409.50	\$459.50	\$50.00	12.21%	\$305.90	199.15%
71000	\$156.00	\$294.00	\$336.85	\$395.75	\$419.50	\$471.50	\$52.00	12.40%	\$315.50	202.24%
72000	\$158.40	\$299.50	\$343.20	\$403.50	\$429.50	\$483.50	\$54.00	12.57%	\$325.10	205.24%
73000	\$160.80	\$305.00	\$349.55	\$411.25	\$439.50	\$495.50	\$56.00	12.74%	\$334.70	208.15%
74000	\$163.20	\$310.50	\$355.90	\$419.00	\$449.50	\$507.50	\$58.00	12.90%	\$344.30	210.97%
75000	\$165.60	\$316.00	\$362.25	\$426.75	\$459.50	\$519.50	\$60.00	13.06%	\$353.90	213.71%
76000	\$168.00	\$321.50	\$368.60	\$434.50	\$469.50	\$531.50	\$62.00	13.21%	\$363.50	216.37%
77000	\$170.40	\$327.00	\$374.95	\$442.25	\$479.50	\$543.50	\$64.00	13.35%	\$373.10	218.96%
78000	\$172.80	\$332.50	\$381.30	\$450.00	\$489.50	\$555.50	\$66.00	13.48%	\$382.70	221.47%
79000	\$175.20	\$338.00	\$387.65	\$457.75	\$499.50	\$567.50	\$68.00	13.61%	\$392.30	223.92%
80000	\$177.60	\$343.50	\$394.00	\$465.50	\$509.50	\$579.50	\$70.00	13.74%	\$401.90	226.30%
81000	\$180.00	\$349.00	\$400.35	\$473.25	\$519.50	\$591.50	\$72.00	13.86%	\$411.50	228.61%
82000	\$182.40	\$354.50	\$406.70	\$481.00	\$529.50	\$603.50	\$74.00	13.98%	\$421.10	230.87%
83000	\$184.80	\$360.00	\$413.05	\$488.75	\$539.50	\$615.50	\$76.00	14.09%	\$430.70	233.06%
84000	\$187.20	\$365.50	\$419.40	\$496.50	\$549.50	\$627.50	\$78.00	14.19%	\$440.30	235.20%
85000	\$189.60	\$371.00	\$425.75	\$504.25	\$559.50	\$639.50	\$80.00	14.30%	\$449.90	237.29%
86000	\$192.00	\$376.50	\$432.10	\$512.00	\$569.50	\$651.50	\$82.00	14.40%	\$459.50	239.32%
87000	\$194.40	\$382.00	\$438.45	\$519.75	\$579.50	\$663.50	\$84.00	14.50%	\$469.10	241.31%
88000	\$196.80	\$387.50	\$444.80	\$527.50	\$589.50	\$675.50	\$86.00	14.59%	\$478.70	243.24%
89000	\$199.20	\$393.00	\$451.15	\$535.25	\$599.50	\$687.50	\$88.00	14.68%	\$488.30	245.13%
90000	\$201.60	\$398.50	\$457.50	\$543.00	\$609.50	\$699.50	\$90.00	14.77%	\$497.90	246.97%
91000	\$204.00	\$404.00	\$463.85	\$550.75	\$619.50	\$711.50	\$92.00	14.85%	\$507.50	248.77%
92000	\$206.40	\$409.50	\$470.20	\$558.50	\$629.50	\$723.50	\$94.00	14.93%	\$517.10	250.53%
93000	\$208.80	\$415.00	\$476.55	\$566.25	\$639.50	\$735.50	\$96.00	15.01%	\$526.70	252.25%
94000	\$211.20	\$420.50	\$482.90	\$574.00	\$649.50	\$747.50	\$98.00	15.09%	\$536.30	253.93%
95000	\$213.60	\$426.00	\$489.25	\$581.75	\$659.50	\$759.50	\$100.00	15.16%	\$545.90	255.57%
96000	\$216.00	\$431.50	\$495.60	\$589.50	\$669.50	\$771.50	\$102.00	15.24%	\$555.50	257.18%
97000	\$218.40	\$437.00	\$501.95	\$597.25	\$679.50	\$783.50	\$104.00	15.31%	\$565.10	258.75%
98000	\$220.80	\$442.50	\$508.30	\$605.00	\$689.50	\$795.50	\$106.00	15.37%	\$574.70	260.28%
99000	\$223.20	\$448.00	\$514.65	\$612.75	\$699.50	\$807.50	\$108.00	15.44%	\$584.30	261.78%
100000	\$225.60	\$453.50	\$521.00	\$620.50	\$709.50	\$819.50	\$110.00	15.50%	\$593.90	263.25%
101000	\$228.00	\$459.00	\$527.35	\$628.25	\$719.50	\$831.50	\$112.00	15.57%	\$603.50	264.69%
102000	\$230.40	\$464.50	\$533.70	\$636.00	\$729.50	\$843.50	\$114.00	15.63%	\$613.10	266.10%
103000	\$232.80	\$470.00	\$540.05	\$643.75	\$739.50	\$855.50	\$116.00	15.69%	\$622.70	267.48%
104000	\$235.20	\$475.50	\$546.40	\$651.50	\$749.50	\$867.50	\$118.00	15.74%	\$632.30	268.84%
105000	\$237.60	\$481.00	\$552.75	\$659.25	\$759.50	\$879.50	\$120.00	15.80%	\$641.90	270.16%

Historical Comparison
Residential Water Rate Structure
July 2015

Consumption	July 1, 1991 Rate	June 1, 2003 Rate	August 29, 2006 Rate	Sept 1, 2008 Rate	March 1, 2013 Rate	October 1, 2015 Rate (Effective with February Billing)	Variance to 2013	Percent to 2013	Variance to 1991	Percent to 1991
106000	\$240.00	\$486.50	\$559.10	\$667.00	\$769.50	\$891.50	\$122.00	15.85%	\$651.50	271.46%
107000	\$242.40	\$492.00	\$565.45	\$674.75	\$779.50	\$903.50	\$124.00	15.91%	\$661.10	272.73%
108000	\$244.80	\$497.50	\$571.80	\$682.50	\$789.50	\$915.50	\$126.00	15.96%	\$670.70	273.98%
109000	\$247.20	\$503.00	\$578.15	\$690.25	\$799.50	\$927.50	\$128.00	16.01%	\$680.30	275.20%
110000	\$249.60	\$508.50	\$584.50	\$698.00	\$809.50	\$939.50	\$130.00	16.06%	\$689.90	276.40%
111000	\$252.00	\$514.00	\$590.85	\$705.75	\$819.50	\$951.50	\$132.00	16.11%	\$699.50	277.58%
112000	\$254.40	\$519.50	\$597.20	\$713.50	\$829.50	\$963.50	\$134.00	16.15%	\$709.10	278.73%
113000	\$256.80	\$525.00	\$603.55	\$721.25	\$839.50	\$975.50	\$136.00	16.20%	\$718.70	279.87%
114000	\$259.20	\$530.50	\$609.90	\$729.00	\$849.50	\$987.50	\$138.00	16.24%	\$728.30	280.98%
115000	\$261.60	\$536.00	\$616.25	\$736.75	\$859.50	\$999.50	\$140.00	16.29%	\$737.90	282.07%
116000	\$264.00	\$541.50	\$622.60	\$744.50	\$869.50	\$1,011.50	\$142.00	16.33%	\$747.50	283.14%
117000	\$266.40	\$547.00	\$628.95	\$752.25	\$879.50	\$1,023.50	\$144.00	16.37%	\$757.10	284.20%
118000	\$268.80	\$552.50	\$635.30	\$760.00	\$889.50	\$1,035.50	\$146.00	16.41%	\$766.70	285.23%
119000	\$271.20	\$558.00	\$641.65	\$767.75	\$899.50	\$1,047.50	\$148.00	16.45%	\$776.30	286.25%
120000	\$273.60	\$563.50	\$648.00	\$775.50	\$909.50	\$1,059.50	\$150.00	16.49%	\$785.90	287.24%
121000	\$276.00	\$569.00	\$654.35	\$783.25	\$919.50	\$1,071.50	\$152.00	16.53%	\$795.50	288.22%
122000	\$278.40	\$574.50	\$660.70	\$791.00	\$929.50	\$1,083.50	\$154.00	16.57%	\$805.10	289.19%
123000	\$280.80	\$580.00	\$667.05	\$798.75	\$939.50	\$1,095.50	\$156.00	16.60%	\$814.70	290.14%
124000	\$283.20	\$585.50	\$673.40	\$806.50	\$949.50	\$1,107.50	\$158.00	16.64%	\$824.30	291.07%
125000	\$285.60	\$591.00	\$679.75	\$814.25	\$959.50	\$1,119.50	\$160.00	16.68%	\$833.90	291.98%

Historical Comparison
Commerical Water Rate Structure
July 2015

Consumption	July 1, 1991 Rate	June 1, 2003 Rate	August 29, 2006 Rate	Sept 1, 2008 Rate	March 1, 2013 Rate	October 1, 2015 Rate (Effective with February Billing)	Variance to 2013	Percent to 2013	Variance to 1991	Percent to 1991	
Base Charge	\$24.00	\$24.00	\$27.50	\$32.50	\$36.00	\$40.00					
5,001 to 25,000	\$1.80	\$1.80	\$2.10	\$2.50	\$2.80	\$3.30					
25,001 to 50,000	\$1.80	\$1.80	\$2.10	\$2.50	\$3.80	\$4.30					
50,000+	\$2.40	\$2.40	\$2.80	\$3.50	\$3.80	\$4.30					
5,000	\$24.00	\$24.00	\$27.50	\$32.50	\$36.00	\$40.00	\$4.00	11.11%	\$16.00	66.67%	
6,000	\$25.80	\$25.80	\$29.60	\$35.00	\$38.80	\$43.30	\$4.50	11.60%	\$17.50	67.83%	
7,000	\$27.60	\$27.60	\$31.70	\$37.50	\$41.60	\$46.60	\$5.00	12.02%	\$19.00	68.84%	
8,000	\$29.40	\$29.40	\$33.80	\$40.00	\$44.40	\$49.90	\$5.50	12.39%	\$20.50	69.73%	
9,000	\$31.20	\$31.20	\$35.90	\$42.50	\$47.20	\$53.20	\$6.00	12.71%	\$22.00	70.51%	
10,000	\$33.00	\$33.00	\$38.00	\$45.00	\$50.00	\$56.50	\$6.50	13.00%	\$23.50	71.21%	
11,000	\$34.80	\$34.80	\$40.10	\$47.50	\$52.80	\$59.80	\$7.00	13.26%	\$25.00	71.84%	
12,000	\$36.60	\$36.60	\$42.20	\$50.00	\$55.60	\$63.10	\$7.50	13.49%	\$26.50	72.40%	
13,000	\$38.40	\$38.40	\$44.30	\$52.50	\$58.40	\$66.40	\$8.00	13.70%	\$28.00	72.92%	Median Bill
14,000	\$40.20	\$40.20	\$46.40	\$55.00	\$61.20	\$69.70	\$8.50	13.89%	\$29.50	73.38%	
15,000	\$42.00	\$42.00	\$48.50	\$57.50	\$64.00	\$73.00	\$9.00	14.06%	\$31.00	73.81%	
16,000	\$43.80	\$43.80	\$50.60	\$60.00	\$66.80	\$76.30	\$9.50	14.22%	\$32.50	74.20%	
17,000	\$45.60	\$45.60	\$52.70	\$62.50	\$69.60	\$79.60	\$10.00	14.37%	\$34.00	74.56%	
18,000	\$47.40	\$47.40	\$54.80	\$65.00	\$72.40	\$82.90	\$10.50	14.50%	\$35.50	74.89%	
19,000	\$49.20	\$49.20	\$56.90	\$67.50	\$75.20	\$86.20	\$11.00	14.63%	\$37.00	75.20%	
20,000	\$51.00	\$51.00	\$59.00	\$70.00	\$78.00	\$89.50	\$11.50	14.74%	\$38.50	75.49%	
21,000	\$52.80	\$52.80	\$61.10	\$72.50	\$80.80	\$92.80	\$12.00	14.85%	\$40.00	75.76%	
22,000	\$54.60	\$54.60	\$63.20	\$75.00	\$83.60	\$96.10	\$12.50	14.95%	\$41.50	76.01%	
23,000	\$56.40	\$56.40	\$65.30	\$77.50	\$86.40	\$99.40	\$13.00	15.05%	\$43.00	76.24%	
24,000	\$58.20	\$58.20	\$67.40	\$80.00	\$89.20	\$102.70	\$13.50	15.13%	\$44.50	76.46%	
25,000	\$60.00	\$60.00	\$69.50	\$82.50	\$92.00	\$106.00	\$14.00	15.22%	\$46.00	76.67%	
26,000	\$61.80	\$61.80	\$71.60	\$85.00	\$95.80	\$110.30	\$14.50	15.14%	\$48.50	78.48%	
27,000	\$63.60	\$63.60	\$73.70	\$87.50	\$99.60	\$114.60	\$15.00	15.06%	\$51.00	80.19%	
28,000	\$65.40	\$65.40	\$75.80	\$90.00	\$103.40	\$118.90	\$15.50	14.99%	\$53.50	81.80%	
29,000	\$67.20	\$67.20	\$77.90	\$92.50	\$107.20	\$123.20	\$16.00	14.93%	\$56.00	83.33%	
30,000	\$69.00	\$69.00	\$80.00	\$95.00	\$111.00	\$127.50	\$16.50	14.86%	\$58.50	84.78%	
31,000	\$70.80	\$70.80	\$82.10	\$97.50	\$114.80	\$131.80	\$17.00	14.81%	\$61.00	86.16%	
32,000	\$72.60	\$72.60	\$84.20	\$100.00	\$118.60	\$136.10	\$17.50	14.76%	\$63.50	87.47%	
33,000	\$74.40	\$74.40	\$86.30	\$102.50	\$122.40	\$140.40	\$18.00	14.71%	\$66.00	88.71%	
34,000	\$76.20	\$76.20	\$88.40	\$105.00	\$126.20	\$144.70	\$18.50	14.66%	\$68.50	89.90%	

