

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, 2018

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

Debra Kirven

Official Title
Controller

Office Address: **600 Lindley Street**

Bridgeport, CT 06606

General Information

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 | \$447,599.37 * \$23,263.81 charged to MA. |
| Executive Vice President, Treasurer, Secretary and Clerk | Donald J. Morrissey | Aquarion Water Company 835 Main St., Bridgeport, CT 06604 | \$312,934.08 * \$16,993.62 charged to MA. |
| Vice President of Operations | John P. Walsh | Aquarion Water Company of Massachusetts, Inc. 835 Main St., Bridgeport, CT 06604 | \$224,949.96 * \$25,925.87 charged to MA. |
| Vice President Corporate Communications | Bruce T. Silverstone | Aquarion Water Company 835 Main St., Bridgeport, CT 06604 | \$183,137.97 * \$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."

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 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 | <u>\$63,842</u> |
| Aquarion Water Company of Connecticut | <u>\$1,440,105</u> |

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 Massachusetts NONE

17. Amount of stock held in Massachusetts, number of shares _____, amount N/A

| 200 | | | | |
|---|----------------------------------|--|------------------------------|----------------------------|
| Annual Report of Aquarion Water Company of Massachusetts | | | Year ended December 31, 2018 | |
| COMPARATIVE GENERAL BALANCE SHEET | | | | |
| The entries in this balance sheet should be consistent 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 | \$ 76,306,764 | 101-113 Plant Investments (p202) | \$ 78,735,475 | \$ 2,428,711 |
| 3 | \$ 2,706,416 | 114-119 General Equipment (p202) | \$ 2,901,060 | \$ 194,644 |
| 4 | \$ 331,179 | 201 Unfinished Construction(p202) | \$ 1,202,208 | \$ 871,029 |
| 5 | \$ 1,401 | 202 Miscellaneous Physical Property (p203) | \$ 1,401 | \$ - |
| 6 | \$ 41,478 | 203 Other Investments (p203) | \$ 72,914 | \$ 31,436 |
| 7 | \$ 79,387,238 | Total Investments | \$ 82,913,059 | \$ 3,525,820 |
| 8 | | CURRENT ASSETS | | |
| 9 | \$ 303 | 204 Cash | \$ 180 | \$ (123) |
| 10 | \$ - | 205 Special Deposits | \$ - | \$ - |
| 11 | \$ 41,671 | 206 Notes Receivable | \$ - | \$ (41,671) |
| 12 | \$ 1,013,544 | 207 Accounts Receivable | \$ 1,406,924 | \$ 393,380 |
| 13 | \$ - | 208 Interest and Dividends Receivable | \$ - | \$ - |
| 14 | \$ 283,022 | 209 Materials and Supplies | \$ 387,946 | \$ 104,923 |
| 15 | \$ 2,380,455 | 210 Other Current Assets | \$ 2,468,780 | \$ 88,325 |
| 16 | \$ 3,718,995 | Total Current Assets | \$ 4,263,830 | \$ 544,835 |
| 17 | | RESERVE FUNDS | | |
| 18 | \$ - | 211 Sinking Funds | \$ - | \$ - |
| 19 | \$ - | 212 Insurance and Other Funds | \$ - | \$ - |
| 20 | \$ - | Total Reserve Funds | \$ - | \$ - |
| 21 | | PREPAID ACCOUNTS | | |
| 22 | \$ 8,780 | 213 Prepaid Insurance | \$ 14,798 | \$ 6,018 |
| 23 | \$ - | 214 Prepaid Interest | \$ - | \$ - |
| 24 | \$ 33,684 | 215 Other Prepayments | \$ 39,666 | \$ 5,983 |
| 25 | \$ 42,464 | Total Prepaid Accounts | \$ 54,464 | \$ 12,001 |
| 26 | | UNADJUSTED DEBITS | | |
| 27 | \$ 109,076 | 216 Unamortized Dept Discount Exp (p203) | \$ 83,685 | \$ (25,391) |
| 28 | \$ - | 217 Property Abandoned | \$ - | \$ - |
| 29 | \$ 9,333,854 | 218 Other Unadjusted Debits (p203) | \$ 7,614,682 | \$ (1,719,172) |
| 30 | \$ 9,442,930 | Total Unadjusted Debits | \$ 7,698,367 | \$ (1,744,563) |
| 31 | | | | |
| 32 | \$ 92,591,627 | GRAND TOTAL | \$ 94,929,720 | \$ 2,338,094 |

