THE COMMONWEALTH OF MASSACHUSETTS

RETURN

OF

AQUARION WATER COMPANY OF MASSACHUSETTS

TO THE

DEPARTMENT OF PUBLIC UTILITIES

OF MASSACHUSETTS

For the Year Ended December 31, 2013

Name of Officer to whom correspondence should be addressed regarding this report,

Debra Kirven

Official Title Controller Office Address: 600 Lindley Street

Bridgeport, CT 06606

		General Information	
	Pri	ncipal and Salaried Officers*	
Titles	Names	Addresses	Annual Salaries
President Chief Executive Officer	Charles V. Firlotte	Aquarion Water Company 835 Main St., Bridgeport, CT 06604	\$381,502.53 * \$21,529.68 charged to MA.
ice President of Operations	John P. Walsh	Aquarion Water Company of Massachusetts, Inc. 900 Main St., Hingham, MA 02018	\$167,389.46 * \$94,755.66 charged to MA.
Executive Vice President, reasurer, Secretary and Clerk	Donald J. Morrissey	Aquarion Water Company 835 Main St., Bridgeport, CT 06604	\$275,403.10 * \$15,095.35 charged to MA.
Vice President Operations	Howard J. Dunn	Aquarion Water Company 600 Lindley Street Bridgeport, CT 06604 left company April 2013	\$69,377.06 * \$0 charged to MA.
Vice President Corporate Communications	Bruce T. Silverstone	Aquarion Water Company 835 Main St., Bridgeport, CT 06604	\$160,570.88 * \$0 charged to MA.
		Directors*	
Names		Addresses	Fees Paid During Year
Howard J. Dunn		Aquarion Water Company 600 Lindley St., Bridgeport, CT 06606 left company April 2013	\$0
Charles V. Firlotte		Aquarion Water Company 835 Main St., Bridgeport, CT 06604	\$0
Donald J. Morrissey		Aquarion Water Company 835 Main St., Bridgeport, CT 06604	\$0

103 Annual Banart of Aquation Water Company	w of Magaaabugatta			Vaa	r and ad Dacambar 21, 2012
103 GENERAL INFORMATION CENERAL INFORMATION CENERAL INFORMATION 1. Full company Aquarion Water Company of Massachusetts Telephone No. (731) 740-6893 2. Location of principal business office 900 Main Street Hingham, MA 02043 3 3. Date of organization					
1. Full corporate title company	Aquarion Water Company	y of Massachusetts		Telephone No.	<u>(781) 740-6693</u>
2. Location of principal business office	900 Main Street Hingham	n, MA 02043			
3. Date of organization	<u>August 9, 1879</u>		4. Date of incorporation	March 21, 1879	
5. Whether incorporated under general or sp	becial law	Special			
6. If under special law, give chapter and yea	r of act	Chapter 139 Act	of 1879		
7. Give chapter and year of any subsequent	special legislation affecting	the Company	Chapters	59, 88, 54, 168, 482 of A	<u>cts</u>
1881, 1886, 1910, 1914, and 1924 respective	<u>əly</u>				
8. Territory covered by charter rights	Towns of Hingham, Hull,	Millbury, Oxford, and	I parts of Cohasset and Norwel	I	
9. Capital stock authorized by charter,	\$5,000.0	00			
10. Capital stock issued prior to August 1, 19	14,	\$300,00	<u>0</u>		
	rd of Gas and Electric Light	Commissioners or th	ne Department of Public Utilities	s since	
	\$100.00 each		\$3,757,100.00		
				s on	
NONE					
13. Management Fees and Expenses during	the Year				
management or supervision of its affairs s	such as accounting, financir				
Aquarion Company					
Aquarion Water Compa	any of Connecticut		\$1,274,	789	
14. Date when Company first began to distrib	ute and sell water		July 3, 1880		
15. Total number of stockholders	One				
16. Number of stockholders resident in Massa	achusettes		NONE		
17. Amount of stock held in Massachusettes,	number of shares	, amount	<u>N/A</u>		

200						
Annua	al Report of Aquarion W	ater Company of Massachusetts			Yea	ar ended December 31, 2013
		COMPARATIVE GENERAL BALA	NCE	SHEET		
The en	tries in this balance sheet s	hould be consitent with those in the supporting sch	edule	es on the pages i	ndica	ated.
All cred	dit items hereunder should b	be in red ink				
Line	Balance at Beginning	Assets Balance at close				Net Change During Year
No.	of Year			of Year		
	(a)	(b)		(c)		(d)
1		INVESTMENTS				
2		101-113 Plant Investments (p202)	\$	62,065,899	\$	1,271,660
3		114-119 General Equipment (p202)	\$	1,822,246	\$	(183,868)
4		201 Unfinished Construction(p202)	\$	535,889	\$	377,364
5		202 Miscellaneous Physical Property (p203)	\$	1,401	\$	-
6		203 Other Investments (p203)	\$	19,451	\$	11,859
7	\$ 62,967,871	Total Investments	\$	64,444,886	\$	1,477,014
8		CURRENT ASSETS				
9	\$ 102,498	204 Cash	\$	180	\$	(102,318)
10		205 Special Deposits	\$	-	\$	-
11	\$ 300,000	206 Notes Receivable	\$	2,200,000	\$	1,900,000
12		207 Accounts Receivable	\$	1,012,707	\$	(98,267)
13	\$ -	208 Interest and Dividends Receivable	\$	-	\$	-
14		209 Materials and Supplies	\$	278,445	\$	5,213
15	\$ 2,098,477	210 Other Current Assets	\$	2,119,917	\$	21,440
16	\$ 3,885,181	Total Current Assets	\$	5,611,249	\$	1,726,068
17		RESERVE FUNDS				
18	\$ -	211 Sinking Funds	\$	-	\$	-
19	\$ -	212 Insurance and Other Funds	\$	-	\$	-
20	\$-	Total Reserve Funds	\$	-	\$	-
21		PREPAID ACCOUNTS				
22	\$ -	213 Prepaid Insurance	\$	-	\$	-
23	\$ -	214 Prepaid Interest	\$	-	\$	-
24	\$ 29,981	215 Other Prepayments	\$	60,060	\$	30,079
25	\$ 29,981	Total Prepaid Accounts	\$	60,060	\$	30,079
26		UNADJUSTED DEBITS				· · · · · · · · · · · · · · · · · · ·
27	\$ 236,030	216 Unamortized Dept Discount Exp (p203)	\$	210,639	\$	(25,392)
28		217 Property Abandoned	\$	-	\$	-
29		218 Other Unadjusted Debits (p203)	\$	5,993,771	\$	(2,145,577)
30	\$ 8,375,378	Total Unadjusted Debits	\$	6,204,410	\$	(2,170,968)
31		•			-	
32	\$ 75,258,411	GRAND TOTAL	\$	76,320,605	\$	1,062,193

201						
	Report of Aquarion Wa	ter Company of Massachusetts			Yea	ar ended December 31, 2013
	·	COMPARATIVE GENERAL BALAN	CE S	HEET		
		ould be consitent with those in the supporting schedu	les or	n the pages indic	ated	I. All debit
Items he	reunder should be in red in Balance at Beginning	κ. Liabilities	Pal	ance at close		Net Change During Year
No.	of Year	Liabilities	Dai	of Year		Net Change During Teal
NO.	(a)	(b)		(C)		(d)
	(4)	(3)		(0)		(4)
1		CAPITAL STOCK				
2						
3		301 Common Stock (p. 204)	\$	3,757,100	\$	-
4	\$-	302 Preferred Stock (p. 204)	\$	-	\$	-
5	\$ -	303 Employees' Stock (p. 204)	\$	-	\$	-
6	\$ 3,757,100	Total Capital Stock	\$	3,757,100	\$	-
7	\$ 1.135.450	304 Premium on Capital Stock	\$	1,135,450	\$	
0 9	φ 1,135,450	304 Premium on Capital Stock	Þ	1,135,450	þ	-
10		BONDS, COUPON AND LONG TERM NOTES				
10		Bondo, ocor on And Long Tenminored				
12	\$ 19,478,898	305 Bonds (p. 204)	\$	19,320,000	\$	(158,898)
13	\$ -	306 Coupon and Long Term Notes (p. 204)	\$	-	\$	-
14	\$ 19,478,898	Total Bonds, Coupon and Long Term Notes	\$	19,320,000	\$	(158,898)
15						
16		CURRENT LIABILITIES				
17		307 Notes Payable (p. 205)	\$	-	\$	-
18 19		308 Accounts Payable	\$	1,070,584	\$	415,496
19 20		309 Consumers' Deposits 310 Matured Interest Unpaid	\$ \$	536	\$ \$	(212)
20		311 Dividends Declared	э \$	-	э \$	
22	\$-	312 Other Current Liabilities	\$	-	\$	-
23	\$ 655,836	Total Current Liabilities	\$	1,071,120	\$	415,284
24	·					
25		ACCRUED LIABILITIES				
26		313 Tax Liability	\$	(91)		-
27		314 Interest Accrued	\$	152,639		1,679
28		315 Other Accrued Liabilities Total Accrued Liabilities	\$	95,296	\$	(7,153)
29 30	\$ 253,318	Total Accrued Liabilities	\$	247,844	\$	(5,474)
30		UNADJUSTED CREDITS				
32	\$ 61,659	316 Premium on Bonds (p. 205)	\$	55,875	\$	(5,784)
33		317 Other Unadjusted Credits (p. 205)	\$	4,598,545	\$	(4.610.759)
34				,,		
35	\$ 9,270,963	Total Unadjusted Credits	\$	4,654,420	\$	(4,616,543)
36						
37	•	RESERVES	_			
38	\$ -	318 Insurance and Casualty Reserve	\$	-	\$	-
39 40	\$ 13,982,671 \$ 5,187,938	319 Depreciation Reserve (p. 206)	\$	14,890,736	\$	908,065
40	\$ 5,187,938 \$ 19.170.609	320 Other Reserves Total Reserves	\$ \$	8,434,314 23.325.050	\$ \$	3,246,376 4,154,441
41	φ 19,170,609	I Otal Reserves	Ð	∠3,3∠3,050	Þ	4,154,441
42		APPROPRIATED SURPLUS				
43	\$ -	321 Sinking Fund Reserves	\$	-	\$	-
45		323 Contributions for Extensions	\$	11,997,004	\$	(88,874)
46	\$ 3,844,050	324 Surplus Invested in Plant	\$	3,844,050	\$	
47	\$ 15,929,928	Total Appropriated Surplus	\$	15,841,054	\$	(88,874)
48						
49		400 Profit and Loss Balance (p. 301) +	\$	6,968,568	\$	1,362,258
50	\$ 21,536,237	Total Corporate Surplus +	\$	22,809,622	\$	1,273,384
51	\$ 75,258,411	GRAND TOTAL	\$	76,320,605	\$	1,062,194

	ne whole or any part of "Unfinished Con s debited should appear in Col. (c) in bl		he Plant accounts, the	amounts transferred should	l appear in Col. (e) in red a	nd the
Line No.	NAME OF ACCOUNT (a)	Balance at Beginning of Year (b)	Additions During Year (c)	Plant Retired During Year (d)	Adjustments During Year (e)	Balance at Close of Year (f)
1	INTANGIBLE PROPERTY					
2	Organization	82,595	-	-	-	82,59
3	Misc. Intangible Invest.	-	-	-	-	- ,-
4	Total Intangible Property	82,595	-	-	-	82,5
5	TANGIBLE PROPERTY					
6	Land	243,845	-	-	-	243,8
7	Structures	15,592,230	77,512	(22,606)	-	15,647,1
8	Pumping Plant Equipment	1,487,376	72,738	(12,140)	-	1,547,9
9	Misc. Pumping Plant Equipment	124,477	-	(6,831)	-	117,6
10	Purification System	2,600,250	241,335	(29,072)	-	2,812,5
11	Trans'n and Dist'n Mains	29,733,588	874,362	(33,064)	-	30,574,8
12	Services	6,814,318	193,890	(4,377)	-	7,003,8
13	Consumers' Meters	2,200,500	242,355	(364,456)	-	2,078,3
14	Consumers' Meter Installation	672,540	-	-	-	672,54
15	Hydrants	482,346	28,935	(2,700)	-	508,5
16	Fire Cist'ns, Basins, Fount'ns				-	
17	Water Rights				-	
18	Other Trans'n & Dist'n Plant	760,174	15,779	-	-	775,9
19	Miscellaneous Expenditures				-	
20	Total Plant Investment	60,711,644	1,746,905	(475,245)	-	61,983,3
21	GENERAL EQUIPMENT					
22	Office Equipment	529,752	32,436	(15,989)	-	546,1
23	Shop Equipment	318,382	9,245	(68,947)	-	258,6
24	Stores Equipment	132,056	-	(1,352)	-	130,7
25	Transportation Equipment	621,958	7,474	(16,177)	-	613,2
26	Laboratory Equipment	52,792	-	(16,787)	-	36,0
27	Miscellaneous Equipment	351,174	-	(113,771)	-	237,4
28	Total General Equipment	2,006,114	49,155	(233,023)	-	1,822,2
29	Unfinished Construction	158,525	2,173,424	-	(1,796,060)	535,8
30	Total Cost of All Property	62,958,877	3,969,484	(708,268)	(1,796,060)	64,424,0
31	Assessed Value of Real Estate	15,836,075	77,512	(22,606)	-	15,890,9
32	Assessed Value of Other Property	46,881,684	1,718,548	(685,662)	-	47,914,5
33	Total Assessed Value	62,717,758	1,796,060	(708,268)	-	63,805,5

PLANT INVESTMENT ACCOUNTS

202

Annual Report of Aquarion Water Company of Massachusetts

Show for all items of plant, classified in accordance with the prescribed Uniform System of Accounts, the particulars called for by the column headings Credits in column (d) for plant retired during the year should be fully explained in a footnote. Col. (e). "Adjustments made during the year, "should be interpreted to mean modifications of entries made in prior accounting periods. When any adjusting entry is made in Col. (e), the credit to the account should be shown in red; in case the amount is transferred to some other account in the same schedule, the debit amount should appear in the same column in black.

Year ended December 31, 2013

203					
Annu	al Report of Aquarion Water Company of Massa	chusetts			Year ended December 31, 2013
MISC	ELLANEOUS PHYSICAL PROPERTY				
	Give particulars of all investments of the respondent in	physical property pet o	loveted to utility operatio	n	
	Give particulars of all investments of the respondent in	i priysical property not c	levoled to utility operatio	41.	
	DESCRIPTION AND LOCATION OF				
Line	MISCELLANEOUS PHYSICAL PROPERTY	Book Value	Revenue	Expense	Not Revenue
No.	HELD AT END OF YEAR	at End of Year	for the Year	for the Year	for the Year
	(a)	(b)	(c)	(d)	(e)
1	Easement Right-of-Way	\$1,401			\$1,401
2 3					
4					
5	Totals	\$1,401			\$1,401
			•	•	
			INVESTMENTS		
	Give particulars of	of investments in stock		the respondent at end of year	ar.
6	Investment in Collegel, ACR	¢7 500 00	(a)		C40.454.00
ю 7	Investment in CoBank, ACB	\$7,592.00	\$11,859.00		\$19,451.00
8					
9					
				Total	\$19,451.00
			•	•	
			T DISCOUNT AND EX		
	Give an analysis of the respondent's accodiscount and				
	If the account represents only the expense ncurred in c				
	erased. Entries in Col (d) should be consistant with th	e returns made on page	e 301, Schedules of Inco	me and	
	Profit and Loss.				
		Unextinguished	Discount on		Unextinguished
	NAME OF SECURITY	Discount at	Bonds etc., Issued	Discount Written off	Discount at
		Beginning of Year	During Year	During Year	Close of Year
	(a)	(b)	(c)	(d)	(e)
	(-)	()	(-)	(-)	(-)
10	General Mtg Bonds 7.71%	\$ 32,290		\$ 2,958	\$ 29,332
11	General Mtg Bonds 9.64%	\$ 19,335		\$ 2,148	
	MA Water Pollution Abatement Trust Loan - 0.0%	\$ 31,595		\$ 2,985	
13	CoBank, ACB Swap 4.11%	\$ 152,811	\$ -	\$ 17,299	\$ 135,511
14 15	TOTALS	\$ 236,030	¢	\$ 25,391	\$ 210,639
15	TOTAES	φ 230,030	ý -	φ 23,331	\$ 210,035
		OTHER	UNADJUSTED DEBIT	s	
	Give an analysis of the abvove-entitled account as of o				
	\$500 or more. Items less than '\$500 may be combine				
	\$500," giving the number of items thus combined."				
	DESCRIPTION AND CHARACTER	Balance at	Amount Added	Amount Written off	Balance at Close
	OF UNADJUSTED DEBITS	Beginning of Year	During Year	During Year	of Year
	OF ONADJUSTED DEBITS	(b)	(c)	(d)	(e)
		(5)	(9)	(4)	(5)
16	Deferred Taxes	\$ 355,683	\$ 4,491,121	\$ 1,730,154	\$ 3,116,650
17	Deferred Pension	\$ 999,020	\$ 300,197	\$ 367,581	
	Deferred FAS 106	\$ 691,170	\$ 108,887	\$ 256,088	
	Deferred Rate Proceedings	\$ 322,003	\$ -	\$ 143,112	
	Deferred Perchlorate Costs	\$ 12,554		\$ 3,863	
21 22	Additional Security Costs	\$ 134,324	\$-	\$ 41,330	\$ 92,994
22 23	FAS 158 Deferred Debits Deferred Well Maintenance	\$ 5,366,260 \$ 62,049	\$ - \$ 19,906	\$ 4,409,792 \$ 26,530	
23 24	Deferred Town of Oxford - Litigation Costs	\$ 196,285	\$ 19,900	\$ 20,330	\$ 35,425
25		+ 100,200		÷ 57,200	+ 100,047
26					
27					
28					
29					
30					
31 32					
32 33					
34					
35	TOTALS	\$ 8,139,348	\$ 4,920,111	\$ 7,065,688	\$ 5,993,771
~~					