Historical Comparison
Commerical Water Rate Structure
July 2015

Consumption	July 1, 1991 Rate	June 1, 2003 Rate	August 29, 2006 Rate	Sept 1, 2008 Rate	March 1, 2013 Rate	October 1, 2015 Rate (Effective with February Billing)	Variance to 2013	Percent to 2013	Variance to 1991	Percent to 1991
35,000	\$78.00	\$78.00	\$90.50	\$107.50	\$130.00	\$149.00	\$19.00	14.62%	\$71.00	91.03%
36,000	\$79.80	\$79.80	\$92.60	\$110.00	\$133.80	\$153.30	\$19.50	14.57%	\$73.50	92.11%
37,000	\$81.60	\$81.60	\$94.70	\$112.50	\$137.60	\$157.60	\$20.00	14.53%	\$76.00	93.14%
38,000	\$83.40	\$83.40	\$96.80	\$115.00	\$141.40	\$161.90	\$20.50	14.50%	\$78.50	94.12%
39,000	\$85.20	\$85.20	\$98.90	\$117.50	\$145.20	\$166.20	\$21.00	14.46%	\$81.00	95.07%
40,000	\$87.00	\$87.00	\$101.00	\$120.00	\$149.00	\$170.50	\$21.50	14.43%	\$83.50	95.98%
41,000	\$88.80	\$88.80	\$103.10	\$122.50	\$152.80	\$174.80	\$22.00	14.40%	\$86.00	96.85%
42,000	\$90.60	\$90.60	\$105.20	\$125.00	\$156.60	\$179.10	\$22.50	14.37%	\$88.50	97.68%
43,000	\$92.40	\$92.40	\$107.30	\$127.50	\$160.40	\$183.40	\$23.00	14.34%	\$91.00	98.48%
44,000	\$94.20	\$94.20	\$109.40	\$130.00	\$164.20	\$187.70	\$23.50	14.31%	\$93.50	99.26%
45,000	\$96.00	\$96.00	\$111.50	\$132.50	\$168.00	\$192.00	\$24.00	14.29%	\$96.00	100.00%
46,000	\$97.80	\$97.80	\$113.60	\$135.00	\$171.80	\$196.30	\$24.50	14.26%	\$98.50	100.72%
47,000	\$99.60	\$99.60	\$115.70	\$137.50	\$175.60	\$200.60	\$25.00	14.24%	\$101.00	101.41%
48,000	\$101.40	\$101.40	\$117.80	\$140.00	\$179.40	\$204.90	\$25.50	14.21%	\$103.50	102.07%
49,000	\$103.20	\$103.20	\$119.90	\$142.50	\$183.20	\$209.20	\$26.00	14.19%	\$106.00	102.71%
50,000	\$105.00	\$105.00	\$122.00	\$145.00	\$187.00	\$213.50	\$26.50	14.17%	\$108.50	103.33%
51,000	\$107.40	\$107.40	\$124.80	\$148.50	\$190.80	\$217.80	\$27.00	14.15%	\$110.40	102.79%
52,000	\$109.80	\$109.80	\$127.60	\$152.00	\$194.60	\$222.10	\$27.50	14.13%	\$112.30	102.28%
53,000	\$112.20	\$112.20	\$130.40	\$155.50	\$198.40	\$226.40	\$28.00	14.11%	\$114.20	101.78%
54,000	\$114.60	\$114.60	\$133.20	\$159.00	\$202.20	\$230.70	\$28.50	14.09%	\$116.10	101.31%
55,000	\$117.00	\$117.00	\$136.00	\$162.50	\$206.00	\$235.00	\$29.00	14.08%	\$118.00	100.85%
56,000	\$119.40	\$119.40	\$138.80	\$166.00	\$209.80	\$239.30	\$29.50	14.06%	\$119.90	100.42%
57,000	\$121.80	\$121.80	\$141.60	\$169.50	\$213.60	\$243.60	\$30.00	14.04%	\$121.80	100.00%
58,000	\$124.20	\$124.20	\$144.40	\$173.00	\$217.40	\$247.90	\$30.50	14.03%	\$123.70	99.60%
59,000	\$126.60	\$126.60	\$147.20	\$176.50	\$221.20	\$252.20	\$31.00	14.01%	\$125.60	99.21%
60,000	\$129.00	\$129.00	\$150.00	\$180.00	\$225.00	\$256.50	\$31.50	14.00%	\$127.50	98.84%
61,000	\$131.40	\$131.40	\$152.80	\$183.50	\$228.80	\$260.80	\$32.00	13.99%	\$129.40	98.48%
62,000	\$133.80	\$133.80	\$155.60	\$187.00	\$232.60	\$265.10	\$32.50	13.97%	\$131.30	98.13%
63,000	\$136.20	\$136.20	\$158.40	\$190.50	\$236.40	\$269.40	\$33.00	13.96%	\$133.20	97.80%
64,000	\$138.60	\$138.60	\$161.20	\$194.00	\$240.20	\$273.70	\$33.50	13.95%	\$135.10	97.47%
65,000	\$141.00	\$141.00	\$164.00	\$197.50	\$244.00	\$278.00	\$34.00	13.93%	\$137.00	97.16%
66,000	\$143.40	\$143.40	\$166.80	\$201.00	\$247.80	\$282.30	\$34.50	13.92%	\$138.90	96.86%
67,000	\$145.80	\$145.80	\$169.60	\$204.50	\$251.60	\$286.60	\$35.00	13.91%	\$140.80	96.57%
68,000	\$148.20	\$148.20	\$172.40	\$208.00	\$255.40	\$290.90	\$35.50	13.90%	\$142.70	96.29%
69,000	\$150.60	\$150.60	\$175.20	\$211.50	\$259.20	\$295.20	\$36.00	13.89%	\$144.60	96.02%

Historical Comparison
Commerical Water Rate Structure
July 2015

Consumption	July 1, 1991 Rate	June 1, 2003 Rate	August 29, 2006 Rate	Sept 1, 2008 Rate	March 1, 2013 Rate	October 1, 2015 Rate (Effective with February Billing)	Variance to 2013	Percent to 2013	Variance to 1991	Percent to 1991
70,000	\$153.00	\$153.00	\$178.00	\$215.00	\$263.00	\$299.50	\$36.50	13.88%	\$146.50	95.75%
71,000	\$155.40	\$155.40	\$180.80	\$218.50	\$266.80	\$303.80	\$37.00	13.87%	\$148.40	95.50%
72,000	\$157.80	\$157.80	\$183.60	\$222.00	\$270.60	\$308.10	\$37.50	13.86%	\$150.30	95.25%
73,000	\$160.20	\$160.20	\$186.40	\$225.50	\$274.40	\$312.40	\$38.00	13.85%	\$152.20	95.01%
74,000	\$162.60	\$162.60	\$189.20	\$229.00	\$278.20	\$316.70	\$38.50	13.84%	\$154.10	94.77%
75,000	\$165.00	\$165.00	\$192.00	\$232.50	\$282.00	\$321.00	\$39.00	13.83%	\$156.00	94.55%
76,000	\$167.40	\$167.40	\$194.80	\$236.00	\$285.80	\$325.30	\$39.50	13.82%	\$157.90	94.32%
77,000	\$169.80	\$169.80	\$197.60	\$239.50	\$289.60	\$329.60	\$40.00	13.81%	\$159.80	94.11%
78,000	\$172.20	\$172.20	\$200.40	\$243.00	\$293.40	\$333.90	\$40.50	13.80%	\$161.70	93.90%
79,000	\$174.60	\$174.60	\$203.20	\$246.50	\$297.20	\$338.20	\$41.00	13.80%	\$163.60	93.70%
80,000	\$177.00	\$177.00	\$206.00	\$250.00	\$301.00	\$342.50	\$41.50	13.79%	\$165.50	93.50%
81,000	\$179.40	\$179.40	\$208.80	\$253.50	\$304.80	\$346.80	\$42.00	13.78%	\$167.40	93.31%
82,000	\$181.80	\$181.80	\$211.60	\$257.00	\$308.60	\$351.10	\$42.50	13.77%	\$169.30	93.12%
83,000	\$184.20	\$184.20	\$214.40	\$260.50	\$312.40	\$355.40	\$43.00	13.76%	\$171.20	92.94%
84,000	\$186.60	\$186.60	\$217.20	\$264.00	\$316.20	\$359.70	\$43.50	13.76%	\$173.10	92.77%
85,000	\$189.00	\$189.00	\$220.00	\$267.50	\$320.00	\$364.00	\$44.00	13.75%	\$175.00	92.59%
86,000	\$191.40	\$191.40	\$222.80	\$271.00	\$323.80	\$368.30	\$44.50	13.74%	\$176.90	92.42%
87,000	\$193.80	\$193.80	\$225.60	\$274.50	\$327.60	\$372.60	\$45.00	13.74%	\$178.80	92.26%
88,000	\$196.20	\$196.20	\$228.40	\$278.00	\$331.40	\$376.90	\$45.50	13.73%	\$180.70	92.10%
89,000	\$198.60	\$198.60	\$231.20	\$281.50	\$335.20	\$381.20	\$46.00	13.72%	\$182.60	91.94%
90,000	\$201.00	\$201.00	\$234.00	\$285.00	\$339.00	\$385.50	\$46.50	13.72%	\$184.50	91.79%
91,000	\$203.40	\$203.40	\$236.80	\$288.50	\$342.80	\$389.80	\$47.00	13.71%	\$186.40	91.64%
92,000	\$205.80	\$205.80	\$239.60	\$292.00	\$346.60	\$394.10	\$47.50	13.70%	\$188.30	91.50%
93,000	\$208.20	\$208.20	\$242.40	\$295.50	\$350.40	\$398.40	\$48.00	13.70%	\$190.20	91.35%
94,000	\$210.60	\$210.60	\$245.20	\$299.00	\$354.20	\$402.70	\$48.50	13.69%	\$192.10	91.22%
95,000	\$213.00	\$213.00	\$248.00	\$302.50	\$358.00	\$407.00	\$49.00	13.69%	\$194.00	91.08%
96,000	\$215.40	\$215.40	\$250.80	\$306.00	\$361.80	\$411.30	\$49.50	13.68%	\$195.90	90.95%
97,000	\$217.80	\$217.80	\$253.60	\$309.50	\$365.60	\$415.60	\$50.00	13.68%	\$197.80	90.82%
98,000	\$220.20	\$220.20	\$256.40	\$313.00	\$369.40	\$419.90	\$50.50	13.67%	\$199.70	90.69%
99,000	\$222.60	\$222.60	\$259.20	\$316.50	\$373.20	\$424.20	\$51.00	13.67%	\$201.60	90.57%
100,000	\$225.00	\$225.00	\$262.00	\$320.00	\$377.00	\$428.50	\$51.50	13.66%	\$203.50	90.44%
101,000	\$227.40	\$227.40	\$264.80	\$323.50	\$380.80	\$432.80	\$52.00	13.66%	\$205.40	90.33%
102,000	\$229.80	\$229.80	\$267.60	\$327.00	\$384.60	\$437.10	\$52.50	13.65%	\$207.30	90.21%
103,000	\$232.20	\$232.20	\$270.40	\$330.50	\$388.40	\$441.40	\$53.00	13.65%	\$209.20	90.09%
104,000	\$234.60	\$234.60	\$273.20	\$334.00	\$392.20	\$445.70	\$53.50	13.64%	\$211.10	89.98%