| 201 | | | | |
|---|----------------------------------|--|------------------------------|----------------------------|
| Annual Report of Aquarion Water Company of Massachusetts | | | Year ended December 31, 2018 | |
| COMPARATIVE GENERAL BALANCE SHEET | | | | |
| The entries in this balance sheet should be consistent 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 | \$ 18,630,000 | 305 Bonds (p. 204) | \$ 18,440,000 | \$ (190,000) |
| 13 | | 306 Coupon and Long Term Notes (p. 204) | \$ - | \$ - |
| 14 | \$ 18,630,000 | Total Bonds, Coupon and Long Term Notes | \$ 18,440,000 | \$ (190,000) |
| 15 | | | | |
| 16 | | CURRENT LIABILITIES | | |
| 17 | \$ 3,200,000 | 307 Notes Payable (p. 205) | \$ 6,423,210 | \$ 3,223,210 |
| 18 | \$ 650,190 | 308 Accounts Payable | \$ 1,336,770 | \$ 686,580 |
| 19 | \$ 1,356 | 309 Consumers' Deposits | \$ 1,242 | \$ (114) |
| 20 | \$ - | 310 Matured Interest Unpaid | \$ - | \$ - |
| 21 | \$ - | 311 Dividends Declared | \$ - | \$ - |
| 22 | \$ - | 312 Other Current Liabilities | \$ - | \$ - |
| 23 | \$ 3,851,546 | Total Current Liabilities | \$ 7,761,222 | \$ 3,909,675 |
| 24 | | | | |
| 25 | | ACCRUED LIABILITIES | | |
| 26 | \$ (91) | 313 Tax Liability | \$ - | \$ 91 |
| 27 | \$ 152,639 | 314 Interest Accrued | \$ 152,639 | \$ - |
| 28 | \$ 124,209 | 315 Other Accrued Liabilities | \$ 205,540 | \$ 81,331 |
| 29 | \$ 276,757 | Total Accrued Liabilities | \$ 358,179 | \$ 81,422 |
| 30 | | | | |
| 31 | | UNADJUSTED CREDITS | | |
| 32 | \$ 32,739 | 316 Premium on Bonds (p. 205) | \$ 26,955 | \$ (5,784) |
| 33 | \$ 13,036,450 | 317 Other Unadjusted Credits (p. 205) | \$ 10,415,531 | \$ (2,620,919) |
| 34 | | | | |
| 35 | \$ 13,069,189 | Total Unadjusted Credits | \$ 10,442,486 | \$ (2,626,703) |
| 36 | | | | |
| 37 | | RESERVES | | |
| 38 | \$ - | 318 Insurance and Casualty Reserve | \$ - | \$ - |
| 39 | \$ 20,049,179 | 319 Depreciation Reserve (p. 206) | \$ 21,167,116 | \$ 1,117,937 |
| 40 | \$ 7,515,146 | 320 Other Reserves | \$ 7,656,874 | \$ 141,728 |
| 41 | \$ 27,564,325 | Total Reserves | \$ 28,823,990 | \$ 1,259,665 |
| 42 | | | | |
| 43 | | APPROPRIATED SURPLUS | | |
| 44 | \$ - | 321 Sinking Fund Reserves | \$ - | \$ - |
| 45 | \$ 12,424,782 | 323 Contributions for Extensions | \$ 12,266,856 | \$ (157,926) |
| 46 | \$ 3,844,050 | 324 Surplus Invested in Plant | \$ 3,844,050 | \$ - |
| 47 | \$ 16,268,832 | Total Appropriated Surplus | \$ 16,110,906 | \$ (157,926) |
| 48 | | | | |
| 49 | \$ 8,038,428 | 400 Profit and Loss Balance (p. 301) + | \$ 8,100,386 | \$ 61,958 |
| 50 | \$ 24,307,260 | Total Corporate Surplus + | \$ 24,211,292 | \$ (95,968) |
| 51 | \$ 92,591,627 | GRAND TOTAL | \$ 94,929,720 | \$ 2,338,092 |