204									
	al Report of Aquarion Water Company of M	lassachuset	ts						Year ended December 31, 2013
					CAPITAL STOC	(
ive r	particulars of the various issues of capital stor	k of the resp	ondent as cal	led for in the following sch		`			
	nount of Capital Stock authorized in Col. (d) si								
ie un		now only the	amount autio	nzou by the regulatory bo	ay.				
				Number of Shares	Par Value of	Amount of Capital Stock		Amount Actually Out-	Total Premium At
	Decription			Authorized	One Share	Authorized		standing at End of Year	End of Year
ine									
No.	(a)			(b)	(c)	(d)		(e)	(f)
1	Capital Stock: Common			50.000	\$ 100		\$ 5,000,000	\$ 3,757,100	\$ 4.979.50
2	Preferred			50,000	φ 100		φ 3,000,000	φ 3,737,100	φ 4,979,30
3	Employee								
4									
i	Give particulars of various issues of bond, co ing issues that may have been assumed by th			as called for in the follow		names of any underly-	\$ 5,000,000	\$ 3,757,100	\$ 4,979,50
i	Give particulars of various issues of bond, co	upons, and lone responder	nt. The total of	as called for in the follow	ing schedule, giving the r ant with return made on p	names of any underly- age 301, Income	\$ 5,000,000		\$ 4,979,50
i	Give particulars of various issues of bond, co ing issues that may have been assumed by th Schedule (line 20).	upons, and k ne responder Date	nt. The total of Date	as called for in the follow col. (h) should be consist	ing schedule, giving the r ant with return made on p Par Value	names of any underly- age 301, Income INTEREST	\$ 5,000,000	Interest Accrued	
i	Give particulars of various issues of bond, co ing issues that may have been assumed by th	upons, and lone responder	nt. The total of	as called for in the follow	ning schedule, giving the r ant with return made on p Par Value Actually Outstanding	names of any underly- nage 301, Income INTEREST PROVISIONS		Interest Accrued During Year	Interest Paid
i	Give particulars of various issues of bond, co ing issues that may have been assumed by th Schedule (line 20).	upons, and k ne responder Date	nt. The total of Date	as called for in the follow col. (h) should be consist	ing schedule, giving the r ant with return made on p Par Value	names of any underly- age 301, Income INTEREST PROVISIONS Rate	Dates	Interest Accrued	
i	Give particulars of various issues of bond, co ing issues that may have been assumed by th Schedule (line 20). NAME AND CHARACTER OF OBLIGATION	upons, and k ne responder Date of Issue	Date of Maturity	as called for in the follow col. (h) should be consist Par Value Authorized	ing schedule, giving the r ant with return made on p Par Value Actually Outstanding at End of Year	names of any underly- age 301, Income INTEREST PROVISIONS Rate Per Cent	Dates Due	Interest Accrued During Year Charged to Income	Interest Paid During Year
1	Give particulars of various issues of bond, co ing issues that may have been assumed by th Schedule (line 20).	upons, and k ne responder Date	nt. The total of Date	as called for in the follow col. (h) should be consist	ning schedule, giving the r ant with return made on p Par Value Actually Outstanding	names of any underly- age 301, Income INTEREST PROVISIONS Rate	Dates	Interest Accrued During Year	Interest Paid
6	Give particulars of various issues of bond, co ing issues that may have been assumed by th Schedule (line 20). NAME AND CHARACTER OF OBLIGATION (a)	upons, and k ne responder Date of Issue	Date of Maturity	as called for in the follow col. (h) should be consist Par Value Authorized	ing schedule, giving the r ant with return made on p Par Value Actually Outstanding at End of Year (e)	names of any underly- age 301, Income INTEREST PROVISIONS Rate Per Cent	Dates Due	Interest Accrued During Year Charged to Income	Interest Paid During Year (i)
6 7 8	Give particulars of various issues of bond, co ing issues that may have been assumed by th Schedule (line 20). NAME AND CHARACTER OF OBLIGATION (a) Mortgage Bonds: General Mortgage General Mortgage	upons, and k ne responder Oate of Issue (b) 11/93 12/91	Date of Maturity (c) 6/23 9/21	as called for in the follow col. (h) should be consist Par Value Authorized (d) \$ 7,000,000 \$ 1,400,000	Ing schedule, giving the r ant with return made on p Par Value Actually Outstanding at End of Year (e) \$ 7,000,000 \$ 1,400,000	INTEREST PROVISIONS Rate Per Cent (f) 7.71% 9.64%	Dates Due (g)	Interest Accrued During Year Charged to Income (h)	Interest Paid During Year (i) \$ 539,70
6 7 8 9	Give particulars of various issues of bond, co ing issues that may have been assumed by the Schedule (line 20). NAME AND CHARACTER OF OBLIGATION (a) Mortgage Bonds: General Mortgage General Mortgage MA Water Pollution Abatement Trust Loan	upons, and lo ne responder Date of Issue (b) 11/93 12/91 03/03	Date of Maturity (c) (23 9/21 08/23	as called for in the follow col. (h) should be consist Par Value Authorized (d) \$ 7,000,000 \$ 1,400,000 \$ 1,920,000	Par Value Actually Outstanding at End of Year (e) \$ 7,000,000 \$ 1,400,000 \$ 1,920,000	INTEREST PROVISIONS Rate Per Cent (f) 7.71% 9.64% 0.00%	Dates Due (g) Jun/Dec Mar/Sep	Interest Accrued During Year Charged to Income (h) \$ 539,700 \$ 134,960 \$ -	Interest Paid During Year (i) \$ 539,7/ \$ 134,9/ \$
6 7 8 9 10	Give particulars of various issues of bond, co ing issues that may have been assumed by the Schedule (line 20). NAME AND CHARACTER OF OBLIGATION (a) Mortgage Bonds: General Mortgage General Mortgage General Mortgage MA Water Pollution Abatement Trust Loan General Mortgage - swap Ioan	upons, and k ne responder Oate of Issue (b) 11/93 12/91	Date of Maturity (c) 6/23 9/21	as called for in the follow col. (h) should be consist Par Value Authorized (d) \$ 7,000,000 \$ 1,400,000 \$ 1,920,000 \$ 9,000,000	S 7,000,000 \$ 1,400,000 \$ 9,000,000	INTEREST PROVISIONS Rate Per Cent (f) 7.71% 9.64%	Dates Due (g) Jun/Dec	Interest Accrued During Year Charged to Income (h) \$ 539,700 \$ 134,960 \$ - \$ 376,717	Interest Paid During Year (i) \$ 539,7' \$ 134,9' \$ 134,9' \$ 375,0'
6 7 8 9 10 11	Give particulars of various issues of bond, co ing issues that may have been assumed by the Schedule (line 20). NAME AND CHARACTER OF OBLIGATION (a) Mortgage Bonds: General Mortgage General Mortgage MA Water Pollution Abatement Trust Loan General Mortgage - swap Ioan Total Bonds	upons, and lo ne responder Date of Issue (b) 11/93 12/91 03/03	Date of Maturity (c) (23 9/21 08/23	as called for in the follow col. (h) should be consist Par Value Authorized (d) \$ 7,000,000 \$ 1,400,000 \$ 1,920,000	S 7,000,000 \$ 1,400,000 \$ 9,000,000	INTEREST PROVISIONS Rate Per Cent (f) 7.71% 9.64% 0.00%	Dates Due (g) Jun/Dec Mar/Sep	Interest Accrued During Year Charged to Income (h) \$ 539,700 \$ 134,960 \$ -	Interest Paid During Year (i) \$ 539,7' \$ 134,9' \$ 134,9' \$ 375,0'
6 7 8 9 10 11 12	Give particulars of various issues of bond, co ing issues that may have been assumed by the Schedule (line 20). NAME AND CHARACTER OF OBLIGATION (a) Mortgage Bonds: General Mortgage General Mortgage General Mortgage MA Water Pollution Abatement Trust Loan General Mortgage - swap Ioan	upons, and lo ne responder Date of Issue (b) 11/93 12/91 03/03	Date of Maturity (c) (23 9/21 08/23	as called for in the follow col. (h) should be consist Par Value Authorized (d) \$ 7,000,000 \$ 1,400,000 \$ 1,920,000 \$ 9,000,000	S 7,000,000 \$ 1,400,000 \$ 9,000,000	INTEREST PROVISIONS Rate Per Cent (f) 7.71% 9.64% 0.00%	Dates Due (g) Jun/Dec Mar/Sep	Interest Accrued During Year Charged to Income (h) \$ 539,700 \$ 134,960 \$ - \$ 376,717	Interest Paid During Year (i) \$ 539,7' \$ 134,9' \$ 134,9' \$ 375,0'
6 7 8 9 10 11 12 13	Give particulars of various issues of bond, co ing issues that may have been assumed by the Schedule (line 20). NAME AND CHARACTER OF OBLIGATION (a) Mortgage Bonds: General Mortgage General Mortgage MA Water Pollution Abatement Trust Loan General Mortgage - swap Ioan Total Bonds	upons, and lo ne responder Date of Issue (b) 11/93 12/91 03/03	Date of Maturity (c) (23 9/21 08/23	as called for in the follow col. (h) should be consist Par Value Authorized (d) \$ 7,000,000 \$ 1,400,000 \$ 1,920,000 \$ 9,000,000	S 7,000,000 \$ 1,400,000 \$ 9,000,000	INTEREST PROVISIONS Rate Per Cent (f) 7.71% 9.64% 0.00%	Dates Due (g) Jun/Dec Mar/Sep	Interest Accrued During Year Charged to Income (h) \$ 539,700 \$ 134,960 \$ - \$ 376,717	Interest Paid During Year (i) \$ 539,7 \$ 134,9 \$ \$ 375,0
6 7 8 9 10 11 12 13 14	Give particulars of various issues of bond, co ing issues that may have been assumed by the Schedule (line 20). NAME AND CHARACTER OF OBLIGATION (a) Mortgage Bonds: General Mortgage General Mortgage MA Water Pollution Abatement Trust Loan General Mortgage - swap Ioan Total Bonds	upons, and lo ne responder Date of Issue (b) 11/93 12/91 03/03	Date of Maturity (c) (23 9/21 08/23	as called for in the follow col. (h) should be consist Par Value Authorized (d) \$ 7,000,000 \$ 1,400,000 \$ 1,920,000 \$ 9,000,000	S 7,000,000 \$ 1,400,000 \$ 9,000,000	INTEREST PROVISIONS Rate Per Cent (f) 7.71% 9.64% 0.00%	Dates Due (g) Jun/Dec Mar/Sep	Interest Accrued During Year Charged to Income (h) \$ 539,700 \$ 134,960 \$ - \$ 376,717	Interest Paid During Year (i) \$ 539,7' \$ 134,9' \$ 134,9' \$ 375,0'
6 7 8 9 10 11 12 13 14 15	Give particulars of various issues of bond, co ing issues that may have been assumed by the Schedule (line 20). NAME AND CHARACTER OF OBLIGATION (a) Mortgage Bonds: General Mortgage General Mortgage MA Water Pollution Abatement Trust Loan General Mortgage - swap Ioan Total Bonds	upons, and lo ne responder Date of Issue (b) 11/93 12/91 03/03	Date of Maturity (c) (23 9/21 08/23	as called for in the follow col. (h) should be consist Par Value Authorized (d) \$ 7,000,000 \$ 1,400,000 \$ 1,920,000 \$ 9,000,000	S 7,000,000 \$ 1,400,000 \$ 9,000,000	INTEREST PROVISIONS Rate Per Cent (f) 7.71% 9.64% 0.00%	Dates Due (g) Jun/Dec Mar/Sep	Interest Accrued During Year Charged to Income (h) \$ 539,700 \$ 134,960 \$ - \$ 376,717	Interest Paid During Year (i) \$ 539,7' \$ 134,9' \$ 134,9' \$ 375,0'
6 7 9 10 11	Give particulars of various issues of bond, co ing issues that may have been assumed by the Schedule (line 20). NAME AND CHARACTER OF OBLIGATION (a) Mortgage Bonds: General Mortgage General Mortgage MA Water Pollution Abatement Trust Loan General Mortgage - swap Ioan Total Bonds	upons, and lo ne responder Date of Issue (b) 11/93 12/91 03/03	Date of Maturity (c) (23 9/21 08/23	as called for in the follow col. (h) should be consist Par Value Authorized (d) \$ 7,000,000 \$ 1,400,000 \$ 1,920,000 \$ 9,000,000	S 7,000,000 \$ 1,400,000 \$ 9,000,000	INTEREST PROVISIONS Rate Per Cent (f) 7.71% 9.64% 0.00%	Dates Due (g) Jun/Dec Mar/Sep	Interest Accrued During Year Charged to Income (h) \$ 539,700 \$ 134,960 \$ - \$ 376,717	Interest Paid During Year (i) \$ 539,7(\$ 134,9(\$ \$ 375,03 \$

205							
Annu	al Report of Aquarion Water Cor	npany of Massac	husetts			Year end	ed December 31, 2013
			SUNDRY CU	RRENT LIABILITIES			
			NC	TES PAYABLE			
-					Rate of		
Line	Name of Creditor	Date of Issue	Date of Maturity	How Secured	Interst		Amount
No.	(a)	(b)	(c)	(d)	(e)		(f)
1	Aquarion Company					\$	-
2							
3							
4							
5							
6							
7							
8					TOTAL	\$	-
				IM ON BONDS			
	Give an analysis of the responden				edness. Entries in Col. (d)		
	should be consistent with the return	ns made on page					
			Unextinguished	Premium			Unextinguished
	NAME OF SECURITY		Premium at	on Bonds Issued	Premium Written		Premium at
			Beginning of Year	During Year	Off During Year		End of Year
	(a)		(b)	(C)	(d)		(e)
9	MWPAT Unamortized Premium					\$	55,875
10							
11							
12		TOTALS				\$	55,875
				DJUSTED CREDITS			
	Give the names in Col. (a) and indica						
	Credits." For items less than \$1,000 a	a single entry may b	e made under the caption "Mind	or accounts in numbe	er, each less		
	than \$1,000," stating the number						
	NAME OF SUBACCOUNT		Character of Subaccount				Amount
	(a)		(b)				(c)
	Advances for Construction					\$	365,322
	Deferred OPEB					\$	657,142
	Deferred Pension					\$	3,358,219
	Unrealized (gain) loss on swap					\$	(192,138)
17	Tax benefit due ratepayer					\$	410,000
18							
19 20							
20							
21							
					Tatal	¢	1 E00 E4E
23					Total	Þ	4,598,545

	ear Ended December 31, 201
DEPRECIATION RESERVE	
	Amount
(a)	(b)
Balance at beginning of y	ear 13,982,67
Credits to Depreciation Reserve during year:	
Account 610-10 Depreciation	1,612,079
Other Accounts (Specify):	
Loss of Disposition of Assets	
Depreciation charged to contributed property schedule	
Rate Case adjustment to accumulated depreciation per Docket No D.P.	J. 1
CHARGES DURING YEAR	1,612,079
Net Charges for Plant Retired:	
Book Cost of Plant Retired	708,268
Cost of Removal	
Salvage (credit in red)	(4,254
NET CHARGES DURING YEAR	704,014
Balance at end of y	ear 14,890,730
BASIS OF DEPRECIATION CHARGES	
Give in detail the rules and rate by which the respondent determined the amount charged to	operating expenses and other
accounts, and credited to Depreciation Reserves. report also depreciation taken for the year	for federal income tax purposes.
	Balance at beginning of year Credits to Depreciation Reserve during year: Account 610-10 Depreciation Other Accounts (Specify): Loss of Disposition of Assets Depreciation charged to contributed property schedule Rate Case adjustment to accumulated depreciation per Docket No D.P.I. CHARGES DURING YEAR Net Charges for Plant Retired: Book Cost of Plant Retired Cost of Removal Salvage (credit in red) NET CHARGES DURING YEAR

Annu	аі кер	ort of Aquarion Water Company of Massachusetts			Ŷ	ear ended December 31, 201
		INCOME STATEMENT				
		me Account of the respondent for the year ended December 3	1, 2011	in accordance with t	he Uni	form System of
		Water Companies.				
	Acc't	Item	Amount			Comparison with
No.	No.					Previous Year.
		(a)		(b)		(c)
1		OPERATING INCOME				
2	500	Operating Revenues (p. 302)	\$	15,671,535	\$	(413,410
3	600	Operating Expenses (p. 303)	\$	12,981,962	\$	(111,590
4		Net Operating Revenues	\$	2,689,573	\$	(301,820
5	550	Uncollectible Operating Revenues	\$	39,890	\$	10,529
6	551	Taxes (p. 303B)	\$	331,748	\$	(937,163
7		Net Operating Income	\$	2,317,935	\$	624,814
8		NON-OPERATING INCOME				· · · · · · · · · · · · · · · · · · ·
9	560	Mdse. and Jobbing Revenue*	\$	52,742	\$	5,142
10	561	Rent from Appliances	\$	-	\$	
11		Miscellaneous Rent Income	\$	-	\$	-
12	563	Interest and Dividend Income	\$	-	\$	-
13	564	MWPAT Loan - Net Subsidy	\$	9,165	\$	4,779
14	565	MWPAT Amortization of Debt Premium	\$	5,784	\$	·
15	566	Miscellaneous Non-operating Income	\$	103,036	\$	6,206
16		Total Non-operating Income	\$	170,727	\$	16,127
17		GROSS INCOME	\$	2,488,662	\$	640,941
18		DEDUCTIONS FROM GROSS INCOME				
19	575	Miscellaneous Rents	\$	-	\$	-
20	576	Interest on Bonds and Coupon Notes	\$	1,054,808	\$	(21,151
21	577	Miscellaneous Interest Deductions	\$	-	\$	
22	578	Amortization of Discount (p. 203)	\$	25,391	\$	-
23	579	Miscellaneous Deductions from Income	\$	18,690	\$	(300,539
24		Total Deductions from Gross Income	\$	1,098,889	\$	(321,690
24		Income Balance transferred to Profit and Loss	\$	1,389,773	\$	962,631
	1	PROFIT AND LOSS	STAT			,

Show hereunder the items of the Profit and Loss Account of the respondent, classified in accordance with the Uniform System of Accounts for Water Companies.

Line	Acc't	Item	Debits		Credits
No.	No.	(a)	(b)		(c)
26		CREDITS			
27	401	Credit Balance at Beginning of Fiscal Period (p.201)		\$	5,606,309
28	402	Credit Balance transferred from Income Acct. (p.301)		\$	1,389,773
29	403	Miscellaneous Credits, (transfer from paid-in-capital)		\$	-
30		DEBITS			
31	411	Debit Balance at Beginning of Fiscal Period (p.201)			
32	412	Debit Balance transferred from Income Acct. (p.301)			
33	413	Accumulated other comprehensive gain on swap		\$	661,985
34	414	Dividend Appropriation of Surplus (p.302)	\$ 689,500		
35	415	Appropriations of Surplus for Depreciation (p.204)			
36	416	Dic'nt on Bonds Exting'd through Surplus (p.203)			
37	417	Other Deductions from Surplus for Depreciation (p.204)			
38	418	Appropriations of Surplus for Construction			
39		Balance carried Forward to Balance Sheet		\$	27,515
		TOTALS		\$	6,968,568
(Note)	Explain	below amounts entered as Other Deductions from Surplus or Misce		1.	

302									
Annua	l Rep	port of Aquarion Water Company of Massachusetts					Year end	ed Decemb	er 31, 2013
		erating revenues of the respondent for the year ended Decen orm System of Accounts.	-	ERATING RI					
Line	Acc'	t CLASS OF WATER OPERATING REVENUE	Amount of F	Revenue	Comparison with				
No.	No.		for Ye		Previous Year				
1		REVENUES FROM SALE OF WATER							
2	501	Metered Sales to General Consumers	\$	14,066,391	\$ (491,18	87)			
3		Plat-rate Sales to General Consumers	\$	654,973					
4		Sales to Other Water Companies	\$	-	\$	-			
5		Municipal Hydrants	\$	892,192	\$ 7,66	60			
6	505	Miscellaneous Municipal Revenues	\$	-	\$	-			
7		Total Revenues from Water Operations	\$	15,613,556	\$ (433,97	76)			
8		MISCELLANEOUS REVENUES							
9	506	Rent from Property used in Operation	\$	-	\$	-			
10	507	Miscellaneous Operating Revenues	\$	57,979	\$ 20,56	66			
11		Total Revenues from Miscellaneous Operation	\$	57,979	\$ 20,50	66			
12		Total Operating Revenues	\$	15,671,535	\$ (413,47	10)			
			DIVIDENDS	DECLARED	DURING THE YEAR				
		particulars of dividends on each class of stock during the year dule shall include only dividends that have been declared by							
Line		NAME OF SECURITY	RATE PER	CENT	Amount of Capital Stoc	k		1	
No.		ON WHICH DIVIDEND WAS DECLARED	Regular	Extra	on which Dividend was			D4	TE
			Regular	Extra	Declared	·	Amount of Dividend	Declared	
		(a)	(b) (c)		(d)		(e)	Declarea	i uyubic
13		Common Stock	(5) (5)		(0)	\$	689,500		
14						Ť	303,000		
15									
16									
17									
19									
20									
21									
22									
23									
24		Totals				\$	689,500		

nual Re	port of Aqu	arion Water Company of Massachusetts			Year	ended December 31, 201
	• • •	OPERATING EXPENSES				·
		(For companies having average operating revenues of m	nore	than \$15,000.)		
ate the op	erating expe	enses of the respondent for the year ended December 31, 2011 classif	ying	them in accord	dance	with the Uniform
stem of A						
Line	Acc't	Item		Amount		Comparison with
No.	No.					Previous Year.
		(a)		(b)		(c)
1		SOURCE OF WATER SUPPLY EXPENSES				
2	601-1	Maintenance of Water Supply Buildings and Fixtures	\$	41,330	\$	
3	601-2	Maintenance of Surface Source of Supply Facilities	\$	-	\$	
4	601-3	Maintenance of Ground Source of Water Supply	\$	82.226	\$	(6,46
5		Total Source of Water Supply Expenses	\$	123,556	\$	(6,46
6	602	Water Purchased for Resale	\$	91,813	\$	79,84
7		PUMPING EXPENSES	Ť		•	,
8	603-1	Pumping Labor	\$	138,513	\$	8,15
9	603-2	Boiler Fuel	\$	-	\$	0,10
10	603-3	Water for Steam	\$	-	\$	
11	603-4	Electric Power Purchased	\$	711,341	\$	102,90
12	603-5	Miscellaneous Pumping Station Supplies and Expenses	\$	135,224	\$	(28,25
13	604-1	Maintenance Power Pumping Buildings and Fixtures	\$	28,026	\$	1,97
14	604-2	Maintenance of Pumping Equipment	\$	91,969	\$	(41,38
15	604-3	Maintenance of Miscellaneous Pumping Plant Equipment	\$	-	\$	
16		Total Pumping Expenses	\$	1,105,073	\$	43,39
17		PURIFICATION EXPENSES				
18	605-1	Purification Labor	\$	277,766	\$	10,50
19	605-2	Purification Supplies and Expenses	\$	3,311,742	\$	(585,18
20	606-1	Maintenance of Purification Buildings and Fixtures	\$	21,912	\$	(24,22
21	606-2	Maintenance of Purification Equipment	\$	245,863	\$	9,33
22		Total Purification Expenses	\$	3,857,283	\$	(589,56
23		TRANSMISSION AND DISTRIBUTION EXPENSES				
24	607	Inspecting Customers' Installation	\$	22,069	\$	7,00
25	608	Miscellaneous Trans. and Dist, Supplies and Expenses	\$	497,527	\$	30,46
26	609-1	Maintenance of Trans. and Dist. Buildings and Fixtures	\$	3,956	\$	67
27	609-2	Maintenance of Trans. and Dist. Mains	\$	360,149	\$	(55,26
28	609-3	Maintenance of Storage, Reservoirs, Tanks and Standpipes	\$	1,594	\$	(2,22
29	609-4	Maintenance of Services	\$	179,527	\$	29,31
30	609-5	Maintenance of Meters	\$	91,987	\$	5,90
31 32	609-6 609-7	Maintenance of Hydrants Maintenance of Fountains and Troughs	\$ \$	16,133	\$ \$	4,96
32	609-7	Total Trans. and Dist. Expenses	ֆ \$			20.04
33 34		GENERAL AND MISCELLANEOUS EXPENSES	¢	1,172,942	\$	20,81
-	040.4		¢	507.000	¢	(1.1.02
35	610-1	Salaries of General Officers and Clerks	\$ \$	507,363	\$ \$	(14,03
36 37	610-2 610-3	General Office Supplies and Expenses Law Expense - General	\$ \$	2,124,435 888,921	Դ Տ	40,12 596,38
37	610-3	Law Expense - General Insurance	ֆ \$	967,831	Դ Տ	596,38 11,18
39						11,10
40		Accidents and Damages Store Expenses	\$ \$	-	\$ \$	
40		Transportation Expenses	\$	33,155	э \$	92
42		Inventory Adjustments	\$		\$ \$	52
43		Maintenance of General Structures	\$		\$ \$	
44		Depreciation	\$	1,407,912	\$	30,36
45		Miscellaneous General Expenses	\$	701,678		(324,57
46		Total General and Miscellaneous Expenses	\$	6,631,295		340,38
47	1	GRAND TOTAL OPERATING EXPENSES		12,981,962		(111,59

303B									
Annual R	eport of Aquarion Water Compa	ny of Mas	sachusetts					Year end	led December 31, 2013
		(OPERATING E	EXPEN	NSES (CONT'I	D)			
	(For compa perating expenses of the respondent stem of Accounts.						eeding \$15,000 em in accordance		
Line No.	Kind of Tax (a)		Federal		State		Municipal		Total
48	FIT	\$	(729,449)					\$	(729,449)
49	FICA	\$	154,355					\$	154,355
50	FUTA	\$	1,015					\$	1,015
51	Property Tax					\$	1,051,389	\$	1,051,389
52	SUTA			\$	11,722			\$	11,722
53	SIT			\$	(157,284)			\$	(157,284)
54	Other General Taxes					\$	-	\$	-
55									
56									
57									
58									
59									
60	TOTALS	\$	(574,079)	\$	(145,562)	\$	1,051,389	\$	331,748

400 Appu	al report of Aquarion Water Company o	f Massachusatts	Year ended Decem	bor 21 - 2042
Annu	ial report of Aquarion water Company o	Real Estate Inform		ber 31, 2013
1. La	nd owned by the Company			
	Location		Use	
A B C D E F G	Whiting Street, Accord Pond South Pleasant Avenue Fulling Mill Free Street Turkey Hill Lane Downing Street Scotland Street Prospect Street		Surface water supply, pump station, elevated tank Water Pump Station Distribution Tank Well Stations Standpipe Well Station Well Station Well Station	
	Area		When Bought	Cost
A B C D E F G	43.53 Acres 117.04 Acres 72.14 Acres 0.22 Acres 10.91 Acres 24.20 Acres 9.22 Acres		1882, 85, 96, 97, 98, 1916 1885, 1900, 02-06, 16, 23 1942, 1951 1963 1965 1955 - 1975 1966 - 1970	\$10,177 \$29,092 \$3,763 \$4,766 \$14,579 \$7,596 \$83,384
2. Bu	ildings owned by the Company			
	Location		Use	
B C D E F G	Fulling Mill Pond Fulling Mill Pond Accord Pond - Gravity & Pump Free Street #4 Free Street #3 Free Street #2 Scotland Street Downing Street Prospect Street		Pump Station Storehouse and Garage Outlet Structure and Pump Station Pump Station Pump Station Filter Building And Garage, Pump Station Pump Station Pump Station Pump Station	
	Size	Material	When Built	Cost
A B C D E F G H I	5755 800 1200 450 258 2780 326 340 360	Brick Steel Brick Brick Brick & Block Cement Block Cement Block Brick & Block	1919, 20, 21, 62, 67, 68, 96 1969 1995 1942 - 1968 1952 1969-70 1956 1966 1971	

* By cost is meant the original cost of Installation, not the Book Value

	Maaaaah	V		
			ember 31, 2013	
nd owned by the Company				
Location		Use		
Millbury Avenue Burbank Hill Howe Avenue Oak Pond Avenue North Main Street @ Jacques Curve Sutton Road		Location of Well & Pump Location of Reservoir Location Basins #1, #2 & Oak Pond Pump Station #1 & #2 North Main Stree Location of Booster Statio	#3 et Pump Station	
Area		When Bought	Cost	
3.00 Acres 3.00 Acres 55.23 Acres 97,129 Square Feet 20.39 Acres 10,051 Square Feet		1849 1895 1895 - 1913 1957 1965 1994	\$25,802 \$3,823 \$4,106 \$16,824 \$12,000	
Location		Use		
Oak Pond Avenue North Main Street #2 Well North Main Street #1 Well 34 Sutton Road	Pump Station Pump Station Pump Station Booster Pump Station			
Size	Material	When Built	Cost	
19' x 16' 20' x 17' 20' x 17' 17' x 22'	Concrete Block Concrete Block Concrete Block Brick & Concrete	1958 1966 1966 - 67 1994		
	Real Es Image: colspan="2">Location Millbury Avenue Burbank Hill Howe Avenue Oak Pond Avenue North Main Street @ Jacques Curve Sutton Road Area 3.00 Acres 3.00 Acres 3.00 Acres 97,129 Square Feet 20.39 Acres 97,129 Square Feet 20.39 Acres 10,051 Square Feet North Main Street #2 Well North Main Street #2 Well North Main Street #1 Well 34 Sutton Road Size 19' x 16' 20' x 17' 20' x 17'	Location Millbury Avenue Burbank Hill Howe Avenue Oak Pond Avenue North Main Street @ Jacques Curve Sutton Road Area 3.00 Acres 3.00 Acres 55.23 Acres 97,129 Square Feet 20.39 Acres 10,051 Square Feet Size Material Size Material 19' x 16' Concrete Block 20' x 17' Concrete Block	Real Estate Information - Millbury Information - Millbury Image: Colspan="2">Image: Colspan="2" Image: Colspan="2" Ima	