Historical Comparison
Commerical Water Rate Structure
July 2015

Consumption	July 1, 1991 Rate	June 1, 2003 Rate	August 29, 2006 Rate	Sept 1, 2008 Rate	March 1, 2013 Rate	October 1, 2015 Rate (Effective with February Billing)	Variance to 2013	Percent to 2013	Variance to 1991	Percent to 1991
105,000	\$237.00	\$237.00	\$276.00	\$337.50	\$396.00	\$450.00	\$54.00	13.64%	\$213.00	89.87%
106,000	\$239.40	\$239.40	\$278.80	\$341.00	\$399.80	\$454.30	\$54.50	13.63%	\$214.90	89.77%
107,000	\$241.80	\$241.80	\$281.60	\$344.50	\$403.60	\$458.60	\$55.00	13.63%	\$216.80	89.66%
108,000	\$244.20	\$244.20	\$284.40	\$348.00	\$407.40	\$462.90	\$55.50	13.62%	\$218.70	89.56%
109,000	\$246.60	\$246.60	\$287.20	\$351.50	\$411.20	\$467.20	\$56.00	13.62%	\$220.60	89.46%
110,000	\$249.00	\$249.00	\$290.00	\$355.00	\$415.00	\$471.50	\$56.50	13.61%	\$222.50	89.36%
111,000	\$251.40	\$251.40	\$292.80	\$358.50	\$418.80	\$475.80	\$57.00	13.61%	\$224.40	89.26%
112,000	\$253.80	\$253.80	\$295.60	\$362.00	\$422.60	\$480.10	\$57.50	13.61%	\$226.30	89.16%
113,000	\$256.20	\$256.20	\$298.40	\$365.50	\$426.40	\$484.40	\$58.00	13.60%	\$228.20	89.07%
114,000	\$258.60	\$258.60	\$301.20	\$369.00	\$430.20	\$488.70	\$58.50	13.60%	\$230.10	88.98%
115,000	\$261.00	\$261.00	\$304.00	\$372.50	\$434.00	\$493.00	\$59.00	13.59%	\$232.00	88.89%
116,000	\$263.40	\$263.40	\$306.80	\$376.00	\$437.80	\$497.30	\$59.50	13.59%	\$233.90	88.80%
117,000	\$265.80	\$265.80	\$309.60	\$379.50	\$441.60	\$501.60	\$60.00	13.59%	\$235.80	88.71%
118,000	\$268.20	\$268.20	\$312.40	\$383.00	\$445.40	\$505.90	\$60.50	13.58%	\$237.70	88.63%
119,000	\$270.60	\$270.60	\$315.20	\$386.50	\$449.20	\$510.20	\$61.00	13.58%	\$239.60	88.54%
120,000	\$273.00	\$273.00	\$318.00	\$390.00	\$453.00	\$514.50	\$61.50	13.58%	\$241.50	88.46%
121,000	\$275.40	\$275.40	\$320.80	\$393.50	\$456.80	\$518.80	\$62.00	13.57%	\$243.40	88.38%
122,000	\$277.80	\$277.80	\$323.60	\$397.00	\$460.60	\$523.10	\$62.50	13.57%	\$245.30	88.30%
123,000	\$280.20	\$280.20	\$326.40	\$400.50	\$464.40	\$527.40	\$63.00	13.57%	\$247.20	88.22%
124,000	\$282.60	\$282.60	\$329.20	\$404.00	\$468.20	\$531.70	\$63.50	13.56%	\$249.10	88.15%
125,000	\$285.00	\$285.00	\$332.00	\$407.50	\$472.00	\$536.00	\$64.00	13.56%	\$251.00	88.07%
126,000	\$287.40	\$287.40	\$334.80	\$411.00	\$475.80	\$540.30	\$64.50	13.56%	\$252.90	88.00%
127,000	\$289.80	\$289.80	\$337.60	\$414.50	\$479.60	\$544.60	\$65.00	13.55%	\$254.80	87.92%
128,000	\$292.20	\$292.20	\$340.40	\$418.00	\$483.40	\$548.90	\$65.50	13.55%	\$256.70	87.85%
129,000	\$294.60	\$294.60	\$343.20	\$421.50	\$487.20	\$553.20	\$66.00	13.55%	\$258.60	87.78%
130,000	\$297.00	\$297.00	\$346.00	\$425.00	\$491.00	\$557.50	\$66.50	13.54%	\$260.50	87.71%
131,000	\$299.40	\$299.40	\$348.80	\$428.50	\$494.80	\$561.80	\$67.00	13.54%	\$262.40	87.64%
132,000	\$301.80	\$301.80	\$351.60	\$432.00	\$498.60	\$566.10	\$67.50	13.54%	\$264.30	87.57%
133,000	\$304.20	\$304.20	\$354.40	\$435.50	\$502.40	\$570.40	\$68.00	13.54%	\$266.20	87.51%
134,000	\$306.60	\$306.60	\$357.20	\$439.00	\$506.20	\$574.70	\$68.50	13.53%	\$268.10	87.44%
135,000	\$309.00	\$309.00	\$360.00	\$442.50	\$510.00	\$579.00	\$69.00	13.53%	\$270.00	87.38%
136,000	\$311.40	\$311.40	\$362.80	\$446.00	\$513.80	\$583.30	\$69.50	13.53%	\$271.90	87.32%
137,000	\$313.80	\$313.80	\$365.60	\$449.50	\$517.60	\$587.60	\$70.00	13.52%	\$273.80	87.25%
138,000	\$316.20	\$316.20	\$368.40	\$453.00	\$521.40	\$591.90	\$70.50	13.52%	\$275.70	87.19%
139,000	\$318.60	\$318.60	\$371.20	\$456.50	\$525.20	\$596.20	\$71.00	13.52%	\$277.60	87.13%

Historical Comparison
Commerical Water Rate Structure
July 2015

Consumption	July 1, 1991 Rate	June 1, 2003 Rate	August 29, 2006 Rate	Sept 1, 2008 Rate	March 1, 2013 Rate	October 1, 2015 Rate (Effective with February Billing)	Variance to 2013	Percent to 2013	Variance to 1991	Percent to 1991
140,000	\$321.00	\$321.00	\$374.00	\$460.00	\$529.00	\$600.50	\$71.50	13.52%	\$279.50	87.07%
141,000	\$323.40	\$323.40	\$376.80	\$463.50	\$532.80	\$604.80	\$72.00	13.51%	\$281.40	87.01%
142,000	\$325.80	\$325.80	\$379.60	\$467.00	\$536.60	\$609.10	\$72.50	13.51%	\$283.30	86.96%
143,000	\$328.20	\$328.20	\$382.40	\$470.50	\$540.40	\$613.40	\$73.00	13.51%	\$285.20	86.90%
144,000	\$330.60	\$330.60	\$385.20	\$474.00	\$544.20	\$617.70	\$73.50	13.51%	\$287.10	86.84%
145,000	\$333.00	\$333.00	\$388.00	\$477.50	\$548.00	\$622.00	\$74.00	13.50%	\$289.00	86.79%
146,000	\$335.40	\$335.40	\$390.80	\$481.00	\$551.80	\$626.30	\$74.50	13.50%	\$290.90	86.73%
147,000	\$337.80	\$337.80	\$393.60	\$484.50	\$555.60	\$630.60	\$75.00	13.50%	\$292.80	86.68%
148,000	\$340.20	\$340.20	\$396.40	\$488.00	\$559.40	\$634.90	\$75.50	13.50%	\$294.70	86.63%
149,000	\$342.60	\$342.60	\$399.20	\$491.50	\$563.20	\$639.20	\$76.00	13.49%	\$296.60	86.57%
150,000	\$345.00	\$345.00	\$402.00	\$495.00	\$567.00	\$643.50	\$76.50	13.49%	\$298.50	86.52%
200,000	\$465.00	\$465.00	\$542.00	\$670.00	\$757.00	\$858.50	\$101.50	13.41%	\$393.50	84.62%
250,000	\$585.00	\$585.00	\$682.00	\$845.00	\$947.00	\$1,073.50	\$126.50	13.36%	\$488.50	83.50%
500,000	\$1,185.00	\$1,185.00	\$1,382.00	\$1,720.00	\$1,897.00	\$2,148.50	\$251.50	13.26%	\$963.50	81.31%
750,000	\$1,785.00	\$1,785.00	\$2,082.00	\$2,595.00	\$2,847.00	\$3,223.50	\$376.50	13.22%	\$1,438.50	80.59%
1,000,000	\$2,385.00	\$2,385.00	\$2,782.00	\$3,470.00	\$3,797.00	\$4,298.50	\$501.50	13.21%	\$1,913.50	80.23%
1,500,000	\$3,585.00	\$3,585.00	\$4,182.00	\$5,220.00	\$5,697.00	\$6,448.50	\$751.50	13.19%	\$2,863.50	79.87%
2,000,000	\$4,785.00	\$4,785.00	\$5,582.00	\$6,970.00	\$7,597.00	\$8,598.50	\$1,001.50	13.18%	\$3,813.50	79.70%

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Town of Shrewsbury
MASSACHUSETTS 01545-5398

August 5, 2014

To: Board of Selectmen

From: Daniel J. Morgado

Re: Water Rates

It is again necessary for the Board to consider the current rate structure for the water utility. The last time the Board reviewed this matter was in August/September of 2012 when new rates were adopted. I reference memos to the Board dated August 1, 2012, September 5, 2012 and September 7, 2012, to provide a context in which the rates were adjusted last time. I also reference my memo to you dated July 18, 2014, on the subject of our recent strategic planning exercise.

The current rate structure has generated the following revenue streams and has resulted in the following cash balances on hand:

Revenue Source	FY 2014 Actual	FY 2013 Actual	FY 2012 Actual	FY 2011 Actual	FY 2010 Actual
Water Rates	\$3,219,038	\$3,025,683	\$2,965,611	\$3,177,472	\$3,102,282
Backflow Inspection Fees	\$42,200	\$26,330	\$16,100	\$1,571	\$0
Connection Fees/Charges	\$297,408	\$296,011	\$235,181	\$303,143	\$291,214
Liens/Penalties & Interest	\$232,552	\$187,743	\$196,614	\$172,555	\$143,522
Total Revenue	3,791,138	\$3,535,767	\$3,413,506	\$3,654,741	\$3,537,018
Balance Water Conservation 6/30	\$249,023	\$217,158	\$171,672	\$117,461	\$130,484
Balance Water System Improvements 6/30	\$820,418	\$2,686,023	\$2,771,023	\$3,005,300	\$2,034,160
Total Reserves	\$1,069,441	\$2,903,181	\$2,942,695	\$3,122,761	\$2,164,644

Outstanding debt on the water utility is \$541,876 for the new Masonic Water Tank (four years remaining to be retired in FY 2018) and \$662,325 for Harrington Avenue/Rte 9 (nine years remaining to be retired in FY 2023).

Current Water Department O&M and debt service is running at:

Charge Area	FY 2014 Actual	FY 2013 Actual	FY 2012 Actual	FY 2011 Actual
Operating Budget*	\$1,727,171	\$1,774,027	\$1,729,342	\$1,794,388
Debt Service*	\$228,173	\$174,348	\$152,813	\$156,563
Indirect Costs*	\$465,142	\$436,588	\$423,399	\$362,028
Capital Budget	\$185,000	\$200,000	\$45,000	\$45,000
Warrant Articles	\$2,061,000	\$2,468,000	\$2,210,500	\$1,095,000
Total Expenditures	\$5,690,561	\$5,052,963	\$4,561,054	\$3,452,979
Available = Revenue Less O&M*	\$1,370,652	\$1,150,804	\$1,107,952	\$1,329,165

Our equipment and infrastructure needs over the next few years should be \$1 Million or so for water line work annually with \$500,000 to \$1 Million for one off type projects such as equipment, vehicles, station improvements, engineering studies and design, technology improvements and the like.

Accordingly, we need a rate structure that will generate \$1.5 Million to \$2.0 Million annually above our normal O & M expenses which is not the case so a rate increase must be considered.

By example, at the last Annual Town Meeting, the following capital investments were authorized:

Art	Project	Amount	Comment
8	Upgrade Water Fixtures	\$20,000	One-off expense
8	Purchase Excavator	\$135,000	Expectation that \$40,000-\$60,000 spent annually on rolling stock
26	Meter Replacement	1,000,000	Third of four appropriations that will result in 100% new meters
27	Water Line Replacement	\$1,275,000	\$1 Million could be spent each year for the next several years on water lines, wells, stations & treatment plant improvements
	Total Capital Investment	\$2,430,000	

I expect that for the May 2015, Annual Town Meeting that spending on capital items will be moderated to allow for our reserves to improve. You will note that the reserve position of the water utility has been reduced by \$2 Million since FY 2011.

While our current rate structure can support ongoing O & M and some amount of capital improvements, it certainly cannot support an upgrade to our treatment facility which is now being considered to address the ongoing manganese matter that was outlined in Mr. Tozeski's memo of June 20, 2014.

I note that in addition to ongoing capital needs, operation and maintenance costs will be affected by sharp increases in energy, chemicals and other materials and supplies depending on what happens globally in the way of recession, inflation and/or commodity interruptions and other market distortions.

The recent history of the water rate structure is as follows:

Rate	Range	July 1, 1991	June 1, 2003	May 1, 2006	May 1, 2008	Nov 1, 2012
Residential & Condominiums	Minimum (0 to 5,000 Gallons)	\$24.00	\$15.00	\$16.50	\$19.00	
	5,001 to 25,000 Gallons/Thousand	\$1.80	\$2.50	\$2.85	\$3.20	
	25,001 to 50,000 Gallons/Thousand	\$1.80	\$4.50	\$5.20	\$6.00	
	Over 50,000 Gallons/Thousand	\$2.40	\$5.50	\$6.35	\$7.75	
	Minimum (0 to 5,000 Gallons)					\$21.00
	5,001 to 25,000 Gallons/Thousand					\$3.40
	25,001 to 60,000 Gallons/Thousand					\$6.30
	Over 60,000 Gallons/Thousand					\$10.00
Commercial	Minimum (0 to 5,000 Gallons)	\$24.00	\$24.00	\$27.50	\$32.50	\$36.00
	5,001 to 25,000 Gallons/Thousand	\$1.80	\$1.80	\$2.10	\$2.50	\$2.80
	25,001 to 50,000 Gallons/Thousand	\$1.80	\$1.80	\$2.10	\$2.50	\$3.80
	Over 50,000 Gallons/Thousand	\$2.40	\$2.40	\$2.80	\$3.50	\$3.80
Apartments	Flat Rate/Thousand	\$3.00	\$3.00	\$3.45	\$4.00	\$4.25
Residential Lawns	Minimum (0 to 5,000 Gallons)	\$24.00	\$24.00			
	5,001 to 25,000 Gallons/Thousand	\$1.80	\$1.80			
	25,001 to 50,000 Gallons/Thousand	\$1.80	\$1.80			
	Over 50,000 Gallons/Thousand	\$2.40	\$2.40			
	Minimum			N/A	\$19.00	\$21.00
	0 to 60,000 Gallons/Thousand			\$4.50	\$5.75	\$6.30
	over 60,001 Gallons/Thousand			\$4.75	\$6.00	\$10.00
Residential Summer	Flat Rate/Thousand	\$3.00	\$3.00			
	Minimum			N/A	\$19.00	\$21.00
	0 to 60,000 Gallons/Thousand			\$4.50	\$5.75	\$6.30
	over 60,001 Gallons/Thousand			\$4.75	\$6.00	\$10.00

