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, 2017

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

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Annual Report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

General Information

Principal and Salaried Officers*

Titles	Names	Addresses	Annual Salaries
President Chief Executive Officer	Charles V. Firlotte	Aquarion Water Company 835 Main St., Bridgeport, CT 06604	$434,562.54 * $25,993.71 charged to MA.
Executive Vice President, Treasurer, Secretary and Clerk	Donald J. Morrissey	Aquarion Water Company 835 Main St., Bridgeport, CT 06604	$303,819.51 * $17,108.06 charged to MA.
Vice President of Operations	John P. Walsh	Aquarion Water Company of Massachusetts, Inc. 835 Main St., Bridgeport, CT 06604	$216,249.96 * $23,937.84 charged to MA.
Vice President Corporate Communications	Bruce T. Silverstone	Aquarion Water Company 835 Main St., Bridgeport, CT 06604	$177,803.79 * $0 charged to MA.

Directors*

Names		Addresses	Fees Paid During Year
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
John P. Walsh		Aquarion Water Company 835 Main St., Bridgeport, CT 06604	$0

*By General Laws, Chapter 164, Section 83, the Return must contain a "List of names of all their salaried officers and the amount of the salary paid to each," and by Section 77, the department is required to include in its annual report "the names and addresses of the principal officers and of the directors."

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Annual Report of Aquarion Water Company of Massachusetts — **Year ended December 31, 2017**

GENERAL INFORMATION

1. Full corporate title company: Aquarion Water Company of Massachusetts — Telephone No. (781) 740-6693
2. Location of principal business office: 900 Main Street Hingham, MA 02043
3. Date of organization _____: August 9, 1879 — 4. Date of incorporation: March 21, 1879
5. Whether incorporated under general or special law: Special
6. If under special law, give chapter and year 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 Acts 1881, 1886, 1910, 1914, and 1924 respectively
8. Territory covered by charter rights: Towns of Hingham, Hull, Millbury, Oxford, and parts of Cohasset and Norwell
9. Capital stock authorized by charter, $5,000,000
10. Capital stock issued prior to August 1, 1914, $300,000
11. Capital stock issued with approval of Board of Gas and Electric Light Commissioners or the Department of Public Utilities since August 1, 1914
    37,571 shares of par value of $100.00 each — $3,757,100.00
12. If additional stock has been issued during the last fiscal period, give the date, amount and price thereof, the date or dates on on which the same was paid in, and the number of shares so sold and the amounts realized: _____D.P.U. No.

NONE

13. Management Fees and Expenses during the Year

List all individuals, associations, corporations or concerns with whom the company has any contract or agreement covering management or supervision of its affairs such as accounting, financing, engineering, construction, purchasing, operation, etc. and show the total amount paid to each for the year.

Aquarion Company	$104,369
Aquarion Water Company of Connecticut	$1,329,568

14. Date when Company first began to distribute and sell water: July 3, 1880
15. Total number of stockholders: One
16. Number of stockholders resident in Massachusettes: NONE
17. Amount of stock held in Massachusettes, number of shares _____, amount: N/A

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Annual Report of Aquarion Water Company of Massachusetts — **Year ended December 31, 2017**

COMPARATIVE GENERAL BALANCE SHEET

The entries in this balance sheet should be consitent with those in the supporting schedules on the pages indicated.
All credit items hereunder should be in red ink

Line No.	Balance at Beginning of Year (a)	Assets (b)	Balance at close of Year (c)	Net Change During Year (d)
1		**INVESTMENTS**		
2	$ 71,966,963	101-113 Plant Investments (p202)	$ 76,306,764	$ 4,339,801
3	$ 2,635,432	114-119 General Equipment (p202)	$ 2,706,416	$ 70,984
4	$ 371,345	201 Unfinished Construction(p202)	$ 331,179	$ (40,166)
5	$ 1,401	202 Miscellaneous Physical Property (p203)	$ 1,401	$ -
6	$ 34,844	203 Other Investments (p203)	$ 41,478	$ 6,634
7	**$ 75,009,985**	**Total Investments**	**$ 79,387,238**	**$ 4,377,253**
8		**CURRENT ASSETS**		
9	$ 180	204 Cash	$ 303	$ 123
10	$ -	205 Special Deposits	$ -	$ -
11	$ 37,099	206 Notes Receivable	$ 41,671	$ 4,571
12	$ 1,075,822	207 Accounts Receivable	$ 1,013,544	$ (62,278)
13	$ -	208 Interest and Dividends Receivable	$ -	$ -
14	$ 265,667	209 Materials and Supplies	$ 283,022	$ 17,355
15	$ 2,328,226	210 Other Current Assets	$ 2,380,455	$ 52,229
16	**$ 3,706,994**	**Total Current Assets**	**$ 3,718,995**	**$ 12,001**
17		**RESERVE FUNDS**		
18	$ -	211 Sinking Funds	$ -	$ -
19	$ -	212 Insurance and Other Funds	$ -	$ -
20	**$ -**	**Total Reserve Funds**	**$ -**	**$ -**
21		**PREPAID ACCOUNTS**		
22	$ 458	213 Prepaid Insurance	$ 8,780	$ 8,322
23	$ -	214 Prepaid Interest	$ -	$ -
24	$ 31,202	215 Other Prepayments	$ 33,684	$ 2,482
25	**$ 31,660**	**Total Prepaid Accounts**	**$ 42,464**	**$ 10,804**
26		**UNADJUSTED DEBITS**		
27	$ 134,466	216 Unamortized Dept Discount Exp (p203)	$ 109,076	$ (25,391)
28	$ -	217 Property Abandoned	$ -	$ -
29	$ 9,958,046	218 Other Unadjusted Debits (p203)	$ 9,333,854	$ (624,192)
30	**$ 10,092,512**	**Total Unadjusted Debits**	**$ 9,442,930**	**$ (649,582)**
31				
32	**$ 88,841,151**	**GRAND TOTAL**	**$ 92,591,627**	**$ 3,750,476**

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Annual Report of Aquarion Water Company of Massachusetts — **Year ended December 31, 2017**

COMPARATIVE GENERAL BALANCE SHEET

The entries in this balance sheet should be consitent with those in the supporting schedules on the pages indicated. All debit items hereunder should be in red ink.

Line No.	Balance at Beginning of Year (a)	Liabilities (b)	Balance at close of Year (c)	Net Change During Year (d)
1		**CAPITAL STOCK**		
2				
3	$ 3,757,100	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				
8	$ 1,135,450	304 Premium on Capital Stock	**$ 1,135,450**	$ -
9				
10		**BONDS, COUPON AND LONG TERM NOTES**		
11				
12	$ 18,810,000	305 Bonds (p. 204)	$ 18,630,000	$ (180,000)
13	$ -	306 Coupon and Long Term Notes (p. 204)	$ -	$ -
14	**$ 18,810,000**	**Total Bonds, Coupon and Long Term Notes**	**$ 18,630,000**	**$ (180,000)**
15				
16		**CURRENT LIABILITIES**		
17	$ 1,500,000	307 Notes Payable (p. 205)	$ 3,200,000	$ 1,700,000
18	$ 788,420	308 Accounts Payable	$ 650,190	$ (138,230)
19	$ 1,642	309 Consumers' Deposits	$ 1,356	$ (286)
20	$ -	310 Matured Interest Unpaid	$ -	$ -
21	$ -	311 Dividends Declared	$ -	$ -
22	$ -	312 Other Current Liabilities	$ -	$ -
23	**$ 2,290,062**	**Total Current Liabilities**	**$ 3,851,546**	**$ 1,561,484**
24				
25		**ACCRUED LIABILITIES**		
26	$ (91)	313 Tax Liability	$ (91)	$ -
27	$ 151,912	314 Interest Accrued	$ 152,639	$ 727
28	$ 116,292	315 Other Accrued Liabilities	$ 124,209	$ 7,917
29	**$ 268,113**	**Total Accrued Liabilities**	**$ 276,757**	**$ 8,644**
30				
31		**UNADJUSTED CREDITS**		
32	$ 38,523	316 Premium on Bonds (p. 205)	$ 32,739	$ (5,784)
33	$ 8,554,945	317 Other Unadjusted Credits (p. 205)	$ 13,036,450	$ 4,481,505
34				
35	**$ 8,593,468**	**Total Unadjusted Credits**	**$ 13,069,189**	**$ 4,475,721**
36				
37		**RESERVES**		
38	$ -	318 Insurance and Casualty Reserve	$ -	$ -
39	$ 18,198,293	319 Depreciation Reserve (p. 206)	$ 20,049,179	$ 1,850,886
40	$ 11,655,057	320 Other Reserves	$ 7,515,146	$ (4,139,911)
41	**$ 29,853,350**	**Total Reserves**	**$ 27,564,325**	**$ (2,289,025)**
42				
43		**APPROPRIATED SURPLUS**		
44	$ -	321 Sinking Fund Reserves	$ -	$ -
45	$ 12,647,332	323 Contributions for Extensions	$ 12,424,782	$ (222,550)
46	$ 3,844,050	324 Surplus Invested in Plant	$ 3,844,050	$ -
47	**$ 16,491,382**	**Total Appropriated Surplus**	**$ 16,268,832**	**$ (222,550)**
48				
49	$ 7,642,226	400 Profit and Loss Balance (p. 301) +	$ 8,038,428	$ 396,202
50	**$ 24,133,608**	**Total Corporate Surplus +**	**$ 24,307,260**	**$ 173,652**
51	**$ 88,841,151**	**GRAND TOTAL**	**$ 92,591,627**	**$ 3,750,476**

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Annual Report of Aquarion Water Company of Massachusetts — **Year ended December 31, 2017**

PLANT INVESTMENT ACCOUNTS

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.

When the whole or any part of "Unfinished Construction" is transferred to the Plant accounts, the amounts transferred should appear in Col. (e) in red and the amounts debited should appear in Col. (c) in black.

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	-	-	-	82,595
3	Misc. Intangible Invest.	-	-	-	-	-
4	**Total Intangible Property**	**82,595**	**-**	**-**	**-**	**82,595**
5	**TANGIBLE PROPERTY**					
6	Land	243,845	-	-	-	243,845
7	Structures	16,973,416	129,083	(90,454)	-	17,012,045
8	Pumping Plant Equipment	1,976,627	81,842	(23,283)	-	2,035,187
9	Misc. Pumping Plant Equipment	117,646	-	-	-	117,646
10	Purification System	3,623,620	398,432	(6,061)	-	4,015,991
11	Trans'n and Dist'n Mains	36,899,650	3,459,662	(61,263)	-	40,298,049
12	Services	7,480,284	202,128	(27,842)	-	7,654,570
13	Consumers' Meters	2,406,295	236,400	-	-	2,642,696
14	Consumers' Meter Installation	672,540	-	-	-	672,540
15	Hydrants	595,134	41,659	(502)	-	636,291
16	Fire Cist'ns, Basins, Fount'ns				-	-
17	Water Rights				-	-
18	Other Trans'n & Dist'n Plant	895,310	-	-	-	895,310
19	Miscellaneous Expenditures				-	-
20	**Total Plant Investment**	**71,884,368**	**4,549,206**	**(209,405)**	**-**	**76,224,169**
21	**GENERAL EQUIPMENT**					
22	Office Equipment	1,271,278	77,289	-	-	1,348,567
23	Shop Equipment	295,598	(86)	(824)	-	294,687
24	Stores Equipment	133,892	-	-	-	133,892
25	Transportation Equipment	656,206	85,501	(110,455)	-	631,252
26	Laboratory Equipment	36,005	-	(1,330)	-	34,674
27	Miscellaneous Equipment	242,454	20,891	-	-	263,345
28	**Total General Equipment**	**2,635,432**	**183,594**	**(112,610)**	**-**	**2,706,416**
29	Unfinished Construction	371,345	(29,666)	-	(10,500)	331,179
30	**Total Cost of All Property**	**74,973,739**	**4,703,135**	**(322,015)**	**(10,500)**	**79,344,359**
31	Assessed Value of Real Estate	17,217,261	129,083	(90,454)	-	17,255,890
32	Assessed Value of Other Property	57,302,540	4,603,718	(231,561)	-	61,674,696
33	**Total Assessed Value**	**74,519,801**	**4,732,801**	**(322,015)**	**-**	**78,930,586**

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Annual Report of Aquarion Water Company of Massachusetts — **Year ended December 31, 2017**

MISCELLANEOUS PHYSICAL PROPERTY

Give particulars of all investments of the respondent in physical property not devoted to utility operation.

Line No.	DESCRIPTION AND LOCATION OF MISCELLANEOUS PHYSICAL PROPERTY HELD AT END OF YEAR (a)	Book Value at End of Year (b)	Revenue for the Year (c)	Expense for the Year (d)	Not Revenue for the Year (e)
1	Easement Right-of-Way	$1,401			$1,401
2					
3					
4					
5	**Totals**	**$1,401**			**$1,401**

OTHER INVESTMENTS

Give particulars of investments in stocks, bonds, etc., held by the respondent at end of year.

	(a)				
6	Investment in CoBank, ACB	$34,844	$6,634		$41,478
7					
8					
9					
				Total	**$41,478**

UNAMORTIZED DEBT DISCOUNT AND EXPENSE

Give an analysis of the respondent's accodiscount and (or) expense on bonds, coupon or short term notes. If the account represents only the expenseincurred in connection with the issue, the word "Discount" should be erased. Entries in Col (d) should be consistant with the returns made on page 301, Schedules of Income and Profit and Loss.