* By cost is meant the original cost of Installation, not the Book Value

			nber 31, 2013
nd owned by the Company			
Location Main St, Oxford, MA Prospect Hill, Oxford, MA Prospect Hill, Oxford, MA Off Holbrook Road- Oxford, Massachusetts From Old Depot Rd to Burbank St Oxford, Mass		Use Well & Pump station Right of way for standpipe Land adjacent to standpipe Land for standpipe Right of way pipeline to stan	dpipe
Area 9.04 Acres 1.00 Acre 13.30 Acres 0.52 Acres 25.70 Acres		When Bought 1906 1907 1944 1957 1958 - 1959	Cost \$4,312 \$319 \$438 \$6,527 \$16,338
ildings owned by the Company			
lindings owned by the Company			
Location		Use	
North Main Street Oxford, Massachusetts North Main Street Oxford, Massachusetts Off Nelson Street Oxford, Massachusetts Sutton Ave. Oxford, Massachusetts		Pump Station Pump Station Pump Station Booster Pump Station	
Size	Material	When Built	Cost
20' x 17' 20' x 17' 16' x 10' x 19'9" 12' x 20'	Cement Block Cement Block Cement Block Prefab. Metal	1959 1959 1959-64-67 1999	
	Al report of Aquarion Water Company of Mass Real Estat Ind owned by the Company Location Main St, Oxford, MA Prospect Hill, Oxford, MA Prospect Hill, Oxford, MA Off Holbrook Road- Oxford, Massachusetts From Old Depot Rd to Burbank St Oxford, Mass From Old Depot Rd to Burbank St Oxford, Mass 0.52 Acres 25.70 Acres 25.70 Acres 25.70 Acres 25.70 Acres 25.70 Acres 0.52 Acres 25.70 Acres	Interpret of Aquarion Water Company of Massachusetts Real Estate Information -Oxford Ind owned by the Company Location Juncation Juncation Main St, Oxford, MA Prospect Hill, Oxford, MA Prospect Hill, Oxford, MA Off Holbrook Road- Oxford, Massachusetts From Old Depot Rd to Burbank St Oxford, Mass Area 9.04 Acres 1.00 Acre 13.30 Acres 0.52 Acres 25.70 Acres Location Idings owned by the Company Location North Main Street Oxford, Massachusetts Off Nelson Street Oxford, Massachusetts Off Nelson Street Oxford, Massachusetts Off Nelson Street Oxford, Massachusetts Off Nelson Street Oxford, Massachusetts Off Nelson Street Oxford, Massachusetts Sutton Ave. Oxford, Massachusetts Material 20' x 17' Cement Block 20' x 17' Cement Block 20' x 17' Cement Block	al report of Aquarion Water Company of Massachusetts Real Estate Information -Oxford Year ended Decer nd owned by the Company Location Use Main St, Oxford, MA Prospect Hill, Oxford, MA Off Holbrook Road- Oxford, Massachusetts From Old Depot Rd to Burbank St Oxford, Massa Well & Pump station Right of way for standpipe Land adjacent to standpipe Land adjacent to standpipe Right of way pipeline to stan 0.9.04 Acres 1906 1.00 Acre 1907 1.3.00 Acres 1907 0.52 Acres 1997 25.70 Acres 1957 100 Atres 1906 1.00 Acres 1907 1.3.00 Acres 1907 1.3.01 Acres 1907 1.3.02 Acres 1907 1.3.03 Acres 1907 1.3.04 Acres 1906 1.00 Acres 1907 1.3.03 Acres 1957 25.70 Acres 1958 - 1959 Iddings owned by the Company Use Location Use North Main Street Oxford, Massachusetts Pump Station Pump Station North Main Street Oxford, Massachusetts Pump Station Sutton Ave. Oxford, Massachusetts Booster Pump Station <t< td=""></t<>

* By cost is meant the original cost of Installation, not the Book Value

Annual report of Aquarion Water Company of Massachusetts

Year ended December 31, 2013

SUPPLY INFORMATION - Hingham

 Give a full and complete description of the sources from which water is obtained. State whether these sources are owned or leased by the Company. If they are leased, quote the terms of the lease. Give the date of the latest opinion of the Department of Public Health regarding each of these sources of supply.

See attached Schedule

2. Watersheds owned by the Company

Location	Area	When Bought	Cost
A. Fulling Mill Pond	67.79 acres	1902, 04, 06, 23	Included on page 400
B. Accord Pond	40.916 acres	1882, 85-87	

Remarks:

3. Give a full and complete description of any water supply rights that are owned by the company and state when they were bought and what was paid for them.

Fulling Mill Pond - January 4, 1886 - \$2,000 Accord Pond - May 26, 1912 - \$1,500

Water registration for withdrawal of water issued by Commonwealth of Massachusetts in 1988 and renewed in 1998 and 2008.

Response to Question 1 - Page 401 Pag

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(Item 1 Page 401) Annual Report of Aquarion Water Company of Massachusetts

Year ended December 31, 2013

Give a full and complete description of the source or sources from which water is obtained. State whether these sources are owned or leased by the Company. If they are leased, quote the terms of the leases. Give the date of the latest opinion of the Department of Public Health regarding each of these sources of supply.

Water is obtained from Accord Pond, Fulling Mill Well and from several other wells. Fulling Mill Well is owned by respondent. The right to withdraw water from all sources was registered under the Massachusetts Water Management Act of 1988. Two satellite wells, Fulling Mill #1 & #2, both 18" diameter ,#1 is 48' deep and #2 is 42' deep, were added at Fulling Mill An 18" diameter well, 58' deep was constructed off Prospect Street in 1971. The well was approved by the Department of Public Health in 1970. A 24" diameter well, Free Street #2, 72' deep, was constructed off Free Street in 1951, the pump was installed in 1952. A replacement well 18" in diameter and 80' deep for #2 , Free St. #2A, was put into service in December 2007. An 18" diameter well, 45' deep, was constructed off Scotland Street in 1955. An 24" satellite well, Scotland St. #1A, 58' deep, was completed and put into service in May 2008. A 24"diameter well, 66' deep was constructed off Downing Street in 1965, pump installed in 1966, Free Street Well #3, 88' 8" deep, was constructed adjacent to Free Street Well #1 in 1967, the pump was installed in 1998. Testing and approval by the Department of Public Health was not required as this well was in same well field as Free Street Well #1. Free Street #1 has been abandoned since late in the 1960's; it has been filled and capped. The land around this well is leased for a 99 year term at no cost other than payment of real estate taxes. A 24" diameter well 86' deep, Free Street #4 was completed in December, 1982, and Department of Environmental approval was given in 2008. Free Street Well #5 is a 16" diameter well which was constructed in 2001 as a satellite well to Free Street Well #3. All sources are sampled in accordance with state and federal regulations. All sources are currently in compliance with those regulations.

Annual report of Aquarion Water Company of Massachusetts

Year ended December 31, 2013

SUPPLY INFORMATION - Millbury

 Give a full and complete description of the sources from which water is obtained. State whether these sources sre owned or leased by the Company. If they are leased, quote the terms of the lease. Give the date of the latest opinion of the Department of Public Health reguarding each of these sources of supply.

Water is supplied from four wells all owned by the Company. All are approved public drinking water sources according to Massachusetts DEP.

2. Watersheds owned by the Company			
Location	Area	When Bought	Cost
 A. Parcel E & F - Howe Ave B. Parcel G, West of E & F - Howe Ave C. West of G - Howe Ave 	8.50 acres 29.29 acres 3.18 acres	1909 1910 1913	Included on page 400

Remarks:

Give a full and complete description of any water supply rights that are owned by the company and state when they were bought and what was paid for them.

Water registration for withdrawal of water issued by Commonwealth of Massachusetts in 1988 and renewed in 1998 and 2008.

401							
Annual report of Aquarion Water Company of	Massachusetts		Year ended December 31, 2013				
SUPPLY INFORMATION - Oxford							
 Give a full and complete description of the sources from which water is obtained. State whether these sources sre owned or leased by the Company. If they are leased, quote the terms of the lease. Give the date of the latest opinion of the Department of Public Health reguarding each of these sources of supply. 							
The responent owns three gravel packed wells. All wells are approved for use as public water supply sources of the Massachusetts DEP.							
2. Watersheds owned by the Company							
Location	Area	When Bought	Cost				
A. B. C. D.							
Remarks:							
3. Give a full and complete description of any water supply rights that are owned by the company and state when they were bought and what was paid for them. Water registration for withdrawal of water issued by Commonwealth of Massachusetts in 1988 and renewed in 1998 and 2008.							

Annual report of Aquarion Water Company of Massachusetts

Year ended December 31, 2013

SUPPLY INFORMATION - Continued - Hingham

4. Wells					
			Covered		
Location	Inside Dimensions	Depth Below	or	When Built	Cost
		High Water	Uncovered		
A. Fulling Mill Well	40' x 19'	21' 8"	Covered	1903	
B. Free Street Well #2	24"	73"	Covered	1951	
C. Scotland Street Well	18"	45"	Covered	1955	
D. Dowing Street Well	24"	66' 6"	Covered	1966	Combined
E. Free Street Well #3	18'	88' 6"	Covered	1967	
F. Prospect St. Well	18"	58'	Covered	1971	
G. Free Street Well #4	24"	86'	Covered	1982	
H. Free Street Well #5	16"	68'3"	Covered	2001	\$354,696
I. Free Street Well #2A	12"	80'	Covered	2007	\$265,151
J. Fulling Mill Well #1	12"	48'	Covered	2008	\$244,244
K. Fulling Mill Well #2	12"	42'	Covered	2008	\$222,268
L. Scotland St. Well #1A	18"	58'	Covered	2008	\$348,459

5. Give a full and complete description of the wells

See attached sheet

6. Reservoirs						
	Area at Surface	Full Capacity				
Location	When Full	in Gallons		When Built	Cost	
A. Accord Pond	100 Acres	247,000,000				
B. Fulling Mill Pond	14 acres	23,109,000				
C. Fulling Mill Basin	Undetermined					

7. Describe the reservoirs, stating to what extent they are artificial; to what extent their bottons were cleaned before being put into service; to what extent their slopes and bottoms are paved; what provisions have been made for raising the water level and increaseing the capacity; and give the character of construction of any dams.

Accord Pond is a natural lake. At natural outlet an embankment was built with concrete core walls. Fulling Mill is an artificial pond with an earth embankment with concrete core walls. Accord Pond provides water to the Hingham/Hull District Water Treatment Facility. The seven basins at Fulling Mill Pump Station are natural depressions from which trees have been cut. These basins feed into underground strata supplying the Fulling Mill Well. This source is then pumped to the Hingham/Hull District Water Treatment Facility for treatment.

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Annual report of Aquarion Water Company of Massachusetts

Year ended December 31, 2013

- 5. Give a full and complete description of the wells
 - (A) Inside walls 6' from bottom are built of stone laid dry. From that point upwards, the wall is dome shaped made of concrete with suitable opening on top. The water from the well is pumped by the Fulling Mill Station.
 - (B) Drilled in 1951, well pump installed in 1952. 30' of 24" stainless steel screen, 43' of 24" transite solid casing, gravel packed and concrete sealed. In 1995, replaced, well pump and redeveloped this well. The casing was lined with steel pipe in 1999. Redeveloped in 2005.
 - (C) Drilled in 1955, well pump installed in 1956. 30' of solid steel casing, 15' of 24" stainless steel screen, gravel packed and concrete sealed. Redeveloped in 1978; casing reduced from 24" to 18" with 15' of 18" stainless steel screen. Redeveloped in 1987 and 1998.
 - (D) Drilled in 1965, well pump installed in 1966. 55' of 6" of solid steel casing, 10' of 24" stainless steel screen, gravel packed and concrete sealed. Redeveloped in 1988.
 - (E) Drilled in 1967, well pump installed in 1968. 78' of solid steel casing, 10' of 8" stainless steel screen, gravel packed and concrete sealed. Redeveloped in 1988.
 - (F) Drilled well in 1971, well pump installed in 1998. 48' of solid steel casing, 10' of 18" stainless steel screen, gravel packed and concrete sealed.
 - (G) Well drilled in 1981, pump installed in 1982. 66' of 24" solid steel casing, 20' of 24" variable slot stainless steel screen, gravel packed and concrete sealed. Redeveloped in 2003.
 - (H) Well drilled in 2001 pump installed in July 2001. 80' of 16" steel casing, 15' of 10" stainless steel screen, gravel packed and concrete sealed.
 - (I) Replacement/satellite well drilled in 2007 pump installed December 2007. 80' of 18" steel casing, 18' of 12" stainless steel screen, gravel packed. Includes a meter vault.
 - (J) Replacement/satellite well drilled in 2008 pump installed June 2008. 48' of 18" steel casing, 8' of 12" stainless steel screen, gravel packed. Includes a meter vault.
 - (K) Replacement/satellite well drilled in 2008 pump installed June 2008. 42' of 18" steel casing, 18' of 12" stainless steel screen, gravel packed. Includes a meter vault.
 - (L) Replacement/satellite well drilled in 2008 pump installed May 2008. 42' of 24" steel casing, 12' of 18" stainless steel screen, gravel packed. Includes a meter vault.

Annual report of Aquarion Water Company of Massachusetts

Year ended December 31, 2013

SUPPLY INFORMATION - Continued - Millbury

4 Well

4.	4. Wells						
				Covered			
	Location	Inside Dimensions	Depth Below	or	When Built	Cost	
			High Water	Uncovered			
Α.	Millbury Avenue	25'	36'20"	Covered	1984		
В.	Oak pond Avenue	24"	30'	Covered	1958	\$5,225	
C.	Jacques Well Station #2	24"	70'	Covered	1965	\$32,389	
D.	Jacques Well Station #1	24"	53'	Covered	1966	\$11,681	
E.	Jacques WTF	30' x 66 '		Covered	2005	\$1,517,819	
F.	-						

5. Give a full and complete description of the wells

6. Reserviors						
	Area at Surface	Full Capacity in Gallons				
Location	When Full	in Gallons	When Built	Cost		
Α.						
В.						
С.						
D.						
E.						
F						

7. Describe the reservoirs, stating to what extent they are artificial; to what extent their bottons were cleaned before being put into service; to what extent their slopes and bottoms are paved; what provisions have been made for raising the water level and increasing the capacity; and give the character of construction of any dams.

	on Water Company of Mas	sachusetts		Ye	ar ended December 31, 2013
	SUPPLY	Y INFORMATION ·	Continued - Ox	ford	
4. Wells					
Location	Inside Dimensions	Depth Below High Water	Covered or Uncovered	When Built	Cost
A. Oxford, MA B. Oxford, MA C. Oxford, MA D. Oxford, MA E. F.	24" 24" 24" 12"	65' 67' 66' 66'	Covered Covered Covered Covered	1950-59 1950-59 1961 2007	\$53,99 \$50,12 \$20,38 \$269,98
hree 24" diameter gravel	packed wells, one with tans	site casting and two	o stainless steel o	astings.	
6. Reservoirs			1	1	
	Area at Surface When Full	Full Capacity in Gallons		When Built	Cost
Location					
A. 3. C. D. E.					
A. 3. 2. 5. 5. 7.	, stating to what extent they				

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Annual report of Aquarion Water Company of Massachusetts	Year ended December 31, 2013
Pumping Information - Hingham	
1. Give a general description of the method employed for delivering the water to the company, stating whether g	ravity is utilized or
not; whether the company owns a pumping station or not; and giving all other pertinent information.	
Respondent owns twelve wells/ pump stations. Water is pumped from Fulling Mill Station, Fulling Mill Well #1, Fu	ulling Mill Well #2,

Free St. Well #2, Free St. Well #2A, Free St. Well #3 & #5, Free St. Well #4, Scotland St. Well, Scotland St. #1A, Prospect St.,, and Accord Pond to the Hingham/Hull District Water Treatment Facility for treatment. Water from the Downing St. Well is pumped directly to the distribution system after treatment. An abandoned booster station in Hull, MA was refurbished and placed in service in 1998.

2. BOILER

This schedule not presently used

3. CHIMNEYS

This schedule not presently used

4. PUMPING ENGINES, STEAM- ACTUATED

This schedule not presently used

5. PUMPS, DRIVEN BY CONNECTED POWER

		LOCATION		TYPE	NAME OF BUILDER	WHEN INSTALLED	COST
Α	Fulling Mill #	¥1		Hor Cent	Fairbanks-Morse	1996	*
В	Fulling Mill #2				Fairbanks-Morse	1996	*
С	Free Street Well #2			Vert Turb	Bryon Jackson	1985	*
D	D Scotland Street Well		Vert Turb	Goulds	1998	*	
E	Downing Str			Vert Turb	Bryon Jackson	1966	*
F	Free Street			Vert Turb	Goulds	1998	*
G	Prospect St			Vert Turb	Goulds	1998	*
н	Free Street			Submersible	Goulds	2003	*
I	Beacon Roa	ad Booster		Hor Cent	Hayes	1998	*
J	Accord #3			Hor Cent	Fairbanks-Morse	1996	*
K	Accord #4			Hor Cent	Fairbanks-Morse	1996	*
L	Accord #5			Hor Cent	Fairbanks-Morse	1996	*
M	Beacon Roa			Hor Cent	Aurora	1998	*
N	Free Street			Submersible	Goulds	2001	*
0	Free Street			Submersible	Goulds	2007	*
Р	Fulling Mill \			Submersible	Goulds	2008	*
Q	Fulling Mill \			Submersible	Goulds	2008	*
R	Scotland St.			Submersible	Goulds	2008	*
S	Baker Hill B			Hor Cent	Aurora	2006	*
Т	Baker Hill B			Hor Cent	Aurora	2006	*
U	Baker Hill B			Hor Cent	Aurora	2006	*
V	Baker Hill B			Hor Cent	Aurora	2006	*
W	Baker Hill B	ooster #5		Hor Cent	Aurora	2006	^
	NUMBER	SINGLE OR	RATED STROKES	LENGTH OF	DIAM. OF PISTONS	HOW DRIVEN	DISPLACEMENT PER
	OF CYLS.	DOUBLE ACTING	PER MINUTE	STROKE**	OR PLUNGERS	HOW DRIVEN	24 HOURS
	01 01 20.	DOODEL AOTINO	TERMINOTE	OTTORE	ONTEONOENO		241100110
Α		Double Suction	1,180 RPM	5"	N/A	Electric	1,440,000
В		Double Suction	1,180 RPM	5"	N/A	Electric	1,440,000
С		3 stage	1,770 RPM	13" Disc	N/A	Electric	2,880,000
D		1 stage	1,770 RPM	8"	N/A	Electric/Gas	1,440,000
E		7 stage	1,750 RPM	6"	N/A	Electric/Gas	829,440
F		7 stage	1,770 RPM	5"	N/A	Electric/Gas	518,400
G		1 stage	1,770 RPM	6"	N/A	Electric	622,080
н		2 stage	3,600 RPM	8"	N/A	Electric	1,440,000
I		1 stage	3,600 RPM	4"	N/A	Electric	792,000
J		2 stage	1,770 RPM	6"	N/A	Electric	2,016,000
K		2 stage	1,185 RPM	5"	N/A	Electric	1,008,000
L		2 stage	1,185 RPM	6"	N/A	Electric	2,016,000
M		1 stage	1,800 RPM	6"	N/A	Electric	1,008,000
N		1 stage	3,450 RPM	4"	N/A	Electric	414,720
0		3 stage	3,600 RPM	12"	N/A	Electric	2,880,000
P		2 stage	3,600 RPM	12"	N/A	Electric	2,880,000
Q		2 stage	3,600 RPM	12"	N/A	Electric	2,880,000
R		1 stage	3,600 RPM	12"	N/A	Electric	2,880,000
S		1 stage	3,500 RPM	2"	N/A	Electric	86,400
Т		1 stage	3,500 RPM	2"	N/A	Electric	86,400
UV		1 stage	3,500 RPM	3" 3"	N/A	Electric	216,000
Ŵ		1 stage	3,500 RPM	3" 8"	N/A N/A	Electric	216,000
vv		1 stage	1,800 RPM	°	IN/A	Electric	1,728,000
I	1		1				

* Cost of pump separately unavailable **Diameter of impeller

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Annual report of Aquarion Water Company of Massachusetts Year ended December 31, 201							
Pumping Information - Millbury							
1. Give a general description of the method employed for delivering the water to the company, stating whether gravity is utilized or							
not; whether the company owns a pumping station or not; and giving all other pertinent information	1.						

Water is supplied from four wells all owned by the company. All are approved public drinking water sources according to the Massachusetts DEP.