Rate	Range	July 1, 1991	June 1, 2003	May 1, 2006	May 1, 2008	Nov 1, 2012
Apartment Lawns	Flat Rate/Thousand	\$3.00	\$3.00			
	Minimum			N/A	\$19.00	\$21.00
	0 to 60,000 Gallons/Thousand			\$4.50	\$5.75	\$6.30
	over 60,001 Gallons/Thousand			\$4.75	\$6.00	\$10.00
Commercial Lawns	Flat Rate/Thousand	\$3.00	\$3.00			
	Minimum			N/A	\$19.00	\$21.00
	0 to 60,000 Gallons/Thousand			\$4.50	\$5.75	\$6.30
	over 60,001 Gallons/Thousand			\$4.75	\$6.00	\$10.00
Condominium Lawns	Flat Rate/Thousand	\$3.00	\$3.00			
	Minimum			N/A	\$19.00	\$21.00
	0 to 60,000 Gallons/Thousand			\$4.50	\$5.75	\$6.30
	over 60,001 Gallons/Thousand			\$4.75	\$6.00	\$10.00
School & Municipal	Minimum (0 to 5,000 Gallons)	\$24.00	\$24.00	\$24.00	\$24.00	\$36.00
	5,001 to 50,000 Gallons/Thousand	\$1.80	\$1.80	\$1.80	\$1.80	\$2.30
	Over 50,000 Gallons/Thousand	\$2.40	\$2.40	\$2.40	\$2.40	\$3.40
School & Municipal Lawns	Flat Rate/Thousand	\$3.00	\$3.00	\$3.00	\$3.00	\$3.50

The four main revenue streams from the rate structure only in FY 2014 generated:

Rate	# of Bills	Consumption	Value	Cost/Thousand 2014	Cost/Thousand 2012	Change
Residential	38,581	559,076,636	\$2,247,438	\$4.02	\$3.75	\$0.27
Commercial	2,034	116,842,975	\$477,538	\$4.08	\$3.62	\$0.46
Condominium	3,153	27,954,130	\$116,865	\$4.18	\$3.79	\$0.39
Apartment	618	100,159,296	\$425,677	\$4.25	\$4.00	\$0.25
	44,386	804,033,037	\$3,267,518	\$4.06	\$3.76	\$0.30

The residential customer is the primary revenue source for the water utility consuming nearly 70% of the water delivered through the meter and paying nearly 69% of the cost. Residential consumption has stabilized after falling greatly from the FY 2004 when the residential rate accounted for 644,306,471 gallons. In FY 2012 the amount that passed through residential meters was 557,693,042. The 559,076,636 gallons sold in the FY 2014 timeframe is an increase of only 0.3%.

In studying the distribution of residential rate bills over FY 2014, I have learned the following:

- The median bill has not changed from FY 2012 and remains 12,400 gallons.
- 17% of our residential customers are still paying less today for water than they paid in 1991.
- The median residential rate payer is paying \$32 more per year in 2014 than was paid in 1991.
- The average quarterly bill is 14,390 gallons (14,580 gallons in FY 2012). In the past, the average bill was as high as 17,000 gallons.
- The typical residential rate payer remains a predominately low consumption user with 48% of the quarterly bills issued at 12,000 gallons or less. 30% of the water consumed via the residential rate is by less than 12% of our residential customers that purchase more than 23,000 gallons per quarter.

Some comparisons to the 2012 rate study:

Rate	# of Bills	FY 2012		FY 2014		
		Consumption	Value	# of Bills	Consumption	Value
Residential	38,183	557,693,042	\$2,087,634	38,581	559,076,636	\$2,247,438
Commercial	1,957	130,380,510	\$471,510	2,034	116,842,975	\$477,538
Condominium	3,018	26,008,572	\$98,683	3,153	27,954,130	\$116,865
Apartment	651	98,757,500	\$395,075	618	100,159,296	\$425,677
		812,839,624	\$3,052,902		804,033,037	\$3,267,518

Rate	Projected Increase		Change			
	Consumption	Value	Consumption	Value	Consumption	Value
Residential	\$168,276	8.06%	1,383,594	0.3%	\$159,804	7.65%
Commercial	\$49,340	10.46%	(13,537,535)	-10.4%	\$6,028	1.28%
Condominium	\$8,901	9.00%	1,945,558	7.5%	\$18,182	18.42%
Apartment	\$24,625	6.24%	1,401,796	1.4%	\$30,602	7.75%
	\$251,142		(8,806,587)	-1.1%	\$214,616	7.03%

The 2012 rate increase was projected to raise \$251,142. A total of \$214,616 was realized while the amount of water sold was reduced by just over 1%. Commercial consumption is down 10.38% (13.5 Million Gallons) with the UMass facility on South Street alone seeing a reduction of 6.7 Million Gallons in FY 2014 over FY 2012. We are in the process of looking at our top 100 commercial accounts to ascertain if we have any meter issues. Bill summaries for each of the rate codes are attached.

I have updated my last rate comparison from 2012 as follows:

Community	Annual Water Cost - April 2008 Survey*	Annual Water Cost - August 2012 Survey**	Annual Water Cost - August 2014 Survey***	Change Since 2008	Percent Since 2008
Natick	\$221	\$293	\$316	\$95	43.0%
Shrewsbury	\$266	\$300	\$322	\$56	21.1%
W. Boylston	\$297	\$342	\$342	\$45	15.2%
Hudson	\$290	\$298	\$365	\$75	25.9%
Worcester	\$313	\$341	\$397	\$84	26.8%
Milford	\$310	\$310	\$413	\$103	33.2%
Bellingham	\$252	\$351	\$422	\$170	67.5%
Douglas	\$371	N/A	\$430	\$59	15.9%
Ashland	\$436	\$398	\$484	\$48	11.0%
Grafton	\$461	\$461	\$484	\$23	5.0%
Westborough	\$367	\$367	\$503	\$136	37.1%
Holden	\$278	\$414	\$530	\$252	90.6%
Northborough	\$402	\$417	\$555	\$153	38.1%
Auburn+	\$399	\$399	\$576	\$177	44.4%
Millbury+	\$397	\$543	\$644	\$247	62.2%
Franklin	\$441	\$507	\$732	\$291	66.0%

Bills are based on consumption of 22,500 gals/quarter (90,000 Annual)

* Source: 2006 Massachusetts Water Rate Survey – Tighe & Bond
 ** Source: 2010 Massachusetts Water Rate Survey – Tighe & Bond
 *** Source: 2012 Massachusetts Water Rate Survey – Tighe & Bond
 + Website/Phone Call for 2014 Rate

In summary:

1. The 2012 rate increase is now generating \$1.3 Million annually above our O&M
2. Ideally we should be generating about \$2.0 Million annually above O&M
3. Commercial consumption compared to FY 2012 is off by 10.4%
4. 17% of the residential customer base is still paying less for water in 2014 than in 1991.
5. Shrewsbury's residential water rate is still among the lowest in the region

My suggestion is that no action be taken at this time and that this matter be reviewed next summer once an additional year is completed under the current rate structure and we have more information about any potential treatment plant upgrade(s).

I have attached to this memo a series of exhibits for your review.

Please advise with any questions.

Cc Board of Sewer Commissioners
Jeff Howland
Robert Tozeski
Mary Thompson
Thomas Gregory
John Decillis
Sharon Horne
Mary Budzinski

Referenced Materials:

August 1, 2012, memo to the Board of Selectmen - Re: Water Rates
September 5, 2012, memo the Board of Selectmen - Re: Water Rates
September 7, 2012, memo the Board of Selectmen - Re: Water Rates
June 20, 2014, memo to the Board of Selectmen - Re: Manganese Standards
July 18, 2014, memo to the Board of Selectmen - Re: Strategic Planning Exercise

Summary of Water Bills
FY 2014
Residential

Consumption Range	# of Bills	Bills Issued				Consumption			
		Cumulative	Percent	Cumulative	Consumption	Cumulative	Percent	Cumulative	
0 to 5000	5,047	5,047	13.09%	13.09%	15,085,612	15,085,612	2.72%	2.72%	
5001 to 6000	1,549	6,596	4.02%	17.11%	8,982,220	24,067,832	1.62%	4.34%	
6001 to 7000	1,692	8,288	4.39%	21.50%	11,518,900	35,586,732	2.08%	6.42%	
7001 to 8000	1,902	10,190	4.93%	26.44%	14,841,440	50,428,172	2.68%	9.09%	
8001 to 9000	2,049	12,239	5.32%	31.75%	18,042,120	68,470,292	3.25%	12.35%	
9001 to 10000	2,066	14,305	5.36%	37.11%	20,295,680	88,765,972	3.66%	16.00%	
10001 to 11000	2,185	16,490	5.67%	42.78%	23,627,640	112,393,612	4.26%	20.26%	
11001 to 12000	2,169	18,659	5.63%	48.41%	25,638,880	138,032,492	4.62%	24.89%	
12001 to 13000	2,072	20,731	5.38%	53.79%	26,573,030	164,605,522	4.79%	29.68%	
13001 to 14000	2,022	22,753	5.25%	59.03%	27,925,750	192,531,272	5.04%	34.71%	
14001 to 15000	1,903	24,656	4.94%	63.97%	28,180,870	220,712,142	5.08%	39.79%	
15001 to 16000	1,593	26,249	4.13%	68.10%	25,190,840	245,902,982	4.54%	44.34%	
16001 to 17000	1,506	27,755	3.91%	72.01%	25,316,360	271,219,342	4.56%	48.90%	
17001 to 18000	1,321	29,076	3.43%	75.44%	23,555,890	294,775,232	4.25%	53.15%	
18001 to 19000	1,122	30,198	2.91%	78.35%	21,120,770	315,896,002	3.81%	56.96%	
19001 to 20000	1,033	31,231	2.68%	81.03%	20,480,730	336,376,732	3.69%	60.65%	
20001 to 21000	912	32,143	2.37%	83.40%	19,013,733	355,390,465	3.43%	64.08%	
21001 to 22000	762	32,905	1.98%	85.37%	16,644,610	372,035,075	3.00%	67.08%	
22001 to 23000	672	33,577	1.74%	87.12%	15,346,030	387,381,105	2.77%	69.85%	
23001 to 24000	561	34,138	1.46%	88.57%	13,363,170	400,744,275	2.41%	72.25%	
24001 to 25000	539	34,677	1.40%	89.97%	13,389,930	414,134,205	2.41%	74.67%	
25001 to 26000	447	35,124	1.16%	91.13%	11,547,870	425,682,075	2.08%	76.75%	
26001 to 27000	374	35,498	0.97%	92.10%	10,042,280	435,724,355	1.81%	78.56%	
27001 to 28000	308	35,806	0.80%	92.90%	8,570,490	444,294,845	1.55%	80.11%	
28001 to 29000	292	36,098	0.76%	93.66%	8,421,140	452,715,985	1.52%	81.63%	
29001 to 30000	238	36,336	0.62%	94.27%	7,107,960	459,823,945	1.28%	82.91%	
30001 to 35000	821	37,157	2.13%	96.40%	26,695,860	486,519,805	4.81%	87.72%	
35001 to 40000	488	37,645	1.27%	97.67%	18,399,161	504,918,966	3.32%	91.04%	
40001 to 45000	277	37,922	0.72%	98.39%	11,837,110	516,756,076	2.13%	93.17%	
45001 to 50000	178	38,100	0.46%	98.85%	8,494,920	525,250,996	1.53%	94.70%	
50001 to 60000	223	38,323	0.58%	99.43%	12,213,190	537,464,186	2.20%	96.91%	
60001 to 70000	110	38,433	0.29%	99.71%	7,165,100	544,629,286	1.29%	98.20%	

Summary of Water Bills
FY 2014
Residential

Consumption Range	# of Bills	Bills Issued				Consumption			
		Cumulative	Percent	Cumulative	Consumption	Cumulative	Percent	Cumulative	
70001 to 80000	51	38,484	0.13%	99.85%	3,847,400	548,476,686	0.69%	98.89%	
80001 to 90000	32	38,516	0.08%	99.93%	2,683,170	551,159,856	0.48%	99.38%	
90001 to 100000	20	38,536	0.05%	99.98%	1,899,200	553,059,056	0.34%	99.72%	
100001 to 125000	27	38,563	0.07%	100.05%	2,994,550	556,053,606	0.54%	100.26%	
125001 to 150000	11	38,574	0.03%	100.08%	1,456,500	557,510,106	0.26%	100.52%	
100001 to 999999	7	38,543	0.02%	100.00%	1,566,530	554,625,586	0.28%	100.00%	
0 to 5000	5,047	13.08%	13.08%		15,085,612	2.70%	2.70%		
5001 to 25000	29,630	76.80%	89.88%		399,048,593	71.38%	74.07%		
25001 to 60000	3,646	9.45%	99.33%		123,329,981	22.06%	96.13%		
60001 to 999999	258	0.67%	100.00%		21,612,450	3.87%	100.00%		
	38,581				559,076,636				
	19,291								
				Average Bill	14,390	Bill Amount	\$2,247,438.10		
				Median Bill	12,400	Gallons Consumed	559,076,636		
						Per Thousand Gal	\$4.02		