	NAME OF SECURITY (a)	Unextinguished Discount at Beginning of Year (b)	Discount on Bonds etc., Issued During Year (c)	Discount Written off During Year (d)	Unextinguished Discount at Close of Year (e)
10	General Mtg Bonds 7.71%	$ 20,459		$ 2,958	$ 17,501
11	General Mtg Bonds 9.64%	$ 10,742		$ 2,149	$ 8,593
12	MA Water Pollution Abatement Trust Loan - 0.0%	$ 19,653		$ 2,985	$ 16,668
13	CoBank, ACB Swap Variable Rate	$ 83,613	$ -	$ 17,299	$ 66,314
14					
15	**TOTALS**	**$ 134,467**	**$ -**	**$ 25,391**	**$ 109,076**

OTHER UNADJUSTED DEBITS

Give an analysis of the abvove-entitled account as of close of year, showing in detail each item or subaccount amounting $500 or more. Items less than '$500 may be combined in a single entry "Minor Items _____ in number, each less than $500," giving the number of items thus combined.'

	DESCRIPTION AND CHARACTER OF UNADJUSTED DEBITS	Balance at Beginning of Year (b)	Amount Added During Year (c)	Amount Written off During Year (d)	Balance at Close of Year (e)
16	Deferred Taxes	$ 4,556,065	$ 635,940	$ 1,888,219	$ 3,303,786
17	Deferred Pension	$ 1,360,527	$ 222,402	$ 21,497	$ 1,561,432
22	FAS 158 Deferred Debits	$ 3,884,536	$ 273,222	$ -	$ 4,157,758
23	Deferred Well Maintenance	$ 156,918	$ 92,088	$ 150,472	$ 98,534
24	Deferred Rate Case	$ -	$ 173,249	$ -	$ 173,249
25	Deferred Tank Painting	$ -	$ 39,095	$ -	$ 39,095
26					
27					
28					
29					
30					
31					
32					
33					
34					
35	**TOTALS**	**$ 9,958,046**	**$ 1,435,996**	**$ 2,060,188**	**$ 9,333,854**

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CAPITAL STOCK

Give particulars of the various issues of capital stock of the respondent, as called for in the following schedule. In stating the amount of Capital Stock authorized in Col. (d) show only the amount authorized by the regulatory body.

Line No.	Decription (a)			Number of Shares Authorized (b)	Par Value of One Share (c)	Amount of Capital Stock Authorized (d)		Amount Actually Out-standing at End of Year (e)	Total Premium At End of Year (f)
1	Capital Stock: Common			50,000	$ 100		$ 5,000,000	$ 3,757,100	$ 4,979,500
2	Preferred								
3	Employee								
4									
5		**Totals**					**$ 5,000,000**	**$ 3,757,100**	**$ 4,979,500**

BONDS, COUPONS, AND LONG TERM DEBT

Give particulars of various issues of bond, coupons, and long term notes as called for in the following schedule, giving the names of any underlying issues that may have been assumed by the respondent. The total of col. (h) should be consistant with return made on page 301, Income Schedule (line 20).

	NAME AND CHARACTER OF OBLIGATION (a)	Date of Issue (b)	Date of Maturity (c)	Par Value Authorized (d)	Par Value Actually Outstanding at End of Year (e)	INTEREST PROVISIONS Rate Per Cent (f)	Dates Due (g)	Interest Accrued During Year Charged to Income (h)	Interest Paid During Year (i)
6	Mortgage Bonds:								
7	General Mortgage	11/93	6/23	$ 7,000,000	$ 7,000,000	7.71%	Jun/Dec	$ 539,700	$ 539,700
8	General Mortgage	12/91	9/21	$ 1,400,000	$ 1,400,000	9.64%	Mar/Sep	$ 134,960	$ 134,960
9	MA Water Pollution Abatement Trust Loan	3/03	8/23	$ 1,230,000	$ 1,230,000	0.00%	-	$ -	$ -
10	General Mortgage - swap loan	11/11	11/21	$ 9,000,000	$ 9,000,000	4.11%	Feb/May/Aug/Nov	$ 374,538	$ 373,811
11	**Total Bonds**			**$ 18,630,000**	**$ 18,630,000**			**$ 1,049,198**	**$ 1,048,471**
12	Coupon and Long Term Notes:								
13									
14									
15									
16									
17	Total Coupon & Long Term Notes								
18		**Grand Total**					**Totals**	**$ 1,049,198**	**$ 1,048,471**

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Annual Report of Aquarion Water Company of Massachusetts — Year ended December 31, 2017

SUNDRY CURRENT LIABILITIES

NOTES PAYABLE

Line No.	Name of Creditor (a)	Date of Issue (b)	Date of Maturity (c)	How Secured (d)	Rate of Interst (e)	Amount (f)
1	Aquarion Company					$ 3,200,000
2						
3						
4						
5						
6						
7						
8					TOTAL	$ 3,200,000

PREMIUM ON BONDS

Give an analysis of the respondent's accounts covering premium on bonds or other evidences of indebtedness. Entries in Col. (d) should be consistent with the returns made on page 301. Schedule of Income and Profit and Loss

	NAME OF SECURITY (a)		Unextinguished Premium at Beginning of Year (b)	Premium on Bonds Issued During Year (c)	Premium Written Off During Year (d)	Unextinguished Premium at End of Year (e)
9	MWPAT Unamortized Premium		$ 38,523		$ 5,784	$ 32,739
10						
11						
12		TOTALS				$ 32,739

OTHER UNADJUSTED CREDITS

Give the names in Col. (a) and indicate the character, in Col. (b) of the several subaccounts which appear as "Other Unadjusted Credits." For items less than $1,000 a single entry may be made under the caption "Minor accounts..... in number, each less than $1,000," stating the number

	NAME OF SUBACCOUNT (a)	Character of Subaccount (b)	Amount (c)
13	Advances for Construction		$ 732,154
14	Deferred OPEB		$ 2,213,507
15	Funded pension contribution		$ 5,306,698
16	Unrealized (gain) loss on swap		$ 72,662
17	Tax benefit due ratepayer		$ 3,927,673
18	Deferred OPEB costs		$ 783,755
19	Other deferred credits		$ -
20			
21			
22			
23		Total	$ 13,036,450

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Annual Report of Aquarion Water Company of Massachusetts — **Year Ended December 31, 2017**

DEPRECIATION RESERVE

Line No.	(a)	Amount (b)
1	**Balance at beginning of year**	$ 18,198,293
2	Credits to Depreciation Reserve during year:	
3	Account 610-10 Depreciation	2,175,651
4	Other Accounts (Specify):	
5	Loss of Disposition of Assets	
6	Depreciation charged to contributed property schedule	
7	Other Accounts (Specify):	-
8	**CHARGES DURING YEAR**	**$ 2,175,651**
9	Net Charges for Plant Retired:	
10	Book Cost of Plant Retired	$ 322,015
11	Cost of Removal	10,500
12	Salvage (credit in red)	(7,750)
13	**NET CHARGES DURING YEAR**	**$ 324,765**
14	**Balance at end of year**	**$ 20,049,179**

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.

15		
16		
17		
18		
19		
20		

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Annual Report of Aquarion Water Company of Massachusetts — **Year ended December 31, 2017**

INCOME STATEMENT FOR THE YEAR

Give the Income Account of the respondent for the year ended December 31, 2017 in accordance with the Uniform System of Accounts for Water Companies.

Line No.	Acc't No.	Item (a)	Amount (b)	Comparison with Previous Year. (c)
1		**OPERATING INCOME**		
2	500	Operating Revenues (p. 302)	$ 15,811,343	$ (243,545)
3	600	Operating Expenses (p. 303)	$ 13,170,866	$ (415,004)
4		**Net Operating Revenues**	**$ 2,640,477**	**$ 171,458**
5	550	Uncollectible Operating Revenues	$ (6,013)	$ (18,182)
6	551	Taxes (p. 303B)	$ 1,346,690	$ 539,433
7		**Net Operating Income**	**$ 1,299,800**	**$ (349,793)**
8		**NON-OPERATING INCOME**		
9	560	Mdse. and Jobbing Revenue*	$ 58,757	$ 1,903
10	561	Rent from Appliances	$ -	$ -
11	562	Miscellaneous Rent Income	$ -	$ -
12	563	Interest and Dividend Income	$ -	$ -
13	564	MWPAT Loan - Net Subsidy	$ 29,986	$ 6,330
14	565	MWPAT Amortization of Debt Premium	$ 5,784	$ -
15	566	Miscellaneous Non-operating Income	$ 137,580	$ (26,689)
16		**Total Non-operating Income**	**$ 232,107**	**$ (18,456)**
17		**GROSS INCOME**	**$ 1,531,907**	**$ (368,248)**
18		**DEDUCTIONS FROM GROSS INCOME**		
19	575	Miscellaneous Rents	$ -	$ -
20	576	Interest on Bonds and Coupon Notes	$ 1,119,864	$ 14,303
21	577	Miscellaneous Interest Deductions	$ -	$ -
22	578	Amortization of Discount (p. 203)	$ 25,391	$ 0
23	579	Miscellaneous Deductions from Income	$ 43,029	$ 6,161
24		**Total Deductions from Gross Income**	**$ 1,188,284**	**$ 20,464**
24		**Income Balance transferred to Profit and Loss**	**$ 343,623**	**$ (388,712)**

PROFIT AND LOSS STATEMENT

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 No.	Acc't No.	Item (a)	Debits (b)	Credits (c)
26		**CREDITS**		
27	401	Credit Balance at Beginning of Fiscal Period (p.201)		$ 7,642,226
28	402	Credit Balance transferred from Income Acct. (p.301)		$ 343,623
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	$ -	$ 52,579
34	414	Dividend Appropriation of Surplus (p.302)	$ -	
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		$ 52,579
		TOTALS		**$ 8,038,428**

(Note) Explain below amounts entered as Other Deductions from Surplus or Miscellaneous Credits:

*In case the Merchandising and Jobbing business shows a loss, the amount should appear in red.

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Annual Report of Aquarion Water Company of Massachusetts — **Year ended December 31, 2017**

OPERATING REVENUES

State the operating revenues of the respondent for the year ended December 31, 2017, classified in accordance with the Uniform System of Accounts.

Line No.	Acc't No.	CLASS OF WATER OPERATING REVENUE	Amount of Revenue for Year	Comparison with Previous Year
1		**REVENUES FROM SALE OF WATER**		
2	501	Metered Sales to General Consumers	$ 14,195,528	$ (206,147)
3	502	Flat-rate Sales to General Consumers	$ 669,452	$ (14,344)
4	503	Sales to Other Water Companies	$ -	$ -
5	504	Municipal Hydrants	$ 893,984	$ (16,132)
6	505	Miscellaneous Municipal Revenues	$ -	$ -
7		**Total Revenues from Water Operations**	**$ 15,758,964**	**$ (236,623)**
8		**MISCELLANEOUS REVENUES**		
9	506	Rent from Property used in Operation	$ -	$ -
10	507	Miscellaneous Operating Revenues	$ 52,379	$ (6,921)
11		**Total Revenues from Miscellaneous Operation**	**$ 52,379**	**$ (6,921)**
12		**Total Operating Revenues**	**$ 15,811,343**	**$ (243,544)**

DIVIDENDS DECLARED DURING THE YEAR

Give particulars of dividends on each class of stock during the year, and charged to Profit and Loss. This schedule shall include only dividends that have been declared by the Board of Directors during the fiscal year.

Line No.	NAME OF SECURITY ON WHICH DIVIDEND WAS DECLARED (a)	RATE PER CENT Regular (b)	RATE PER CENT Extra (c)	Amount of Capital Stock on which Dividend was Declared (d)	Amount of Dividend (e)	DATE Declared	DATE Payable
13	Common Stock				$ -		
14							
15							
16							
17							
19							
20							
21							
22							
23							
24	**Totals**				$ -		

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Annual Report of Aquarion Water Company of Massachusetts — **Year ended December 31, 2017**

OPERATING EXPENSES

(For companies having average operating revenues of more than $15,000.)

State the operating expenses of the respondent for the year ended December 31, 2017 classifying them in accordance with the Uniform System of Accounts.