2. BOILER

This schedule not presently used

3. CHIMNEYS

This schedule not presently used

4. PUMPING ENGINES, STEAM- ACTUATED

This schedule not presently used

5. PUMPS, DRIVEN BY CONNECTED POWER

	LOCATION			TYPE	NAME OF BUILDER	WHEN INSTALLED	COST
Α	Millbury Ave	enue		Turbine	Floway	2003	
В	Millbury Ave	enue		Turbine	Floway	2003	
С	Millbury Ave	enue		Turbine	Floway	2003	
D	Millbury Ave	enue		Turbine	Floway	2003	
Е	Oak Pond			Turbine	Goulds	2008	
F	North Main Street Well #2			Turbine	Goulds	2004	
G	North Main Street Well #1			Turbine	Goulds	2004	
н	Sutton Road Booster			Cent	EFI	1993	
1	Millbury Avenue			Turbine	Floway	2003	
J	Millbury Avenue			Turbine	Floway	2003	
К	Brierly Pond			Cent	PENTAIR	2003	
L	Brierly Pond	Ł		Cent	PENTAIR	2003	
Μ	Brierly Pond	ł		Cent	PENTAIR	2003	
Ν	Brierly Pond	ł		Cent	PENTAIR	2003	
0	Brierly Pond		Cent	PENTAIR	2003		
		[1				
	NUMBER OF CYLS.	SINGLE OR DOUBLE ACTING	RATED STROKES PER MINUTE	LENGTH OF STROKE	DIAM. OF PISTINS OR PLUNGERS	HOW DRIVEN	DISPLACEMENT PER 24 HOURS
А			1.790 RPM	Turbine		Electric Motor	1,296,000
В			1,790 RPM	Turbine		Electric Motor	1,296,000
C			1,790 RPM	Turbine		Electric Motor	1,296,000
D			1.180 RPM	Turbine		Electric Motor	1,296,000
Е			1,760 RPM	Turbine		Electric Motor	864,000
F			1,760 RPM	Turbine		Electric Motor	457,920
G	1		1,750 RPM	Turbine		Electric Motor	835,200
H			3,450 RPM	Cent		Electric Motor	864,000
1	1		1,785 RPM	Turbine		Electric Motor	1,584,000
J			1,785 RPM	Turbine		Electric Motor	1,584,000
к			3,500 RPM	Cent		Electric Motor	1,440,000
L			1,750 RPM	Cent		Electric Motor	172,800
М	1		1,750 RPM	Cent		Electric Motor	172,800
Ν	1		3,500 RPM	Cent		Electric Motor	86,400
0			3,500 RPM	Cent		Electric Motor	86,400
							-

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Annual report of Aquarion Water Company of Massachusetts	Year ended December 31, 2013
Pumping Information - Oxford	
1. Give a general description of the method employed for delivering the water to the company	, stating whether gravity is utilized or
not; whether the company owns a pumping station or not; and giving all other pertinent inform	mation.
Water is pumped from company owned pump stations into distribution system containing	ng a standpipe which floats on the system.
2. BOILER	
This schedule not presently used	

3. CHIMNEYS

This schedule not presently used

4. PUMPING ENGINES, STEAM- ACTUATED

This schedule not presently used

5. PU	PUMPS, DRIVEN BY CONNECTED POWER									
		LOCATION		TYPE	NAME OF BUILDER	WHEN INSTALLED	COST			
C D	North Main North Main Nelson Stre Sutton Ave.	Street #2 et #3 Booster		Turbine Turbine Turbine Turbine	Bryon Jackson Deming Goulds G & L Goulds	1959 1959 2005 1999				
F G H I	G H I			Turbine Submersible	G & L Goulds Goulds	1999 2007				
J	NUMBER OF CYLS.	SINGLE OR DOUBLE ACTING	RATED STROKES PER MINUTE	LENGTH OF STROKE	DIAM. OF PISTINS OR PLUNGERS	HOW DRIVEN	DISPLACEMENT PER 24 HOURS			
A B C D E F G H J		Turbine Turbine Turbine Turbine Turbine Submersible	1,750 RPM 1,750 RPM 1,750 RPM 3,500 RPM 3,500 RPM 3,500 RPM			LP. Gen LP. Gen Kohler L.P. Gen Electric Motor Electric Motor Electric Motor	432,000 576,000 1,152,000 72,000 72,000 432,000			

Annı	al report of Aquarion	Water Con	npany of Massac	husetts		Year ended Dec	cember 31, 201
			Pumping Inform		nued Hingham		
6 Ga	s Producers						
0. 00							
		This schedu	ule not presently u	sed			
7. Int	ernal combustion en	gines.			1		
	Location		Name of Builder		When Installed	Type of Drive	Cost
	Elecation		Name of Builder		when installed	Type of Drive	0031
А	Scotland Street		Continental		1956	Gear Dr	*
В	Downing Street		Continental		1966	Gear Dr	*
С	Free Street Well #3		Allis Chalmers		1968 1969	Gear Dr	*
				Dimensio	ns of Cylinders		
	For Gas, Gasoline	Number	Single or			2 or 4 Stroke	Rated H.P.
	or Oil	of Cyls.	Double Acting	Diameter	Stroke	Cycle	Nated H.F.
А	L.P. Gas	6	Single	4	4 13/16	4	75
в	Natural Gas	6	Single	3 5/16	4 3/8	4	46 1/2
С	Natural Gas	6	Single	3 7/8	4 1/2	4	64
8. EL	ECTRIC MOTORS, IN	CLUDING (COST OF WIRING	SWITHCES	1		
	Location		Name of Builder		When Installed		Cost
A B	Fulling Mill #1 Fulling Mill #2		U.S. Electric U.S. Electric		1996 1996		*
	Free Street Well #2		U.S. Electric		1952		*
	Scotland Street Well		U.S. Motors		1998		*
E F	Downing Street Well Free Street Well #3		U.S. Electric		1966		*
	Free Street Well #2		U.S. Electric General Electric		1998 1969		*
	Prospect Street		U.S. Electric		1998		*
I	Free Street Well #4		U.S. Electric		1968		*
J	Accord #3		U.S. Electric		1996		*
К	Accord #4		U.S. Electric		1996		*
L	Accord #5		U.S. Electric		1996		*
	Beacon Road, Hull		U.S. Motor		1998		*
	Free Street Well #5 Free Street Well#2A		Franklin Centripro		2001 2007		*
P	Fulling Mill Well#1		Centripro		2008		*
	Fulling Mill Well #2		Centripro		2008		*
R	Scotland Street #1A		Centripro		2008		*
S	Baker Hill Booster #1		Aurora		2006		*
	Baker Hill Booster #2		Aurora		2006		*
U V	Baker Hill Booster #3 Baker Hill Booster #4		Aurora Aurora		2006 2006		*
	Baker Hill Booster #5		Aurora		2006		
			, la ora		2000		
	A.C. or D.C. if A.C. Gi	ve Phase	Volts		Type of Drive		Rated H.P.
А	A.C. 3 Phase		460		Direct		15
В	A.C. 3 Phase		460		Direct		15
	A.C. 3 Phase		480		Direct		100
	A.C. 3 Phase		220/440		Direct		25
E F	A.C. 3 Phase A.C. 3 Phase		220/440 230/460		Direct Direct		40 60
г G	A.C. 3 Phase A.C. 3 Phase		460		Direct		25
	A.C. 3 Phase		230/460		Direct		20
I	A.C. 3 Phase		460		Direct		25
	A.C. 3 Phase		460		Direct		40
	A.C. 3 Phase		460		Direct		50
L M	A.C. 3 Phase A.C. 3 Phase		460 240		Direct Direct		75 20
	A.C. 3 Phase		460		Direct		5
	A.C. 3 Phase		460		Direct		175
	A.C. 3 Phase		460		Direct		15
Q	A.C. 3 Phase		460		Direct		15
	A.C. 3 Phase		460		Direct		20
S	A.C. 3 Phase A.C. 3 Phase		480 480		Direct Direct		5 5
т	1.0. J 111030		100				
T U	A.C. 3 Phase		480		Direct		8
	A.C. 3 Phase A.C. 3 Phase		480 480		Direct Direct		8 8
U V							

* Cost of motor separately unavailable

	ual report of Aquarion	Water Con				Year ended Dec	ember 31, 2013
			Pumping Inform	ation - Conti	inued Millbury		
6. Ga	as Producers						
		This sched	ule not presently us	sed			
7. Int	ernal combustion en	gines.			1		
	Location		Name of Builder		When Installed	Type of Drive	Cost
			Nume of Builder		When installed		0031
А	Jacques Well Station	#1	Kohler		2010	Generator	
в	Jacques Well Station	#2	Kohler		2006	Generator	
~			0		1000	Ormanatan	
С	Oak Pond Well		Cummings		1988	Generator	
D	Sutton Road Booster		Kohler		1994	Generator	
Е	Brierly Pond Booster		Generac		2003	Generator	
_			Contract	r		Contractor	
		Numerican	Cinale or	Dimension	is of Cylinders	0 on 4 Otroko	DetectUD
	For Gas, Gasoline or Oil	Number of Cyls.	Single or Double Acting	Diameter	Stroke	2 or 4 Stroke Cycle	Rated H.P.
А	Fuel Oil	4	Single	4.19	5	4	158
В	Fuel Oil	6	Single	4	4 3/8	4	125
Ъ	i dei Oli	0	Single	4	4 3/0	4	125
С	L.P. Gas	6	Double	5 1/4	15-24 centimeter	4	175
D	L.P. Gas	4	Single	4	5	4	150
_	<u> </u>		-		-		175
Е	Gas	8	Double	5 1/4	5	4	175
3. EL	ECTRIC MOTORS, IN	CLUDING (COST OF WIRING	SWITHCES	· · ·		
	Location		Name of Builder		When Installed		Cost
	Location		Name of Builder		When installed		COSI
А	Jacques Well Station		U.S. Electric		2005		
В	Jacques Well Station	#2	U.S. Electric		2005		
С	Oak Pond		U.S. Electric		2008		
D	Sutton Rd. Booster		EFI		1993		
	Brierly Pond Booster		U.S. Electric U.S. Electric		2003		
E	Brierly Pond Booster Brierly Pond Booster		U.S. Electric		2003 2003		
F	DHEITY FUTU DUUSLEI		U.S. Electric		2003		
F G			U.U. LICUIIU				
F	Brierly Pond Booster Brierly Pond Booster		U.S. Electric		2003		
F G	Brierly Pond Booster	ve Phase	U.S. Electric Volts				Rated H.P.
F G H I	Brierly Pond Booster Brierly Pond Booster A.C. or D.C. if A.C. Gi	ve Phase	Volts		2003 Type of Drive		
F G	Brierly Pond Booster Brierly Pond Booster	ve Phase			2003		Rated H.P. 6 6
F G H I	Brierly Pond Booster Brierly Pond Booster A.C. or D.C. if A.C. Gi A.C. 3 Phase	ve Phase	Volts 230/460		2003 Type of Drive Direct		6
F G H I A B	Brierly Pond Booster Brierly Pond Booster A.C. or D.C. if A.C. Gi A.C. 3 Phase A.C. 3 Phase	ve Phase	Volts 230/460 230/460		2003 Type of Drive Direct Direct		6 6 10
F G H I A B C	Brierly Pond Booster Brierly Pond Booster A.C. or D.C. if A.C. Gi A.C. 3 Phase A.C. 3 Phase A.C. 3 Phase A.C. 3 Phase	ve Phase	Volts 230/460 230/460 230/460		2003 Type of Drive Direct Direct Direct		6 6 10 6
F G H I A B C D	Brierly Pond Booster Brierly Pond Booster A.C. or D.C. if A.C. Gi A.C. 3 Phase A.C. 3 Phase A.C. 3 Phase A.C. 3 Phase A.C. 3 Phase	ve Phase	Volts 230/460 230/460 230/460 230/460		2003 Type of Drive Direct Direct Direct Direct		6 6 10 6 4
F G H I A B C D E	Brierly Pond Booster Brierly Pond Booster A.C. or D.C. if A.C. Gi A.C. 3 Phase A.C. 3 Phase A.C. 3 Phase A.C. 3 Phase A.C. 3 Phase A.C. 3 Phase	ve Phase	Volts 230/460 230/460 230/460 230/460 230/460		2003 Type of Drive Direct Direct Direct Direct Direct		6
F G H I A B C D E F	Brierly Pond Booster Brierly Pond Booster A.C. or D.C. if A.C. Gi A.C. 3 Phase A.C. 3 Phase	ve Phase	Volts 230/460 230/460 230/460 230/460 230/460 230/460		2003 Type of Drive Direct Direct Direct Direct Direct Direct		6 6 10 6 4 1

404							
Annu	al report of Aquarion	Water Con	npany of Massac Pumping Inforn		inued Oxford	Year ended De	ecember 31, 2013
6. Ga	s Producers		<u> </u>				
		This sched	ule not presently u	ised			
7. Int	ernal combustion eng	gines.	1		1	<u> </u>	
	Location		Name of Builder		When Installed	Type of Drive	Cost
А	#1 North Main Street		Koehler		2012	Generator	
В	#2 North Main Street		Koehler		2012	Generator	
С	#3 Nelson Street		Koehler		2005	Generator	
D	Sutton Ave.		Koehler		2000	Generator	
				Dimensio	ons of Cylinders		
	For Gas, Gasoline	Number	Single or			2 or 4 Stroke	Rated H.P.
A	or Oil Fuel Oil	of Cyls. 4	Double Acting Double	Diameter 4.19	Stroke 5	Cycle 4	197
В	Diesel	4	Double	4.19	5	4	125
С	L.P. Gas	8	Single	4	4 3/8	4	125
D	L.P. Gas	6	Single	4	3.98	4	82
8. EL	ECTRIC MOTORS, IN	CLUDING (SWITHCES	1		
	Location		Name of Builder		When Installed		Cost
Α	#1 North Main Street		U.S. Motors		1990		
В	#2 North Main Street		U.S. Motors		1990		
-	#3 Nelson Street		U.S. Motors		2005		
	Sutton Ave. Booster #1A North Main Stree	•	Baldor Franklin		1999 2007		
L		L			2007		
	A.C. or D.C. if A.C. Gi	ve Phase	Volts		Type of Drive		Rated H.P.
Α	A.C. 3 Phase		575		Direct		60
В	A.C. 3 Phase		575		Direct		60
С	A.C. 3 Phase		480		Direct		100
D E	A.C. 3 Phase A.C. 3 Phase		230/460 575		Direct Direct		5 60
Ľ	7.0. 3 FIId30		515				
					T	otal Horse Power	285

405 Annual report of Aquarion Water Company of Massachusetts

Year ended December 31, 2013

Pumping Information - Continued. - Hingham

9. Wa	ter Wheels and Turl	bines				
	Location			Name of Builder	When Installed	Cost
А. В. С. D.		NONE				
	Type of Machine	Diam. of Runner	Working Head	Speed	Type of Driver	Rated H.P.
Α.						
В.						
C.						
D.						
10. G	ive a full and compl	ete description of an	y water power right	s that are owned by	the Company, and	say when they were bought and
	what was paid for th	nem				

105 Annu	al report of Aquario	n Water Company o	f Massachusetts			Year ended December 31, 201
		Pum	ping Information - (Continued Millbu	ıry	
). Wa	ter Wheels and Tur	bines				
	Location			Name of Builder	When Installed	Cost
A. B. C. D.		NONE				
	Type of Machine	Diam. of Runner	Working Head	Speed	Type of Driver	Rated H.P.
A. B. C. D.						
	what was paid for the		ny water power righ	its that are owned	by the Company,	, and say when they were bought an

	al report of Aquario	n Water Company of	Massachusetts			Year ended December 31, 201		
		Pum	oing Information -	Continued Oxfo	ord			
Water Wheels and Turbines								
	Location			Name of Builder	When Installed	Cost		
A. B. C. D.	NONE							
	Type of Machine	Diam. of Runner	Working Head	Speed	Type of Driver	Rated H.P.		
A. B. C. D.								
	ve a full and comple and what was paid f		y water power rig	that are owned	d by the Company	y, and say when they were bought		

07 Hingham	Aquarion Water	Company of M	assachusetts		Y	ear ended Dece	ember 31, 20
•	•		ng Information - C	Continued Hing			
1. Station log	System Delivery	Summary - Hin	gham/Hull Distric	t Water Treatme	ent Facility Only		
Year and Month 2013	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping		Average Total Static Head	Average Total Dynamic Head
January	192,150		88.390	744			
February	159,950		77.256	672			
March	159,250		81.941	744			
April	160,300		79.549	720			
Мау	177,100		107.502	744			
June	179,550		113.143	720			
July	226,100		134.867	744			
August	202,650		130.370	744			
September	188,650		112.393	720			
October	182,700		99.050	744			
November	149,450		79.116	720			
December	172,900		81.592	744			
Totals	2,150,750	0	1,185.169	8,760	0	0	
2. Based upon	the displacemer	nt ofga	allons per revoluti	on with	per cent allowar	nce for slip	-
3. Average gall	ons per day		3.247	MG (365 days)			
4. Maximum ga	Illons pumped ir	a day	5.261	MG			
5. Date of same	e,		15-Jul-13				
6. Range of pre	ssure in main _		45-95 psi				
7. Average pres	ssure in main		82 psi				

Annu	al report of Aquarion Water Company of Ma	chusetts Year ended December 31, 20 ^o
	Pumping Inform	on - Continued Hingham
18. H	Kind of coal	
19. <i>A</i>	Average price per net ton, delivered	
20. <i>A</i>	Average price of wood per cord, delivered	
21. A	Average price per gas per M. cubic feet	
22. A	Average price per gasoline per gallon, delive	
23. A	Average price of fuel oil per gallon, delivered	
24. <i>A</i>	Average price of electric power per Kwhr	\$ 0.15000
25. V	Vood consumed durind the year	
26. 0	Gas consumed during the year	
27. 0	Gasoline consumed during the year	
28. F	uel oil consumed during the year	
29. E	Electric Power used during the year	2,150,750 Kwhrs

nnual report of	Aquarion Water					ear ended Deco	ember 31, 20
		Pump	ing Information - C	Continued Hing	ham		
1. Station log		Accord Por	nd to Water Treatm	ent Facility			
Year and Month 2013	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping		Average Total Static Head	Average Total Dynamic Head
January	10,382		26.679	611			
February	7,197		16.592	349			
March	3,645		2.294	233			
April	2,560		4.923	224			
Мау	4,372		18.681	346			
June	4,479		20.602	336			
July	10,722		38.319	689			
August	8,947		40.641	718			
September	7,910		33.534	694			
October	5,932		25.257	495			
November	2,469		2.434	192			
December	3,292		2.843	120			
Totals	71,907	(232.799	5,007	0	0	
2. Based upon 3. Average gall		nt ofg	allons per revoluti	on with //G (365days)	_per cent allowa	nce for slip	-
4. Maximum ga	llons pumped in	a day	<u>1.604 M</u>	ИG			
5. Date of same	e, _		5-Aug-13				
6. Range of pre	ssure in main		5-10 psi				
7. Average pres			10 psi				

408	3	cord Pond to Water Treatment Facility
An	nual report of Aquarion Water Company of Ma	Achusetts Year ended December 31, 201
L	Pumpir	nformation - Continued Hingham
18.	Kind of coal	
19.	Average price per net ton, delivered	
20.	Average price of wood per cord, delivered	
21.	Average price per gas per M. cubic feet	
22.	Average price per gasoline per gallon, delive	I
23.	Average price of fuel oil per gallon, delivered	
24.	Average price of electric power per Kwhr	\$ 0.1600
25.	Wood consumed durind the year	
26.	Gas consumed during the year	
27.	Gasoline consumed during the year	
28.	Fuel oil consumed during the year	
29.	Electric Power used during the year	71,907 Kwhrs

Annual report of	Aquarion Water					ear ended Dece	ember 31, 20
		Pump	ing Information - C	Continued Hing	ham		
1. Station log			ell 1 to Water Trea	tment Facility			
Year and Month 2013	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping		Average Total Static Head	Average Total Dynamic Head
January	24,718		13.135	744			
February	20,035		11.389	672			
March	19,989		12.123	744			
April	19,535		11.456	720			
May	11,407		8.855	528			
June	18,292		13.948	720			
July	20,850		14.477	744			
August	19,936		14.477	744			
September	17,141		14.010	720			
October	14,631		3.269	168			
November	10,617		0.000	0			
December	11,749		0.000	0			
Totals	208,900	() 117.139	6,504	0	0	
2. Based upon	the displaceme	nt ofg	allons per revoluti	on with	per cent allowa	nce for slip	-
3. Average galle	ons per day		0.321 N	/IG (365 days)			
4. Maximum ga	llons pumped ir	a day	0.49 N	//G			
5. Date of same	,		13-Jun-13				
6. Range of pres	ssure in main		35-45 psi				
7. Average pres	sure in main		40 psi				

408	1	Fulling Mill Well 1 to Water Treatment Facili	ty
Anı	nual report of Aquarion Water Company of Ma		Year ended December 31, 2013
	Pumpi	g Information - Continued Hingham	
18.	Kind of coal		
19.	Average price per net ton, delivered		
20.	Average price of wood per cord, delivered		
21.	Average price per gas per M. cubic feet		
22.	Average price per gasoline per gallon, delive	red	
23.	Average price of fuel oil per gallon, delivered		
24.	Average price of electric power per Kwhr	\$ 0.1500	
25.	Wood consumed durind the year		
26.	Gas consumed during the year		
27.	Gasoline consumed during the year		
28.	Fuel oil consumed during the year		
29.	Electric Power used during the year	208,900 Kwhrs	

407							
Annual report of	Aquarion Wate					ar ended Dece	ember 31, 2013
		Pumpin	g Information - Co	ontinued Hingha	am		
11. Station log		Fulling Mill We	ell 2 to Water Trea	tment Facility			
Year and Month 2013	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping		Average Total Static Head	Average Total Dynamic Head
January			4.397	744			
February			3.667	672			
March			3.499	744			
April			3.162	720			
Мау			4.380	432			
June			8.460	720			
July			7.875	744			
August			7.409	744			
September			6.715	720			
October			7.537	744			
November			7.245	720			
December			7.182	744			
Totals	0	0	71.528	8,448	0	0	0
12. Based upon	the displaceme	ent of	gallons per revolu	tion with	_per cent allo	owance for sl	ip
13. Average gallo	ons per day		0.196	MG (365 days)			
14. Maximum ga	llons pumped i	in a day	0.324 1	MG			
15. Date of same	,		25-May-13				
16. Range of pres	ssure in main		35-45 psi				
17. Average pres	sure in main		40 psi				

408	Fulling Mill Well 2 to Water Treatment Fa	cility
Annual report of Aquarion Water Company of		Year ended December 31, 2013
Pumpi	ng Information - Continued Hingham	
18. Kind of coal		
19. Average price per net ton, delivered		
20. Average price of wood per cord, delivered	i	
21. Average price per gas per M. cubic feet		
22. Average price per gasoline per gallon, de	livered	
23. Average price of fuel oil per gallon, delive	ared	
24. Average price of electric power per Kwhr	see Fulling Mill 1 meter	
25. Wood consumed durind the year		
26. Gas consumed during the year		
27. Gasoline consumed during the year		
28. Fuel oil consumed during the year		
29. Electric Power used during the year	see Fullin	ng Mill 1 meter

nnual report of	Aquarion Water					ear ended Dec	ember 31, 20
		Pump	ing Information - C	ontinued Hing	ham		
1. Station log		Scotland S	t to Water Treatme	ent Facility			
Year and Month 2013	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping		Average Total Static Head	Average Total Dynamic Head
January	3,903		0.000	0			
February	2,835		0.000	0			
March	2,865		0.000	0			
April	2,352		0.000	0			
May	6,492		0.000	0			
June	5,415		0.000	0			
July	10,646		4.630	310			
August	6,243		0.000	0			
September	5,367		0.000	0			
October	5,051		0.000	0			
November	8,382		0.000	0			
December	9,812		0.000	0			
Totals	69,363	0	4.630	310	0	0	
2. Based upon	the displacemer	it ofg	allons per revoluti	on with	per cent allowa	nce for slip	-
3. Average galle	ons per day		0.013 N	/IG (365 days)			
4. Maximum ga	llons pumped in	a day	0.402 N	/IG			
5. Date of same	,		7-Jul-13				
6. Range of pres	ssure in main		5-10 psi				
7. Average pres	sure in main		8 psi				

408		otland St to Water Treatment Facility
Anı	nual report of Aquarion Water Company of Ma	
	Pumpi	nformation - Continued Hingham
18.	Kind of coal	
19.	Average price per net ton, delivered	
20.	Average price of wood per cord, delivered	
21.	Average price per gas per M. cubic feet	
22.	Average price per gasoline per gallon, delive	I
23.	Average price of fuel oil per gallon, delivered	
24.	Average price of electric power per Kwhr	\$ 0.1600
25.	Wood consumed durind the year	
26.	Gas consumed during the year	
27.	Gasoline consumed during the year	
28.	Fuel oil consumed during the year	
29.	Electric Power used during the year	69,363 Kwhrs

Annual report of	Aquarion Water					ear ended Dec	ember 31, 20
		Pump	oing Information - C	Continued Hingh	iam		
1. Station log		Scotland St	1A to Water Treatm	nent Facility			
Year and Month 2013	Kwhrs Used	Pounds Million of coal Gallons of Burned Water Pumped	Hours of Pumping		Average Total Static Head	Average Total Dynamic Head	
January			0.574	47			
February			0.435	43			
March			0.583	225			
April			1.627	244			
Мау			9.824	601			
June			9.963	569			
July			10.408	621			
August			8.488	505			
September			5.877	352			
October			8.336	464			
November			10.649	720			
December			11.107	720			
Totals	0		0 77.871	5,111	0	0	
2. Based upon 3. Average gall		nt of	gallons per revoluti 0.213 M	on withp //G (365 days)	per cent allowan	ce for slip	-
4. Maximum ga	llons pumped in	n a day	0.544 N	//G			
5. Date of same	e,		1-Jun-13				
6. Range of pre	ssure in main		5-10 psi				
	ssure in main		8 psi				

408		Scotland St 1A to Water Treatment Facility	
Anr	ual report of Aquarion Water Company of Ma		Year ended December 31, 2013
	Pumpi	ng Information - Continued Hingham	
18.	Kind of coal		
19.	Average price per net ton, delivered		
20.	Average price of wood per cord, delivered		
21.	Average price per gas per M. cubic feet		
22.	Average price per gasoline per gallon, delive	ered	
23.	Average price of fuel oil per gallon, delivere	I	
24.	Average price of electric power per Kwhr	See Scotland Street Meter	
25.	Wood consumed durind the year		
26.	Gas consumed during the year		
27.	Gasoline consumed during the year		
28.	Fuel oil consumed during the year		
29.	Electric Power used during the year	0 Kwhrs	