Summary of Water Bills
FY 2014
Commercial

Consumption Range	# of Bills	Bills Issued				Consumption			
		Cumulative	Percent	Cumulative	Consumption	Cumulative	Percent	Cumulative	
0 to 5000	685	685	33.68%	33.68%	1,393,485	1,393,485	1.19%	1.19%	
5001 to 6000	67	752	3.29%	36.97%	389,150	1,782,635	0.33%	1.52%	
6001 to 7000	55	807	2.70%	39.68%	371,520	2,154,155	0.32%	1.84%	
7001 to 8000	57	864	2.80%	42.48%	442,470	2,596,625	0.38%	2.22%	
8001 to 9000	45	909	2.21%	44.69%	394,540	2,991,165	0.34%	2.56%	
9001 to 10000	50	959	2.46%	47.15%	490,860	3,482,025	0.42%	2.98%	
10001 to 15000	178	1,137	8.75%	55.90%	2,247,450	5,729,475	1.92%	4.90%	
15001 to 25000	223	1,360	10.96%	66.86%	4,467,260	10,196,735	3.82%	8.72%	
25001 to 30000	80	1,440	3.93%	70.80%	2,247,050	12,443,785	1.92%	10.64%	
30001 to 35000	42	1,482	2.06%	72.86%	1,377,320	13,821,105	1.18%	11.82%	
35001 to 40000	42	1,524	2.06%	74.93%	1,619,050	15,440,155	1.38%	13.20%	
40001 to 45000	47	1,571	2.31%	77.24%	2,034,680	17,474,835	1.74%	14.94%	
45001 to 50000	40	1,611	1.97%	79.20%	1,898,040	19,372,875	1.62%	16.56%	
50001 to 60000	40	1,651	1.97%	81.17%	2,245,120	21,617,995	1.92%	18.48%	
60001 to 70000	37	1,688	1.82%	82.99%	2,447,390	24,065,385	2.09%	20.58%	
70001 to 80000	47	1,735	2.31%	85.30%	3,560,870	27,626,255	3.04%	23.62%	
80001 to 90000	32	1,767	1.57%	86.87%	2,709,880	30,336,135	2.32%	25.94%	
90001 to 100000	30	1,797	1.47%	88.35%	2,870,390	33,206,525	2.45%	28.39%	
100001 to 125000	49	1,846	2.41%	90.76%	5,532,600	38,739,125	4.73%	33.12%	
125001 to 150000	25	1,871	1.23%	91.99%	3,465,350	42,204,475	2.96%	36.09%	
150001 to 200000	39	1,910	1.92%	93.90%	6,771,080	48,975,555	5.79%	41.88%	
200001 to 999999	124	2,034	6.10%	100.00%	67,980,420	116,955,975	58.12%	100.00%	
0 to 5000	685	33.68%	33.68%		1,393,485	1.19%	1.19%		
5001 to 25000	675	33.19%	66.86%		8,803,250	7.53%	8.72%		
25001 to 50000	251	12.34%	79.20%		9,176,140	7.85%	16.56%		
50001 to 999999	423	20.80%	100.00%		97,583,100	83.44%	100.00%		
	2,034				116,955,975				
				Average Bill	57,500	Bill Amount	\$477,537.77		
				Median Bill	11,700	Gallons Consumed	116,955,975		
						Per Thousand Gal	\$4.08		

Summary of Water Bills
FY 2014
Condominiums

Consumption Range			# of Bills	Bills Issued				Consumption			
				Cumulative	Percent	Cumulative	Consumption	Cumulative	Percent	Cumulative	
0	to	5000	941	941	29.84%	29.84%	2,985,810	2,985,810	10.68%	10.68%	
5001	to	6000	287	1,228	9.10%	38.95%	1,676,140	4,661,950	6.00%	16.68%	
6001	to	7000	266	1,494	8.44%	47.38%	1,819,410	6,481,360	6.51%	23.19%	
7001	to	8000	212	1,706	6.72%	54.11%	1,663,860	8,145,220	5.95%	29.14%	
8001	to	9000	221	1,927	7.01%	61.12%	1,956,950	10,102,170	7.00%	36.14%	
9001	to	10000	206	2,133	6.53%	67.65%	2,028,470	12,130,640	7.26%	43.39%	
10001	to	11000	186	2,319	5.90%	73.55%	2,021,530	14,152,170	7.23%	50.63%	
11001	to	12000	167	2,486	5.30%	78.85%	1,980,030	16,132,200	7.08%	57.71%	
12001	to	13000	128	2,614	4.06%	82.91%	1,643,460	17,775,660	5.88%	63.59%	
13001	to	14000	106	2,720	3.36%	86.27%	1,470,960	19,246,620	5.26%	68.85%	
14001	to	15000	88	2,808	2.79%	89.06%	1,307,320	20,553,940	4.68%	73.53%	
15001	to	16000	66	2,874	2.09%	91.15%	1,041,170	21,595,110	3.72%	77.25%	
16001	to	17000	54	2,928	1.71%	92.86%	912,470	22,507,580	3.26%	80.52%	
17001	to	18000	51	2,979	1.62%	94.48%	910,970	23,418,550	3.26%	83.77%	
18001	to	19000	37	3,016	1.17%	95.65%	697,700	24,116,250	2.50%	86.27%	
19001	to	20000	24	3,040	0.76%	96.42%	475,350	24,591,600	1.70%	87.97%	
20001	to	21000	26	3,066	0.82%	97.24%	542,800	25,134,400	1.94%	89.91%	
21001	to	22000	17	3,083	0.54%	97.78%	370,500	25,504,900	1.33%	91.24%	
22001	to	23000	12	3,095	0.38%	98.16%	274,400	25,779,300	0.98%	92.22%	
23001	to	24000	10	3,105	0.32%	98.48%	237,100	26,016,400	0.85%	93.07%	
24001	to	25000	8	3,113	0.25%	98.73%	199,400	26,215,800	0.71%	93.78%	
25001	to	26000	5	3,118	0.16%	98.89%	127,900	26,343,700	0.46%	94.24%	
26001	to	27000	5	3,123	0.16%	99.05%	134,900	26,478,600	0.48%	94.72%	
27001	to	28000	4	3,127	0.13%	99.18%	110,800	26,589,400	0.40%	95.12%	
28001	to	29000	1	3,128	0.03%	99.21%	29,000	26,618,400	0.10%	95.22%	
29001	to	30000	3	3,131	0.10%	99.30%	89,810	26,708,210	0.32%	95.54%	
30001	to	35000	7	3,138	0.22%	99.52%	226,770	26,934,980	0.81%	96.35%	
35001	to	40000	2	3,140	0.06%	99.59%	77,600	27,012,580	0.28%	96.63%	
40001	to	45000	3	3,143	0.10%	99.68%	128,700	27,141,280	0.46%	97.09%	
45001	to	50000	1	3,144	0.03%	99.71%	49,000	27,190,280	0.18%	97.27%	
50001	to	60000	1	3,145	0.03%	99.75%	56,000	27,246,280	0.20%	97.47%	

Summary of Water Bills
FY 2014
Condominiums

Consumption Range			# of Bills	Bills Issued			Consumption			
				Cumulative	Percent	Cumulative	Consumption	Cumulative	Percent	Cumulative
60001	to	70000	1	3,146	0.03%	99.78%	70,000	27,316,280	0.25%	97.72%
70001	to	80000	2	3,148	0.06%	99.84%	74,150	27,390,430	0.27%	97.98%
80001	to	90000	1	3,149	0.03%	99.87%	81,000	27,471,430	0.29%	98.27%
90001	to	100000	2	3,151	0.06%	99.94%	185,300	27,656,730	0.66%	98.94%
100001	to	999999	2	3,153	0.06%	100.00%	297,400	27,954,130	1.06%	100.00%
0	to	5000	941	29.84%	29.84%		2,985,810	10.68%	10.68%	
5001	to	25000	2,172	68.89%	98.73%		23,229,990	83.10%	93.78%	
25001	to	60000	32	1.01%	99.75%		1,030,480	3.69%	97.47%	
60001	to	999999	8	0.25%	100.00%		707,850	2.53%	100.00%	
			3,153				27,954,130			
							Average Bill	8,866	Bill Amount	\$116,864.96
							Median Bill	7,400	Gallons Consumed	27,954,130
									Per Thousand Gal	\$4.18

Summary of Water Bills
FY 2014
Apartments

Consumption Range	# of Bills	Bills Issued				Consumption			
		Cumulative	Percent	Cumulative	Consumption	Cumulative	Percent	Cumulative	
0 to 5000	39	39	6.31%	6.31%	48,670	48,670	0.05%	0.05%	
5001 to 6000	9	48	1.46%	7.77%	69,350	118,020	0.07%	0.12%	
6001 to 7000	8	56	1.29%	9.06%	99,780	217,800	0.10%	0.22%	
7001 to 8000	18	74	2.91%	11.97%	313,180	530,980	0.31%	0.53%	
8001 to 9000	17	91	2.75%	14.72%	375,330	906,310	0.37%	0.90%	
9001 to 10000	13	104	2.10%	16.83%	366,000	1,272,310	0.37%	1.27%	
10001 to 15000	11	115	1.78%	18.61%	371,240	1,643,550	0.37%	1.64%	
15001 to 25000	15	130	2.43%	21.04%	568,750	2,212,300	0.57%	2.21%	
25001 to 30000	16	146	2.59%	23.62%	675,910	2,888,210	0.67%	2.88%	
30001 to 35000	15	161	2.43%	26.05%	711,730	3,599,940	0.71%	3.59%	
35001 to 40000	77	238	12.46%	38.51%	4,925,276	8,525,216	4.92%	8.51%	
40001 to 45000	88	326	14.24%	52.75%	7,706,180	16,231,396	7.69%	16.21%	
45001 to 50000	90	416	14.56%	67.31%	10,867,780	27,099,176	10.85%	27.06%	
50001 to 999999	202	618	32.69%	100.00%	73,060,120	100,159,296	72.94%	100.00%	
0 to 5000	39	6.31%	6.31%		48,670	0.05%	0.05%		
5001 to 50000	122	19.74%	26.05%		3,551,270	3.55%	3.59%		
50001 to 100000	165	26.70%	52.75%		12,631,456	12.61%	16.21%		
100000 to 999999	292	47.25%	100.00%		83,927,900	83.79%	100.00%		
	618				100,159,296				
				Average Bill	162,070	Bill Amount	\$425,677.23		
				Median Bill	44,000	Gallons Consumed	100,159,296		
						Per Thousand Gal	\$4.25		

Summary of Water Bills
FY 2014
Various Rate Codes

Residential Lawn			28 Accounts		Bills Issued		Consumption		
Consumption Range	# of Bills	Cumulative	Percent	Cumulative	Consumption	Cumulative	Percent	Cumulative	
0 to 60000	102	102	91.07%	91.07%	764,700	764,700	43.79%	43.79%	
60001 to 999999	10	112	8.93%	100.00%	981,500	1,746,200	56.21%	100.00%	
					Average Bill	15,591	Bill Amount	\$14,738.71	
					Median Bill	N/A	Gallons Consumed	1,746,200	
							Per Thousand Gal	\$8.44	
Residential Summer Service			6 Accounts		Bills Issued		Consumption		
Consumption Range	# of Bills	Cumulative	Percent	Cumulative	Consumption	Cumulative	Percent	Cumulative	
0 to 60000	16	16	100.00%	100.00%	66,830	66,830	100.00%	100.00%	
60001 to 999999	0	16	0.00%	100.00%	0	66,830	0.00%	100.00%	
					Average Bill	4,177	Bill Amount	\$730.03	
					Median Bill	N/A	Gallons Consumed	66,830	
							Per Thousand Gal	\$10.92	
Apartment Lawn			12 Accounts		Bills Issued		Consumption		
Consumption Range	# of Bills	Cumulative	Percent	Cumulative	Consumption	Cumulative	Percent	Cumulative	
0 to 60000	33	33	66.00%	66.00%	289,640	289,640	10.68%	10.68%	
60001 to 999999	17	50	34.00%	100.00%	2,423,320	2,712,960	89.32%	100.00%	
					Average Bill	54,259	Bill Amount	\$23,333.93	
					Median Bill	N/A	Gallons Consumed	2,712,960	
							Per Thousand Gal	\$8.60	

Summary of Water Bills
FY 2014
Various Rate Codes

Commercial Lawn			5 Accounts		Bills Issued		Consumption			
Consumption Range			# of Bills	Cumulative	Percent	Cumulative	Consumption	Cumulative	Percent	Cumulative
0	to	60000	16	16	80.00%	80.00%	45,680	45,680	6.85%	6.85%
60001	to	999999	4	20	20.00%	100.00%	621,100	666,780	93.15%	100.00%
							Average Bill	33,339	Bill Amount	\$6,030.79
							Median Bill	N/A	Gallons Consumed	666,780
									Per Thousand Gal	\$9.04
Condominium Lawn			10 Accounts		Bills Issued		Consumption			
Consumption Range			# of Bills	Cumulative	Percent	Cumulative	Consumption	Cumulative	Percent	Cumulative
0	to	60000	21	21	53.85%	53.85%	210,000	210,000	4.62%	4.62%
60001	to	999999	18	39	46.15%	100.00%	4,333,000	4,543,000	95.38%	100.00%
							Average Bill	116,487	Bill Amount	\$41,476.00
							Median Bill	N/A	Gallons Consumed	4,543,000
									Per Thousand Gal	\$9.13
Water Municipal			20 Accounts		Bills Issued		Consumption			
Consumption Range			# of Bills	Cumulative	Percent	Cumulative	Consumption	Cumulative	Percent	Cumulative
0	to	5000	33	33	40.24%	40.24%	41,040	41,040	3.43%	3.43%
5001	to	50000	46	79	56.10%	96.34%	917,600	958,640	76.66%	80.08%
50001	to	999999	3	82	3.66%	100.00%	238,400	1,197,040	19.92%	100.00%
							Average Bill	14,598	Bill Amount	\$5,144.55
							Median Bill	N/A	Gallons Consumed	1,197,040
									Per Thousand Gal	\$4.30

Summary of Water Bills
FY 2014
Various Rate Codes

Water School			18 Accounts		Bills Issued		Consumption			
Consumption Range	# of Bills	Cumulative	Percent	Cumulative	Consumption	Cumulative	Percent	Cumulative		
0 to 5000	10	10	14.71%	14.71%	14,110	14,110	0.27%	0.27%		
5001 to 50000	22	32	32.35%	47.06%	693,920	708,030	13.33%	13.33%		
50001 to 999999	36	68	52.94%	100.00%	4,498,220	5,206,250	86.40%	86.40%		
					Average Bill	76,563	Bill Amount	\$16,690.97		
					Median Bill	N/A	Gallons Consumed	5,206,250		
							Per Thousand Gal	\$3.21		
Water School Lawn			5 Accounts (0 Inactive)		Bills Issued		Consumption			
Consumption Range	# of Bills	Cumulative	Percent	Cumulative	Consumption	Cumulative	Percent	Cumulative		
0 to 999999	28	28	100.00%	100.00%	7,478,060	7,478,060	100.00%	100.00%		
					Average Bill	267,074	Bill Amount	\$26,243.23		
					Median Bill	N/A	Gallons Consumed	7,478,060		
							Per Thousand Gal	\$3.51		