Line No.	Acc't No.	Item (a)	Amount (b)	Comparison with Previous Year. (c)
1		**SOURCE OF WATER SUPPLY EXPENSES**		
2	601-1	Maintenance of Water Supply Buildings and Fixtures	$ -	$ (10,333)
3	601-2	Maintenance of Surface Source of Supply Facilities	$ -	$ -
4	601-3	Maintenance of Ground Source of Water Supply	$ 462,684	$ 65,661
5		**Total Source of Water Supply Expenses**	**$ 462,684**	**$ 55,328**
6	602	**Water Purchased for Resale**	**$ 60,505**	**$ (436,417)**
7		**PUMPING EXPENSES**		
8	603-1	Pumping Labor	$ 160,409	$ 6,836
9	603-2	Boiler Fuel	$ -	$ -
10	603-3	Water for Steam	$ -	$ -
11	603-4	Electric Power Purchased	$ 653,168	$ (70,646)
12	603-5	Miscellaneous Pumping Station Supplies and Expenses	$ 107,133	$ (5,378)
13	604-1	Maintenance Power Pumping Buildings and Fixtures	$ 18,193	$ 2,009
14	604-2	Maintenance of Pumping Equipment	$ 109,443	$ (2,922)
15	604-3	Maintenance of Miscellaneous Pumping Plant Equipment	$ -	$ -
16		**Total Pumping Expenses**	**$ 1,048,346**	**$ (70,102)**
17		**PURIFICATION EXPENSES**		
18	605-1	Purification Labor	$ 344,288	$ 34,429
19	605-2	Purification Supplies and Expenses	$ 3,476,107	$ (21,416)
20	606-1	Maintenance of Purification Buildings and Fixtures	$ 41,816	$ 8,712
21	606-2	Maintenance of Purification Equipment	$ 298,691	$ (6,340)
22		**Total Purification Expenses**	**$ 4,160,902**	**$ 15,385**
23		**TRANSMISSION AND DISTRIBUTION EXPENSES**		
24	607	Inspecting Customers' Installation	$ 8,842	$ (8,184)
25	608	Miscellaneous Trans. and Dist, Supplies and Expenses	$ 695,623	$ (39,302)
26	609-1	Maintenance of Trans. and Dist. Buildings and Fixtures	$ 2,611	$ (4,243)
27	609-2	Maintenance of Trans. and Dist. Mains	$ 306,088	$ (50,772)
28	609-3	Maintenance of Storage, Reservoirs, Tanks and Standpipes	$ 4,611	$ (2,040)
29	609-4	Maintenance of Services	$ 228,309	$ (3,309)
30	609-5	Maintenance of Meters	$ 127,159	$ (57,575)
31	609-6	Maintenance of Hydrants	$ 31,117	$ 14,740
32	609-7	Maintenance of Fountains and Troughs	$ -	$ -
33		**Total Trans. and Dist. Expenses**	**$ 1,404,358**	**$ (150,684)**
34		**GENERAL AND MISCELLANEOUS EXPENSES**		
35	610-1	Salaries of General Officers and Clerks	$ 516,423	$ 88,236
36	610-2	General Office Supplies and Expenses	$ 1,808,558	$ (181,214)
37	610-3	Law Expense - General	$ 270,473	$ 65,078
38	610-4	Insurance	$ 864,087	$ (8,270)
39	610-5	Accidents and Damages	$ -	$ -
40	610-6	Store Expenses	$ -	$ -
41	610-7	Transportation Expenses	$ 18,546	$ 1,235
42	610-8	Inventory Adjustments	$ -	$ -
43	610-9	Maintenance of General Structures	$ -	$ -
44	610-10	Depreciation	$ 1,953,101	$ 131,893
45	610-11	Miscellaneous General Expenses	$ 602,883	$ 74,530
46		**Total General and Miscellaneous Expenses**	**$ 6,034,071**	**$ 171,487**
47		**GRAND TOTAL OPERATING EXPENSES**	**$ 13,170,866**	**$ (415,004)**

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Annual Report of Aquarion Water Company of Massachusetts — **Year ended December 31, 2017**

OPERATING EXPENSES (CONT'D)

(For companies having average operating revenues not exceeding $15,000.)

State the operating expenses of the respondent for the year ended December 31, 2017 classifying them in accordance with the Uniform System of Accounts.

Line No.	Kind of Tax (a)	Federal	State	Municipal	Total
48	FIT	$ 35,625			$ 35,625
49	FICA	$ 167,790			$ 167,790
50	FUTA	$ 988			$ 988
51	Property Tax			$ 1,126,210	$ 1,126,210
52	SUTA		$ 5,912		$ 5,912
53	SIT		$ 10,166		$ 10,166
54	Other General Taxes			$ -	$ -
55					
56					
57					
58					
59					
60	**TOTALS**	**$ 204,403**	**$ 16,078**	**$ 1,126,210**	**$ 1,346,690**

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

Real Estate Information - Hingham

1. Land owned by the Company

	Location	Use	
A	Whiting Street, Accord Pond	Surface water supply, pump station, elevated tank	
B	South Pleasant Avenue Fulling Mill	Water Pump Station	
C	Free Street	Well Pump Stations	
D	Turkey Hill Lane	Standpipe	
E	Downing Street	Well Pump Stations	
F	Scotland Street	Well Pump Stations	
G	Prospect Street	Well Pump Stations	

	Area	When Bought	Cost
A	43.53 Acres	1882, 85, 96, 97, 98, 1916	$10,177
B	117.04 Acres	1885, 1900, 02-06, 16, 23	$29,092
C	72.14 Acres	1942, 1951	$3,763
D	0.22 Acres	1963	$4,766
E	10.91 Acres	1965	$14,579
F	24.20 Acres	1955 - 1975	$7,596
G	9.22 Acres	1966 - 1970	$83,384

2. Buildings owned by the Company

	Location	Use
A	Fulling Mill Pond	Pump Station
B	Fulling Mill Pond	Storehouse and Garage
C	Accord Pond - Gravity & Pump	Outlet Structure and Pump Station
D	Free Street #4	Well Pump Stations
E	Free Street #3	Well Pump Stations
F	Free Street #2	Filter Building And Garage, Well Pump Station
G	Scotland Street	Well Pump Stations
H	Downing Street	Well Pump Stations
I	Prospect Street	Well Pump Stations

	Size	Material	When Built	Cost
A	5755	Brick	1919, 20, 21, 62, 67, 68, 96	
B	800	Steel	1969	
C	1200	Brick	1995	
D	450	Brick	1942 - 1968	
E	258	Brick	1952	
F	2780	Brick & Block	1969-70	
G	326	Cement Block	1956	
H	340	Cement Block	1966	
I	360	Brick & Block	1971	

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

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

Real Estate Information - Millbury

1. Land owned by the Company

	Location	Use
A	Millbury Avenue	Location of Well & Pump Station
B	Burbank Hill	Location of Reservoir
C	Howe Avenue	Location Basins #1, #2 & #3
D	Oak Pond Avenue	Oak Pond Pump Station
E	North Main Street @ Jacques Curve	#1 & #2 North Main Street Pump Station
F	Sutton Road	Location of Booster Station

	Area	When Bought	Cost
A	3.00 Acres	1849	
B	3.00 Acres	1895	$25,802
C	55.23 Acres	1895 - 1913	$3,823
D	97,129 Square Feet	1957	$4,106
E	20.39 Acres	1965	$16,824
F	10,051 Square Feet	1994	$11,999

2. Buildings owned by the Company

	Location	Use
A	Oak Pond Avenue	Pump Station
B	North Main Street #2 Well	Pump Station
C	North Main Street #1 Well	Pump Station
D	34 Sutton Road	Booster Pump Station
E	Horne Way	Booster Pump Station
F	North Main St. WTP	Water Treatment Plant
G	35 Millbury Ave.	Raw Water Pump Station
H	35 Millbury Ave.	Water Treatment Plant

	Size	Material	When Built	Cost
A	19' x 16'	Concrete Block	1958	
B	20' x 17'	Concrete Block	1966	
C	20' x 17'	Concrete Block	1966 - 67	
D	17' x 22'	Brick & Concrete	1994	
E	22' x 33'	Wood	2000	
F	29' x 67'	Metal	2003	
G	17' x 18'	Concrete Block	2002	
H	45' x 100'	Concrete Block	2002	

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

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

Real Estate Information -Oxford

1. Land owned by the Company

	Location		Use	
A	Main St, Oxford, MA		Well & Pump station	
B	Prospect Hill, Oxford, MA		Right of way for standpipe	
C	Prospect Hill, Oxford, MA		Land adjacent to standpipe	
D	Off Holbrook Road- Oxford, Massachusetts		Land for standpipe	
E	From Old Depot Rd to Burbank St Oxford, Mass		Right of way pipeline to standpipe	
	Area		**When Bought**	**Cost**
A	9.04 Acres		1906	$4,312
B	1.00 Acre		1907	$319
C	13.30 Acres		1944	$438
D	0.52 Acres		1957	$6,527
E	25.70 Acres		1958 - 1959	$16,338

2. Buildings owned by the Company

	Location		Use	
A	North Main Street Oxford, Massachusetts		Pump Station	
B	North Main Street Oxford, Massachusetts		Pump Station	
C	Off Nelson Street Oxford, Massachusetts		Pump Station	
D	Sutton Ave. Oxford, Massachusetts		Booster Pump Station	
	Size	**Material**	**When Built**	**Cost**
A	20' x 17'	Cement Block	1959	
B	20' x 17'	Cement Block	1959	
C	16' x 10' x 19'9"	Cement Block	1959, 1964, 1967	
D	12' x 20'	Prefab. Metal	1999	

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

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

SUPPLY INFORMATION - Hingham

1. 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 **Page 401A**

(Item 1 Page 401)

Annual Report of Aquarion Water Company of Massachusetts

Year ended December 31, 2017

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
Environmental Protection 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 Protection
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.

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

SUPPLY INFORMATION - Millbury

1. 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 reguarding each of these sources of supply.

Water is supplies 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	8.50 acres	1909	Included on page 400
B. Parcel G, West of E & F - Howe Ave	29.29 acres	1910	
C. West of G - Howe Ave	3.18 acres	1913	

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.

The Millbury water system holds both a Registration Statement (21218602) and Permit (9P-2-12-186.01) under the Water Management Act issued by the Commonwealth of Massachusetts. The Registration Statement was renewed in 2008 and is good through December 31, 2017. The Water Management Act Permit was renewed in February 2010 and is good through February 28, 2029.

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

SUPPLY INFORMATION - Oxford

1. 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 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.

The Oxford water system holds a Registration Statement (21022601) under the Water Management Act issued by the Commonwealth of Massachusetts. The Registration Statement was renewed in 2008 and is good through December 31, 2017.

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

SUPPLY INFORMATION - Continued - Hingham

4. Wells

Location	Inside Dimensions	Depth Below High Water	Covered or Uncovered	When Built	Cost
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	$243,694
K. Fulling Mill Well #2	12"	42'	Covered	2008	$221,718
L. Scotland St. Well #1A	18"	58'	Covered	2008	$346,024

5. Give a full and complete description of the wells

See attached sheet

6. Reservoirs

Location	Area at Surface When Full	Full Capacity 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 increasing 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 Distrcit Water Treatment Facility for treatment.

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 and 2015.

(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, 1998 and 2014.

(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 and 2015.

(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. Redeveloped 2015.

(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, 2015, and 2016.

(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. Redeveloped 2015.

(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. Redeveloped in 2014 and 2016.

(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. Redeveloped in 2015 and 2016.

(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. Redeveloped in 2015 and 2016.

(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. Redeveloped in 2014 and 2015.

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

SUPPLY INFORMATION - Continued - Millbury

4. Wells

Location	Inside Dimensions	Depth Below High Water	Covered or Uncovered	When Built	Cost
A. Millbury Avenue	25'	36'20"	Covered	1984	
B. Oak Pond Avenue	24"	30'	Covered	1958	$5,255
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

Location	Area at Surface When Full	Full Capacity in Gallons	When Built	Cost
A.				
B.				
C.				
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.

(A.) Hand dug in 1884 lined with fieldstone 35' deep

(B.) 18" diameter 31' deep 8" stainless steel screen redeveloped 2014, installed 1958

(C.) 24" diameter 72' deep 10" stainless steel screen installed 1965 gravel packed, redeveloped 2011

(D.) 24" diameter 63' deep 10' stainless steel screen gravel packed, installed 1966

(E.) 2- 24" diameter 65' deep 8" stainless steel screen gravel packed, installed 1966

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

SUPPLY INFORMATION - Continued - Oxford

4. Wells

Location	Inside Dimensions	Depth Below High Water	Covered or Uncovered	When Built	Cost
A. Oxford, MA	24"	65'	Covered	1950-59	$53,994
B. Oxford, MA	24"	67'	Covered	1950-59	$50,128
C. Oxford, MA	24"	66'	Covered	1961	$20,383
D. Oxford, MA	12"	66'	Covered	2007	$269,981

5. Give a full and complete description of the wells

Three 24" diameter gravel packed wells, one with tansite casting and two stainless steel castings.

6. Reservoirs

Location	Area at Surface When Full	Full Capacity in Gallons	When Built	Cost
A.				
B.				
C.				
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.

(A.) #1 N Main drilled 1950 16" diameter 63' deep 10' stainless steel screen, gravel packed

(B.) #2 N Main drilled 1959 24" diameter 67' deep 10' stainless steel screen, gravel packed

(C.) #3 Nelson Street drilled 1960 24" diameter 63' deep 15' stainless steel screen, gravel packed, redeveloped 2011

(D) 1A N Main drilled 2007 12" diameter 71' deep 10' stainless steel screen gravel packed

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

Pumping Information - Hingham

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.