407 Annual report of	Aquarion Water	r Company of M	assachusetts		Y	ear ended Dec	ember 31, 2013
•	•	Pumpi	ng Information -	Continued Hing	Jham		
11. Station log		D	owning Street We	ell			
Year and Month 2013	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping		Average Total Static Head	Average Total Dynamic Head
January	3,029		0.000	0			
February	2,641		0.000	0			
March	2,619		0.000	0			
April	3,533		0.000	0			
May	285		0.000	0			
June	88		0.000	0			
July	70		0.000	0			
August	0		0.000	0			
September	198		0.000	0			
October	104		0.000	0			
November	1,786		0.000	0			
December	2,881		0.000	0			
Totals	17,234	0	0.000	0	0	0	
12. Based upon t	the displaceme	nt ofga	allons per revolut	ion with	_per cent allowa	nce for slip	_
13. Average gallo	ons per day		0.000	MG (365 days)			
14. Maximum gal	nons pumped li	ia uay	0	MG			
15. Date of same	•,						
 Range of pres 	ssure in main		80-95 psi				
17. Average pres	sure in main		82 psi				
			02 93				

408		Downing Street	t Well		
An	nual report of Aquarion Water Company of I	Massachusetts			Year ended December 31, 2013
	Pumping Info	mation - Continu	ed Hin	gham	
18.	Kind of coal				
19.	Average price per net ton, delivered				
20.	Average price of wood per cord, delivered				
21.	Average price per gas per M. cubic feet				
22.	Average price per gasoline per gallon, deliver	ed			
23.	Average price of fuel oil per gallon, delivered				
24.	Average price of electric power per Kwhr		\$	0.2000	
25.	Wood consumed durind the year				
26.	Gas consumed during the year				
27.	Gasoline consumed during the year				
28.	Fuel oil consumed during the year				
29.	Electric Power used during the year			17,234 Kwhrs	

Annual report of	Aquarion Water					ear ended Dece	ember 31, 201
		Pumpi	ng Information - Co	ntinued Hingha	m		
1. Station log		Prospect St	reet to Water Treat	nent Facility			
Year and Month 2013	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping		Average Total Static Head	Average Total Dynamic Head
January	4,551		7.195	611			
February	4,016		4.694	399			
March	3,358		5.696	436			
April	1,263		2.567	215			
May	2,664		6.129	600			
June	2,021		4.151	541			
July	2,670		2.195	393			
August	605		0.693	286			
September	443		0.378	64			
October	539		1.301	177			
November	2,211		4.209	512			
December	3,504		5.073	620			
Totals	27,845		44.281	4,854	0	0	
2. Based upon	the displaceme	nt of	gallons per revoluti	on withp	er cent allov	vance for slip_	
3. Average gal	lons per day			0.121 N	IG (365 days)	I	
4. Maximum ga	allons pumped in	a day		0.322 N	IG		
5. Date of sam	e,			21-Mar-13			
6. Range of pre	ssure in main		5-10 psi				
7. Average pre	oouro in main		10 psi				

408		Prospect Street to Water Treatment Fa	
An	nual report of Aquarion Water Company of Ma		Year ended December 31, 2013
	Pumping Int	ormation - Continued Hingham	
18.	Kind of coal		
19.	Average price per net ton, delivered		
20.	Average price of wood per cord, delivered		
21.	Average price per gas per M. cubic feet		
22.	Average price per gasoline per gallon, delive	ered	
23.	Average price of fuel oil per gallon, delivered	i	
24.	Average price of electric power per Kwhr	\$ 0.1700	
25.	Wood consumed durind the year		
26.	Gas consumed during the year		
27.	Gasoline consumed during the year		
28.	Fuel oil consumed during the year		
29.	Electric Power used during the year	27,845 Kwhrs	

hrs ed 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		ng Information - C 2 to Water Treatm Million Gallons of Water Pumped 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000		Jham	Average Total Static Head	Average Total Dynamic Head
hrs ed 0 0 0 0 0 0 0 0 0 0 0 0 0	Pounds of coal	Million Gallons of Water Pumped 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	Hours of Pumping 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Total Static	Total Dynamic
ed 0 0 0 0 0 0 0 0 0 0 0	of coal	Gallons of Water Pumped 0.000 0.000 0.000 0.000 0.000 0.000 0.000	Pumping 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Total Static	Total Dynamic
		0.000 0.000 0.000 0.000 0.000 0.000	0 0 0 0 0 0			
		0.000 0.000 0.000 0.000 0.000 0.000	0 0 0 0 0			
0 0 0 0 0 0		0.000 0.000 0.000 0.000 0.000	0 0 0 0			
0 0 0 0 0		0.000 0.000 0.000 0.000	0 0 0			
0 0 0 0		0.000 0.000 0.000	0 0 0			
0 0 0		0.000 0.000	0 0			
0 0		0.000	0			
0						
		0.000	0			
0	1		0			
		0.000	0			
0		0.000	0			
0		0.000	0			
0	0	0.000	0	0	0	
placement o	fga	llons per revoluti	on with	_per cent allowan	nce for slip	
day	-	0.000	MG (365 days)			
14. Maximum gallons pumped in a day			MG			
n main		50-60 psi				
main		55 psi				
	0 day umped in a d main	0 0 placement of ga day Imped in a day 	0 0 0.000 placement ofgallons per revoluti day 0.000 f imped in a day 0 f main50-60 psi	0 0 0.000 0 olacement of gallons per revolution with	0 0 0.000 0 0 placement ofgallons per revolution withper cent allowar day0.000 MG (365 days) umped in a day0 0 MG	0 0 0.000 0 0 0 placement ofgallons per revolution withper cent allowance for slip day0.000 MG (365 days) umped in a day0 MG

408		Free Street #2 to Water Treatment Facility	
Annual re	eport of Aquarion Water Company of Ma		Year ended December 31, 2013
	Pu	mping Information - Continued Hingham	
18. Kind	of coal		
ro. runa			
19. Avera	age price per net ton, delivered		
20 Avers	age price of wood per cord, delivered		
20. Avere	age price of wood per cord, derivered		
21. Avera	age price per gas per M. cubic feet		
22 Avor	age price per gasoline per gallon, delive	ared	
22. AVEI	age price per gasonne per ganon, denve		
23. Avera	age price of fuel oil per gallon, delivered	d	
24 Avers	age price of electric power per Kwhr	N/A	
24. Avere		1975	
25. Wood	d consumed durind the year		
26 Gas (consumed during the year		
20. 003 (
27. Gaso	line consumed during the year		
28 Fuel	oil consumed during the year		
20. 1 001	en concurred daring the year		
29. Elect	ric Power used during the year	0 Kwhrs	
1			

Annual report of	Aquarion Water					ear ended Dece	ember 31 <u>,</u> 20
		Pumpi	ng Information - C	Continued Hing	Jham		
1. Station log		Free Street #3 a	& #5 to Water Trea	atment Facility			
Year and Month 2013	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping		Average Total Static Head	Average Total Dynamic Head
January	52,960		10.678	744			
February	44,120		9.968	672			
March	51,680		10.296	664			
April	58,920		1.175	587			
May	56,520		0.000	456			
June	55,360		11.679	693			
July	60,440		13.427	744			
August	71,320		12.408	718			
September	50,680		13.533	720			
October	58,840		14.292	744			
November	57,320		14.026	688			
December	53,880		4.719	264			
Totals	672,040	0	116.201	7,694	0	0	
	es same electric the displaceme		allons per revoluti	on with	per cent allowa	nce for slip	_
3. Average gall	ons per day		0.318	MG (365 days)			
4. Maximum ga	Illons pumped ir	a day	0.777	MG			
5. Date of same	e,		19-Nov-13				
6. Range of pre	ssure in main _		50 -60 psi				
7. Average pres	ssure in main		55 psi				

408		Free Street #3 & #5 to Water Treatment Fac	ility
An	nual report of Aquarion Water Company of Ma	ssachusetts	Year ended December 31, 2013
	Pu	mping Information - Continued Hingham	
18.	Kind of coal		
	· · · · · · · · · · · ·		
19.	Average price per net ton, delivered		
20.	Average price of wood per cord, delivered		
21.	Average price per gas per M. cubic feet		
22.	Average price per gasoline per gallon, delive	red	
23.	Average price of fuel oil per gallon, delivered		
24.	Average price of electric power per Kwhr	\$ 0.1400	
	-		
25	Wood consumed durind the year		
25.	wood consumed durind the year		
26.	Gas consumed during the year		
27	Gasoline consumed during the year		
21.	Gasoline consumed during the year		
28.	Fuel oil consumed during the year		
29	Electric Power used during the year	672,040 Kwhrs	
		072,010 100113	

Annual report of	f Aquarion Water					ear ended Dece	mber 31, 201
		Pumpi	ng Information - C	Continued Hing	ham		
1. Station log		Free Street #2	2A to Water Treat	ment Facility			
Year and Month 2013	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping		Average Total Static Head	Average Total Dynamic Head
January	2,310		0.244	112			
February	5,250		7.899	290			
March	25,200		21.996	622			
April	29,610		26.215	649			
Мау	29,820		27.488	744			
June	28,560		26.338	720			
July	28,350		24.229	744			
August	39,480		27.783	744			
September	31,500		27.725	720			
October	40,530		30.325	744			
November	39,690		29.161	720			
December	35,910		29.523	744			
Totals	336,210	0	278.926	7,553	0	0	
 Based upon Average gal 	-	nt ofga	allons per revoluti 0.764 1	ion with	per cent allowar	nce for slip	
00	. ,						
4. Maximum g	allons pumped ir	n a day	1.079 1	MG			
5. Date of sam	e,		31-Oct-13				
6. Range of pre	essure in main _		50-60 psi				
7 Average pre	ssure in main		55 psi				

408	Free Street #2A to Water Treatment Facility	
Annual report of Aquarion Water Company of M		Year ended December 31, 2013
Pu	mping Information - Continued Hingham	
18. Kind of coal		
19. Average price per net ton, delivered		
20. Average price of wood per cord, delivered		
24 August miles was not an Marchie fact		
21. Average price per gas per M. cubic feet		
22. Average price per gasoline per gallon, deliv	rered	
23. Average price of fuel oil per gallon, delivere	ed and the second se	
	-	
24. Average price of electric power per Kwhr	\$ 0.2000	
25. Wood consumed durind the year		
26. Gas consumed during the year		
20. Gas consumed during the year		
27. Gasoline consumed during the year		
28. Fuel oil consumed during the year		
,	-	
29. Electric Power used during the year	336,210 Kwhrs	

407 Annual report of	Aquarion Wate	r Company of M	assachusetts		Y	ear ended Dece	mber 31. 2013
			ng Information - (Continued Hing			
1. Station log		Free Street #	4 to Water Treatr	nent Facility			
Year and Month 2013	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping		Average Total Static Head	Average Total Dynamic Head
January			23.431	744			
February			21.629	672			
March			24.498	744			
April			21.501	720			
Мау			24.055	744			
June			23.082	720			
July			27.918	744			
August			22.607	744			
September			19.251	720			
October			20.444	744			
November			20.082	720			
December			22.046	744			
Totals	0	0	270.544	8,760	0	0	
lote: uses mete	er at Free St # 3						
2. Based upon	the displaceme	nt ofga	allons per revolut	ion with	per cent allowa	nce for slip	
3. Average gall	ons per day		0.741	MG (365 days)			
4 Maximum ga	llono numnod ir	a dav	1 001 1				
4. Maximum ga	nons pumped i	i a uay	1.991	viG			
5. Date of same	,		19-Jul-13				
6. Range of pre	ssure in main		50 -60 psi				
7. Average pres	ssure in main		55 psi				
. Aterage ples			00 281				

408		Free Street #4 to Water Treatment Facility	
An	nual report of Aquarion Water Company of Ma		(ear ended December 31, 2013
	Pur	nping Information - Continued Hingham	
18.	Kind of coal		
19.	Average price per net ton, delivered		
20.	Average price of wood per cord, delivered		
21	Average price per gas per M. cubic feet		
22.	Average price per gasoline per gallon, delive		
23.	Average price of fuel oil per gallon, delivered	I	
24.	Average price of electric power per Kwhr	See Free St.#3&5	
25.	Wood consumed durind the year		
26.	Gas consumed during the year		
27.	Gasoline consumed during the year		
28.	Fuel oil consumed during the year		
29.	Electric Power used during the year		Kwhrs

407										
Annual report of	Aquarion Water			Continued Mil	llesses	Year ended Dece	ember 31, 201			
Pumping Information - Continued Millbury										
1. Station Log			Total System	1						
Year and Month 2013	Kwhrs Used	Purchased Water (MG)	Million Gallons of Water Pumped	Hours of Pumping	Total System (MG) Includes Purchased Wtr	Average Total Static Head	Average Total Dynamic Head			
January	81,150	0.000	45.934	1,668	45.934					
February	89,930	0.000	41.127	1,496	41.127					
March	93,750	0.000	48.651	1,732	48.651					
April	87,700	0.000	46.461	1,655	46.461					
Мау	91,840	0.000	49.705	1,759	49.705					
June	91,950	0.000	48.824	1,688	48.824					
July	85,600	0.000	56.683	1,871	56.683					
August	105,890	0.000	52.464	1,800	52.464					
September	86,300	0.000	48.958	1,729	48.958					
October	95,410	3.600	42.657	1,564	46.257					
November	85,820	13.056	29.463	1,133	42.519					
December	63,060	1.741	41.908	1,611	43.649					
Totals	1,058,400	18.397	552.835	19,706	571.232	0				
 Based upon t Average gallo 		nt ofga	allons per revoluti	ion with	_per cent allowa	nce for slip				
				(*** **);						
4. Maximum gal	llons pumped ir	a day	2.456	MG						
5. Date of same	,		21-Jul-13							
6. Range of pres	sure in main	21	lbs to	125	lbs					
7. Average pres	sure in main	_73	17. Average pressure in main 73 lbs per sq in							

408		Total System			
An	nual report of Aquarion Water Company of M				Year ended December 31, 2013
	Pumping Inform	nation - Continue	d Mill	bury	
18.	Kind of coal				
19.	Average price per net ton, delivered				
20.	Average price of wood per cord, delivered				
21.	Average price per gas per M. cubic feet				
22.	Average price per gasoline per gallon, deliv	vered			
23.	Average price of fuel oil per gallon, deliver	ed			
24.	Average price of electric power per Kwhr		\$	0.1261	
25.	Wood consumed durind the year				
26.	Gas consumed during the year				
27.	Gasoline consumed during the year				
28.	Fuel oil consumed during the year				
29.	Electric Power used during the year			1,058,400 Kwhrs	3

Annual report of	Aquarion Water C		ssachusetts nformation - Contin	und Millbur		ar ended Dece	mber 31, 201
		Fumping i	mormation - Contine		у		
1. Station Log	T		Millbury Ave. Statior Million	1		A. (Augrage
Year and Month 2013	Kwhrs Used	Pounds of coal Burned	Gallons of Water Pumped	Hours of Pumping		Average Total Static Head	Average Total Dynamic Head
January	11,500		6.979	171			
February	14,500		6.573	164			
March	16,600		9.609	235			
April	21,000		8.775	211			
Мау	20,000		11.600	285			
June	20,200		10.115	250			
July	22,900		15.769	381			
August	32,100		12.190	302			
September	19,000		11.177	276			
October	31,100		8.073	200			
November	22,500		0.651	16			
December	3,900		8.635	243			
Totals	235,300	0	110.146	2,734	0	0	
2. Based upon t	the displacement	ofga	llons per revolution	with	_per cent a	llowance for s	slip
3. Average gallo	ons per day		0.302	MG (365 da	ays)		
4. Maximum ga	llons pumped in a	a day	0.83 MG				
5. Date of same	,		13-Jul-13				
6. Range of pres	ssure in main	21	lbs to	125	lbs		
7. Average pres	sure in main	73	lbs per sq in				

408		Nillbury Ave. Station
Anı	nual report of Aquarion Water Company of Ma	
	Pumping Inforr	ation - Continued Millbury
18.	Kind of coal	
19.	Average price per net ton, delivered	
20.	Average price of wood per cord, delivered	
21.	Average price per gas per M. cubic feet	
22.	Average price per gasoline per gallon, delive	ed
23.	Average price of fuel oil per gallon, delivered	
24.	Average price of electric power per Kwhr	\$ 0.1502
25.	Wood consumed durind the year	
26.	Gas consumed during the year	
27.	Gasoline consumed during the year	
28.	Fuel oil consumed during the year	
29.	Electric Power used during the year	235,300 Kwhrs

407							
	ort of Aquarion Water	Company of Ma	ssachusetts		Year	ended Dece	ember 31, 2013
		Pumping Inf	ormation - Contin	ued Millbury	/		
11. Station I	00		Oak Pond Station				
	-09	Pounds	Million			Average	Average
Year and Month 2013	Kwhrs Used	of coal Burned	Gallons of Water Pumped	Hours of Pumping		Total Static Head	Total Dynamic Head
January	22,400		15.584	745			
February	27,680		13.677	654			
March	28,800		15.471	743			
April	24,800		15.094	721			
Мау	26,240		15.494	743			
June	25,600		16.387	717			
July	23,200		17.907	745			
August	27,840		17.554	748			
September	25,600		15.753	724			
October	24,160		11.631	603			
November	22,720		7.476	415			
December	15,360		11.032	616			
Totals	294,400	0	173.060	8,174	0	0	0
12. Based ι	pon the displacemen	nt ofgal	llons per revolutio	on with	per cent	allowance f	or slip
13. Average	e gallons per day		0.474	MG (365 day	/S)		
14. Maximu	m gallons pumped in	a day	0.689	MG			
15. Date of same , 24-Jul-13							
16. Range o	f pressure in main _	21	lbs to	125	lbs		
17. Average	17. Average pressure in main 73 lbs per sq in						

408	Oak Pond Station	
Annual report of Aquarion Water Company of	Massachusetts	Year ended December 31, 2013
Pumping Info	rmation - Continued Millbury	
18. Kind of coal		
19. Average price per net ton, delivered		
20. Average price of wood per cord, delivered	I	
21. Average price per gas per M. cubic feet		
22. Average price per gasoline per gallon, del	livered	
23. Average price of fuel oil per gallon, delive	red	
24. Average price of electric power per Kwhr	\$ 0.1168	
25. Wood consumed durind the year		
26. Gas consumed during the year		
27. Gasoline consumed during the year		
28. Fuel oil consumed during the year		
29. Electric Power used during the year	294,400 Kwhrs	

407								
Annual report of A	Aquarion Water					ear ended Dece	mber 31, 2013	
Pumping Information - Continued Millbury								
11. Station Log Jacques #1 N. Main St. Station								
Year and Month 2013	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping		Average Total Static Head	Average Total Dynamic Head	
January	43,650		23.371	752				
February	43,850		20.877	678				
March	44,700		23.571	754				
April	39,250		22.592	723				
Мау	43,250		22.611	731				
June	44,050		22.322	721				
July	38,300		23.007	745				
August	44,750		22.720	750				
September	40,550		22.028	729				
October	39,050		22.953	761				
November	39,250		21.336	702				
December	42,250		22.241	752				
Totals	502,900	0	269.629	8,798	0	0		
12. Based upon t	he displaceme	nt of	gallons per revo	lution with	per cent a	llowance for slip	D	
40 A			0.700	MO (005 days)				
13. Average gallo	ns per day		0.739	MG (365 days)				
14. Maximum gall	ons pumped i	n a day	0.95	MG				
15. Date of same, 21-Jul-13								
16. Range of pres	sure in main	21	lbs to	125	lbs			
17. Average press	sure in main	73	lbs per sq in					
	-							

408 Jacques #1 N. Main St. Station									
Annual report of Aquarion Water Company of		Year ended December 31, 2013							
Pumping Information - Continue Pumping Info	rmation - Continued Millbury								
18. Kind of coal									
19. Average price per net ton, delivered									
20. Average price of wood per cord, delivered	1								
21. Average price per gas per M. cubic feet									
22. Average price per gasoline per gallon, de	livered								
23. Average price of fuel oil per gallon, delive	ered								
24. Average price of electric power per Kwhr	\$ 0.1192								
25. Wood consumed durind the year									
26. Gas consumed during the year									
27. Gasoline consumed during the year									
27. Gasoline consumed during the year									
28. Fuel oil consumed during the year									
20 Electric Power used during the vest	502,900 Kwhrs								
29. Electric Power used during the year	502,900 KWNIS								

107 Annual report of A	quarion Water Com				,	ear ended Dec	ember 31 <u>,</u> 20
	•	Pumping	Information - Contir	nued Millbury			
11. Station Log Jacques #2 N. Main St. Station							
Year and Month 2013	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping		Average Total Static Head	Average Total Dynamic Head
January	3,600		0.000	0			
February	3,900		0.000	0			
March	3,650		0.000	0			
April	2,650		0.000	0			
Мау	2,350		0.000	0			
June	2,100		0.000	0			
July	1,200		0.000	0			
August	1,200		0.000	0			
September	1,150		0.000	0			
October	1,100		0.000	0			
November	1,350		0.000	0			
December	1,550		0.000	0			
Totals	25,800	0	0.000	0	0	0	
2. Based upon th	ne displacement of_	gallon	s per revolution wit	hper co	ent allowa	nce for slip	
3. Average gallor	ns per day		0.000	MG (365 days)			
4. Maximum galle	ons pumped in a da	ıy	0	MG			
5. Date of same,			n/a				
6. Range of press	sure in main	21	lbs to	125	bs		
	_						
7. Average press	sure in main	73	lbs per sq in				

408		Jacques #2 N. Ma	in St.	Station	
Annu	al report of Aquarion Water Company of Massa				Year ended December 31, 2013
		Pumping Informat	ion -	Continued Millbury	
18. H	Kind of coal				
19. <i>A</i>	Average price per net ton, delivered				
20. A	Average price of wood per cord, delivered				
21. A	Average price per gas per M. cubic feet				
22. A	Average price per gasoline per gallon, delivered	i			
23. A	Average price of fuel oil per gallon, delivered				
24. A	Average price of electric power per Kwhr		\$	0.1474	
25. V	Vood consumed durind the year				
26. 0	Gas consumed during the year				
27. 0	Gasoline consumed during the year				
28. F	uel oil consumed during the year				
29. E	Electric Power used during the year			25,800 Kwhrs	

407							
Annual report of	Aquarion Water C		sachusetts ping Information - Co	ontinued Oxford	`	Year ended Dece	ember 31, 201
		T un					
11. Station Log Year and Month 2013	Kwhrs Used	Pounds of coal Burned	Total System Million Gallons of Water Pumped	Hours of Pumping		Average Total Static Head	Average Total Dynamic Head
January	40,720		17.926	1,000		neau	пеац
February	43,760		16.785	945			
March	40,960		18.106	1,007			
April	41,400		19.230	1,007			
May	42,360		23.685	1,296			
June	48,680		22.666	1,303			
July	48,360		25.504	1,480			
August	52,920		24.069	1,299			
September	49,360		21.610	1,185			
October	50,800		18.482	1,035			
November	42,920		16.782	1,006			
December	37,520		16.404	935			
Totals	539,760	0	241.249	13,588	0	0	
	·	ofgall	ons per revolution wit		nt allowance t	for slip	
13. Average ga	llons per day		0.661	MG (365 days)			
14. Maximum g	allons pumped in a	a day	1.106	MG			
15. Date of same, 1-Jun-13							
 Range of pre 	essure in main	48	lbs to	112	lbs		
17. Average pre	essure in main	80	lbs per sq in				