Historical Comparison
Residential Water Rate Structure
August 2014

Consumption	July 1, 1991 Rate	June 1, 2003 Rate	May 1, 2006 Rate	May 1, 2008 Rate	Nov 1, 2012 Rate	Variance to 2008	Percent to 2008	Variance to 1991	Percent to 1991
Base Charge	\$24.00	\$15.00	\$16.50	\$19.00	\$21.00				
5,000 to 24,999	\$1.80	\$2.50	\$2.85	\$3.20	\$3.40				
25,000 to 49,999	\$1.80	\$4.50	\$5.20	\$6.00	\$6.30				
50,000+	\$2.40	\$5.50	\$6.35	\$7.75	\$6.30				
60,000+					\$10.00				
5000	\$24.00	\$15.00	\$16.50	\$19.00	\$21.00	\$2.00	10.53%	(\$3.00)	-12.50%
6000	\$25.80	\$17.50	\$19.35	\$22.20	\$24.40	\$2.20	9.91%	(\$1.40)	-5.43%
7000	\$27.60	\$20.00	\$22.20	\$25.40	\$27.80	\$2.40	9.45%	\$0.20	0.72%
8000	\$29.40	\$22.50	\$25.05	\$28.60	\$31.20	\$2.60	9.09%	\$1.80	6.12%
9000	\$31.20	\$25.00	\$27.90	\$31.80	\$34.60	\$2.80	8.81%	\$3.40	10.90%
10000	\$33.00	\$27.50	\$30.75	\$35.00	\$38.00	\$3.00	8.57%	\$5.00	15.15%
11000	\$34.80	\$30.00	\$33.60	\$38.20	\$41.40	\$3.20	8.38%	\$6.60	18.97%
12000	\$36.60	\$32.50	\$36.45	\$41.40	\$44.80	\$3.40	8.21%	\$8.20	22.40%
Median Bill									
13000	\$38.40	\$35.00	\$39.30	\$44.60	\$48.20	\$3.60	8.07%	\$9.80	25.52%
14000	\$40.20	\$37.50	\$42.15	\$47.80	\$51.60	\$3.80	7.95%	\$11.40	28.36%
Average Bill									
15000	\$42.00	\$40.00	\$45.00	\$51.00	\$55.00	\$4.00	7.84%	\$13.00	30.95%
16000	\$43.80	\$42.50	\$47.85	\$54.20	\$58.40	\$4.20	7.75%	\$14.60	33.33%
17000	\$45.60	\$45.00	\$50.70	\$57.40	\$61.80	\$4.40	7.67%	\$16.20	35.53%
18000	\$47.40	\$47.50	\$53.55	\$60.60	\$65.20	\$4.60	7.59%	\$17.80	37.55%
19000	\$49.20	\$50.00	\$56.40	\$63.80	\$68.60	\$4.80	7.52%	\$19.40	39.43%
20000	\$51.00	\$52.50	\$59.25	\$67.00	\$72.00	\$5.00	7.46%	\$21.00	41.18%
21000	\$52.80	\$55.00	\$62.10	\$70.20	\$75.40	\$5.20	7.41%	\$22.60	42.80%
22000	\$54.60	\$57.50	\$64.95	\$73.40	\$78.80	\$5.40	7.36%	\$24.20	44.32%
23000	\$56.40	\$60.00	\$67.80	\$76.60	\$82.20	\$5.60	7.31%	\$25.80	45.74%
24000	\$58.20	\$62.50	\$70.65	\$79.80	\$85.60	\$5.80	7.27%	\$27.40	47.08%
25000	\$60.00	\$65.00	\$73.50	\$83.00	\$89.00	\$6.00	7.23%	\$29.00	48.33%
26000	\$61.80	\$69.50	\$78.70	\$89.00	\$95.30	\$6.30	7.08%	\$33.50	54.21%
27000	\$63.60	\$74.00	\$83.90	\$95.00	\$101.60	\$6.60	6.95%	\$38.00	59.75%
28000	\$65.40	\$78.50	\$89.10	\$101.00	\$107.90	\$6.90	6.83%	\$42.50	64.98%
29000	\$67.20	\$83.00	\$94.30	\$107.00	\$114.20	\$7.20	6.73%	\$47.00	69.94%
30000	\$69.00	\$87.50	\$99.50	\$113.00	\$120.50	\$7.50	6.64%	\$51.50	74.64%
31000	\$70.80	\$92.00	\$104.70	\$119.00	\$126.80	\$7.80	6.55%	\$56.00	79.10%
32000	\$72.60	\$96.50	\$109.90	\$125.00	\$133.10	\$8.10	6.48%	\$60.50	83.33%

26.44% of Bills are Less Than 8,000 Gallons

Historical Comparison
Residential Water Rate Structure
August 2014

Consumption	July 1, 1991 Rate	June 1, 2003 Rate	May 1, 2006 Rate	May 1, 2008 Rate	Nov 1, 2012 Rate	Variance to 2008	Percent to 2008	Variance to 1991	Percent to 1991
33000	\$74.40	\$101.00	\$115.10	\$131.00	\$139.40	\$8.40	6.41%	\$65.00	87.37%
34000	\$76.20	\$105.50	\$120.30	\$137.00	\$145.70	\$8.70	6.35%	\$69.50	91.21%
35000	\$78.00	\$110.00	\$125.50	\$143.00	\$152.00	\$9.00	6.29%	\$74.00	94.87%
36000	\$79.80	\$114.50	\$130.70	\$149.00	\$158.30	\$9.30	6.24%	\$78.50	98.37%
37000	\$81.60	\$119.00	\$135.90	\$155.00	\$164.60	\$9.60	6.19%	\$83.00	101.72%
38000	\$83.40	\$123.50	\$141.10	\$161.00	\$170.90	\$9.90	6.15%	\$87.50	104.92%
39000	\$85.20	\$128.00	\$146.30	\$167.00	\$177.20	\$10.20	6.11%	\$92.00	107.98%
40000	\$87.00	\$132.50	\$151.50	\$173.00	\$183.50	\$10.50	6.07%	\$96.50	110.92%
41000	\$88.80	\$137.00	\$156.70	\$179.00	\$189.80	\$10.80	6.03%	\$101.00	113.74%
42000	\$90.60	\$141.50	\$161.90	\$185.00	\$196.10	\$11.10	6.00%	\$105.50	116.45%
43000	\$92.40	\$146.00	\$167.10	\$191.00	\$202.40	\$11.40	5.97%	\$110.00	119.05%
44000	\$94.20	\$150.50	\$172.30	\$197.00	\$208.70	\$11.70	5.94%	\$114.50	121.55%
45000	\$96.00	\$155.00	\$177.50	\$203.00	\$215.00	\$12.00	5.91%	\$119.00	123.96%
46000	\$97.80	\$159.50	\$182.70	\$209.00	\$221.30	\$12.30	5.89%	\$123.50	126.28%
47000	\$99.60	\$164.00	\$187.90	\$215.00	\$227.60	\$12.60	5.86%	\$128.00	128.51%
48000	\$101.40	\$168.50	\$193.10	\$221.00	\$233.90	\$12.90	5.84%	\$132.50	130.67%
49000	\$103.20	\$173.00	\$198.30	\$227.00	\$240.20	\$13.20	5.81%	\$137.00	132.75%
50000	\$105.60	\$177.50	\$203.50	\$233.00	\$246.50	\$13.50	5.79%	\$140.90	133.43%
51000	\$108.00	\$183.00	\$209.85	\$240.75	\$252.80	\$12.05	5.01%	\$144.80	134.07%
52000	\$110.40	\$189.50	\$216.20	\$248.50	\$259.10	\$10.60	4.27%	\$148.70	134.69%
53000	\$112.80	\$195.00	\$222.55	\$256.25	\$265.40	\$9.15	3.57%	\$152.60	135.28%
54000	\$115.20	\$200.50	\$228.90	\$264.00	\$271.70	\$7.70	2.92%	\$156.50	135.85%
55000	\$117.60	\$206.00	\$235.25	\$271.75	\$278.00	\$6.25	2.30%	\$160.40	136.39%
56000	\$120.00	\$211.50	\$241.60	\$279.50	\$284.30	\$4.80	1.72%	\$164.30	136.92%
57000	\$122.40	\$217.00	\$247.95	\$287.25	\$290.60	\$3.35	1.17%	\$168.20	137.42%
58000	\$124.80	\$222.50	\$254.30	\$295.00	\$296.90	\$1.90	0.64%	\$172.10	137.90%
59000	\$127.20	\$228.00	\$260.65	\$302.75	\$303.20	\$0.45	0.15%	\$176.00	138.36%
60000	\$129.60	\$233.50	\$267.00	\$310.50	\$309.50	-\$1.00	-0.32%	\$179.90	138.81%
61000	\$132.00	\$239.00	\$273.35	\$318.25	\$319.50	\$1.25	0.39%	\$187.50	142.05%
62000	\$134.40	\$244.50	\$279.70	\$326.00	\$329.50	\$3.50	1.07%	\$195.10	145.16%
63000	\$136.80	\$250.00	\$286.05	\$333.75	\$339.50	\$5.75	1.72%	\$202.70	148.17%
64000	\$139.20	\$255.50	\$292.40	\$341.50	\$349.50	\$8.00	2.34%	\$210.30	151.08%
65000	\$141.60	\$261.00	\$298.75	\$349.25	\$359.50	\$10.25	2.93%	\$217.90	153.88%
66000	\$144.00	\$266.50	\$305.10	\$357.00	\$369.50	\$12.50	3.50%	\$225.50	156.60%
67000	\$146.40	\$272.00	\$311.45	\$364.75	\$379.50	\$14.75	4.04%	\$233.10	159.22%

Historical Comparison
Residential Water Rate Structure
August 2014

Consumption	July 1, 1991 Rate	June 1, 2003 Rate	May 1, 2006 Rate	May 1, 2008 Rate	Nov 1, 2012 Rate	Variance to 2008	Percent to 2008	Variance to 1991	Percent to 1991
68000	\$148.80	\$277.50	\$317.80	\$372.50	\$389.50	\$17.00	4.56%	\$240.70	161.76%
69000	\$151.20	\$283.00	\$324.15	\$380.25	\$399.50	\$19.25	5.06%	\$248.30	164.22%
70000	\$153.60	\$288.50	\$330.50	\$388.00	\$409.50	\$21.50	5.54%	\$255.90	166.60%
71000	\$156.00	\$294.00	\$336.85	\$395.75	\$419.50	\$23.75	6.00%	\$263.50	168.91%
72000	\$158.40	\$299.50	\$343.20	\$403.50	\$429.50	\$26.00	6.44%	\$271.10	171.15%
73000	\$160.80	\$305.00	\$349.55	\$411.25	\$439.50	\$28.25	6.87%	\$278.70	173.32%
74000	\$163.20	\$310.50	\$355.90	\$419.00	\$449.50	\$30.50	7.28%	\$286.30	175.43%
75000	\$165.60	\$316.00	\$362.25	\$426.75	\$459.50	\$32.75	7.67%	\$293.90	177.48%
76000	\$168.00	\$321.50	\$368.60	\$434.50	\$469.50	\$35.00	8.06%	\$301.50	179.46%
77000	\$170.40	\$327.00	\$374.95	\$442.25	\$479.50	\$37.25	8.42%	\$309.10	181.40%
78000	\$172.80	\$332.50	\$381.30	\$450.00	\$489.50	\$39.50	8.78%	\$316.70	183.28%
79000	\$175.20	\$338.00	\$387.65	\$457.75	\$499.50	\$41.75	9.12%	\$324.30	185.10%
80000	\$177.60	\$343.50	\$394.00	\$465.50	\$509.50	\$44.00	9.45%	\$331.90	186.88%
81000	\$180.00	\$349.00	\$400.35	\$473.25	\$519.50	\$46.25	9.77%	\$339.50	188.61%
82000	\$182.40	\$354.50	\$406.70	\$481.00	\$529.50	\$48.50	10.08%	\$347.10	190.30%
83000	\$184.80	\$360.00	\$413.05	\$488.75	\$539.50	\$50.75	10.38%	\$354.70	191.94%
84000	\$187.20	\$365.50	\$419.40	\$496.50	\$549.50	\$53.00	10.67%	\$362.30	193.54%
85000	\$189.60	\$371.00	\$425.75	\$504.25	\$559.50	\$55.25	10.96%	\$369.90	195.09%
86000	\$192.00	\$376.50	\$432.10	\$512.00	\$569.50	\$57.50	11.23%	\$377.50	196.61%
87000	\$194.40	\$382.00	\$438.45	\$519.75	\$579.50	\$59.75	11.50%	\$385.10	198.10%
88000	\$196.80	\$387.50	\$444.80	\$527.50	\$589.50	\$62.00	11.75%	\$392.70	199.54%
89000	\$199.20	\$393.00	\$451.15	\$535.25	\$599.50	\$64.25	12.00%	\$400.30	200.95%
90000	\$201.60	\$398.50	\$457.50	\$543.00	\$609.50	\$66.50	12.25%	\$407.90	202.33%
91000	\$204.00	\$404.00	\$463.85	\$550.75	\$619.50	\$68.75	12.48%	\$415.50	203.68%
92000	\$206.40	\$409.50	\$470.20	\$558.50	\$629.50	\$71.00	12.71%	\$423.10	204.99%
93000	\$208.80	\$415.00	\$476.55	\$566.25	\$639.50	\$73.25	12.94%	\$430.70	206.27%
94000	\$211.20	\$420.50	\$482.90	\$574.00	\$649.50	\$75.50	13.15%	\$438.30	207.53%
95000	\$213.60	\$426.00	\$489.25	\$581.75	\$659.50	\$77.75	13.36%	\$445.90	208.75%
96000	\$216.00	\$431.50	\$495.60	\$589.50	\$669.50	\$80.00	13.57%	\$453.50	209.95%
97000	\$218.40	\$437.00	\$501.95	\$597.25	\$679.50	\$82.25	13.77%	\$461.10	211.13%
98000	\$220.80	\$442.50	\$508.30	\$605.00	\$689.50	\$84.50	13.97%	\$468.70	212.27%
99000	\$223.20	\$448.00	\$514.65	\$612.75	\$699.50	\$86.75	14.16%	\$476.30	213.40%
100000	\$225.60	\$453.50	\$521.00	\$620.50	\$709.50	\$89.00	14.34%	\$483.90	214.49%
101000	\$228.00	\$459.00	\$527.35	\$628.25	\$719.50	\$91.25	14.52%	\$491.50	215.57%
102000	\$230.40	\$464.50	\$533.70	\$636.00	\$729.50	\$93.50	14.70%	\$499.10	216.62%