Respondent owns twelve wells/ pump stations. Water is pumped from Fulling Mill Station, Fulling Mill Well #1, Fulling 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
A	Fulling Mill #1	Hor Cent	Fairbanks-Morse	2015	*
B	Fulling Mill #2	Hor Cent	Fairbanks-Morse	2008	*
C	Free Street Well #2	Vert Turb	Bryon Jackson	1999	*
D	Scotland Street Well	Vert Turb	Goulds	2014	*
E	Downing Street Well	Vert Turb	Bryon Jackson	1996	*
F	Free Street Well #3	Vert Turb	Grundfos	2015	*
G	Prospect Street Well	Vert Turb	Goulds	2015	*
H	Free Street Well #4	Submersible	Goulds	2015	*
I	Beacon Road Booster	Hor Cent	Aurora	1999	*
J	Accord #3	Hor Cent	Fairbanks-Morse	2015	*
K	Accord #4	Hor Cent	Fairbanks-Morse	2015	*
L	Accord #5	Hor Cent	Fairbanks-Morse	2015	*
M	Beacon Road, Hull	Hor Cent	Aurora	1998	*
N	Free Street #5	Submersible	Grundfos	2015	*
O	Free Street #2A	Submersible	Goulds	2017	*
P	Fulling Mill Well #1	Submersible	Goulds	2008	*
Q	Fulling Mill Well #2	Submersible	Goulds	2008	*
R	Scotland St. Well #1A	Submersible	Goulds	2015	*
S	Baker Hill Booster #1	Hor Cent	Aurora	2017	*
T	Baker Hill Booster #2	Hor Cent	Aurora	2006	*
U	Baker Hill Booster #3	Hor Cent	Aurora	2006	*
V	Baker Hill Booster #4	Hor Cent	Aurora	2006	*
W	Baker Hill Booster #5	Hor Cent	Aurora	2006	*

	NUMBER OF CYLS.	SINGLE OR DOUBLE ACTING	RATED STROKES PER MINUTE	LENGTH OF STROKE**	DIAM. OF PISTONS OR PLUNGERS	HOW DRIVEN	DISPLACEMENT PER 24 HOURS
A		Double Suction	1,180 RPM	5"	N/A	Electric	1,440,000
B		Double Suction	1,180 RPM	5"	N/A	Electric	381,600
C		3 stage	1,770 RPM	13" Disc	N/A	Electric	2,016,000
D		1 stage	1,770 RPM	8"	N/A	Electric/Gas	1,008,000
E		7 stage	1,750 RPM	6"	N/A	Electric/Gas	829,440
F		7 stage	1,770 RPM	5"	N/A	Electric/Gas	216,000
G		1 stage	1,770 RPM	6"	N/A	Electric	504,000
H		2 stage	3,600 RPM	8"	N/A	Electric	864,000
I		1 stage	3,600 RPM	4"	N/A	Electric	1,008,000
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	432,000
O		3 stage	3,600 RPM	12"	N/A	Electric	1,804,320
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	1,080,000
S		1 stage	3,500 RPM	2"	N/A	Electric	86,400
T		1 stage	3,500 RPM	2"	N/A	Electric	86,400
U		1 stage	3,500 RPM	3"	N/A	Electric	216,000
V		1 stage	3,500 RPM	3"	N/A	Electric	216,000
W		1 stage	1,800 RPM	8"	N/A	Electric	1,728,000

* Cost of pump separately unavailable
**Diameter of impeller

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

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.

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
A	Millbury Avenue	Turbine	Floway	2003	
B	Millbury Avenue	Turbine	Floway	2003	
C	Millbury Avenue	Turbine	Floway	2003	
D	Millbury Avenue	Turbine	Floway	2003	
E	Oak Pond	Turbine	Goulds	2008	
F	North Main Street Well #2	Turbine	Goulds	2004	
G	North Main Street Well #1	Turbine	Goulds	2004	
H	Sutton Road Booster	Cent	EFI	1993	
I	Millbury Avenue	Turbine	Floway	2003	
J	Millbury Avenue	Turbine	Floway	2003	
K	Brierly Pond	Cent	PENTAIR	2003	
L	Brierly Pond	Cent	PENTAIR	2003	
M	Brierly Pond	Cent	PENTAIR	2003	
N	Brierly Pond	Cent	PENTAIR	2003	
O	Brierly Pond	Cent	PENTAIR	2003	

	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			1,790 RPM	Turbine		Electric Motor	1,296,000
B			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
E			1,760 RPM	Turbine		Electric Motor	864,000
F			1,760 RPM	Turbine		Electric Motor	457,920
G			1,750 RPM	Turbine		Electric Motor	835,200
H			3,450 RPM	Cent		Electric Motor	864,000
I			1,785 RPM	Turbine		Electric Motor	1,584,000
J			1,785 RPM	Turbine		Electric Motor	1,584,000
K			3,500 RPM	Cent		Electric Motor	1,440,000
L			1,750 RPM	Cent		Electric Motor	172,800
M			1,750 RPM	Cent		Electric Motor	172,800
N			3,500 RPM	Cent		Electric Motor	86,400
O			3,500 RPM	Cent		Electric Motor	86,400

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

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 information.

Water is pumped from company owned pump stations into distribution system containing 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. PUMPS, DRIVEN BY CONNECTED POWER

	LOCATION	TYPE	NAME OF BUILDER	WHEN INSTALLED	COST
A	North Main Street #1	Turbine	Bryon Jackson	1959	
B	North Main Street #2	Turbine	Deming	1959	
C	Nelson Street #3	Turbine	Goulds	2005	
D	Sutton Ave. Booster	Turbine	G & L Goulds	1999	
E	Sutton Ave. Booster	Turbine	G & L Goulds	1999	
F	North Main Street #1A	Submersible	Goulds	2007	

	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		Turbine	1,750 RPM			LP. Gen	432,000
B		Turbine	1,750 RPM			LP. Gen	576,000
C		Turbine	1,750 RPM			Kohler L.P. Gen	1,152,000
D		Turbine	3,500 RPM			Electric Motor	72,000
E		Turbine	3,500 RPM			Electric Motor	72,000
F		Submersible	3,500 RPM			Electric Motor	432,000

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Annual report of Aquarion Water Company of Massachusetts — **Year ended December 31, 2017**

Pumping Information - Continued Hingham

6. Gas Producers

This schedule not presently used

7. Internal combustion engines

	Location		Name of Builder	When Installed	Type of Drive	Cost
A	Scotland Street		Continental	1956	Gear Dr	*
B	Downing Street		Continental	1966	Gear Dr	*
C	Free Street Well #3		Allis Chalmers	1968 1969	Gear Dr	*

				Dimensions of Cylinders			
	For Gas, Gasoline or Oil	Number of Cyls.	Single or Double Acting	Diameter	Stroke	2 or 4 Stroke Cycle	Rated H.P.
A	L.P. Gas	6	Single	4	4 13/16	4	75
B	Natural Gas	6	Single	3 5/16	4 3/8	4	46 1/2
C	Natural Gas	6	Single	3 7/8	4 1/2	4	64

8. ELECTRIC MOTORS, INCLUDING COST OF WIRING SWITHCES

	Location	Name of Builder	When Installed	Cost
A	Fulling Mill #1	U.S. Electric	1996	*
B	Fulling Mill #2	U.S. Electric	1996	*
C	Free Street Well #2	U.S. Electric	1952	*
D	Scotland Street Well	U.S. Motors	1998	*
E	Downing Street Well	U.S. Electric	1966	*
F	Free Street Well #3	U.S. Electric	1998	*
G	Free Street Well #2	General Electric	1969	*
H	Prospect Street	U.S. Electric	1998	*
I	Free Street Well #4	U.S. Electric	1968	*
J	Accord #3	U.S. Electric	1996	*
K	Accord #4	U.S. Electric	1996	*
L	Accord #5	U.S. Electric	1996	*
M	Beacon Road, Hull	U.S. Motor	1998	*
N	Free Street Well #5	Franklin	2001	*
O	Free Street Well#2A	Centripro	2017	*
P	Fulling Mill Well#1	Centripro	2008	*
Q	Fulling Mill Well #2	Centripro	2008	*
R	Scotland Street #1A	Centripro	2008	*
S	Baker Hill Booster #1	Aurora	2017	*
T	Baker Hill Booster #2	Aurora	2006	*
U	Baker Hill Booster #3	Aurora	2006	*
V	Baker Hill Booster #4	Aurora	2006	*
W	Baker Hill Booster #5	Aurora	2006	

	A.C. or D.C. if A.C. Give Phase	Volts	Type of Drive	Rated H.P.
A	A.C. 3 Phase	460	Direct	15
B	A.C. 3 Phase	460	Direct	15
C	A.C. 3 Phase	480	Direct	100
D	A.C. 3 Phase	220/440	Direct	25
E	A.C. 3 Phase	220/440	Direct	40
F	A.C. 3 Phase	230/460	Direct	60
G	A.C. 3 Phase	460	Direct	25
H	A.C. 3 Phase	230/460	Direct	20
I	A.C. 3 Phase	460	Direct	25
J	A.C. 3 Phase	460	Direct	40
K	A.C. 3 Phase	460	Direct	50
L	A.C. 3 Phase	460	Direct	75
M	A.C. 3 Phase	240	Direct	20
N	A.C. 3 Phase	460	Direct	5
O	A.C. 3 Phase	460	Direct	175
P	A.C. 3 Phase	460	Direct	15
Q	A.C. 3 Phase	460	Direct	15
R	A.C. 3 Phase	460	Direct	20
S	A.C. 3 Phase	480	Direct	5
T	A.C. 3 Phase	480	Direct	5
U	A.C. 3 Phase	480	Direct	8
V	A.C. 3 Phase	480	Direct	8
W	A.C. 3 Phase	480	Direct	50
			Total Horse Power	815

* Cost of motor separately unavailable

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

Pumping Information - Continued Millbury

6. Gas Producers

This schedule not presently used

7. Internal combustion engines.

	Location	Name of Builder	When Installed	Type of Drive	Cost
A	Jacques Well Station #1	Kohler	2010	Generator	
B	Jacques Well Station #2	Kohler	2006	Generator	
C	Oak Pond Well	Cummings	1988	Generator	
D	Sutton Road Booster	Kohler	1994	Generator	
E	Brierly Pond Booster	Generac	2003	Generator	

	For Gas, Gasoline or Oil	Number of Cyls.	Single or Double Acting	Dimensions of Cylinders		2 or 4 Stroke Cycle	Rated H.P.
				Diameter	Stroke		
A	Fuel Oil	4	Single	4.19	5	4	158
B	Fuel Oil	6	Single	4	4 3/8	4	125
C	L.P. Gas	6	Double	5 1/4	15-24 centimeter	4	175
D	L.P. Gas	4	Single	4	5	4	150
E	Gas	8	Double	5 1/4	5	4	175

8. ELECTRIC MOTORS, INCLUDING COST OF WIRING SWITHCES

	Location	Name of Builder	When Installed	Cost
A	Jacques Well Station #1	U.S. Electric	2005	
B	Jacques Well Station #2	U.S. Electric	2005	
C	Oak Pond	U.S. Electric	2008	
D	Sutton Rd. Booster	EFI	1993	
E	Brierly Pond Booster	U.S. Electric	2003	
F	Brierly Pond Booster	U.S. Electric	2003	
G	Brierly Pond Booster	U.S. Electric	2003	
H	Brierly Pond Booster	U.S. Electric	2003	
I	Brierly Pond Booster	U.S. Electric	2003	

	A.C. or D.C. if A.C. Give Phase	Volts	Type of Drive	Rated H.P.
A	A.C. 3 Phase	230/460	Direct	60
B	A.C. 3 Phase	230/460	Direct	60
C	A.C. 3 Phase	230/460	Direct	100
D	A.C. 3 Phase	230/460	Direct	60
E	A.C. 3 Phase	230/460	Direct	40
F	A.C. 3 Phase	230/460	Direct	10
G	A.C. 3 Phase	230/460	Direct	10
H	A.C. 3 Phase	230/460	Direct	5
I	A.C. 3 Phase	230/460	Direct	5
			Total Horse Power	350

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

Pumping Information - Continued Oxford

6. Gas Producers

This schedule not presently used

7. Internal combustion engines.

	Location	Name of Builder	When Installed	Type of Drive	Cost
A	#1 North Main Street	Koehler	2012	Generator	
B	#2 North Main Street	Koehler	2012	Generator	
C	#3 Nelson Street	Koehler	2005	Generator	
D	Sutton Ave.	Koehler	2000	Generator	

				Dimensions of Cylinders			
	For Gas, Gasoline or Oil	Number of Cyls.	Single or Double Acting	Diameter	Stroke	2 or 4 Stroke Cycle	Rated H.P.
A	Diesel	4	Double	4.19	5	4	197
B	Diesel	4	Double	4.19	5	4	197
C	L.P. Gas	8	Single	4	4 3/8	4	125
D	L.P. Gas	6	Single	4	3.98	4	82

8. ELECTRIC MOTORS, INCLUDING COST OF WIRING SWITHCES

	Location	Name of Builder	When Installed	Cost
A	#1 North Main Street	U.S. Motors	1990	
B	#2 North Main Street	U.S. Motors	1990	
C	#3 Nelson Street	U.S. Motors	2005	
D	Sutton Ave. Booster	Baldor	1999	
E	#1A North Main Street	Franklin	2007	

	A.C. or D.C. if A.C. Give Phase	Volts	Type of Drive	Rated H.P.
A	A.C. 3 Phase	575	Direct	60
B	A.C. 3 Phase	575	Direct	60
C	A.C. 3 Phase	480	Direct	100
D	A.C. 3 Phase	230/460	Direct	5
E	A.C. 3 Phase	575	Direct	60
			Total Horse Power	285

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Annual report of Aquarion Water Company of Massachusetts — **Year ended December 31, 2017**

Pumping Information - Continued. - Hingham

9. Water Wheels and Turbines

	Location	Name of Builder	When Installed	Cost
A.				
B.	NONE			
C.				
D.				

	Type of Machine	Diam. of Runner	Working Head	Speed	Type of Driver	Rated H.P.
A.						
B.						
C.						
D.						

10. Give a full and complete description of any water power rights that are owned by the Company, and say when they were bought and what was paid for them

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

Pumping Information - Continued. - Millbury

9. Water Wheels and Turbines

	Location	Name of Builder	When Installed	Cost
A.				
B.	NONE			
C.				
D.				

	Type of Machine	Diam. of Runner	Working Head	Speed	Type of Driver	Rated H.P.
A.						
B.						
C.						
D.						

10. Give a full and complete description of any water power rights that are owned by the Company, and say when they were bought and what was paid for them

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

Pumping Information - Continued. - Oxford

9. Water Wheels and Turbines

	Location	Name of Builder	When Installed	Cost
A.				
B.	NONE			
C.				
D.				

	Type of Machine	Diam. of Runner	Working Head	Speed	Type of Driver	Rated H.P.
A.						
B.						
C.						
D.						