408	3	Total System			
An	nual report of Aquarion Water Company of Mas				Year ended December 31, 2013
		ation - Continued Ox	ford		
18.	Kind of coal				
19.	Average price per net ton, delivered				
20.	Average price of wood per cord, delivered				
21.	Average price per gas per M. cubic feet				
22.	Average price per gasoline per gallon, deliver	ed			
23.	Average price of fuel oil per gallon, delivered				
24.	Average price of electric power per Kwhr		\$	0.1274	
25.	Wood consumed durind the year				
26.	Gas consumed during the year				
27.	Gasoline consumed during the year				
28.	Fuel oil consumed during the year				
29.	Electric Power used during the year			539,760 Kwhrs	

407 Annual report	of Aquarion Water (Company of Ma	ssachusetts		· · · · ·	ear ended Dec	ember 31 20
Annual report			bing Information	- Continued		ear ended bed	eniber 51, 20
4. Otation La	_	Nee	th Main Ct. Mall	#4			
11. Station Lo	g	Pounds	th Main St. Well Million	#1		Average	Average
Year and Month 2013	Kwhrs Used	of coal Burned	Gallons of Water Pumped	Hours of Pumping		Total Static Head	Total Dynamic Head
January	11,600		0.000	0			
February	14,000		0.000	0			
March	14,400		0.000	0			
April	15,000		0.047	8			
Мау	15,800		0.039	2			
June	20,200		0.000	0			
July	21,800		0.000	0			
August	24,600		0.000	0			
September	22,800		0.000	0			
October	24,400		0.000	0			
November	15,400		0.000	0			
December	11,600		0.000	0			
Totals	211,600	0	0.086	10	0	0	
2. Based up	on the displacement	ofgall	ons per revoluti	on with	_per cent allowance	for slip	
13. Average g	allons per day		0.000	/IG (365 days)			
14. Maximum	gallons pumped in	a day	0.047	ИG			
15. Date of sa	ame,		22-Apr-13				
16. Range of p	pressure in main	48	lbs to	112	lbs		
7. Average p	pressure in main	80	lbs per sq in				

408		North Main St. Well #1
An	nual report of Aquarion Water Company of M	
	Pumping Infor	mation - Continued Oxford
18.	Kind of coal	
19.	Average price per net ton, delivered	
20.	Average price of wood per cord, delivered	
21.	Average price per gas per M. cubic feet	
22.	Average price per gasoline per gallon, deliv	ered
23.	Average price of fuel oil per gallon, delivere	d
24.	Average price of electric power per Kwhr	\$ 0.1381
25.	Wood consumed durind the year	
26.	Gas consumed during the year	
27.	Gasoline consumed during the year	
28.	Fuel oil consumed during the year	
29.	Electric Power used during the year	211,600 Stations 1, 1A & 2 Kwhrs

arion Water Compa	ny of Massac	husetts		Year ende	d Decembe	er 31, 2013
Pur	nping Inform	ation - Continued	Oxford			
	Nor	th Main St. Well	#1A			
Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping		Average Total Static Head	Average Total Dynamic Head
0		0.106	12			
0		0.279	30			
0		0.094	10			
0		0.674	67			
0		0.330	37			
0		1.828	187			
0		2.088	215			
0		0.036	4			
0		0.179	19			
0		0.164	19			
0		1.147	116			
0		0.017	2			
(See station # 1 for	totals)	6.942	718	0	0	
isplacement of	gallons	per revolution wi	ithper c	ent allowa	nce for sli	p
per day		0.019	MG (365 days)			
pumped in a day		0 274	MG			
. papou u uuj						
-		23-Jul-13				
in main	48 lbs to			lbs		
in main	80 lbs per sq in					
	Kwhrs Used 0 0	Pumping Inform Nor Kwhrs Pounds of coal Burned 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 gallons per day	North Main St. Well Kwhrs Pounds of coal Burned Million Gallons of Water Pumped 0 0.106 0 0.279 0 0.279 0 0.674 0 0.674 0 0.330 0 1.828 0 2.088 0 0.036 0 0.107 0 0.036 0 0.179 0 0.164 0 0.164 0 0.164 0 0.179 0 0.017 (See station # 1 for totals) 6.942 isplacement of gallons per revolution with per day 0 0.274 1 23-Jul-13 23-Jul-13	Pumping Information - Continued Oxford North Main St. Well #1A Kwhrs Pounds of coal Burned Million Gallons of Water Pumped Hours of Pumping 0 0.106 12 0 0.106 12 0 0.279 30 0 0.674 67 0 0.674 67 0 0.674 67 0 0.330 37 0 0.674 67 0 0.330 37 0 0.330 37 0 0.036 4 0 0.036 4 0 0.164 19 0 0.164 19 0 0.017 2 (See station #1 for totals) 6.942 718 isplacement of	Pumping Information - Continued Oxford North Main St. Well #1A Kwhrs Pounds of coal Burned Million Gallons of Water Pumping Hours of Pumping 0 0.106 12 0 0.106 12 0 0.279 30 0 0.674 67 0 0.674 67 0 0.330 37 0 1.828 187 0 2.088 215 0 0.036 4 0 0.1164 19 0 0.164 19 0 0.017 2 (See station # 1 for totals) 6.942 718 0 isplacement ofgallons per revolution with per cent allowa	Pumping Information - Continued Oxford North Main St. Well #1A Kwhrs Pounds of coal Burned Million Gallons of Water Pumped Hours of Pumping Average Total Static 0 0.106 12 Image: Total Static Static 0 0.106 12 Image: Total Static Head 0 0.106 12 Image: Total Static Head 0 0.0279 30 Image: Total Static Head 0 0.094 10 Image: Total Static Head 0 0.094 10 Image: Total Static Head 0 0.094 10 Image: Total Static Head 0 0.0674 67 Image: Total Static Image: Total Static Image: Total Static Image: Total Static 0 0 0.0179 19 Image: Total Static Image: Total Static </td

408	}		North Main St	. Well #1A	
An	nual report of Aquarion Water Compa	ny of Massach	usetts		Year Ended December 31, 2013
		Pumping Info	rmation - Cont	inued Oxford	
18.	Kind of coal				
19.	Average price per net ton, delivered				
20.	Average price of wood per cord, deli	vered			
21.	Average price per gas per M. cubic fo	eet			
22.	Average price per gasoline per gallo	n, delivered			
23.	Average price of fuel oil per gallon, o	delivered			
24.	Average price of electric power per h	Śwhr			see station #1
25.	Wood consumed durind the year				
26.	Gas consumed during the year				
27.	Gasoline consumed during the year				
28.	Fuel oil consumed during the year				
29.	Electric Power used during the year			see station #1	Kwhrs

11. Station Lo Year and Month	g Kwhrs Used	Pump No Pounds	oing Information - C	Continued Oxfo	ord	Year ended D	ecember 31, 2013							
Year and Month	Kwhrs	No Pounds												
Year and Month	Kwhrs	Pounds	11. Station Log North Main St. Well #2											
2013		of coal Burned	Million Gallons of Water Pumped	Hours of Pumping		Average Total Static Head	Average Total Dynamic Head							
January	0		4.878	235										
February	0		4.772	235										
March	0		5.120	252										
April	0		6.093	306										
Мау	0		10.253	509										
June	0		7.933	392										
July	0		10.072	511										
August	0		10.971	545										
September	0		8.742	442										
October	0		5.251	267										
November	0		3.271	170										
December	0		3.571	182										
Totals	(See station # 1 fo	r totals)	80.927	4,046	0	0	0							
12. Based up	on the displaceme	ent of	_gallons per revolu	ition with	per cent	allowance for	slip							
13. Average ç	allons per day		0.222	MG (365 days)										
14. Maximum	gallons pumped	in a day	0.53	MG										
15. Date of same,			25-Aug-13											
16. Range of pressure in main4			b lbs to 112 lbs											
17. Average p	pressure in main	80	lbs per sq in											
* One electric	meter is used for 1,	1A & 2												

408		North Main St. W	ell #2	
Anr	nual report of Aquarion Water Company o	f Massachusetts ormation - Continu	ad Oxford	Year ended December 31, 2013
18.	Kind of coal			
19.	Average price per net ton, delivered			
20.	Average price of wood per cord, delivere	d		
21.	Average price per gas per M. cubic feet			
22.	Average price per gasoline per gallon, de	elivered		
23.	Average price of fuel oil per gallon, deliv	ered		
24.	Average price of electric power per Kwh	r	see station #1	
25.	Wood consumed durind the year			
26.	Gas consumed during the year			
27.	Gasoline consumed during the year			
28.	Fuel oil consumed during the year			
29.	Electric Power used during the year		see station #1	Kwhrs

		Sompany of W	assachusetts		ŶĊ	ear ended De	cember 31, 2
1. Station Log)		Nelson St. #3				
Year and Month 2013	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping		Total Static Head	Average Total Dynamic Head
January	29,120		12.942	753			
February	29,760		11.734	680			
March	26,560		12.892	745			
April	26,400		12.416	716			
Мау	26,560		13.063	748			
June	28,480		12.905	724			
July	26,560		13.344	754			
August	28,320		13.062	750			
September	26,560		12.689	724			
October	26,400		13.067	749			
November	27,520		12.364	720			
December	25,920		12.816	751			
Totals	328,160	0	153.294	8,814	0	0	
2. Based upo	on the displacemen	t ofg	allons per revolu	ution with	per cent	allowance fo	r slip
3. Average ga	allons per day		0.420	MG (365 days)			
4. Maximum e	gallons pumped in	a day	0.544	MG			
5. Date of sar	me,		18-Feb-13				
6. Range of p	ressure in main	48	lbs to	112	lbs		
7 Average p	ressure in main	80	lbs per sq in				

408		Nelson St. #3		
Anr	ual report of Aquarion Water Company of M	assachusetts		Year ended December 31, 2013
18.	Kind of coal			
19.	Average price per net ton, delivered			
20.	Average price of wood per cord, delivered			
21.	Average price per gas per M. cubic feet			
22.	Average price per gasoline per gallon, deliv	ered		
23.	Average price of fuel oil per gallon, delivere	d		
24.	Average price of electric power per Kwhr		\$ 0.1203	
25.	Wood consumed durind the year			
26.	Gas consumed during the year			
27.	Gasoline consumed during the year			
28.	Fuel oil consumed during the year			
29.	Electric Power used during the year		328,160	Kwhrs

I. Mains	409 Hingham Annual report of Aquarion Water Company of Massachusetts Year ended December 31, 2013									
Maine	Aquarion water Company		RIBUTION INFO	RMATION	10	ear ended Dece	ember 31, 201			
Maine										
. Mains										
				L	ENGTHS IN FEE	Т				
			In Use at							
Nominal	Kind of Pipe	Weight	Beginning of	Taken Up	Abandoned But		In Use at			
Diameter, Inches		Per Foot	Year	Since	Not Taken Up	Laid Since	Close of Yea			
24"	Ductile		10,285				10,28			
24 20"	Lock Joint		13,909				13,90			
20"	Cast Iron		26,935				26,93			
20"	Cast Iron Cement Lined		277				20,00			
20"	Ductile		10,271				10,27			
16"	Lock Joint		112				11			
16"	Cast Iron		5,531				5,53			
16"	Cast Iron Cement Lined		104				10			
16"	Ductile		3,767				3,76			
14"	Cast Iron		5,936				5,93			
14" 12"	Ductile Cast Iron		110 51,372				11 51,37			
12"	Cast Iron Cast Iron Cement Lined		51,372 29,648				29,64			
12"	Ductile		46,734				46,73			
12"	Transite		12,602				12,60			
10"	Cast Iron		11,459				11,45			
8"	Cast Iron		40,531	12			40,51			
8"	Cast Iron Cement Lined		114,469				114,46			
8"	Ductile		174,155				174,15			
8"	Transite		45,381	26	710	758	45,40			
8"	Steel		70				7			
6"	Cast Iron		117,279				117,27			
6"	Cast Iron Cement Lined		74,764				74,76			
6"	Ductile		12,074			731	12,80			
6" 4"	Transite Cast Iron		89,967				89,96			
4 4"	Cast Iron Cement Lined		31,508 77				31,508 7			
4"	Ductile		12,247				12,24			
4"	Galvanized		256				25			
4"	Plastic		500				50			
3"	Cast Iron		1,323				1,32			
3"	Galvanized		82				8			
3"	Plastic		525				52			
2 1/4"	Cast Iron Cement Lined		38,213		618		37,59			
2"	Steel		400				40			
2"	Galvanized		20,593	10			20,58			
2"	Plastic		1,272			10	1,28			
1 1/2 "	Galvanized		2,449				2,44			
1 1/4"	Galvanized Plastic		802				80			
1" 1"	Copper		0 339				33			
1"	Galvanized		3,831				3,83			
3/4"	Galvanized		100				3,83			
3/4"	Copper		49				49			
		TOTALS	1,012,308	48	1,328	1,499	1,012,43			

409	Milbury						
Annual report of Aqu	arion Water Company				Y	ear ended Dec	ember 31, 2013
		DISTI	RIBUTION INFOR	RMATION			
1. Mains							
		1				T	
			In Use at	L	ENGTHS IN FEE	1	
Nominal	Kind of Pipe	Weight	Beginning of	Taken Up	Abandoned But		In Use at
Diameter, Inches		Per Foot	Year	Since	Not Taken Up	Laid Since	Close of Year
16	Cast Iron		6,575				6,575
12	C. I. & Ductile		39,123				39,123
10	Cast Iron		17,691		500		17,691
8	C.I. & Ductile		119,394		536	536	
6 4	C.I. & Ductile Cast Iron		66,760 1,323		31	31	66,760 1,323
4	Cast Iron		935				935
2 1/4	Cast Iron		12,751				12,751
2 1/4	Cast Iron		3,605				3,605
8	Transite		1,497				1,497
6	Transite		3,609				3,609
2	Plastic		835				835
_							
		TOTALS	274,098	0	567	567	274,098
2 Cost of renairs ne	er mile of pipe includin	a valves					
		ig valves					
3. Number of leaks i	n mains, during the ye	ar	11				
4. Number of leaks p	per mile		0.2119				
E I amouth a fam. 1			10.400		0.40		
5. Length of mains l	ess than 4 inches in d	lamater	18,126	miles	3.43		
1							

1 1 1 1	Oxford						1 01 000
nnual report of Aqua	rion Water Comp		usetts TRIBUTION INFORM		Yea	ar ended Dece	mber 31, 201
		DIG		ATION			
. Mains							
				L	ENGTHS IN FEE	Г	
Nominal Diameter, Inches	Kind of Pipe	Weight Per Foot	In Use at Beginning of Year	Taken Up Since	Abandoned But Not Taken Up	Laid Since	In Use at Close of Ye
12 10 8 6 3 21/4 2 8 6 4 2	C.I. & Ductile C.I. & Ductile C.I. & Ductile C.I. & Ductile C.I. & Ductile C.I. & Ductile C.I. & Ductile Transite Transite Ductile Plastic		29,090 1,643 84,075 55,453 200 3,665 11,413 6,267 22,506 354 31	8		20	29,09 1,64 84,07 55,47 20 3,66 11,41 6,25 22,55 35 3
		TOTALS	214,697	8	0	20	214,70
. Cost of repairs per	mile of pipe inclu	iding valves					
. Number of leaks in	mains, during the	e year	3				
. Number of leaks pe	r mile		0.0738				
. Length of mains les	s than 4 inches i	n diamater	15,309	miles	2.90		

410 Annual report of Aqu	Hingham Jarion Water Compar		FION INFORMATION		fear ended December 31, 20
		DISTRIBU	TION INFORMATION		
. Water towers or s	tand pipes				
				Land	
	Location		Area	When Bought	Cost
A B C	Turkey Hill Accord Tank (Accord Tank on land adjacent to Accord Por		23 d - included there	1963	\$4,766
		Capacity in Gallons		When Bought	Cost
A B C		2,000,000 750,000		1963 1967	\$103,921 \$145,359
		2,750,000			
7. Services					
Nominal Diameter Inches	Kind of Pipe	Number Installed and in Use at Beginning of Year	Taken Up Since	Laid Since	Installed and in Use at Close of Year
3/4" - 10" Installed since 1987 3/4" 3/4"	Copper-WI-Steel Plastic Galv Plastic Copper	0 10,353 0 0 0 259 259	23	10	0 10,330 0 0 269 4 612
1" 1" 2" 4" 6" 8" 12"	Plastic Copper Plastic DICL DICL DICL DICL	1,013 752 227 128 77 44 1	19	49 6 8 33 32 1	1,013 801 233 117 110 76 2
	TOTALS	12,854	42	139	12,951
3. Average length of	service pipe	-	25_f	eet	
 Average cost of se 	ervice laid during the y	ear	\$ 3,256		
 Percentage of ser 	vices that are metered	- t	All except for fire serv	vices	
1. Percentage in inc	come that is metered	-			
2. Leaks in service	during the year	-	21_		
		, in whole or in part and b		Vater company provides	
naterials for installation	on up to 2 inch in size	, customer provides all ot	her requirements to ir	nstall water service inclue	ding
materials over 2 inch	in size.				

410 Annua	al report of A	quarion Water Cor	npany of Massachusetts DISTRIBUTION		Year ende	d December 31, 201
6. Wat	er towers or	stand pipes	Millbury			
					Land	
	Location			Area	When Bought	Cost
A B C D	Burbank Hill			3.00 Acres	1895	
	Inside Diame	eter	Capacity in Gallons		When Bought	Cost
A B C D	130'		1,500,000		1895	\$25,802
7. Sei	vices					
	al ter Inches	Kind of Pipe	Number Installed and in Use at Beginning of Year	Taken Up Since	Laid Since	Installed and in Use at Close of Year
12 10 8 6 4 2 1/4 2 1/4 1/2 3/4 1 1 2 2		Cast Iron Ductile Cast Iron Ductile Cast Iron Ductile Cast Iron Ductile Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Copper Plastic Copper Plastic Cement Lined Plastic Copper	0 1 16 38 5 2 7 25 4 0 1,365 612 380 504 489 33 2	1 4 11 3 4	1 1 6 35 49 129 16	1,44 60 30 51
		TOTALS	3,483	23	237	3,69
		services in the Towr	n of Auburn that are includ	led in the above totals 27 feet		
9. Ave	erage cost of	service laid during t	he year	\$ 5,061		
0. Pe	rcentage of s	ervices that are me	tered	all except fire service		
1. Pe	ercentage in i	ncome that is meter	ed			
2. Le	eaks in servic	e during the year	-	4_		
			imer, in whole or in part a		Water company pro	
nateri	als for installa	ation up to 2 inch in	size, customer provides a	all other requirements to	o install water servi	ce including

410		Oxford				
Annua	al report of	Aquarion Water	Company of Massach DISTF	IUSETTS	Yea	r ended December 31, 2013
6. Wa	ter towers	or stand pipes				
					Land	
		Location		Area	When Bought	Cost
A B	N. Main S	t., Oxford , MA		1 Acre 13.4 Acres	1905 1944	\$319 \$438
C D				13.4 ACIES	1944	OC++Φ
	Inside Dia	meter	Capacity in Gallons		When Bought	
A B C D	27		215,000		1905	
7. Sei	rvices					
	al ter Inches	Kind of Pipe	Number Installed and in Use at Beginning of Year	Taken Up Since	Laid Since	Installed and in Use at Close of Year
12 8		Cast Iron Ductile Cast Iron Ductile	0 8	0 4	1	1 4
6 2 1/4		Cast Iron Ductile Cast Iron	12 12		16	28 12
2 1 1/2		Galv Iron Copper	0	2		0
1 1/4 1		Copper Copper	1 226	1	10	0 236
3/4 2		Copper Cast Iron	1,502 5	4		1,498 5
4 3/4		Cast Iron Ductile Plastic	2 495	246	4	6 249
1		Plastic	553	246 3	2	552
2 1		Plastic Galv Iron	27 18			27 18
		TOTALO	0.000	200	22	2.020
		TOTALS	2,863	260	33	2,636
8. Ave	erage lengt	h of service pipe		27 feet		
9. Ave	erage cost	of service laid duri	ng the year	\$ 2,183		
10. Pe	ercentage o	f services that are	metered	all except fire service		
11. Pe	ercentage i	n income that is m	etered			
12. Le	eaks in serv	vice during the yea	r .	9		
13. Aı	re service p	pipes paid for by co	nsumer, in whole or in	part and by what extent?	Water company	y provides
labor r	naterials fo	r installation up to	2 inch in size, custome	r provides all other requirem	nents to install water s	service including
materi	als over 2 i	nch in size.				

		any of Massachuse			ded December 31, 201
. Gates and val					
Nomial Diameter	Kind of Valves	Number in Use at Beginning of Year	Removed Since	Installed Since	Number in Use at Close of Year
24	Butterfly Valves	17			
20	Butterfly Valves	18			
16	Butterfly Valves	8			
14	Butterfly Valves	5			
12	Butterfly Valves	19			
12	Check Valve	1			
20	Gate Valves	11			
16	Gate Valves	11			
14	Gate Valves	16			
12	Gate Valves	306			з
10	Gate Valves	32			
8	Gate Valves	917		3	g
6	Gate Valves	815	1	1	8
4	Gate Valves	209			2
3	Gate Valves	1			
2 1/4 - 2 1/2	Gate Valves	86			
2	Gate Valves	200	1	1	2
1 1/2	Gate Valves	9			
1 1/4	Gate Valves	17			
1	Gate Valves	271			2
3/4	Gate Valves	81			
	Totals	3,050	2	5	3,0

nnual report of A	Millbury quarion Water Com	pany of Massachuset	ts	Year ende	ed December 31, 20 ⁻
		DISTRIBUTION INFO			
4. Gates and valv	es	1 1			
Nomial Diameter		Number in Use at			Number in Use at
Inches	Kind of Valves	Beginning of Year	Removed Since	Installed Since	Close of Year
monoo		Doginning of Four		iniciality childe	0.000 01 104
16	Gate Valve	7			
12	Gate Valve	74			
12	Gate valve	71			
10	Gate Valve	25			
8	Gate Valve	243		4	2
6	Gate Valve	345	3	1	3
0	Cale valve	040	5	'	
4	Gate Valve	3			
3	Gate Valve	6			
2 1/4	Gate Valve	31			
2	Gate Valve	25			
3/4	Gate Valve	2			
5/7		2			
			-	-	
	Totals	758	3	5	7

The above list should include all valves that are installed in the mains, whether they are gate valves, blow offs, check valves or otherwise.

	iqualion mater oo	mpany of Massachu	NFORMATION - Co		ar ended December 31, 20
		DioTrabornoitri		, initiated	
4. Gates and val	ves	1			
Nomial Diameter Inches	Kind of Valves	Number in Use at Beginning of Year	Removed Since	Installed Since	Number in Use at Close of Year
12	Gate Valve	57			
10	Gate Valve	2			
8	Gate Valve	184			1
6	Gate Valve	294		1	2
2 1/2	Gate Valve	18			
2	Gate Valve	11			
1 1/4	Gate Valve	2			
1	Gate Valve	8			
4	Gate Valve	1			
	Totals	577	0	1	5

	Hingham				
Annual report of A		Company of Massach			ecember 31, 2013
		DISTRIBUTION	INFORMATION - Continue	ed	
15. HYDRANTS.PU	BLIC				
Nominal Diameter Inches	Hose Outlets	Number in Use at Beginning of Year	Removed Since	Installed Since	Number in Use at Close of Year
4 1/2		0			0
4 1/4		0			C
5		491			491
5 1/4		413	3	1	411
	TOTALS	904	3	1	902
		nt were they purchas		Customer/Town Purcha Town Owned	
18. HYDRANTS.PR	IVATE				
Nominal Diameter Inches	Hose Outlets	Number in Use at Beginning of Year	Removed Since	Installed Since	Number in Use at Close of Year
5		3			3
4 1/2		0			C
4 1/4		6			6
5		34			34
5 1/4		241		5	246
Metered		122			122
		400	0	-	
	TOTALS	406	0	5	411
19. Were all of the			talled at the expense of th		411 NO