Historical Comparison
Residential Water Rate Structure
August 2014

Consumption	July 1, 1991 Rate	June 1, 2003 Rate	May 1, 2006 Rate	May 1, 2008 Rate	Nov 1, 2012 Rate	Variance to 2008	Percent to 2008	Variance to 1991	Percent to 1991
103000	\$232.80	\$470.00	\$540.05	\$643.75	\$739.50	\$95.75	14.87%	\$506.70	217.65%
104000	\$235.20	\$475.50	\$546.40	\$651.50	\$749.50	\$98.00	15.04%	\$514.30	218.66%
105000	\$237.60	\$481.00	\$552.75	\$659.25	\$759.50	\$100.25	15.21%	\$521.90	219.65%
106000	\$240.00	\$486.50	\$559.10	\$667.00	\$769.50	\$102.50	15.37%	\$529.50	220.63%
107000	\$242.40	\$492.00	\$565.45	\$674.75	\$779.50	\$104.75	15.52%	\$537.10	221.58%
108000	\$244.80	\$497.50	\$571.80	\$682.50	\$789.50	\$107.00	15.68%	\$544.70	222.51%
109000	\$247.20	\$503.00	\$578.15	\$690.25	\$799.50	\$109.25	15.83%	\$552.30	223.42%
110000	\$249.60	\$508.50	\$584.50	\$698.00	\$809.50	\$111.50	15.97%	\$559.90	224.32%
111000	\$252.00	\$514.00	\$590.85	\$705.75	\$819.50	\$113.75	16.12%	\$567.50	225.20%
112000	\$254.40	\$519.50	\$597.20	\$713.50	\$829.50	\$116.00	16.26%	\$575.10	226.06%
113000	\$256.80	\$525.00	\$603.55	\$721.25	\$839.50	\$118.25	16.40%	\$582.70	226.91%
114000	\$259.20	\$530.50	\$609.90	\$729.00	\$849.50	\$120.50	16.53%	\$590.30	227.74%
115000	\$261.60	\$536.00	\$616.25	\$736.75	\$859.50	\$122.75	16.66%	\$597.90	228.56%
116000	\$264.00	\$541.50	\$622.60	\$744.50	\$869.50	\$125.00	16.79%	\$605.50	229.36%
117000	\$266.40	\$547.00	\$628.95	\$752.25	\$879.50	\$127.25	16.92%	\$613.10	230.14%
118000	\$268.80	\$552.50	\$635.30	\$760.00	\$889.50	\$129.50	17.04%	\$620.70	230.92%
119000	\$271.20	\$558.00	\$641.65	\$767.75	\$899.50	\$131.75	17.16%	\$628.30	231.67%
120000	\$273.60	\$563.50	\$648.00	\$775.50	\$909.50	\$134.00	17.28%	\$635.90	232.42%
121000	\$276.00	\$569.00	\$654.35	\$783.25	\$919.50	\$136.25	17.40%	\$643.50	233.15%
122000	\$278.40	\$574.50	\$660.70	\$791.00	\$929.50	\$138.50	17.51%	\$651.10	233.87%
123000	\$280.80	\$580.00	\$667.05	\$798.75	\$939.50	\$140.75	17.62%	\$658.70	234.58%
124000	\$283.20	\$585.50	\$673.40	\$806.50	\$949.50	\$143.00	17.73%	\$666.30	235.28%
125000	\$285.60	\$591.00	\$679.75	\$814.25	\$959.50	\$145.25	17.84%	\$673.90	235.96%

Historical Comparison
Commerical Water Rate Structure
August 2014

Consumption	July 1, 1991 Rate	June 1, 2003 Rate	May 1, 2006 Rate	May 1, 2008 Rate	Nov 1, 2012 Rate	Variance to 2008	Percent to 2008	Variance to 1991	Percent to 1991	
Base Charge	\$24.00	\$24.00	\$27.50	\$32.50	\$36.00					
5,001 to 25,000	\$1.80	\$1.80	\$2.10	\$2.50	\$2.80					
25,001 to 50,000	\$1.80	\$1.80	\$2.10	\$2.50	\$3.80					
50,000+	\$2.40	\$2.40	\$2.80	\$3.50	\$3.80					
5,000	\$24.00	\$24.00	\$27.50	\$32.50	\$36.00	\$3.50	10.77%	\$12.00	50.00%	
6,000	\$25.80	\$25.80	\$29.60	\$35.00	\$38.80	\$3.80	10.86%	\$13.00	50.39%	
7,000	\$27.60	\$27.60	\$31.70	\$37.50	\$41.60	\$4.10	10.93%	\$14.00	50.72%	
8,000	\$29.40	\$29.40	\$33.80	\$40.00	\$44.40	\$4.40	11.00%	\$15.00	51.02%	
9,000	\$31.20	\$31.20	\$35.90	\$42.50	\$47.20	\$4.70	11.06%	\$16.00	51.28%	
10,000	\$33.00	\$33.00	\$38.00	\$45.00	\$50.00	\$5.00	11.11%	\$17.00	51.52%	
11,000	\$34.80	\$34.80	\$40.10	\$47.50	\$52.80	\$5.30	11.16%	\$18.00	51.72%	Median Bill
12,000	\$36.60	\$36.60	\$42.20	\$50.00	\$55.60	\$5.60	11.20%	\$19.00	51.91%	
13,000	\$38.40	\$38.40	\$44.30	\$52.50	\$58.40	\$5.90	11.24%	\$20.00	52.08%	
14,000	\$40.20	\$40.20	\$46.40	\$55.00	\$61.20	\$6.20	11.27%	\$21.00	52.24%	
15,000	\$42.00	\$42.00	\$48.50	\$57.50	\$64.00	\$6.50	11.30%	\$22.00	52.38%	
16,000	\$43.80	\$43.80	\$50.60	\$60.00	\$66.80	\$6.80	11.33%	\$23.00	52.51%	
17,000	\$45.60	\$45.60	\$52.70	\$62.50	\$69.60	\$7.10	11.36%	\$24.00	52.63%	
18,000	\$47.40	\$47.40	\$54.80	\$65.00	\$72.40	\$7.40	11.38%	\$25.00	52.74%	
19,000	\$49.20	\$49.20	\$56.90	\$67.50	\$75.20	\$7.70	11.41%	\$26.00	52.85%	
20,000	\$51.00	\$51.00	\$59.00	\$70.00	\$78.00	\$8.00	11.43%	\$27.00	52.94%	
21,000	\$52.80	\$52.80	\$61.10	\$72.50	\$80.80	\$8.30	11.45%	\$28.00	53.03%	
22,000	\$54.60	\$54.60	\$63.20	\$75.00	\$83.60	\$8.60	11.47%	\$29.00	53.11%	
23,000	\$56.40	\$56.40	\$65.30	\$77.50	\$86.40	\$8.90	11.48%	\$30.00	53.19%	
24,000	\$58.20	\$58.20	\$67.40	\$80.00	\$89.20	\$9.20	11.50%	\$31.00	53.26%	
25,000	\$60.00	\$60.00	\$69.50	\$82.50	\$92.00	\$9.50	11.52%	\$32.00	53.33%	
26,000	\$61.80	\$61.80	\$71.60	\$85.00	\$95.80	\$10.80	12.71%	\$34.00	55.02%	
27,000	\$63.60	\$63.60	\$73.70	\$87.50	\$99.60	\$12.10	13.83%	\$36.00	56.60%	
28,000	\$65.40	\$65.40	\$75.80	\$90.00	\$103.40	\$13.40	14.89%	\$38.00	58.10%	
29,000	\$67.20	\$67.20	\$77.90	\$92.50	\$107.20	\$14.70	15.89%	\$40.00	59.52%	
30,000	\$69.00	\$69.00	\$80.00	\$95.00	\$111.00	\$16.00	16.84%	\$42.00	60.87%	
31,000	\$70.80	\$70.80	\$82.10	\$97.50	\$114.80	\$17.30	17.74%	\$44.00	62.15%	
32,000	\$72.60	\$72.60	\$84.20	\$100.00	\$118.60	\$18.60	18.60%	\$46.00	63.36%	
33,000	\$74.40	\$74.40	\$86.30	\$102.50	\$122.40	\$19.90	19.41%	\$48.00	64.52%	

Historical Comparison
Commerical Water Rate Structure
August 2014

Consumption	July 1, 1991 Rate	June 1, 2003 Rate	May 1, 2006 Rate	May 1, 2008 Rate	Nov 1, 2012 Rate	Variance to 2008	Percent to 2008	Variance to 1991	Percent to 1991
34,000	\$76.20	\$76.20	\$88.40	\$105.00	\$126.20	\$21.20	20.19%	\$50.00	65.62%
35,000	\$78.00	\$78.00	\$90.50	\$107.50	\$130.00	\$22.50	20.93%	\$52.00	66.67%
36,000	\$79.80	\$79.80	\$92.60	\$110.00	\$133.80	\$23.80	21.64%	\$54.00	67.67%
37,000	\$81.60	\$81.60	\$94.70	\$112.50	\$137.60	\$25.10	22.31%	\$56.00	68.63%
38,000	\$83.40	\$83.40	\$96.80	\$115.00	\$141.40	\$26.40	22.96%	\$58.00	69.54%
39,000	\$85.20	\$85.20	\$98.90	\$117.50	\$145.20	\$27.70	23.57%	\$60.00	70.42%
40,000	\$87.00	\$87.00	\$101.00	\$120.00	\$149.00	\$29.00	24.17%	\$62.00	71.26%
41,000	\$88.80	\$88.80	\$103.10	\$122.50	\$152.80	\$30.30	24.73%	\$64.00	72.07%
42,000	\$90.60	\$90.60	\$105.20	\$125.00	\$156.60	\$31.60	25.28%	\$66.00	72.85%
43,000	\$92.40	\$92.40	\$107.30	\$127.50	\$160.40	\$32.90	25.80%	\$68.00	73.59%
44,000	\$94.20	\$94.20	\$109.40	\$130.00	\$164.20	\$34.20	26.31%	\$70.00	74.31%
45,000	\$96.00	\$96.00	\$111.50	\$132.50	\$168.00	\$35.50	26.79%	\$72.00	75.00%
46,000	\$97.80	\$97.80	\$113.60	\$135.00	\$171.80	\$36.80	27.26%	\$74.00	75.66%
47,000	\$99.60	\$99.60	\$115.70	\$137.50	\$175.60	\$38.10	27.71%	\$76.00	76.31%
48,000	\$101.40	\$101.40	\$117.80	\$140.00	\$179.40	\$39.40	28.14%	\$78.00	76.92%
49,000	\$103.20	\$103.20	\$119.90	\$142.50	\$183.20	\$40.70	28.56%	\$80.00	77.52%
50,000	\$105.00	\$105.00	\$122.00	\$145.00	\$187.00	\$42.00	28.97%	\$82.00	78.10%
51,000	\$107.40	\$107.40	\$124.80	\$148.50	\$190.80	\$42.30	28.48%	\$83.40	77.65%
52,000	\$109.80	\$109.80	\$127.60	\$152.00	\$194.60	\$42.60	28.03%	\$84.80	77.23%
53,000	\$112.20	\$112.20	\$130.40	\$155.50	\$198.40	\$42.90	27.59%	\$86.20	76.83%
54,000	\$114.60	\$114.60	\$133.20	\$159.00	\$202.20	\$43.20	27.17%	\$87.60	76.44%
55,000	\$117.00	\$117.00	\$136.00	\$162.50	\$206.00	\$43.50	26.77%	\$89.00	76.07%
56,000	\$119.40	\$119.40	\$138.80	\$166.00	\$209.80	\$43.80	26.39%	\$90.40	75.71%
57,000	\$121.80	\$121.80	\$141.60	\$169.50	\$213.60	\$44.10	26.02%	\$91.80	75.37%
58,000	\$124.20	\$124.20	\$144.40	\$173.00	\$217.40	\$44.40	25.66%	\$93.20	75.04%
59,000	\$126.60	\$126.60	\$147.20	\$176.50	\$221.20	\$44.70	25.33%	\$94.60	74.72%
60,000	\$129.00	\$129.00	\$150.00	\$180.00	\$225.00	\$45.00	25.00%	\$96.00	74.42%
61,000	\$131.40	\$131.40	\$152.80	\$183.50	\$228.80	\$45.30	24.69%	\$97.40	74.12%
62,000	\$133.80	\$133.80	\$155.60	\$187.00	\$232.60	\$45.60	24.39%	\$98.80	73.84%
63,000	\$136.20	\$136.20	\$158.40	\$190.50	\$236.40	\$45.90	24.09%	\$100.20	73.57%
64,000	\$138.60	\$138.60	\$161.20	\$194.00	\$240.20	\$46.20	23.81%	\$101.60	73.30%
65,000	\$141.00	\$141.00	\$164.00	\$197.50	\$244.00	\$46.50	23.54%	\$103.00	73.05%
66,000	\$143.40	\$143.40	\$166.80	\$201.00	\$247.80	\$46.80	23.28%	\$104.40	72.80%
67,000	\$145.80	\$145.80	\$169.60	\$204.50	\$251.60	\$47.10	23.03%	\$105.80	72.57%