10. Give a full and complete description of any water power rights that are owned by the Company, and say when they were bought and what was paid for them

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

Pumping Information - Continued Hingham

11. Station log System Delivery Summary - Hingham/Hull District Water Treatment Facility Only

Year and Month 2017	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping	Average Total Static Head	Average Total Dynamic Head
January	144,200		71.222	744		
February	143,850		65.976	672		
March	114,450		76.183	744		
April	123,550		74.399	720		
May	123,900		91.734	744		
June	165,900		107.890	720		
July	156,450		133.964	744		
August	226,100		141.423	744		
September	192,500		114.885	720		
October	147,000		103.561	744		
November	129,150		83.789	720		
December	128,100		80.236	744		
Totals	1,795,150	0	1,145.262	8,760	0	0

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 3.140 MG (365 days)

14. Maximum gallons pumped in a day 5.268 MG

15. Date of same, August 16, 2017

16. Range of pressure in main 45-95 psi

17. Average pressure in main 82 psi

408	System Delivery Summary - Hingham/Hull District Water Treatment Facility Only		
Annual report of Aquarion Water Company of Massachusetts			Year ended December 31, 2017
Pumping 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, delivered			
23. Average price of fuel oil per gallon, delivered			
24. Average price of electric power per Kwhr	$ 0.14		
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	1,795,150	Kwhrs	

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

Pumping Information - Continued Hingham

11. Station log **Accord Pond to Water Treatment Facility**

Year and Month 2017	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping	Average Total Static Head	Average Total Dynamic Head
January	3,328		0.027	48		
February	3,720		1.048	192		
March	2,777		1.723	240		
April	5,076		16.919	696		
May	2,966		12.549	744		
June	4,105		24.169	720		
July	8,637		39.197	744		
August	17,586		43.222	744		
September	13,603		30.378	720		
October	6,093		17.808	672		
November	2,960		0.047	48		
December	2,146		0.000	0		
Totals	72,997	0	187.087	5,568	0	0

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 0.510 MG (365 days)

14. Maximum gallons pumped in a day 1.71 MG

15. Date of same, July 17, 2017

16. Range of pressure in main 5-10 psi

17. Average pressure in main 10 psi

408	Accord Pond to Water Treatment Facility	
Annual report of Aquarion Water Company of Massachusetts		Year ended December 31, 2017
Pumping 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, delivered		
23. Average price of fuel oil per gallon, delivered		
24. Average price of electric power per Kwhr	$ 0.16	
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	72,997	Kwhrs

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

Pumping Information - Continued Hingham

11. Station log **Fulling Mill Well 1 to Water Treatment Facility**

Year and Month 2017	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping	Average Total Static Head	Average Total Dynamic Head
January	20,789		9.671	744		
February	18,794		8.257	672		
March	14,853		8.663	744		
April	11,405		4.014	384		
May	6,777		11.566	744		
June	15,467		10.570	720		
July	16,346		12.460	744		
August	21,823		11.342	744		
September	18,657		8.751	720		
October	14,195		8.922	744		
November	17,893		7.938	720		
December	17,718		8.380	744		
Totals	194,717	0	110.535	8,424	0	0

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 0.300 MG (365 days)

14. Maximum gallons pumped in a day 0.526 MG

15. Date of same, July 10, 2017

16. Range of pressure in main 35-45 psi

17. Average pressure in main 40 psi

408	Fulling Mill Well 1 to Water Treatment Facility		
Annual report of Aquarion Water Company of Massachusetts			Year ended December 31, 2017
Pumping 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, delivered			
23. Average price of fuel oil per gallon, delivered			
24. Average price of electric power per Kwhr	$ 0.14		
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	194,717	Kwhrs	

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

Pumping Information - Continued Hingham

11. Station log **Fulling Mill Well 2 to Water Treatment Facility**

Year and Month 2017	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping	Average Total Static Head	Average Total Dynamic Head
January			2.802	696		
February			1.141	384		
March			1.372	504		
April			0.219	96		
May			2.292	432		
June			4.007	672		
July			3.786	648		
August			5.068	744		
September			2.730	480		
October			4.981	744		
November			5.044	696		
December			3.587	744		
Totals	0	0	37.027	6,840	0	0

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 0.100 MG (365 days)

14. Maximum gallons pumped in a day 0.227 MG

15. Date of same, August 9, 2017

16. Range of pressure in main 35-45 psi

17. Average pressure in main 40 psi

408	Fulling Mill Well 2 to Water Treatment Facility	
Annual report of Aquarion Water Company of Massachusetts		Year ended December 31, 2017
Pumping 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, delivered		
23. Average price of fuel oil per gallon, delivered		
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 Fulling Mill 1 meter	

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

Pumping Information - Continued Hingham

11. Station log **Fulling Mill Cistern to Treatment Facility**

Year and Month 2017	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping	Average Total Static Head	Average Total Dynamic Head
January			0.000	0		
February			0.000	0		
March			0.000	0		
April			0.000	0		
May			0.000	0		
June			0.000	0		
July			0.000	0		
August			0.028	24		
September			0.000	0		
October			0.000	0		
November			0.000	0		
December			0.000	0		
Totals	0	0	0.028	24	0	0

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 0.000 MG (365 days)

14. Maximum gallons pumped in a day 0.028 MG

15. Date of same, August 28, 2017

16. Range of pressure in main 35-45 psi

17. Average pressure in main 40 psi

408	Fulling Mill Cistern to Treatment Facility	
Annual report of Aquarion Water Company of Massachusetts		Year ended December 31, 2017
Pumping 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, delivered		
23. Average price of fuel oil per gallon, delivered		
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 Fulling Mill 1 meter	

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Pumping Information - Continued Hingham

11. Station log **Scotland St 1 to Water Treatment Facility**

Year and Month 2017	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping	Average Total Static Head	Average Total Dynamic Head
January	9,502		11.434	744		
February	10,125		11.836	672		
March	10,550		8.466	432		
April	2,283		7.965	600		
May	5,801		14.952	744		
June	12,627		15.457	720		
July	15,142		13.924	744		
August	17,801		12.711	744		
September	14,568		11.856	720		
October	12,713		11.578	744		
November	13,188		13.044	720		
December	14,025		13.252	744		
Totals	138,325	0	146.475	8,328	0	0

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 0.400 MG (365 days)

14. Maximum gallons pumped in a day 0.727 MG

15. Date of same, February 9, 2017

16. Range of pressure in main 5-10 psi

17. Average pressure in main 8 psi

408	Scotland St 1 to Water Treatment Facility	
Annual report of Aquarion Water Company of Massachusetts		Year ended December 31, 2017
Pumping 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, delivered		
23. Average price of fuel oil per gallon, delivered		
24. Average price of electric power per Kwhr	$ 0.14	
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	138,325	Kwhrs

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

Pumping Information - Continued Hingham

11. Station log **Scotland St 1A to Water Treatment Facility**

Year and Month 2017	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping	Average Total Static Head	Average Total Dynamic Head
January			3.705	744		
February			3.675	600		
March			2.818	744		
April			0.570	648		
May			2.678	744		
June			6.855	720		
July			6.428	744		
August			6.085	744		
September			5.248	720		
October			5.931	744		
November			6.060	720		
December			6.208	744		
Totals	0	0	56.261	8,616	0	0

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 0.150 MG (365 days)

14. Maximum gallons pumped in a day 0.294 MG

15. Date of same, June 18, 2017

16. Range of pressure in main 5-10 psi

17. Average pressure in main 8 psi

408	Scotland St 1A to Water Treatment Facility
Annual report of Aquarion Water Company of Massachusetts	Year ended December 31, 2017
Pumping 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, delivered	
23. Average price of fuel oil per gallon, delivered	
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	See Scotland Street Meter

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

Pumping Information - Continued Hingham

11. Station log **Downing Street Well**

Year and Month 2017	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping	Average Total Static Head	Average Total Dynamic Head
January	85		0.000	0		
February	86		0.000	0		
March	66		0.000	0		
April	75		0.000	0		
May	87		0.000	0		
June	120		0.000	0		
July	103		0.000	0		
August	130		0.000	0		
September	122		0.000	0		
October	116		0.000	0		
November	116		0.000	0		
December	113		0.000	0		
Totals	1,219	0	0.000	0	0	0

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 0.000 MG (365 days)

14. Maximum gallons pumped in a day 0 MG

15. Date of same,

16. Range of pressure in main 80-95 psi

17. Average pressure in main 82 psi

408	Downing Street Well	
Annual report of Aquarion Water Company of Massachusetts		Year ended December 31, 2017
Pumping 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, delivered		
23. Average price of fuel oil per gallon, delivered		
24. Average price of electric power per Kwhr	$ 0.16	
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	1,219	Kwhrs

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

Pumping Information - Continued Hingham

11. Station log **Prospect Street to Water Treatment Facility**

Year and Month 2017	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping	Average Total Static Head	Average Total Dynamic Head
January	3,354		3.605	624		
February	3,487		5.657	672		
March	3,850		7.456	744		
April	1,803		1.075	120		
May	1,712		8.037	744		
June	3,713		8.759	720		
July	4,024		8.224	744		
August	5,384		7.494	720		
September	4,381		6.159	696		
October	3,169		6.235	744		
November	3,492		6.015	720		
December	3,502		6.303	744		
Totals	41,871		75.019	7,992	0	0

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 0.210 MG (365 days)

14. Maximum gallons pumped in a day 0.517 MG

15. Date of same, August 11, 2017

16. Range of pressure in main 5-10 psi

17. Average pressure in main 10 psi

408	Prospect Street to Water Treatment Facility	
Annual report of Aquarion Water Company of Massachusetts		Year ended December 31, 2017
Pumping 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, delivered		
23. Average price of fuel oil per gallon, delivered		
24. Average price of electric power per Kwhr	$ 0.16	
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	41,871	Kwhrs

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

Pumping Information - Continued Hingham

11. Station log **Free Street #2 to Water Treatment Facility**

Year and Month 2017	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping	Average Total Static Head	Average Total Dynamic Head
January			0.000	288		
February			0.000	0		
March			0.005	24		
April			0.008	24		
May			0.000	0		
June			0.000	0		
July			0.004	72		
August			0.000	0		
September			0.000	0		
October			0.000	0		
November			0.014	0		
December			0.000	0		
Totals	0	0	0.031	408	0	0

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 0.000 MG (365 days)

14. Maximum gallons pumped in a day 0.014 MG

15. Date of same, August 29, 2017

16. Range of pressure in main 50-60 psi

17. Average pressure in main 55 psi

408	Free Street #2 to Water Treatment Facility
Annual report of Aquarion Water Company of Massachusetts	Year ended December 31, 2017
Pumping 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, delivered	
23. Average price of fuel oil per gallon, delivered	
24. Average price of electric power per Kwhr	See Free Street # 2A
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 Free Street # 2A

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

Pumping Information - Continued Hingham

11. Station log **Free Street #2A to Water Treatment Facility**

Year and Month 2017	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping	Average Total Static Head	Average Total Dynamic Head
January	22,260		14.774	744		
February	24,360		20.423	648		
March	8,610		10.162	360		
April	21,840		17.652	720		
May	16,590		19.473	744		
June	21,630		20.384	720		
July	21,210		23.535	744		
August	26,250		27.182	744		
September	30,030		22.611	720		
October	21,000		25.678	744		
November	25,620		21.074	720		
December	17,850		17.402	744		
Totals	257,250	0	240.350	8,352	0	0

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 0.660 MG (365 days)

14. Maximum gallons pumped in a day 1.270 MG

15. Date of same, September 13, 2017

16. Range of pressure in main 50-60 psi

17. Average pressure in main 55 psi

408	Free Street #2A to Water Treatment Facility	
Annual report of Aquarion Water Company of Massachusetts		Year ended December 31, 2017
Pumping 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, delivered		
23. Average price of fuel oil per gallon, delivered		
24. Average price of electric power per Kwhr	$ 0.14	
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	257,250	Kwhrs

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

Pumping Information - Continued Hingham

11. Station log **Free Street #3 to Water Treatment Facility**

Year and Month 2017	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping	Average Total Static Head	Average Total Dynamic Head
January	48,600		0.000	0		
February	33,600		0.000	0		
March	39,120		0.000	0		
April	41,520		0.000	0		
May	25,920		0.000	0		
June	32,000		0.000	0		
July	31,120		0.000	0		
August	46,120		0.000	0		
September	48,160		0.000	0		
October	36,320		0.000	0		
November	36,640		0.000	0		
December	34,800		0.000	0		
Totals	453,920	0	0.000	0	0	0

Free St #3,4,5 uses same electric meter

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 0.000 MG (365 days)

14. Maximum gallons pumped in a day 0.000 MG

15. Date of same,

16. Range of pressure in main 50 -60 psi

17. Average pressure in main 55 psi

408	Free Street #3 to Water Treatment Facility		
Annual report of Aquarion Water Company of Massachusetts			Year ended December 31, 2017
	Pumping 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, delivered			
23. Average price of fuel oil per gallon, delivered			
24. Average price of electric power per Kwhr	$	0.14	
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		453,920	Kwhrs

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

Pumping Information - Continued Hingham

11. Station log **Free Street #4 to Water Treatment Facility**

Year and Month 2017	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping	Average Total Static Head	Average Total Dynamic Head
January			14.255	744		
February			5.143	288		
March			22.829	744		
April			19.106	720		
May			19.552	720		
June			14.423	648		
July			21.217	744		
August			22.792	744		
September			20.502	720		
October			20.196	744		
November			19.426	720		
December			17.796	744		
Totals	0	0	217.237	8,280	0	0

Free St #3,4,5 uses same electric meter

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 0.600 MG (365 days)