412	Millbury				
Annual report of A	Aquarion Water Cor				ecember 31, 2013
		DISTRIBUTION IN	FORMATION - Contin	nued	
5. HYDRANTS.P	UBLIC				
Nominal Diameter Inches	Hose Outlets	Number in Use at Beginning of Year	Removed Since	Installed Since	Number in Use at Close of Year
4 1/2	2 - 2 1/2	28			28
5	2 - 2 1/2, 1- 4	1			
5 1/4	2 - 2 1/2, 1- 4	53	1	3	55
4 1/4	2 - 2 1/2, 1- 4	65			6
4 1/2	2 - 2 1/2, 1- 4	61			6
4 3/4	2 - 2 1/2, 1- 4	8			٤
4 1/4	2 - 2 1/2, 1- 4	1	Hydrant is located in t	own of Auburn	1
	TOTALS	217	1	3	219
18. HYDRANTS.P	RIVATE				
Nominal Diameter Inches	Hose Outlets	Number in Use at Beginning of Year	Removed Since	Installed Since	Number in Use a Close of Year
4	2 - 2 1/2	28			28
4 1/2	2 - 2 1/2, 1- 4	13			1:
4 1/4	2 - 2 1/2, 1- 4	5			:
5 1/4	2 - 2 1/2, 1- 4	56	2		5
	TOTALS	102	2	0	100
19. Were all of th	e above hydrants p	urchases and insta	alled at the expense of	of the company?	NO
20. If not, under v	vhat arrangement v	vere they purchase	s and installed?	Customer Purchased	
•	-				

112	Oxford				
Annual report of A	quarion Water Comp				ended December 31, 2013
		DISTRIBUTION IN	FORMATION - Con	tinued	
5. HYDRANTS.PU	BLIC				
Nominal Diameter Inches	Hose Outlets	Number in Use at Beginning of Year	Removed Since	Installed Since	Number in Use at Close of Year
4	2 - 2 1/2	29			29
4	3 - 2 1/2	0			C
4 1/4	2 - 2 1/2, 1- 4	3			:
4 1/2	2 - 2 1/2, 1- 4	76	2		74
5	2 - 2 1/2, 1- 4	5			ţ
4	2 - 2 1/2, 1- 4	1			
5 1/4	2 - 2 1/2, 1- 4	69		2	7'
8. HYDRANTS.PR	IVATE				
Nominal Diameter Inches	Hose Outlets	Number in Use at Beginning of Year	Removed Since	Installed Since	Number in Use at Close of Year
4	2 - 2 1/2, 1- 4	13			13
5 1/4	2 - 2 1/2, 1- 4	0			(
	TOTALS	13	0	0	1;
	TOTALS	13	0	0	1.
9. Were all of the	above hydrants pur	chases and installed	I at the expense of t	the company?	NO
	above hydrants pur hat arrangement we		-	the company?	NO

nnual report of Aq	uarion Water Comp				Year ended De	ecember 31, 2013
		DISTRIBUTIO	N INFORMATION	- Continued		
1. Meters owned I	by Company					
		eginning of Year		Condemned Since		at Close of Year
Size inches	In Use	On Hand	Bought Since	and Removed	In Use	On Hand
1/2						
5/8	11,790	91	1,200	943	11,880	25
3/4	19	49	0	2	17	4
1	361	15	21	20	362	1
1 1/2	76	0	15	8	78	:
2	154	20	16	17	155	18
3	0	2	0		0	:
4	3	0	0		3	
6	3	0	0	0	3	(
8	4	0	0	0	4	
Totals	12,410	177	1,252	990	12,502	34
2. Has the plant be	en deblied with the h	inst cost of installing i	the meters in use a	t close of year, above s	Yes	
If so, was the co	st the actual cost or	some assumed or av	verage cost?	Actual		
4. Are any of these	meters paid for by c	onsumers, and to wh	nat extent?	None		

413 N	lillbury					
Annual report of Ac	uarion Water Com	pany of Massachuse			Year ended Deo	ember 31, 2013
		DISTRIBUTION IN	FORMATION -	Continued		
21. Meters owned I	by Company					
En. meters owned	oy company					
	Number a	at Beginning of Year		Condemned Since	Numbe	r at Close of Yea
Size inches	In Use	On Hand	Bought Since	and Removed	In Use	On Hand
1/0						
1/2						
5/8	3,406	91	417	411	3,424	7
	,				,	
3/4	1	0	0	0	1	
1	55	2	20	16	56	
'		۷	20	10	50	
1 1/2	17	5	6	1	17	1
2	46	9	12	10	46	1
3	1	0	0	0	1	(
Ũ		0	0	Ŭ		
4	4	0	0	0	4	(
5						
5						
8						
Totals	3,530	107	455	438	3,549	10
2 Has the plant be	en dehited with the	first cost of installing th	he meters in use	at close of year abo	we stated?	Yes
					vo olalou.	100
23. If so, was the co	st the actual cost or	r some assumed or ave	erage cost?	Actual		
	maters said for bu		at automt?	Nana		
24. Are any of these	meters paid for by	consumers, and to wh	at extent?	None		
Company owned me	ters at pump statior	IS:				
		-8" Honeywell Flow				
	1 Jacques 1-8" Ch 2 Jacques 1-8" Ch					
		p water - 1-Oak Pond,	1-#1 Jacques, 1	-#2 Jacques, 2-Millbu	ury Ave. Filter Pl	ant
Ν	1illbury Ave 5-6" F	Primary Flow Signal Flo	w Meters			
N	1illbury Ave 3-8" F	Primary Flow Signal Flo	w Meters			

nnual report of A	Aquarion Water C	Company of Massac			ear ended Dece	ember 31, 20
		Diotraboritoria		oontinded		
. Meters owned	I by Company					
	Number	at Beginning of Year		Condemned Since	Number at C	ose of Vear
Size inches	In Use	On Hand	Bought Since	and Removed	In Use	On Hand
1/2						
5/8	2,510	25	231	225	2,515	25
3/4	0	0	0	0	0	0
1	54	0	5	2	57	0
1 1/2	8	0	1	0	9	0
2	16	0	0	0	16	0
3	0	0	0	0	0	0
4	0	0	0	0	0	0
6	3	0	0	0	3	0
8	0	0	0	0	0	0
Totals	2,591	25	237	227	2,600	25
. Has the plant b	een debited with	the first cost of installi	ing the meters ir	use at close of year,	above stated?	Yes
. If so, was the c	cost the actual cos	st or some assumed o	or average cost?	-	Actual	-
Are any of thes	e meters paid for	by consumers, and to	o what extent?	-	None	-
ompany owned m	N Main St. & #1A					
	N. Main St. #1 1					
	N. Main St. #2 1 Nelson St. #3 1-					
	2-1" Meter for ma					
	#1N. Main St.					
	#3 Nelson St.					

414		Hingham										
Annual report	of Aquarion Water Con	npany of Mass	achusetts									
				Distributi	ion Informat	tion - Concl	uded					
25. Meters ow	ned by Company as of	December 31,	2013									
						5	Size (inches)				
Maker	Туре	1/2	5/8	3/4	1	1 1/2	2	3	4	6	8	Total
Hersey	Turbine									2		2
Neptune	Disc Pin		12,138	66	377	83	173					12,837
Neptune	Turbine							2	3	1	4	10
Totals		0	12,138	66	377	83	173	2	3	3	4	12,849

414		Millbury										
Annual rep	ort of Aquarion V	Vater Company	y of Massachu	setts								
					Distribution I	nformation	- Concluded	d				
25. Meters	owned by Comp	any as of Dece	ember 31, 2013	3								
							Size					
	-							•				1
	_						-			_		
Maker	Туре	1/2	5/8	3/4	1	1 1/2	2	3	4	6	8	Total
Neptune	Disc		3,436	1	61	27	57	1				3,583
Badger	Disc		55		0	0						55
Neptune	Turbine								4			4
Kent	Disc		12									12
Rockwell	Disc											
Totals		0	3,503	1	61	27	57	1	4	0	0	3,654

414		Oxford										
Annual re	port of Aqua	rion Water C	Company of	Massachus	setts							
				0	istribution	Information	- Conclude	d				
25. Meter	s owned by (Company as	of Decembe	er 31, 2013								
				·								
		Size										
	-								-			
	_											
Maker	Туре	1/2	5/8	3/4	1	1 1/2	2	3	4	6	8	Total
Neptune	Disc		2,520	0	54	8	14					2,59
Badger	Disc		15		3		2					20
Neptune	Fullcrest									2		
Rockwell	Disc					1						
Kent	Disc		5									Ę
Neptune	Protectus									1		
Totals		0	2,540	0	57	9	16	0	0	3	0	2,62

Annual report of Aquarion Water Company of Ma			ar ended December 31, 201	
CO	NSUMPTION INFORMA	TION		
1. Estimated total population of territory covered	d by franchise	Permanent 32,396	Seasonal 46,982	
2. Estimated population reached by the distribution system,		32,396	46,982	
3. Estimated population actually supplied,		32,396	46,982	
4. Total consumption during the year (1)		1,220,596,275 gallons		
5. Average daily consumption (2)		3,344,099	gallons	
6. Day on which greatest amount was pumped		15-Jul-13	15-Jul-13_	
7. Gallons pumped on above day		5,261,000 gallons		
8. Week during which greatest amount was pumped		7/19/12-7/25/13		
9. Gallons pumped during above week		32,525,000 gallons		
10. Gallons per day per service (3)		202 gallons		
11. Consumption metered		921,568,000 gallons		
12. Consumption metered		75.5% Per cent of total consumption		
13.	Customers			
Number being Supplied at Beginning of Year	Disconnected Since	Connected Since	Number being Supplied at Close of Year	
12,848	0	106	12,954	
Name of City, Town or District			as of December 31, 2013	
Hingham			8,033	
Hull			4,594	
Cohasset			327	

Represents Total Water Production During the Year including purchased water
 Represents Average Daily Production
 Represents Metered Consumption per day per Customer, excluding Fire services.

415 Millbury				
Annual report of Massachusetts American Wate			Year ended December 31, 2013	
C	ONSUMPTION INFORM	IATION		
1. Estimated total population of territory covere	d by franchise,	13,261		
	•			
2. Estimated population reached by the distribution	ition system,	8,505		
3. Estimated population actually supplied,		8,505		
4. Total consumption during the year (1)		571,232,000	gallons	
5. Average daily consumption (2)		1,565,019	gallons	
6. Day on which greatest amount was pumped		21-Jul-13		
7. Gallons pumped on above day		2,456,000	gallons	
8. Week during which greatest amount was pur	nped	w/e: July 21, 2013		
9. Gallons pumped during above week		14,087,000	gallons	
10. Gallons per day per service (3)		392 gallons		
11. Consumption metered		508,054,000	gallons	
12. Consumption metered		88.94%	Per cent of total consumption	
13.	Customers			
Number being Supplied at	Discourse in 101	Operate 10	Number being Supplied at	
Beginning of Year	Disconnected Since	Connected Since	Close of Year	
2,669		30	2 600	
3,668				
Name of City, Town or District		Number of Customers	as of December 31, 2013	
			0.000	
Millbury			3,698	

Represents Total Water Production During the Year
 Represents Average Daily Production
 Represents Metered Consumption per day per Customer, excluding Fire Services.

Annual report of Massachusetts American Water Com			Year ended December 31, 2013		
CONS	SUMPTION INFORMAT	ION			
1. Estimated total population of territory covered by franchise,		12,506			
2. Estimated population reached by the distribution system,		6,223			
3. Estimated population actually supplied,		6,223			
4. Total consumption during the year (1)		241,249,000	241,249,000 gallons		
5. Average daily consumption (2)		660,956	660,956 gallons		
6. Day on which greatest amount was pumped		1-Jun-13			
7. Gallons pumped on above day		1,106,000 gallons			
8. Week during which greatest amount was pumped		w/e: July 21,2013			
9. Gallons pumped during above week		6,488,000 gallons			
10. Gallons per day per service (3)		gallons			
11. Consumption metered		183,173,000 gallons			
12. Consumption metered		75.93%	Per cent of total consumption		
13.	Customers				
Number being Supplied at Beginning of Year	Disconnected Since	Connected Since	Number being Supplied at Close of Year		
2,625		12	2,63		
Name of City, Town or District		Number of Customers as of December 31,2013			
Oxford			2,63		

Represents Total Water Production During the Year
 Represents Average Daily Production
 Represents Metered Consumption per day per Customer, excluding Fire Services.

416	
Annual report of Aquarion Water Company of Massachusetts	Year ended December 31, 2013
CONSUMPTION INFORMATION - Concluded	
By Meter <u>SEE ATTACHED RATE TARIFF SHEETS DATED MAY 14, 2013</u>	
Per faucet, per year	
Per hose connection, per year,	
Per bath tub, per year,	
Per shower bath, per year,	
Per foot tub, per year,	
Per wash tub, per year,	
Per urinal, per year,	
Per water closet, per year,	
Per sink, per year,	
Per bowl, per year	
Per private hydrant, per year,	
For sprinkler systems,	
For water motors,	
Per drinking fountain, per year,	
Per public hydrant, per year,	
For watering troughs,	
Minimum charge,	
Give any contact rates that are in force and state what discounts are allowed for prompt p what fines are charged for delayed payment	-
Are payments required in advance?	
When are meters read and bills rendered?	

RATE FOR METERED SERVICE – SERVICE AREA A

AVAILABILITY

This rate is available to customers located in the following towns on the mains of the Company within the Company's franchise area, for all purposes except fire protection, subject to the Rules and Regulations of the Company: Cohasset (North Cohasset), Hingham, Hull and Norwell.

WATER CHARGE

A water charge will be made for all water used as registered by the meter, as set forth below:

Rate Per Hundred Cubic Feet (CCF)

RATE R1 - Applies to all metered residential usage by customers classified as such on the Company's	records.
First 12 CCF per Quarter/ 4 CCF per Month	\$2.874
Over 12 CCF per Quarter/ 4 CCF per Month	\$3.915

<u>RATE G1</u> - Applies to all metered commercial usage by customers classified as such on the Company's records, which do not qualify for Rate G4.

First 12 CCF per Quarter/ 4 CCF per Month	\$2.107
Over 12 CCF per Quarter/ 4 CCF per Month	\$2.638

<u>RATE G2</u> - Applies to all metered public authority usage by customers classified as such on the Company's records, which do not qualify for Rate G4.

First 12 CCF per Quarter / 4 CCF per Month	\$2.107
Over 12 CCF per Quarter/ 4 CCF per Month	\$2.496

<u>RATE G3</u> - Applies to all metered industrial usage by customers classified as such on the Company's records, which do not qualify for Rate G4. All Usage \$2.239

<u>RATE G4</u> - Applies to the total monthly usage by qualifying non-residential customers, classified as such on the Company's records, as per the following criteria: All Usage \$1.572

Monthly billed amounts:	not less than 10,000,000 gallons, and not more than 40,000,000 gallons
Past 12 months total billed amount	not less than 120,000,000 gallons.

Usage which does not meet these criteria shall be charged at the appropriate G1, G2 or G3 Rate.

SERVICE CHARGE

In addition, all metered general water service customers shall pay a service charge on the size of each meter installed. Customers with multiple meters shall be charged for each meter at the indicated rate.

Size of Meter	Service Charge			
	Per	Month	Per Q	<u>uarter</u>
5/8"	\$	15.61	\$	46.83
3/4"	\$	23.73	\$	71.19
1"	\$	38.09	\$	114.27
1 1/2"	\$	74.31	\$	222.93
2"	\$	117.71	\$	353.13
3"	\$	219.19	\$	657.57
4"	\$	363.27	\$	1,089.81
6"	\$	725.15	\$	2,175.45
8"	\$	1,159.77	\$	3,479.31

TERMS OF PAYMENT

The Company may render bills on either a quarterly or monthly basis. The above rates are payable within forty-five (45) days of the date of the bill.

Issued: April 1,2012 Donald J. Morrissey

Effective: April 1, 2012

RATE FOR METERED SERVICE – SERVICE AREA B

AVAILABILITY

This rate is available to customers located in the following towns on the mains of the Company within the Company's franchise area, for all purposes except fire protection, subject to the Rules and Regulations of the Company: Millbury, Oxford.

WATER CHARGE

A water charge will be made for all water used as registered by the meter, as set forth below:

<u>Rate Per</u> Thousand Gallons(KGAL):

RATE R1 - Applies to all metered residential usage by customers classified as such on the Company's r	ecords.
First 9 KGAL per Quarter/ 3 KGAL per Month	\$3.841
Over 9 KGAL per Quarter/ 3 KGAL per Month	\$5.233

<u>RATE G1 -</u> Applies to all metered commercial usage by customers classified as such on the Company's records, which do not qualify for Rate G4.

First 9 KGAL per Quarter/ 3 KGAL per Month\$2.815Over 9 KGAL per Quarter/ 3 KGAL per Month\$3.528

<u>RATE G2-</u> Applies to all metered public authority usage by customers classified as such on the Company's records, which do not qualify for Rate G4.

First 9 KGAL per Quarter/ 3 KGAL per Month \$2.815 Over 9 KGAL per Quarter/ 3 KGAL per Month \$3.337

RATE G3- Applies to all metered industrial usage by customers classified as such on the Company's records, which do not qualify for Rate G4. All Usage \$2.992

RATE G4- Applies to the total monthly usage by qualifying non-residential customers, classified as such on the
Company's records, as per the following criteria:All Usage\$2.102

Monthly billed amounts:	not less than 10,000,000 gallons, and not more than 40,000,000 gallons
Past 12 months total billed amount	not less than 120,000,000 gallons.

Usage which does not meet these criteria shall be charged at the G1, G2 or G3 Rate.

SERVICE CHARGE

In addition, all metered general water service customers shall pay a service charge on the size of each meter installed. Customers with multiple meters shall be charged for each meter at the indicated rate.

Size of Meter		Service Cha	arge	
	Per Month		Per Quarter	
5/8"	\$	15.61	\$	46.83
3/4"	\$	23.73	\$	71.19
1"	\$	38.09	\$	114.27
1 1/2"	\$	74.31	\$	222.93
2"	\$	117.71	\$	353.13
3"	\$	219.19	\$	657.57
4"	\$	363.27	\$	1,089.81
6"	\$	725.15	\$	2,175.45
8"	\$	1,159.77	\$	3,479.31

TERMS OF PAYMENT

The Company may render bills on either a quarterly or monthly basis. The above rates are payable within forty-five (45) days of the date of the bill.

Issue	d: April 1,2012			
By:	Denald	quin		
	Donald J. Mo	orrissey	0	

Effective: April 1,2012

RATE FOR PRIVATE FIRE PROTECTION

AVAILABILITY

This rate is available to customers located on the mains of the Company within the Company's franchise area for Private Fire Protection, subject to the Rules and Regulations of the Company.

<u>RATE</u>

	<u>Per Year</u>
For each service connection 4" or smaller	\$ 513.47
For each service connection 6"	\$ 1,077.88
For each service connection 8"	\$ 1,868.07
For each service connection 10"	\$ 2,884.02
For each service connection 12"	\$ 4,125.73
Ean analy ministrally around fine hydront comvine Cohosset Hingham, Hull Millhum, and Orford	¢ 725.20

For each privately owned fire hydrant serving Cohasset, Hingham, Hull, Millbury and Oxford\$ 735.39For each privately owned fire hydrant outside Cohasset, Hingham, Hull, Millbury and Oxford\$ 924.04

TERMS OF PAYMENT

Bills shall be rendered and due monthly or quarterly in advance. The above rates are net and are payable within forty-five (45) days of the date of the bill. The Company reserves the right to disconnect the service of any customers not having their account paid in full within forty-five (45) days of the date of the bill.

SPECIAL PROVISIONS

(a) All water shall be used for fire protection purposes only.

(b) The Company reserves the right, if water is used in violation of (a) above, to install a meter on the connection at any time which will meet the requirements of the fire insurance companies. In the event a meter is installed, the established meter rates, including both water and service charges, will apply in lieu of the above rates for Private Fire Protection.

Issued: April 1,2012

y Denals quin

Effective: April 1,2012

RATE FOR PUBLIC FIRE PROTECTION

<u>AVAILABILITY</u> This rate is available for Public Fire Protection only, and is subject to the Rules and Regulations of the Company.

RATES

For each Company owned public fire hydrant		221.77
In addition, annual charges as follows:		
Town of Hingham	\$ 35	4,424.00
Town of Hull	\$ 20	3,951.00
Town of Cohasset	\$ 1	6,788.00
Town of Millbury	\$ 14	3,013.00
Town of Oxford	\$9	9,487.00

TERMS OF PAYMENT

Bills shall be rendered and due monthly or quarterly in arrears. The above rates are payable within forty-five (45) days of the date of the bill.

Issued: April	1,2012
---------------	--------

By: Denals gum

Effective: April 1,2012

SALE FOR RESALE

<u>AVAILABILITY</u> This rate is available to municipalities, or political subdivisions thereof, for resale to customers resident in territory contiguous to that served by the Company.

RATE

For all water taken, subject to the minimum charge as provided below:

\$ 2.00 per 1,000 gallons

MINIMUM CHARGE

A variable minimum charge will apply based on the minimum monthly delivery occurring over the preceding 12 months, but not less than 100,000 gallons per month, times the currently allowed rate per 1,000 gallons.

given a minimum monthly billing of 500,000 gallons, the minimum charge Example: Would be $2.00 \times 500 = 1,000$ per month.

TERMS OF PAYMENT

The Company may render bills on either a quarterly or monthly basis. The above rates are payable within forty-five (45) days of the date of the bill.

Issued: April 1,2012 qui es By:

Effective: April 1,2012

MISCELLANEOUS CHARGES

Drought Conditions	
Termination and Restoration Fee – Business Hours*	\$ 49.00
Termination and Restoration Fee – After Hours	\$ 294.00

*Normal business hours are Monday through Friday, 8 am to 4 pm.

System Development Charge ("SDC")

Meter	Capacity	Ratio to 5/8"	Fee
Size**	GPM	Meter	
5/8"	20	1.00	\$640
3/4"	30	1.50	\$960
1"	50	2.50	\$1,600
1 1⁄2"	100	5.00	\$3,200
2"	160	8.00	\$5,120
3"	320	16.00	\$10,240
4"	500	25.00	\$16,000

*SDC is determined on a case by case basis for meter sizes greater than 4".

Issued: April 1,2012 By: Durals Jum

Effective: April 1,2012

OTHER SERVICES

<u>AVAILABILITY</u> This rate is available to all classes of customers located on the mains of the Company Subject to the Rules and Regulations of the Company.

Frozen Meters	Actual C	Cost of Meter
Meter Test Fees 1" and less	\$	50.00
Larger than 1"	\$	75.00
Return Check Fee	\$	20.00
Seasonal Meter Set & Turn On Fee	\$	49.00
Seasonal Meter Removal Fee & Turn Off Fee	\$	49.00
Turn-on Fee – Business Hours		49.00
After Hours Callout	\$	294.00
Non-Payment Reconnect – Business Hours	\$	49.00
Non-Payment Reconnect – After Hours	\$	294.00
Theft of Service	\$	1,000.00
(or triple the amount of damages which ever is greater)		
Cross Connection – One Device Testing	\$	75.00
Each Additional	\$	35.00

TERMS OF PAYMENT

The Company may render bills on either a quarterly or monthly basis. The above rates are payable within forty-five (45) days of the date of the bill.

Issued: April 1,2012 qui 1 and By:

Effective: April 1,2012

The following surcharges are applicable to all metered customers located in the following towns on the mains of the Company within the Company's franchise area: Cohasset, (North Cohasset), Hingham, Hull and Norwell.