Average Bill

Historical Comparison
Commerical Water Rate Structure
August 2014

Consumption	July 1, 1991 Rate	June 1, 2003 Rate	May 1, 2006 Rate	May 1, 2008 Rate	Nov 1, 2012 Rate	Variance to 2008	Percent to 2008	Variance to 1991	Percent to 1991
68,000	\$148.20	\$148.20	\$172.40	\$208.00	\$255.40	\$47.40	22.79%	\$107.20	72.33%
69,000	\$150.60	\$150.60	\$175.20	\$211.50	\$259.20	\$47.70	22.55%	\$108.60	72.11%
70,000	\$153.00	\$153.00	\$178.00	\$215.00	\$263.00	\$48.00	22.33%	\$110.00	71.90%
71,000	\$155.40	\$155.40	\$180.80	\$218.50	\$266.80	\$48.30	22.11%	\$111.40	71.69%
72,000	\$157.80	\$157.80	\$183.60	\$222.00	\$270.60	\$48.60	21.89%	\$112.80	71.48%
73,000	\$160.20	\$160.20	\$186.40	\$225.50	\$274.40	\$48.90	21.69%	\$114.20	71.29%
74,000	\$162.60	\$162.60	\$189.20	\$229.00	\$278.20	\$49.20	21.48%	\$115.60	71.09%
75,000	\$165.00	\$165.00	\$192.00	\$232.50	\$282.00	\$49.50	21.29%	\$117.00	70.91%
76,000	\$167.40	\$167.40	\$194.80	\$236.00	\$285.80	\$49.80	21.10%	\$118.40	70.73%
77,000	\$169.80	\$169.80	\$197.60	\$239.50	\$289.60	\$50.10	20.92%	\$119.80	70.55%
78,000	\$172.20	\$172.20	\$200.40	\$243.00	\$293.40	\$50.40	20.74%	\$121.20	70.38%
79,000	\$174.60	\$174.60	\$203.20	\$246.50	\$297.20	\$50.70	20.57%	\$122.60	70.22%
80,000	\$177.00	\$177.00	\$206.00	\$250.00	\$301.00	\$51.00	20.40%	\$124.00	70.06%
81,000	\$179.40	\$179.40	\$208.80	\$253.50	\$304.80	\$51.30	20.24%	\$125.40	69.90%
82,000	\$181.80	\$181.80	\$211.60	\$257.00	\$308.60	\$51.60	20.08%	\$126.80	69.75%
83,000	\$184.20	\$184.20	\$214.40	\$260.50	\$312.40	\$51.90	19.92%	\$128.20	69.60%
84,000	\$186.60	\$186.60	\$217.20	\$264.00	\$316.20	\$52.20	19.77%	\$129.60	69.45%
85,000	\$189.00	\$189.00	\$220.00	\$267.50	\$320.00	\$52.50	19.63%	\$131.00	69.31%
86,000	\$191.40	\$191.40	\$222.80	\$271.00	\$323.80	\$52.80	19.48%	\$132.40	69.17%
87,000	\$193.80	\$193.80	\$225.60	\$274.50	\$327.60	\$53.10	19.34%	\$133.80	69.04%
88,000	\$196.20	\$196.20	\$228.40	\$278.00	\$331.40	\$53.40	19.21%	\$135.20	68.91%
89,000	\$198.60	\$198.60	\$231.20	\$281.50	\$335.20	\$53.70	19.08%	\$136.60	68.78%
90,000	\$201.00	\$201.00	\$234.00	\$285.00	\$339.00	\$54.00	18.95%	\$138.00	68.66%
91,000	\$203.40	\$203.40	\$236.80	\$288.50	\$342.80	\$54.30	18.82%	\$139.40	68.53%
92,000	\$205.80	\$205.80	\$239.60	\$292.00	\$346.60	\$54.60	18.70%	\$140.80	68.42%
93,000	\$208.20	\$208.20	\$242.40	\$295.50	\$350.40	\$54.90	18.58%	\$142.20	68.30%
94,000	\$210.60	\$210.60	\$245.20	\$299.00	\$354.20	\$55.20	18.46%	\$143.60	68.19%
95,000	\$213.00	\$213.00	\$248.00	\$302.50	\$358.00	\$55.50	18.35%	\$145.00	68.08%
96,000	\$215.40	\$215.40	\$250.80	\$306.00	\$361.80	\$55.80	18.24%	\$146.40	67.97%
97,000	\$217.80	\$217.80	\$253.60	\$309.50	\$365.60	\$56.10	18.13%	\$147.80	67.86%
98,000	\$220.20	\$220.20	\$256.40	\$313.00	\$369.40	\$56.40	18.02%	\$149.20	67.76%
99,000	\$222.60	\$222.60	\$259.20	\$316.50	\$373.20	\$56.70	17.91%	\$150.60	67.65%
100,000	\$225.00	\$225.00	\$262.00	\$320.00	\$377.00	\$57.00	17.81%	\$152.00	67.56%
101,000	\$227.40	\$227.40	\$264.80	\$323.50	\$380.80	\$57.30	17.71%	\$153.40	67.46%

Historical Comparison
Commerical Water Rate Structure
August 2014

Consumption	July 1, 1991 Rate	June 1, 2003 Rate	May 1, 2006 Rate	May 1, 2008 Rate	Nov 1, 2012 Rate	Variance to 2008	Percent to 2008	Variance to 1991	Percent to 1991
102,000	\$229.80	\$229.80	\$267.60	\$327.00	\$384.60	\$57.60	17.61%	\$154.80	67.36%
103,000	\$232.20	\$232.20	\$270.40	\$330.50	\$388.40	\$57.90	17.52%	\$156.20	67.27%
104,000	\$234.60	\$234.60	\$273.20	\$334.00	\$392.20	\$58.20	17.43%	\$157.60	67.18%
105,000	\$237.00	\$237.00	\$276.00	\$337.50	\$396.00	\$58.50	17.33%	\$159.00	67.09%
106,000	\$239.40	\$239.40	\$278.80	\$341.00	\$399.80	\$58.80	17.24%	\$160.40	67.00%
107,000	\$241.80	\$241.80	\$281.60	\$344.50	\$403.60	\$59.10	17.16%	\$161.80	66.91%
108,000	\$244.20	\$244.20	\$284.40	\$348.00	\$407.40	\$59.40	17.07%	\$163.20	66.83%
109,000	\$246.60	\$246.60	\$287.20	\$351.50	\$411.20	\$59.70	16.98%	\$164.60	66.75%
110,000	\$249.00	\$249.00	\$290.00	\$355.00	\$415.00	\$60.00	16.90%	\$166.00	66.67%
111,000	\$251.40	\$251.40	\$292.80	\$358.50	\$418.80	\$60.30	16.82%	\$167.40	66.59%
112,000	\$253.80	\$253.80	\$295.60	\$362.00	\$422.60	\$60.60	16.74%	\$168.80	66.51%
113,000	\$256.20	\$256.20	\$298.40	\$365.50	\$426.40	\$60.90	16.66%	\$170.20	66.43%
114,000	\$258.60	\$258.60	\$301.20	\$369.00	\$430.20	\$61.20	16.59%	\$171.60	66.36%
115,000	\$261.00	\$261.00	\$304.00	\$372.50	\$434.00	\$61.50	16.51%	\$173.00	66.28%
116,000	\$263.40	\$263.40	\$306.80	\$376.00	\$437.80	\$61.80	16.44%	\$174.40	66.21%
117,000	\$265.80	\$265.80	\$309.60	\$379.50	\$441.60	\$62.10	16.36%	\$175.80	66.14%
118,000	\$268.20	\$268.20	\$312.40	\$383.00	\$445.40	\$62.40	16.29%	\$177.20	66.07%
119,000	\$270.60	\$270.60	\$315.20	\$386.50	\$449.20	\$62.70	16.22%	\$178.60	66.00%
120,000	\$273.00	\$273.00	\$318.00	\$390.00	\$453.00	\$63.00	16.15%	\$180.00	65.93%
121,000	\$275.40	\$275.40	\$320.80	\$393.50	\$456.80	\$63.30	16.09%	\$181.40	65.87%
122,000	\$277.80	\$277.80	\$323.60	\$397.00	\$460.60	\$63.60	16.02%	\$182.80	65.80%
123,000	\$280.20	\$280.20	\$326.40	\$400.50	\$464.40	\$63.90	15.96%	\$184.20	65.74%
124,000	\$282.60	\$282.60	\$329.20	\$404.00	\$468.20	\$64.20	15.89%	\$185.60	65.68%
125,000	\$285.00	\$285.00	\$332.00	\$407.50	\$472.00	\$64.50	15.83%	\$187.00	65.61%
126,000	\$287.40	\$287.40	\$334.80	\$411.00	\$475.80	\$64.80	15.77%	\$188.40	65.55%
127,000	\$289.80	\$289.80	\$337.60	\$414.50	\$479.60	\$65.10	15.71%	\$189.80	65.49%
128,000	\$292.20	\$292.20	\$340.40	\$418.00	\$483.40	\$65.40	15.65%	\$191.20	65.43%
129,000	\$294.60	\$294.60	\$343.20	\$421.50	\$487.20	\$65.70	15.59%	\$192.60	65.38%
130,000	\$297.00	\$297.00	\$346.00	\$425.00	\$491.00	\$66.00	15.53%	\$194.00	65.32%
131,000	\$299.40	\$299.40	\$348.80	\$428.50	\$494.80	\$66.30	15.47%	\$195.40	65.26%
132,000	\$301.80	\$301.80	\$351.60	\$432.00	\$498.60	\$66.60	15.42%	\$196.80	65.21%
133,000	\$304.20	\$304.20	\$354.40	\$435.50	\$502.40	\$66.90	15.36%	\$198.20	65.15%
134,000	\$306.60	\$306.60	\$357.20	\$439.00	\$506.20	\$67.20	15.31%	\$199.60	65.10%
135,000	\$309.00	\$309.00	\$360.00	\$442.50	\$510.00	\$67.50	15.25%	\$201.00	65.05%

Historical Comparison
Commerical Water Rate Structure
August 2014

Consumption	July 1, 1991 Rate	June 1, 2003 Rate	May 1, 2006 Rate	May 1, 2008 Rate	Nov 1, 2012 Rate	Variance to 2008	Percent to 2008	Variance to 1991	Percent to 1991
136,000	\$311.40	\$311.40	\$362.80	\$446.00	\$513.80	\$67.80	15.20%	\$202.40	65.00%
137,000	\$313.80	\$313.80	\$365.60	\$449.50	\$517.60	\$68.10	15.15%	\$203.80	64.95%
138,000	\$316.20	\$316.20	\$368.40	\$453.00	\$521.40	\$68.40	15.10%	\$205.20	64.90%
139,000	\$318.60	\$318.60	\$371.20	\$456.50	\$525.20	\$68.70	15.05%	\$206.60	64.85%
140,000	\$321.00	\$321.00	\$374.00	\$460.00	\$529.00	\$69.00	15.00%	\$208.00	64.80%
141,000	\$323.40	\$323.40	\$376.80	\$463.50	\$532.80	\$69.30	14.95%	\$209.40	64.75%
142,000	\$325.80	\$325.80	\$379.60	\$467.00	\$536.60	\$69.60	14.90%	\$210.80	64.70%
143,000	\$328.20	\$328.20	\$382.40	\$470.50	\$540.40	\$69.90	14.86%	\$212.20	64.66%
144,000	\$330.60	\$330.60	\$385.20	\$474.00	\$544.20	\$70.20	14.81%	\$213.60	64.61%
145,000	\$333.00	\$333.00	\$388.00	\$477.50	\$548.00	\$70.50	14.76%	\$215.00	64.56%
146,000	\$335.40	\$335.40	\$390.80	\$481.00	\$551.80	\$70.80	14.72%	\$216.40	64.52%
147,000	\$337.80	\$337.80	\$393.60	\$484.50	\$555.60	\$71.10	14.67%	\$217.80	64.48%
148,000	\$340.20	\$340.20	\$396.40	\$488.00	\$559.40	\$71.40	14.63%	\$219.20	64.43%
149,000	\$342.60	\$342.60	\$399.20	\$491.50	\$563.20	\$71.70	14.59%	\$220.60	64.39%
150,000	\$345.00	\$345.00	\$402.00	\$495.00	\$567.00	\$72.00	14.55%	\$222.00	64.35%
200,000	\$465.00	\$465.00	\$542.00	\$670.00	\$757.00	\$87.00	12.99%	\$292.00	62.80%
250,000	\$585.00	\$585.00	\$682.00	\$845.00	\$947.00	\$102.00	12.07%	\$362.00	61.88%
500,000	\$1,185.00	\$1,185.00	\$1,382.00	\$1,720.00	\$1,897.00	\$177.00	10.29%	\$712.00	60.08%
750,000	\$1,785.00	\$1,785.00	\$2,082.00	\$2,595.00	\$2,847.00	\$252.00	9.71%	\$1,062.00	59.50%
1,000,000	\$2,385.00	\$2,385.00	\$2,782.00	\$3,470.00	\$3,797.00	\$327.00	9.42%	\$1,412.00	59.20%
1,500,000	\$3,585.00	\$3,585.00	\$4,182.00	\$5,220.00	\$5,697.00	\$477.00	9.14%	\$2,112.00	58.91%
2,000,000	\$4,785.00	\$4,785.00	\$5,582.00	\$6,970.00	\$7,597.00	\$627.00	9.00%	\$2,812.00	58.77%