14. Maximum gallons pumped in a day 0.911 MG

15. Date of same, May 11, 2017

16. Range of pressure in main 50 -60 psi

17. Average pressure in main 55 psi

408	Free Street #4 to Water Treatment Facility	
Annual report of Aquarion Water Company of Massachusetts		Year ended December 31, 2017
	Pumping 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, delivered		
23. Average price of fuel oil per gallon, delivered		
24. Average price of electric power per Kwhr	See Free St # 3 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 Free St # 3 meter	

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

Pumping Information - Continued Hingham

11. Station log **Free Street #5 to Water Treatment Facility**

Year and Month 2017	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping	Average Total Static Head	Average Total Dynamic Head
January			12.281	744		
February			10.733	672		
March			12.000	744		
April			9.441	720		
May			3.176	432		
June			7.373	720		
July			4.716	552		
August			5.756	696		
September			6.959	720		
October			2.506	312		
November			3.790	552		
December			5.786	744		
Totals	0	0	84.516	7,608	0	0

Free St #3,4,5 uses same electric meter

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 0.230 MG (365 days)

14. Maximum gallons pumped in a day 0.467 MG

15. Date of same, February 13, 2017

16. Range of pressure in main 50 -60 psi

17. Average pressure in main 55 psi

408	Free Street #5 to Water Treatment Facility	
Annual report of Aquarion Water Company of Massachusetts		Year ended December 31, 2017
Pumping 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, delivered		
23. Average price of fuel oil per gallon, delivered		
24. Average price of electric power per Kwhr	See Free St # 3 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 Free St # 3 meter	

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

Pumping Information - Continued Millbury

11. Station Log **Total System**

Year and Month 2017	Kwhrs Used	Purchased Water (MG)	Million Gallons of Water Pumped	Hours of Pumping	Total System (MG) Includes Purchased Water	Average Total Static Head	Average Total Dynamic Head
January	88,920	0.224	41.709	1,625	41.933		
February	85,390	0.150	41.754	1,593	41.904		
March	93,980	8.901	37.083	1,511	45.984		
April	58,290	17.952	26.708	1,364	44.660		
May	63,960	12.043	38.198	1,391	50.241		
June	100,110	6.582	47.264	1,405	53.846		
July	91,950	0.075	53.839	1,694	53.914		
August	103,510	0.000	57.765	2,388	57.765		
September	105,670	0.000	53.774	2,330	53.774		
October	98,050	0.075	51.316	2,183	51.391		
November	110,530	0.075	48.881	1,925	48.956		
December	97,110	0.000	45.422	1,674	45.422		
Totals	1,097,470	46.077	543.713	21,083	589.790	0	0

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 1.616 MG (365 days)

14. Maximum gallons pumped in a day 2.540 MG

15. Date of same, August 20, 2017

16. Range of pressure in main 21 to 125 lbs

17. Average pressure in main 73 psi

408	Total System	
Annual report of Aquarion Water Company of Massachusetts		Year ended December 31, 2017
Pumping Information - 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, delivered		
23. Average price of fuel oil per gallon, delivered		
24. Average price of electric power per Kwhr	$ 0.16	
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	1,097,470 Kwhrs	

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

Pumping Information - Continued Millbury

11. Station Log **Millbury Ave. Station**

Year and Month 2017	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping	Average Total Static Head	Average Total Dynamic Head
January	23,700		9.086	232		
February	26,600		11.430	281		
March	24,300		6.008	148		
April	4,000		0.112	3		
May	18,300		16.271	461		
June	57,000		19.879	482		
July	41,400		24.304	747		
August	24,700		6.667	220		
September	14,200		6.293	197		
October	14,200		5.866	174		
November	16,800		8.830	242		
December	23,900		9.092	265		
Totals	289,100	0	123.838	3,452	0	0

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 0.339 MG (365 days)

14. Maximum gallons pumped in a day 1.191 MG

15. Date of same, May 21, 2017

16. Range of pressure in main 21 to 125 lbs

17. Average pressure in main 73 psi

408	Millbury Ave. Station	
Annual report of Aquarion Water Company of Massachusetts		Year ended December 31, 2017
Pumping Information - 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, delivered		
23. Average price of fuel oil per gallon, delivered		
24. Average price of electric power per Kwhr	$ 0.16	
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	289,100	Kwhrs

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

Pumping Information - Continued Millbury

11. Station Log **Oak Pond Station**

Year and Month 2017	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping	Average Total Static Head	Average Total Dynamic Head
January	20,320		9.693	651		
February	19,040		7.187	483		
March	17,280		8.808	590		
April	14,240		8.352	475		
May	10,560		2.881	156		
June	4,160		5.590	232		
July	9,600		4.886	210		
August	19,360		16.850	752		
September	22,720		13.828	699		
October	16,000		9.881	564		
November	19,680		10.925	624		
December	22,560		11.307	642		
Totals	195,520	0	110.188	6,078	0	0

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 0.302 MG (365 days)

14. Maximum gallons pumped in a day 0.633 MG

15. Date of same, August 1, 2017

16. Range of pressure in main 21 to 125 lbs

17. Average pressure in main 73 psi

408	Oak Pond Station	
Annual report of Aquarion Water Company of Massachusetts		Year ended December 31, 2017
Pumping Information - 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, delivered		
23. Average price of fuel oil per gallon, delivered		
24. Average price of electric power per Kwhr	$ 0.16	
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	195,520	Kwhrs

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

Pumping Information - Continued Millbury

11. Station Log **Jacques #1 N. Main St. Station**

Year and Month 2017	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping	Average Total Static Head	Average Total Dynamic Head
January	41,050		22.500	714		
February	37,450		21.172	676		
March	44,600		20.478	672		
April	17,200		3.936	163		
May	6,800		10.151	341		
June	36,900		21.755	658		
July	39,850		24.639	736		
August	43,350		22.542	741		
September	39,600		21.320	722		
October	41,100		23.806	751		
November	44,450		23.822	731		
December	46,400		24.671	745		
Totals	438,750	0	240.792	7,650	0	0

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 0.660 MG (365 days)

14. Maximum gallons pumped in a day 1.033 MG

15. Date of same, June 30, 2017

16. Range of pressure in main 21 to 125 lbs

17. Average pressure in main 73 psi

408	Jacques #1 N. Main St. Station		
Annual report of Aquarion Water Company of Massachusetts			Year ended December 31, 2017
Pumping Information - Continu	Pumping Information - 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, delivered			
23. Average price of fuel oil per gallon, delivered			
24. Average price of electric power per Kwhr	$	0.15	
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		438,750	Kwhrs

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

Pumping Information - Continued Millbury

11. Station Log **Jacques #2 N. Main St. Station**

Year and Month 2017	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping	Average Total Static Head	Average Total Dynamic Head
January	3,850		0.430	28		
February	2,300		1.965	153		
March	7,800		1.789	101		
April	22,850		14.308	723		
May	28,300		8.895	433		
June	2,050		0.040	33		
July	1,100		0.010	1		
August	16,100		11.706	675		
September	29,150		12.333	712		
October	26,750		11.763	694		
November	29,600		5.304	328		
December	4,250		0.352	22		
Totals	174,100	0	68.895	3,903	0	0

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 0.189 MG (365 days)

14. Maximum gallons pumped in a day 0.643 MG

15. Date of same, September 21, 2017

16. Range of pressure in main 21 to 125 lbs

17. Average pressure in main 73 psi

408	Jacques #2 N. Main St. Station		
Annual report of Aquarion Water Company of Massachusetts			Year ended December 31, 2017
	Pumping Information - 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, delivered			
23. Average price of fuel oil per gallon, delivered			
24. Average price of electric power per Kwhr	$ 0.17		
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	174,100	Kwhrs	

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

Pumping Information - Continued Oxford

11. Station Log **Total System**

Year and Month 2017	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping	Average Total Static Head	Average Total Dynamic Head
January	36,992		18.977	955		
February	38,183		16.170	827		
March	39,278		17.098	890		
April	34,166		17.270	874		
May	34,175		20.725	1,032		
June	38,298		24.241	1,146		
July	40,033		23.251	1,117		
August	37,657		22.681	1,103		
September	36,681		20.381	984		
October	33,461		18.979	951		
November	34,191		16.677	872		
December	34,453		17.066	931		
Totals	437,568	0	233.516	11,682	0	0

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 0.640 MG (365 days)

14. Maximum gallons pumped in a day 1.230 MG

15. Date of same, September 10, 2017

16. Range of pressure in main 48 to 112 lbs

17. Average pressure in main 80 psi

408	Total System	
Annual report of Aquarion Water Company of Massachusetts		Year Ended December 31, 2017
Pumping Information - 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, delivered		
23. Average price of fuel oil per gallon, delivered		
24. Average price of electric power per Kwhr	$ 0.16	
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	437,568	Kwhrs

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

Pumping Information - Continued Oxford

11. Station Log **North Main St. Well #1**

Year and Month 2017	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping	Average Total Static Head	Average Total Dynamic Head
January	9,200		0.309	18		
February	11,600		0.306	18		
March	11,600		0.086	5		
April	8,800		3.400	179		
May	6,800		2.115	114		
June	14,000		0.101	2		
July	14,000		0.051	3		
August	10,200		0.130	8		
September	10,200		0.091	5		
October	8,000		0.047	3		
November	6,200		0.137	8		
December	7,400		0.182	10		
Totals	118,000	0	6.955	373	0	0

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 0.019 MG (365 days)

14. Maximum gallons pumped in a day 0.343 MG

15. Date of same, May 21, 2017

16. Range of pressure in main 48 to 112 lbs

17. Average pressure in main 80 lbs per sq in

408	North Main St. Well #1	
Annual report of Aquarion Water Company of Massachusetts		Year Ended December 31, 2017
Pumping Information - 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, delivered		
23. Average price of fuel oil per gallon, delivered		
24. Average price of electric power per Kwhr	$ 0.19	
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	118,000	Kwhrs

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

Pumping Information - Continued Oxford

11. Station Log **North Main St. Well #1A**

Year and Month 2017	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping	Average Total Static Head	Average Total Dynamic Head
January	0		0.045	3		
February	0		0.000	0		
March	0		0.000	0		
April	0		0.000	0		
May	0		0.000	0		
June	0		0.000	0		
July	0		0.000	0		
August	0		0.000	0		
September	0		0.000	0		
October	0		0.000	0		
November	0		0.000	0		
December	0		0.000	0		
Totals	(See station # 1 for totals)		0.045	3	0	0

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 0.000 MG (365 days)

14. Maximum gallons pumped in a day 0.045 MG

15. Date of same, January 4, 2017

16. Range of pressure in main 48 to 112 lbs

17. Average pressure in main 80 psi

408	North Main St. Well #1A	
Annual report of Aquarion Water Company of Massachusetts		Year Ended December 31, 2017
Pumping Information - 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, delivered		
23. Average price of fuel oil per gallon, delivered		
24. Average price of electric power per Kwhr	see North Main Street #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 North Main Street #1 meter	

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

Pumping Information - Continued Oxford

11. Station Log **North Main St. Well #2**

Year and Month 2017	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping	Average Total Static Head	Average Total Dynamic Head
January	0		3.863	234		
February	0		2.683	168		
March	0		4.026	248		
April	0		0.255	17		
May	0		4.850	236		
June	0		10.048	444		
July	0		8.282	364		
August	0		9.121	428		
September	0		5.795	259		
October	0		4.518	203		
November	0		2.836	145		
December	0		8.327	478		
Totals	(See station # 1 for totals)		64.604	3,224	0	0

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 0.177 MG (365 days)

14. Maximum gallons pumped in a day 0.530 MG

15. Date of same, August 23, 2017

16. Range of pressure in main 48 to 112 lbs

17. Average pressure in main 80 psi

* One electric meter is used for 1, 1A & 2

408	North Main St. Well #2	
Annual report of Aquarion Water Company of Massachusetts		Year ended December 31, 2017
Pumping Information - 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, delivered		
23. Average price of fuel oil per gallon, delivered		
24. Average price of electric power per Kwhr	see North Main Street #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 North Main Street #1 meter	

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

11. Station Log **Nelson St. #3**

Year and Month 2017	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping	Total Static Head	Average Total Dynamic Head
January	27,792		14.760	700		
February	26,583		13.181	641		
March	27,678		12.986	637		
April	25,366		13.615	678		
May	27,375		13.760	682		
June	24,298		14.092	700		
July	26,033		14.918	750		
August	27,457		13.430	667		
September	26,481		14.495	720		
October	25,461		14.414	745		
November	27,991		13.704	719		
December	27,053		8.557	443		
Totals	319,568	0	161.912	8,082	0	0

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 0.444 MG (365 days)

14. Maximum gallons pumped in a day 0.908 MG

15. Date of same, September 10, 2017

16. Range of pressure in main 48 to 112 lbs

17. Average pressure in main 80 psi

408	Nelson St. #3		
Annual report of Aquarion Water Company of Massachusetts			Year ended December 31, 2017
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, delivered			
23. Average price of fuel oil per gallon, delivered			
24. Average price of electric power per Kwhr	$	0.15	
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	319,568	Kwhrs	