SURCHARGE

Service Charge			
Per Month	Per Quarter		
10.25	\$30.75		
\$15.59	\$46.77		
\$25.01	\$75.03		
\$48.79	\$146.37		
\$77.28	\$231.84		
\$143.91	\$431.73		
\$238.52	\$715.56		
\$476.11	\$1,428.33		
\$761.47	\$2,284.41		
Consumption Charge per 100 cubic feet for Water Treatment Facility Lease			
	Per Month 10.25 \$15.59 \$25.01 \$48.79 \$77.28 \$143.91 \$238.52 \$476.11 \$761.47	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	

Consumption Charge per 100 cubic feet for Water Treatment Operation and Maintenance \$1.0119

TERMS OF PAYMENT

The Company may render bills on either a quarterly or monthly basis. The above rates are payable within forty-five (45) days of the date of the bills.

Issued: October 22, 2012 2 mm 1 By:

Effective: November 1, 2012

Title: ____Vice President, Treasurer_____

PURCHASED WATER SURCHARGE

AVAILABILITY

All metered general water service customers falling under the G4 rate designation receiving water service from the Millbury system, the City of Worcester interconnection or a combination of both sources. G4 customers will be billed at the customary G4 rate under the Company's approved tariff schedule for water service received from the Millbury system based on readings of the Millbury system meter.

SURCHARGE AMOUNT

In addition, any G4 customer who receives water supplied from the City of Worcester interconnection will be billed an amount equal to the difference in the cost of water purchased from the City of Worcester and the volumetric rate paid by a G4 customer as per the Company's tariff.

To the extent that multiple customers qualify for the G4 rate, the cost of water service from the City of Worcester interconnection will be allocated among the qualifying customers based upon the respective water usage in the applicable billing period.

The surcharge for each forthcoming year will be calculated on December 1 based on the previous 12 months of applicable actual invoices from the City of Worcester. The surcharge will be charged to the customer in equal installments over the calendar year beginning with the January billing.

TERMS OF PAYMENT

The Company renders bills on a monthly basis. The above rates are payable within forty-five (45) days of the date of the bill.

Issued: April 1,2012 2m ruld

Effective: April 1,2012

Title: Vice President, Treasurer



The Commonwealth of Massachusetts

DEPARTMENT OF PUBLIC UTILITIES

D.P.U. 12-84

October 24, 2012

Petition of Aquarion Water Company of Massachusetts, Inc., for authorization and approval by the Department of Public Utilities to reduce its Water Treatment Plant Surcharge, pursuant to G.L. c. 164, § 94, and G.L. c. 165, § 2.

INTERLOCUTORY ORDER ON WATER TREATMENT PLANT SURCHARGE

APPEARANCE: Jon N. Bonsall, Esq. Keegan Werlin LLP 265 Franklin Street Boston, Massachusetts 02110-3113 FOR: AQUARION WATER COMPANY OF MASSACHUSETTS, INC. <u>Petitioner</u>

I. INTRODUCTION

On October 5, 2012, Aquarion Water Company of Massachusetts, Inc. ("Aquarion" or "Company") filed with the Department of Public Utilities ("Department") a petition, pursuant to G.L. c. 164, § 94, and G.L. c. 165, § 2, to reduce its water treatment plant surcharge effective October 1, 2012.¹ The Company's petition included a proposed tariff for effect October 1, 2012. On October 22, 2012, the Company submitted M.D.P.U. No. 2-A First Revised tariff for effect November 1, 2012. The Department docketed this matter as D.P.U. 12-84.

In its petition, the Company states that on October 1, 2012, it completed a refinancing of certain capital bonds that had supported the construction of the water treatment plant. As a result of this refinancing, Aquarion proposes to reduce its annual debt service on the water treatment plant by approximately \$926,000. This change in annual debt service results in a decrease in the water treatment facility surcharge currently billed to customers in Aquarion's service territories of Hingham, Hull, and Cohasset. If the proposed reduction is approved, customers served through a 5/8-inch meter using 62,500 gallons per year will experience a decrease of \$3.64 per month in the water treatment plant surcharge, or a decrease of 8.2 percent on their total bill (Prefiled testimony of Troy M. Dixon at exhs. TMD-1; TMD-2).

¹ The original water treatment plant surcharge was approved by the Department in <u>Massachusetts-American Water Company</u>, D.P.U. 95-118 (1996).

II. ANALYSIS AND FINDINGS

Based upon our review of Aquarion's filing, the Department has determined that further investigation is necessary. Nonetheless, the Department finds that Aquarion should be permitted to implement the Company's proposed decrease before the conclusion of the Department's investigation so that the Company's ratepayers may receive the benefit of an immediate reduction to the water treatment plant surcharge. <u>See Aquarion Water Company of Massachusetts, Inc.</u>, D.P.U. 08-27-B, at 18-21 (2010). Thus, the Company's proposed tariff is allowed.

III. ORDER

After review and consideration, it is

<u>ORDERED</u>: That the illustrative tariff M.D.P.U. No. 2-A First Revised filed by Aquarion Water Company of Massachusetts, Inc. for effect November 1, 2012 is ALLOWED; and it is

<u>FURTHER ORDERED</u>: That Aquarion Water Company of Massachusetts, Inc. shall comply with all other directives contained in this Order.

By Order of the Department,

/s/ Ann G. Berwick, Chair

/s/ Jolette A. Westbrook, Commissioner

/s/ David W. Cash, Commissioner



The Commonwealth of Massachusetts

DEPARTMENT OF PUBLIC UTILITIES

D.P.U. 12-84

October 24, 2012

Petition of Aquarion Water Company of Massachusetts, Inc., for authorization and approval by the Department of Public Utilities to reduce its Water Treatment Plant Surcharge, pursuant to G.L. c. 164, § 94, and G.L. c. 165, § 2.

INTERLOCUTORY ORDER ON WATER TREATMENT PLANT SURCHARGE

APPEARANCE: Jon N. Bonsall, Esq. Keegan Werlin LLP 265 Franklin Street Boston, Massachusetts 02110-3113 FOR: AQUARION WATER COMPANY OF MASSACHUSETTS, INC. <u>Petitioner</u>

I. INTRODUCTION

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III. ORDER

After review and consideration, it is

<u>ORDERED</u>: That the illustrative tariff M.D.P.U. No. 2-A First Revised filed by Aquarion Water Company of Massachusetts, Inc. for effect November 1, 2012 is ALLOWED; and it is

<u>FURTHER ORDERED</u>: That Aquarion Water Company of Massachusetts, Inc. shall comply with all other directives contained in this Order.

By Order of the Department,

/s/ Ann G. Berwick, Chair

/s/ Jolette A. Westbrook, Commissioner

/s/ David W. Cash, Commissioner



The Commonwealth of Massachusetts

DEPARTMENT OF PUBLIC UTILITIES

D.P.U. 12-84

May 14, 2013

Petition of Aquarion Water Company of Massachusetts, Inc., for authorization and approval by the Department of Public Utilities to reduce its water treatment plant surcharge, pursuant to G.L. c. 164, § 94, and G.L. c. 165, § 2.

APPEARANCE:	Jon N. Bonsall, Esq. Keegan Werlin LLP 265 Franklin Street Boston, Massachusetts 02110-3113 FOR: AQUARION WATER COMPANY OF MASSACHUSETTS, INC. <u>Petitioner</u>
	Martha Coakley, Attorney General Commonwealth of Massachusetts By: John J. Geary Ronald J. Ritchie Joseph W. Rogers Assistant Attorneys General Office of Ratepayer Advocacy One Ashburton Place Boston, Massachusetts 02108 <u>Intervenor</u>
	Kerry Ryan, Esq. Morrissey, Wilson & Zafiropoulos, LLP 35 Braintree Hill Office Park, Suite 404 Braintree, Massachusetts 02184 FOR: THE TOWN OF HINGHAM Intervenor

James Lampke, Esq. Town of Hull Law Department 115 North Street Hingham, Massachusetts 02043 FOR: THE TOWN OF HULL Intervenor Page ii

I. INTRODUCTION

On October 5, 2012, Aquarion Water Company of Massachusetts ("Aquarion" or "Company") filed with the Department of Public Utilities ("Department") a petition, pursuant to G.L. c. 164, § 94, and G.L. c. 165, § 2, to reduce its water treatment plant ("WTP") surcharge effective October 1, 2012.¹ The Company's petition included a proposed tariff for effect October 1, 2012. On October 22, 2012, the Company submitted M.D.P.U. No. 2-A First Revised tariff for effect November 1, 2012. The Department docketed this matter as D.P.U. 12-84.

On October 24, 2012, the Department issued an Interlocutory Order and allowed the Company's proposed M.D.P.U. No. 2-A First Revised tariff for effect November 1, 2012, subject to further investigation. The Department's Interlocutory Order stated that Aquarion should be permitted to implement the Company's proposed decrease before the conclusion of the Department's investigation so that the Company's ratepayers may receive the benefit of an immediate reduction to the WTP surcharge. <u>Aquarion Water Company of Massachusetts</u>, D.P.U. 12-84, Interlocutory Order (October 24, 2012).

On November 6, 2012, the Attorney General of the Commonwealth of Massachusetts ("Attorney General") filed a notice of intervention pursuant to G.L. c. 12, § 11E(a). On December 19, 2012, the Department granted intervenor status to the Towns of Hingham and Hull ("Hingham" and "Hull", together the "Towns").

¹ The original WTP surcharge was approved by the Department in <u>Massachusetts-American Water Company</u>, D.P.U. 95-118 (1996).

Pursuant to notice duly issued, the Department held a public hearing on December 19, 2012. On March 22, 2013, the Department held an evidentiary hearing. In support of its petition, the Company presented the testimony of Troy M. Dixon, the Company's director of rates and regulation. Aquarion submitted an initial brief on April 5, 2013. The Towns submitted a joint initial brief on April 8, 2013. The Company submitted its reply brief on

April 22, 2013, and the Towns did not submit a reply brief. The evidentiary record consists of 25 exhibits and responses to two record requests.

II. BACKGROUND

On April 29, 1993, Aquarion, then known as Massachusetts-American Water Company ("Mass-American"), entered into an Administrative Consent Order with the Massachusetts Department of Environmental Protection. Under the terms of the Administrative Consent Order, the Company was responsible for constructing the WTP. <u>Aquarion Water Company of</u> <u>Massachusetts</u>, D.T.E. 05-94-A at 2 (2007). The Company's then-parent, American Water Works Company ("AWW"), formed Massachusetts Capital Resources Company ("MassCapital") as a wholly owned special-purpose company to finance and construct the WTP using a project finance approach.² D.T.E. 05-94-A at 2. On July 1, 1995, MassCapital purchased the partially constructed WTP from the Company and obtained access to \$37.7 million in tax-exempt bonds through the Massachusetts Development Finance Agency

² Under a project finance approach, credit supporting the financing is based on revenues from an individual project, rather than through corporate or municipal credit. D.T.E. 05-94-A at 2; <u>Massachusetts-American Water Company</u>, D.P.U. 95-118, at 58 n.26 (1996).

("MDFA") to finance the construction. D.T.E. 05-94-A at 2; <u>Massachusetts-American Water</u> <u>Company</u>, D.P.U. 95-118, at 58-59 (1996). MassCapital entered into a ground lease with the Company and, in exchange, Mass-American entered into a 40.5-year operating lease for the WTP. D.P.U. 95-118 at 60.³

The WTP lease expense consists of the following elements: (1) a fixed basic rent component intended to cover debt service on the bonds; (2) a base percentage rent component intended to cover Aquarion Capital's equity investment; (3) a reduction for interest income earned on the debt service reserve fund required by the MDFA financing; (4) an adjustment factor set every five years to adjust for actual water production levels; (5) a working capital allowance; and (6) a gross-up factor for income taxes (Exhs. TMD at 4; TMD-4). The WTP lease expense, along with associated operating and maintenance expenses, are recovered through the WTP surcharge applicable to customers in the Company's Hingham district (i.e., Hingham, Hull, north Cohasset, and Norwell) (Exh. TMD-2). The WTP surcharge is designed to collect 67 percent of the WTP lease expense through a fixed charge that varies by meter size ("basic service charge rate") and 33 percent through a charge that varies by consumption ("volumetric rate") (Exh. TMD-2). See also D.T.E. 95-118, at 175.

³ In April 2002, Aquarion Company purchased Mass-American and MassCapital, along with other AWW affiliates in Connecticut, New Hampshire, and New York. Thereafter, Mass-American's name was changed to Aquarion Water Company of Massachusetts, Inc., and MassCapital's name was changed to Aquarion Capital. D.T.E. 05-94-A at 4-5.

III. SURCHARGE REDUCTION PROPOSAL

On October 1, 2012, Aquarion Capital completed a refinancing of the MDFA bonds that supported the construction of the WTP (Exh. TMD at 4). Prior to the refinancing, Aquarion Capital's overall debt consisted of \$29.905 million in MDFA bonds with a weighted average coupon rate of 6.85 percent (Exhs. TMD at 4; DPU 1-5). Aquarion Capital also held approximately \$4.2 million of restricted cash associated with the debt service reserve fund, and a \$5.7 million intercompany note receivable from its parent, Aquarion Company (Exhs. TMD at 4; DPU 1-5; DPU 1-6). As a result of the refinancing, Aquarion Capital obtained a \$21.0 million, ten-year amortizing bank note, bearing 4.10 percent interest, and held by Peoples' United Bank (Exhs. TMD at 4; DPU 1-5; DPU 5-11, Att.). The issuance, combined with the liquidation of both the intercompany note receivable and the debt service reserve fund required under the MDFA financing, allowed Aquarion Capital to reduce the amount needed for refinancing with Peoples' United Bank (Exhs. TMD at 4; DPU 1-5; DPU 1-6).

As a result of the refinancing, Aquarion determined that its annual debt service associated with the WTP would decrease by \$926,012 (Exhs. TMD at 4; TMD-1). This reduction consists of: (1) \$1,005,253 to the base percentage rent component of the lease; (2) \$8,413 in cash working capital allowance; and (3) \$2,939 in associated income taxes on the cash working capital allowance; less (4) \$90,593 in interest income that would be foregone by the elimination of the debt service reserve fund required under the former MDFA financing arrangement (Exhs. TMD at 4-5; TMD-1). Under the Company's proposal, customers served through a 5/8-inch meter using 62,500 gallons per year will experience a decrease of \$3.64 per month in the WTP surcharge, representing a decrease of 8.2 percent on their total bill (Exhs. TMD; TMD-1; TMD-2).

IV. POSITIONS OF THE PARTIES

A. Aquarion Water Company of Massachusetts

Aquarion argues that the Department should approve its petition because a financially analogous situation was previously approved in D.P.U. 95-118, and the Company's customers will benefit from a decrease to the annual debt service on the WTP of approximately \$926,000 annually (Aquarion Brief at 3-4, Aquarion Reply Brief at 1-2). The Company maintains that in D.P.U. 95-118, the Department determined that it could, at its discretion, reopen the record for the purpose of recalculating the WTP surcharge to adjust for lower than anticipated WTP project costs (Aquarion Brief at 3, <u>citing</u> D.P.U. 95-118, at 57-58). Aquarion further argues that in D.T.E. 05-94, the Department exercised the discretion provided in D.P.U. 95-118, and approved a reduction to the WTP surcharge (Aquarion Brief at 3-4, Aquarion Reply Brief at 3-4, Aquarion Brief at 3-4.

Aquarion argues that it is instructive that both Hingham and Hull have stated their support for a reduction in the rates paid by the Company's customers, and that the Attorney General has not presented any opposition to the Company's petition (Aquarion Brief at 4, Aquarion Reply Brief at 1). The Company also notes that examination of the Company's witnesses during the evidentiary hearing focused primarily on the timing and nature of the refinancing, not the calculations or formulas that support the determination of the reduction (Aquarion Brief at 4). In addition, Aquarion maintains that although Aquarion Capital is not regulated by the Department, the Company has nonetheless provided ample evidence to demonstrate that Aquarion Capital entered into the financial markets and completed its refinancing at an opportune time and after due consideration of the financing options available in the marketplace (Aquarion Brief at 4).

Finally, Aquarion argues that the <u>Investigation by the Department of Public Utilities on</u> its own Motion into the Effect of the Reduction in Federal Income Tax Rates Charged by <u>Electric, Telephone, Gas, and Water Companies</u>, D.P.U. 87-21 (1987), provides additional support for the Company's proposal (Aquarion Reply Brief at 2). The Company maintains that in D.P.U. 87-21, the Department held that it will determine, for each company, the impact that the reduction in the federal corporate tax rate will have on the company's retail rates and order an appropriate adjustment to reflect that reduction (Aquarion Reply Brief at 2, <u>citing</u> D.P.U. 87-21-A at 12). Aquarion contends that its petition in the instant proceeding accomplishes the same goal as that in D.P.U. 87-21-A, because the proposed reduction (1) benefits customers, (2) can be computed in a simple manner, (3) is significant, and (4) is known and measureable (Aquarion Reply Brief at 2).

B. Hingham and Hull

The Towns state that they are unopposed to the Company's petition and the reduction of the WTP surcharge (Towns' Brief at 1). Nonetheless, the Towns maintain that they are concerned as to whether there are additional savings that can be passed on to the ratepayers (Towns' Brief at 1). The Towns question whether, in addition to the refinancing at issue in this petition, there are any additional refinancing opportunities that Aquarion could pursue, and whether the Company should have pursued the financing earlier to provide additional savings to the ratepayers (Towns' Brief at 1). Consequently, the Towns urge the Department to carefully consider whether additional reductions could be implemented (Towns' Brief at 1).

V. ANALYSIS AND FINDINGS

The WTP surcharge represents a rider on distribution rates, and is not a reconciling mechanism (Exh. TMD-2). See also D.P.U. 95-118, at 175-176. Nonetheless, the Department has consistently held that any cost savings associated with the WTP surcharge should ultimately benefit ratepayers. D.P.U. 12-84 Interlocutory Order at 2; D.T.E. 05-94-A at 9-12; D.T.E. 05-94, at 1-2; D.P.U. 95-118, at 57-58. The Department has reviewed the Company's calculations and assumptions regarding the proposed reduction to the WTP surcharge and finds that Aquarion has correctly calculated the revenue requirement reduction. The Department also finds that the Company has properly applied the WTP surcharge reduction in a manner consistent with cost allocation and rate design principles. <u>Aquarion Water Company of Massachusetts</u>, D.P.U. 11-43, at 243-245 (2012); D.T.E. 05-94-A at 13. Therefore, the Department approves Aquarion's revised WTP surcharge calculations.

The Department also examined whether Aquarion Capital exercised due diligence in its decision to refinance the MDFA bonds in the summer of 2012, as opposed to an earlier date (see, e.g., Tr. at 42-43; RR-DPU-1). The Department is aware that there are certain costs associated with a refinancing (Exh. DPU 1-4).⁴ In addition, shifting market conditions make it

⁴ For example, the costs associated with this refinancing are approximately \$345,156, and include origination fees, title insurance, and legal fees relating to preparation, negotiation, and due diligence (Exh. DPU 1-4).

inherently difficult to determine the best time to execute a refinancing transaction (see, e.g., Tr. at 14-20; RR-DPU-1; RR-Hingham-1). Aquarion Capital states that it regularly monitors the capital markets in order to identify attractive financing opportunities (Tr. at 17; RR-DPU-1). In 2005, the Company's MDFA bonds became callable with a premium of two percent (RR-DPU-1). The record shows that the call premiums associated with the MDFA bonds, combined with the issuance costs, would have obviated any interest expense savings associated with refinancing at that time (see Exh. DPU 1-4; Tr. at 17-18; RR-DPU-1). Further, while the MDFA bonds became callable at par in 2007, the credit crunch of 2008 continued to make refinancing cost-prohibitive (RR-DPU-1). In July of 2012, Aquarion Capital determined that the markets for 20-year and 30-year fixed rate debt had reached their low and would increase thereafter (Tr. at 17; RR-DPU-1). As such, Aquarion Capital determined it was the appropriate time to refinance the remaining \$29.9015 million of outstanding debt (Tr. at 17; RR-DPU-1). Therefore, based on the call features of the MDFA bonds, prevailing interest rates, and credit conditions, the Department finds that Aquarion Capital's decision to defer refinancing until July 2012 was reasonable.

The Towns raise the issue of whether there are any refinancing opportunities that Aquarion should pursue, in addition to the refinancing at issue in this petition. Regulated utility companies have an obligation to pursue cost-effective financings to the extent possible. <u>See Aquarion Water Company of Massachusetts</u>, D.P.U. 11-55, at 24-25 (2012); <u>Blackstone Gas Company</u>, D.T.E. 98-91, at 6 (1999). The Company states that it regularly monitors the capital markets to identify opportunities to refinance debt (Tr. at 17). Further, Aquarion recently refinanced \$9 million in long-term debt at favorable interest rates, which was incorporated into the Company's revenue requirement in its most recent rate case. D.P.U. 11-55; D.P.U. 11-43, at 204-205. In addition, the Company has three other debt issuances. One represents an MDFA loan with an effective interest rate of zero percent, and the two other issues carry interest rates of 9.64 percent and 7.71 percent, but include call premium requirements that make it economically unattractive to refinance before their maturity (Tr. at 36). See D.P.U. 11-55, at 205. Therefore, the Department finds that, at this time the Company has met its obligation to pursue, to the extent practicable, all cost-effective financings.⁵

VI. ORDER

After due notice, hearing, and consideration, it is

<u>ORDERED</u>: That the rates and charges set forth in M.D.P.U. No. 2-A, First Revised Sheet No. 29, of Aquarion Water Company of Massachusetts remain in effect until otherwise ordered; and it is

⁵ While the Department is satisfied that Aquarion has sought and obtained favorable financing conditions here, we take this opportunity to remind all regulated utilities that they have an ongoing obligation to monitor the capital markets and seek opportunities to pursue cost-effective financings for the benefit of their ratepayers.

<u>FURTHER ORDERED</u>: That Aquarion Water Company of Massachusetts shall comply with all other directives contained in this Order.

By Order of the Department,

/s/ Ann G. Berwick, Chair

/s/ Jolette A. Westbrook, Commissioner

/s/ David W. Cash, Commissioner An appeal as to matters of law from any final decision, order or ruling of the Commission may be taken to the Supreme Judicial Court by an aggrieved party in interest by the filing of a written petition praying that the Order of the Commission be modified or set aside in whole or in part. Such petition for appeal shall be filed with the Secretary of the Commission within twenty days after the date of service of the decision, order or ruling of the Commission, or within such further time as the Commission may allow upon request filed prior to the expiration of the twenty days after the date of service of said decision, order or ruling. Within ten days after such petition has been filed, the appealing party shall enter the appeal in the Supreme Judicial Court sitting in Suffolk County by filing a copy thereof with the Clerk of said Court. G.L. c. 25, § 5.

THIS RETURN IS SIGNED UNDER THE PENALTIES OF PERJURY		
Donald J. Morrissey Dule J Donald J. Morrissey Lorald J. Morrissey Charles V. Firlotte	Executive Vice President, Treasurer, Secretary and Clerk Director Director	
SIGNATURES OF ABOVE PARTIES AFFIXED OUTSIDE THE COMMONWEALTH OF MASSACHUSETTS MUST BE PROPERLY SWORN TO		
State of Connectiunt County of Fairfield as Bridger <u>Then personally appeared Donald J.</u> FRE. VP, Treagurer, Scoretory, C of Aquarion Water Company of Mal Charles V. Firlotte J. Aquarion Water of Mae and severally made oath to the truth of the foregoing statement by them subscribed account and belief.	Morrissey, ileric + Director f Moggachusetts director of gachugetts.	
	Notary Public St. Justice of the Peace CORGEANNE F. BERG NOTARY PUBLIC COMMISSION EXPIRES NOV. 30, 2016	