409 Hingham

Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

DISTRIBUTION INFORMATION

1. Mains

Nominal Diameter, Inches	Kind of Pipe	Weight Per Foot	LENGTHS IN FEET: In Use at Beginning of Year	Taken Up Since	Abandoned But Not Taken Up	Laid Since	In Use at Close of Year
24"	Ductile		10,285				10,285
20"	Lock Joint		13,909				13,909
20"	Cast Iron		26,921				26,921
20"	Cast Iron Cement Lined		277				277
20"	Ductile		10,285				10,285
16"	Lock Joint		112				112
16"	Cast Iron		5,531				5,531
16"	Cast Iron Cement Lined		104				104
16"	Ductile		3,767				3,767
14"	Cast Iron		5,936				5,936
14"	Ductile		110				110
12"	Cast Iron		51,372				51,372
12"	Cast Iron Cement Lined		29,648				29,648
12"	Ductile		46,734				46,734
12"	Transite		12,602				12,602
12"	HDPE		2,785				2,785
10"	Cast Iron		11,459				11,459
8"	Cast Iron		40,519				40,519
8"	Cast Iron Cement Lined		114,469				114,469
8"	Ductile		174,740			3,025	177,765
8"	Transite		43,273				43,273
8"	Steel		70				70
8"	HDPE		1,620				1,620
6"	Cast Iron		116,694				116,694
6"	Cast Iron Cement Lined		74,764				74,764
6"	Ductile		13,160			1,350	14,510
6"	Transite		87,134				87,134
6"	HDPE		2,060				2,060
4"	Cast Iron		31,508		350		31,158
4"	Cast Iron Cement Lined		77				77
4"	Ductile		12,247				12,247
4"	Galvanized		256				256
4"	Plastic		500				500
3"	Cast Iron		1,323				1,323
3"	Galvanized		82				82
3"	Plastic		525				525
2 1/4"	Cast Iron Cement Lined		37,079		275		36,804
2"	Steel		400		200		200
2"	Galvanized		19,999		2,290		17,709
2"	Plastic		1,282				1,282
1 1/2 "	Galvanized		2,449				2,449
1 1/4"	Galvanized		802	5			797
1"	Plastic		0				0
1"	Copper		339				339
1"	Galvanized		3,831				3,831
3/4"	Galvanized		100				100
3/4"	Copper		49				49
		TOTALS	1,013,188	5	3,115	4,375	1,014,443

2. Cost of repairs per mile of pipe including valves $ 1,282

3. Number of leaks in mains, during the year 19

4. Number of leaks per mile 0.1000

5. Length of mains less than 4 inches in diamater 65,490 miles 12.40

409 Milbury

Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

DISTRIBUTION INFORMATION

1. Mains

Nominal Diameter, Inches	Kind of Pipe	Weight Per Foot	LENGTHS IN FEET: In Use at Beginning of Year	Taken Up Since	Abandoned But Not Taken Up	Laid Since	In Use at Close of Year
16	Cast Iron		6,575				6,575
12	C. I. & Ductile		39,297				39,297
10	Cast Iron		17,691				17,691
8	C.I. & Ductile		119,894				119,894
6	C.I. & Ductile		66,586				66,586
4	Cast Iron		1,323				1,323
3	Cast Iron		935				935
2 1/4	Cast Iron		12,751				12,751
2	Cast Iron		3,071	11			3,060
8	Transite		1,497				1,497
6	Transite		3,609				3,609
2	Plastic		869			11	880
		TOTALS	274,098	11	0	11	274,098

2. Cost of repairs per mile of pipe including valves $ 1,103

3. Number of leaks in mains, during the year 9

4. Number of leaks per mile 0.1734

5. Length of mains less than 4 inches in diamater 17,626 miles 3.34

409 Oxford

Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

DISTRIBUTION INFORMATION

1. Mains

Nominal Diameter, Inches	Kind of Pipe	Weight Per Foot	LENGTHS IN FEET: In Use at Beginning of Year	Taken Up Since	Abandoned But Not Taken Up	Laid Since	In Use at Close of Year
16	Ductile		3,328				3,328
12	C.I. & Ductile		30,675			1,400	32,075
10	C.I. & Ductile		1,674				1,674
8	C.I. & Ductile		79,872	12		3,730	83,590
6	C.I. & Ductile		55,542	3,580			51,962
3	C.I. & Ductile		200				200
2 1/4	C.I. & Ductile		3,665				3,665
2	C.I. & Ductile		11,413				11,413
8	Transite		5,518	38			5,480
6	Transite		22,401	1,500			20,901
4	Ductile		354				354
2	Plastic		31				31
		TOTALS	214,673	5,130	0	5,130	214,673

2. Cost of repairs per mile of pipe including valves $ 896

3. Number of leaks in mains, during the year 4

4. Number of leaks per mile 0.0984

5. Length of mains less than 4 inches in diamater 15,309 miles 2.90

410 Hingham

Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

DISTRIBUTION INFORMATION

6. Water towers or stand pipes

	Location	Land		
		Area	When Bought	Cost
A	Turkey Hill	23	1963	$4,766
B	Accord Tank			
C	Accord Tank on land adjacent to Accord Pond - included there			

	Capacity in Gallons	When Bought	Cost
A	2,000,000	1963	$103,921
B	750,000	1967	$145,359
C			
	2,750,000		$249,280

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"	Copper-WI-Steel				
	Plastic Galv	10,279			10,279
3/4"	Plastic	0			0
3/4"	Copper	262	39		223
1"	Plastic	1,013	6		1,007
1"	Copper	884	2	65	947
2"	Plastic	238		5	243
4"	DICL	111		3	114
6"	DICL	113		2	115
8"	DICL	78		3	81
12"	DICL	2			2
	TOTALS	12,980	47	78	13,011

8. Average length of service pipe 25 feet

9. Average cost of service laid during the year $ 4,779

10. Percentage of services that are metered All except for fire services

11. Percentage in income that is metered

12. Leaks in service during the year 47

13. Are service pipes paid for by consumer, in whole or in part and by what extent? Water company provides labor materials for installation up to 2 inch in size, customer provides all other requirements to install water service including materials over 2 inch in size.

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

DISTRIBUTION INFORMATION

6. Water towers or stand pipes Millbury

	Location	Land Area	Land When Bought	Land Cost
A	Burbank Hill	3.00 Acres	1895	
B				
C				
D				

	Inside Diameter	Capacity in Gallons	When Bought	Cost
A	130'	1,500,000	1895	$25,802
B				
C				
D				

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
12	Cast Iron Ductile	1			1
10	Cast Iron	2			2
8	Cast Iron Ductile	22			22
6	Cast Iron Ductile	73			73
4	Cast Iron Ductile	54			54
3	Cast Iron	1			1
2 1/4	Cast Iron	7			7
2	Cast Iron	25			25
1 1/4	Cast Iron	0			0
1 1/2	Copper	0			0
3/4	Copper	1,464	4		1,460
3/4	Plastic	609			609
1	Copper	449		6	455
1	Plastic	504			504
1	Cement Lined	489			489
2	Plastic	29		1	30
2	Copper	2			2
	TOTALS	3,731	4	7	3,734

Also 11 residential services in the Town of Auburn that are included in the above totals

8. Average length of service pipe 27 feet

9. Average cost of service laid during the year $ 4,346

10. Percentage of services that are metered all except fire service

11. Percentage in income that is metered

12. Leaks in service during the year 4

13. Are service pipes paid for by consumer, in whole or in part and by what extent? Water company provides labor materials for installation up to 2 inch in size, customer provides all other requirements to install water service including materials over 2 inch in size.

410 Oxford

Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

DISTRIBUTION INFORMATION

6. Water towers or stand pipes

	Location	Land		
		Area	When Bought	Cost
A	N. Main St., Oxford , MA	1 Acre	1905	$319
B		13.4 Acres	1944	$438
C				
D				

	Inside Diameter	Capacity in Gallons	When Bought	
A	27	215,000	1905	
B				
C				
D				

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
12	Cast Iron Ductile	1			1
8	Cast Iron Ductile	4			4
6	Cast Iron Ductile	28			28
2 1/4	Cast Iron	10			10
2	Galv Iron	0			0
1 1/2	Copper	0			0
1 1/4	Copper	0			0
1	Copper	311		69	380
3/4	Copper	1,454	65		1,389
2	Cast Iron	5			5
4	Cast Iron Ductile	6			6
3/4	Plastic	229	1		228
1	Plastic	547			547
2	Plastic	32	1	2	33
1	Galv Iron	18			18
	TOTALS	2,645	67	71	2,649

8. Average length of service pipe: 27 feet

9. Average cost of service laid during the year: $ 3,030

10. Percentage of services that are metered: all except fire service

11. Percentage in income that is metered:

12. Leaks in service during the year: 5

13. Are service pipes paid for by consumer, in whole or in part and by what extent? Water company provides labor materials for installation up to 2 inch in size, customer provides all other requirements to install water service including materials over 2 inch in size.

411 Hingham

Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

DISTRIBUTION INFORMATION - Continued

14. Gates and valves

Nomial Diameter Inches	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			17
20	Butterfly Valves	18			18
16	Butterfly Valves	8			8
14	Butterfly Valves	5			5
12	Butterfly Valves	19			19
12	Check Valve	1			1
20	Gate Valves	11			11
16	Gate Valves	11			11
14	Gate Valves	18			18
12	Gate Valves	313			313
10	Gate Valves	34			34
8	Gate Valves	941		11	952
6	Gate Valves	818		4	822
4	Gate Valves	209	2		207
3	Gate Valves	1			1
2 1/4 - 2 1/2	Gate Valves	85	2		83
2	Gate Valves	202	7		195
1 1/2	Gate Valves	9			9
1 1/4	Gate Valves	17			17
1	Gate Valves	269	2		267
3/4	Gate Valves	80			80
	Totals	3,086	13	15	3,088

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

411 Millbury

Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

DISTRIBUTION INFORMATION - Continued

14. Gates and valves

Nomial Diameter Inches	Kind of Valves	Number in Use at Beginning of Year	Removed Since	Installed Since	Number in Use at Close of Year
16	Butterfly	2			2
16	Gate Valve	6			6
12	Gate Valve	72			72
10	Gate Valve	25			25
8	Gate Valve	247	1	1	247
6	Gate Valve	343			343
4	Gate Valve	3			3
3	Gate Valve	6			6
2 1/4	Gate Valve	30			30
2	Gate Valve	25			25
3/4	Gate Valve	2			2
	Totals	761	1	1	761

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

411 Oxford

Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

DISTRIBUTION INFORMATION - Continued

14. Gates and valves

Nomial Diameter Inches	Kind of Valves	Number in Use at Beginning of Year	Removed Since	Installed Since	Number in Use at Close of Year
16	Butterfly	5			5
16	Gate Valve	0			0
12	Gate Valve	61		11	72
10	Gate Valve	3			3
8	Gate Valve	178	1	31	208
6	Gate Valve	295	16		279
2 1/2	Gate Valve	18			18
2	Gate Valve	11			11
1 1/4	Gate Valve	2			2
1	Gate Valve	8			8
4	Gate Valve	1			1
	Totals	582	17	42	607

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

412 Hingham

Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

DISTRIBUTION INFORMATION - Continued

15. HYDRANTS.PUBLIC

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			0
5		446	20		426
5 1/4		466		18	484
TOTALS		912	20	18	910

16. Were all of the above hydrants purchases and installed at the expense of the company? NO

17. If not, under what arrangement were they purchases and installed? Customer/Town Purchased & Installed
Town Owned

18. HYDRANTS.PRIVATE

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			0
4 1/4		6			6
5		34			34
5 1/4		251		2	253
Metered		122			122
TOTALS		416	0	2	418

19. Were all of the above hydrants purchases and installed at the expense of the company? NO

20. If not, under what arrangement were they purchases and installed? Customer/Town Purchased & Installed

412 Millbury

Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

DISTRIBUTION INFORMATION - Continued

15. HYDRANTS.PUBLIC

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	25			25
5	2 - 2 1/2, 1- 4	1			1
5 1/4	2 - 2 1/2, 1- 4	59	1	1	59
4 1/4	2 - 2 1/2, 1- 4	65			65
4 1/2	2 - 2 1/2, 1- 4	61			61
4 3/4	2 - 2 1/2, 1- 4	8			8
4 1/4	2 - 2 1/2, 1- 4	1	Hydrant is located in town of Auburn		1
	TOTALS	220	1	1	220

16. Were all of the above hydrants purchases and installed at the expense of the company? NO

17. If not, under what arrangement were they purchases and installed? Hydrants installed on new main extensions are paid by developers.

18. HYDRANTS.PRIVATE

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	28			28
4 1/2	2 - 2 1/2, 1- 4	13			13
4 1/4	2 - 2 1/2, 1- 4	5			5
5 1/4	2 - 2 1/2, 1- 4	74		5	79
	TOTALS	120	0	5	125

19. Were all of the above hydrants purchases and installed at the expense of the company? NO

20. If not, under what arrangement were they purchases and installed? Customer Purchased

412 Oxford

Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

DISTRIBUTION INFORMATION - Continued

15. HYDRANTS.PUBLIC

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	28			28
4	3 - 2 1/2	0			0
4 1/4	2 - 2 1/2, 1- 4	3			3
4 1/2	2 - 2 1/2, 1- 4	69	7		62
5	2 - 2 1/2, 1- 4	5			5
4	2 - 2 1/2, 1- 4	1			1
5 1/4	2 - 2 1/2, 1- 4	80		7	87
	TOTALS	186	7	7	186

16. Were all of the above hydrants purchases and installed at the expense of the company? NO

17. If not, under what arrangement were they purchases and installed? Hydrants installed on new main extensions are paid for by developers.

18. HYDRANTS.PRIVATE

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	12			12
5 1/4	2 - 2 1/2, 1- 4	0			0
	TOTALS	12	0	0	12

19. Were all of the above hydrants purchases and installed at the expense of the company? NO

20. If not, under what arrangement were they purchases and installed? Customer Purchased

413 Hingham

Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

DISTRIBUTION INFORMATION - Continued

21. Meters owned by Company

Size inches	Number at Beginning of Year		Bought Since	Condemned Since and Removed	Number at Close of Year	
	In Use	On Hand			In Use	On Hand
1/2						
5/8	12,037	254	900	776	12,068	347
3/4	16	4	0	6	14	0
1	365	4	24	26	361	6
1 1/2	79	11	10	18	77	5
2	157	12	17	5	159	22
3	0	0			0	0
4	3	0			3	0
6	3	0	1	1	3	0
8	4	0			4	0
Totals	12,664	285	952	832	12,689	380

22. Has the plant been debited with the first cost of installing the meters in use at close of year, above stated? Yes

23. If so, was the cost the actual cost or some assumed or average cost? Actual

24. Are any of these meters paid for by consumers, and to what extent? None

413 Millbury

Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

DISTRIBUTION INFORMATION - Continued

21. Meters owned by Company

Size inches	Number at Beginning of Year		Bought Since	Condemned Since and Removed	Number at Close of Year	
	In Use	On Hand			In Use	On Hand
1/2						
5/8	3,521	36	338	319	3,575	1
3/4	1	0	0	1	0	0
1	58	3	8	7	59	3
1 1/2	17	4	3	2	17	5
2	45	2	2	1	45	3
3	1	0	0	0	1	0
4	4	0	0	0	4	0
5						
8						
Totals	3,647	45	351	330	3,701	12

22. Has the plant been debited with the first cost of installing the meters in use at close of year, above stated? Yes

23. If so, was the cost the actual cost or some assumed or average cost? Actual

24. Are any of these meters paid for by consumers, and to what extent? None

Company owned meters at pump stations:

Oak Pond Station 1-8" Honeywell Flow
#1 Jacques 1-8" Chessel Flow
#2 Jacques 1-8" Chessel Flow
5-1" mtrs for make up water - 1-Oak Pond, 1-#1 Jacques, 1-#2 Jacques, 2-Millbury Ave. Filter Plant
Millbury Ave. - 5-6" Primary Flow Signal Flow Meters
Millbury Ave. - 3-8" Primary Flow Signal Flow Meters

413 Oxford

Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

DISTRIBUTION INFORMATION - Continued

21. Meters owned by Company

Size inches	Number at Beginning of Year		Bought Since	Condemned Since and Removed	Number at Close of Year	
	In Use	On Hand			In Use	On Hand
1/2						
5/8	2,528	4	362	360	2,534	0
3/4	0	0	0	0	0	0
1	61	0	10	10	61	0
1 1/2	11	0	1	1	11	0
2	18	0	4	4	18	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	2,621	4	377	375	2,627	0

22. Has the plant been debited with the first cost of installing the meters in use at close of year, above stated? Yes

23. If so, was the cost the actual cost or some assumed or average cost? Actual

24. Are any of these meters paid for by consumers, and to what extent? None

Company owned meters N Main St. & #1A N. Main St.

N. Main St. #1 1-8" Chessel flow

N. Main St. #2 1-8" Chessel flow

Nelson St. #3 1-8" Chessel flow

2-1" Meter for make up water

#1N. Main St.

#3 Nelson St.

414 Hingham Year ended December 31, 2017

Annual report of Aquarion Water Company of Massachusetts

Distribution Information - Concluded

25. Meters owned by Company

		Size (inches)										
Maker	**Type**	**1/2**	**5/8**	**3/4**	**1**	**1 1/2**	**2**	**3**	**4**	**6**	**8**	**Total**
Neptune	Disc		12,343	14	361		173					12,891
Neptune	Turbine					82			1		2	85
Neptune	Compound						3		1		1	5
Neptune	Protectus									3		3
Badger	Turbine										1	1
Trident	Disc		72		6		5					83
Kent	Disc								1			1
Hersey	Turbine											-
Totals		0	12,415	14	367	82	181	0	3	3	4	13,069

414 Millbury

Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

Distribution Information - Concluded

25. Meters owned by Company

		Size										
Maker	Type	1/2	5/8	3/4	1	1 1/2	2	3	4	6	8	Total
Neptune	Disc		3,566	0	62	22	45	0				3,695
Badger	Disc		8									8
Neptune	Turbine								0			0
Kent	Disc		2									2
Rockwell	Disc											0
Sensus	Disc						2	1				3
Trident	Disc						1		4			5
Totals		0	3,576	0	62	22	48	1	4	0	0	3,713

414 Oxford

Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

Distribution Information - Concluded

25. Meters owned by Company

		Size										
Maker	Type	1/2	5/8	3/4	1	1 1/2	2	3	4	6	8	Total
Neptune	Disc		2,525	0	61	11	18					2,615
Badger	Disc		6									6
Neptune	Fullcrest									3		3
Rockwell	Disc											0
Kent	Disc		3									3
Neptune	Protectus											0
Totals		0	2,534	0	61	11	18	0	0	3	0	2,627

415 Hingham

Annual report of Aquarion Water Company of Massachusetts American Water Company Year ended December 31, 2017

CONSUMPTION INFORMATION

	Permanent	Seasonal
1. Estimated total population of territory covered by franchise	34,064	44,481
2. Estimated population reached by the distribution system,	34,064	44,481
3. Estimated population actually supplied,	34,064	44,481

4. Total consumption during the year (1)	1,184,373,430	gallons
5. Average daily consumption (2)	3,244,859	gallons
6. Day on which greatest amount was pumped	August 16, 2017	
7. Gallons pumped on above day	5,268,015	gallons
8. Week during which greatest amount was pumped	July 16 - July 22	
9. Gallons pumped during above week	4,741,140	gallons
10. Gallons per day per service (3)	197	gallons
11. Consumption metered	913,744,000	gallons
12. Consumption metered	77.00%	Percent of total consumption

13. Customers

Number being Supplied at Beginning of Year	Disconnected Since	Connected Since	Number being Supplied at Close of Year
13,141	0	27	13,168

Name of City, Town or District	Number of Customers as of December 31, 2017
Hingham	8,196
Hull	4,638
Cohasset	334

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

415 Millbury

Annual report of Massachusetts American Water Company **Year ended December 31, 2017**

CONSUMPTION INFORMATION

1. Estimated total population of territory covered by franchise,	13,261	
2. Estimated population reached by the distribution system,	8,677	
3. Estimated population actually supplied,	8,677	
4. Total consumption during the year (1)	589,789,800	gallons
5. Average daily consumption (2)	1,615,862	gallons
6. Day on which greatest amount was pumped	August 20, 2017	
7. Gallons pumped on above day	2,540,000	gallons
8. Week during which greatest amount was pumped	August 21-August 27	
9. Gallons pumped during above week	13,545,000	gallons
10. Gallons per day per service (3)	373	gallons
11. Consumption metered	503,623,000	gallons
12. Consumption metered	85.39%	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
3,817		113	3,930

Name of City, Town or District	Number of Customers as of December 31, 2017
Millbury	3,930

(1) Represents Total Water Production During the Year
(2) Represents Average Daily Production
(3) Represents Metered Consumption per day per Customer, excluding Fire Services.

415 Oxford

Annual report of Massachusetts American Water Company **Year ended December 31, 2017**

CONSUMPTION INFORMATION

1. Estimated total population of territory covered by franchise,	11,877	
2. Estimated population reached by the distribution system,	6,130	
3. Estimated population actually supplied,	6,130	
4. Total consumption during the year (1)	233,516,000	gallons
5. Average daily consumption (2)	639,770	gallons
6. Day on which greatest amount was pumped	September 10, 2017	
7. Gallons pumped on above day	1,230,000	gallons
8. Week during which greatest amount was pumped	June 12 - June 18	
9. Gallons pumped during above week	6,216,000	gallons
10. Gallons per day per service (3)	196	gallons
11. Consumption metered	187,657,000	gallons
12. Consumption metered	80.36%	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
2,668		6	2,674

Name of City, Town or District	Number of Customers as of December 31,2017
Oxford	2,674

(1) Represents Total Water Production During the Year
(2) Represents Average Daily Production
(3) Represents Metered Consumption per day per Customer, excluding Fire Services.

THIS RETURN IS SIGNED UNDER THE PENALTIES OF PERJURY

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 Connecticut
County of Fairfield as March 3, 2018

Then personally appeared Donald J. Morrissey, Executive Vice President, Treasurer, Secretary, Clerk, and Director of Aquarion Water Company of Massachusetts, and Charles V. Fiblatt, Director of Aquarion Water Company of Massachusetts

and severally made oath to the truth of the foregoing statement by them subscribed according to their best knowledge and belief.

Shawna Salato
Signature

Notary Public or
Justice of the Peace

Expiration of Commission

Shawna Salato
NOTARY PUBLIC
My Commission Expires July 31, 2022

416

Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2017**

CONSUMPTION INFORMATION - Concluded

By Meter… SEE ATTACHED RATE TARIFF SHEETS DATED JANUARY 1, 2015

……

……

……

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 payment and what fines are charged for delayed payment……

……

……

Are payments required in advance?……

When are meters read and bills rendered?……

Aquarion Water Company of Massachusetts

Original Sheet No. 22

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

RATE G1 - 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

RATE G2 - 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

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 $2.239

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 $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	Service Charge 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.

Issued: April 1,2012

Effective: April 1, 2012

By: _____
Donald J. Morrissey

Title: Vice President, Treasurer

Aquarion Water Company of Massachusetts

M.D.P.U. No. 2-A
Original Sheet No. 23

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:

Rate Per Thousand Gallons(KGAL):

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

RATE G1 - 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 $2.815
Over 9 KGAL per Quarter/ 3 KGAL per Month $3.528

RATE G2- 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.

	Service Charge	
Size of Meter	**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.

Issued: April 1,2012
Effective: April 1,2012

By: Donald J. Morrissey
Title: Vice President, Treasurer

Aquarion Water Company of Massachusetts

M.D.P.U. No. 24
Original Sheet No. 24

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.

RATE

	Per Year
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
For each privately owned fire hydrant serving Cohasset, Hingham, Hull, Millbury and Oxford	$ 735.39
For 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

Effective: April 1,2012

By: Donald J. Unger

Title: Vice President, Treasurer

Aquarion Water Company of Massachusetts

M.D.P.U. No. 2-A
Original Sheet No. 25

RATE FOR PUBLIC FIRE PROTECTION

AVAILABILITY

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	$ 354,424.00
Town of Hull	$ 203,951.00
Town of Cohasset	$ 16,788.00
Town of Millbury	$ 143,013.00
Town of Oxford	$ 99,487.00

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

Effective: April 1,2012

By: _____

Title: Vice President, Treasurer

SALE FOR RESALE

AVAILABILITY
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.

Example: given a minimum monthly billing of 500,000 gallons, the minimum charge Would be $2.00 x 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.

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 Size**	Capacity GPM	Ratio to 5/8" Meter	Fee
5/8"	20	1.00	$640
3/4"	30	1.50	$960
1"	50	2.50	$1,600
1 ½"	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".

Aquarion Water Company of Massachusetts

M.D.P.U. No. 2-A
Original Sheet No. 28

OTHER SERVICES

AVAILABILITY

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 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

By: Donald J Mun

Effective: April 1,2012

Title: Vice President, Treasurer

Aquarion Water Company of Massachusetts

M.D.P.U. No. 25A
First Revised Sheet No. 20

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

Size of Meter	Service Charge Per Month	Service Charge Per Quarter
5/8"	10.25	$30.75
3/4"	$15.59	$46.77
1"	$25.01	$75.03
1 1/2"	$48.79	$146.37
2"	$77.28	$231.84
3"	$143.91	$431.73
4"	$238.52	$715.56
6"	$476.11	$1,428.33
8"	$761.47	$2,284.41

Consumption Charge per 100 cubic feet for Water Treatment Facility Lease $0.7342

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

By: Donald J. Morris

Effective: November 1, 2012

Title: Vice President, Treasurer

Aquarion Water Company of Massachusetts

M.D.P.U. No. 2-A
Original Sheet No. 30

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

By: _____

Effective: April 1,2012

Title: Vice President, Treasurer

Aquarion Water Company of Massachusetts, Inc.

M.D.P.U. No. 2, First Revised Sheet No. 31, Cancelling Original Sheet No. 31

The following Tangible Property Regulation ("TPR") surcharge is applicable to all metered and fire service customers located within the Company's franchise area.

The surcredit reflected below is being made by Aquarion Water Company of Massachusetts, Inc. (the "Company") through a tax benefit to the Company by the Internal Revenue Service ("IRS") pursuant to IRS Revenue Procedure 2014-16 ("Procedure"). The Procedure allows the Company to adopt an alternative method for determining how capital expenditures can be treated for federal tax purposes, allowing certain expenditures that were historically considered as capital for tax purposes to be treated as expenses for tax purposes.

The surcredit is a result of the Company's adoption of this alternative tax treatment related to mains, services and hydrants.

In the event that the IRS subsequently disallows all or part of the TPR credit that the Company has or was expecting to credit to customers, then, to the extent that the total amount that has been approved by the Department as the basis of the surcredit to customers is different than the amount allowed by the IRS:

a. Within ten days of the receipt by the Company of a formal notice from the IRS adjusting the amount of the TPR credit, the Company shall make a compliance filing with the Department reconciling the amount of the surcredit to customers' bills in order to reflect the amount of any such IRS adjustment on a going forward basis and the surcredit shall be adjusted or, in the case of complete disallowance by the IRS, eliminated; and.

b. The Company shall be authorized to defer on its accounting and financial records and include for recovery or refund in its next general rate application the amount that has been passed back to customers through the surcredit that is different from that amount allowed by the IRS.

SURCREDIT

The surcredit reduces customer rates by $410,000 or approximately 3.23 percent per customer and shall be applied over a twelve (12) month period.

TERMS OF SURCREDIT

The surcredit will apply for a period of 12 months, beginning on January 1, 2015. The surcredit shall not apply to the water treatment facility surcharges for the Company's Service Area A.

Issued: December 19, 2014

Effective: January 1, 2015

By: Troy M. Dixon

Title: Director, Rates and Regulation