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 | 17,012,045 | 107,390 | - | - | 17,119,435 |
| 8 | Pumping Plant Equipment | 2,035,187 | 367,419 | - | - | 2,402,605 |
| 9 | Misc. Pumping Plant Equipment | 117,646 | - | - | - | 117,646 |
| 10 | Purification System | 4,015,991 | 256,256 | - | - | 4,272,247 |
| 11 | Trans'n and Dist'n Mains | 40,298,049 | 1,940,740 | (239,635) | - | 41,999,153 |
| 12 | Services | 7,654,570 | 296,734 | - | - | 7,951,304 |
| 13 | Consumers' Meters | 2,642,696 | 234,948 | (646,231) | - | 2,231,413 |
| 14 | Consumers' Meter Installation | 672,540 | - | - | - | 672,540 |
| 15 | Hydrants | 636,291 | 50,682 | - | - | 686,973 |
| 16 | Fire Cist'ns, Basins, Fount'ns | | | | | - |
| 17 | Water Rights | | | | | - |
| 18 | Other Trans'n & Dist'n Plant | 895,310 | 60,409 | - | - | 955,719 |
| 19 | Miscellaneous Expenditures | | | | | - |
| 20 | Total Plant Investment | 76,224,169 | 3,314,577 | (885,866) | - | 78,652,880 |
| 21 | GENERAL EQUIPMENT | | | | | |
| 22 | Office Equipment | 1,348,567 | 102,282 | - | - | 1,450,849 |
| 23 | Shop Equipment | 294,687 | 5,949 | - | - | 300,636 |
| 24 | Stores Equipment | 133,892 | - | - | - | 133,892 |
| 25 | Transportation Equipment | 631,252 | 128,328 | (41,915) | - | 717,664 |
| 26 | Laboratory Equipment | 34,674 | - | - | - | 34,674 |
| 27 | Miscellaneous Equipment | 263,345 | - | - | - | 263,345 |
| 28 | Total General Equipment | 2,706,416 | 236,559 | (41,915) | - | 2,901,060 |
| 29 | Unfinished Construction | 331,179 | 1,119,053 | - | (248,024) | 1,202,208 |
| 30 | Total Cost of All Property | 79,344,359 | 4,670,189 | (927,781) | (248,024) | 82,838,743 |
| 31 | Assessed Value of Real Estate | 17,255,890 | 107,390 | - | - | 17,363,280 |
| 32 | Assessed Value of Other Property | 61,674,695 | 3,443,746 | (927,781) | - | 64,190,660 |
| 33 | Total Assessed Value | 78,930,585 | 3,551,136 | (927,781) | - | 81,553,940 |

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.

| 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) |
|----------|---|-------------------------------|--------------------------|--------------------------|------------------------------|
| 6 | Investment in CoBank, ACB | \$41,478 | \$31,436 | | \$72,914 |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| | Total | | | | \$72,914 |

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 expense incurred in connection with the issue, the word "Discount" should be erased. Entries in Col (d) should be consistent with the returns made on page 301, Schedules of Income and Profit and Loss.

| Line No. | 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% | \$ 17,501 | | \$ 2,958 | \$ 14,543 |
| 11 | General Mtg Bonds 9.64% | \$ 8,593 | | \$ 2,148 | \$ 6,445 |
| 12 | MA Water Pollution Abatement Trust Loan - 0.0% | \$ 16,668 | | \$ 2,985 | \$ 13,682 |
| 13 | CoBank, ACB Swap Variable Rate | \$ 66,314 | \$ - | \$ 17,299 | \$ 49,015 |
| 14 | | | | | |
| 15 | TOTALS | \$ 109,076 | \$ - | \$ 25,391 | \$ 83,685 |

OTHER UNADJUSTED DEBITS

Give an analysis of the above-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.

| Line No. | 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 | \$ 3,303,786 | \$ 813,074 | \$ 1,117,025 | \$ 2,999,835 |
| 17 | Deferred Pension | \$ 1,561,432 | \$ 32,414 | \$ 22,236 | \$ 1,571,610 |
| 22 | FAS 158 Deferred Debits | \$ 4,157,758 | \$ 612,786 | \$ 2,832,692 | \$ 1,937,852 |
| 23 | Deferred Well Maintenance | \$ 98,534 | \$ 13,490 | \$ 61,268 | \$ 50,755 |
| 24 | Deferred Rate Case | \$ 173,249 | \$ 402,492 | \$ 188,268 | \$ 387,472 |
| 25 | Deferred Tank Painting | \$ 39,095 | \$ 604,638 | \$ 25,034 | \$ 618,699 |
| 26 | Unrealized (gain) loss on swap | \$ - | \$ 48,459 | \$ - | \$ 48,459 |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| 31 | | | | | |
| 32 | | | | | |
| 33 | | | | | |
| 34 | | | | | |
| 35 | TOTALS | \$ 9,333,854 | \$ 2,527,353 | \$ 4,246,524 | \$ 7,614,682 |

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. | Description (a) | Number of Shares Authorized (b) | Par Value of One Share (c) | Amount of Capital Stock Authorized (d) | Amount Actually Outstanding 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 |
| 2 | Preferred | | | | | |
| 3 | Employee | | | | | |
| 4 | | | | | | |
| 5 | Totals | | | | \$ 5,000,000 | \$ 3,757,100 |

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 consistent 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 | \$ 1,040,000 | \$ 1,040,000 | 0.00% | - | \$ - | \$ - |
| 10 | General Mortgage - swap loan | 11/11 | 11/21 | \$ 9,000,000 | \$ 9,000,000 | 4.11% | Feb/May/Aug/Nov | \$ 375,038 | \$ 375,038 |
| 11 | Total Bonds | | | \$ 18,440,000 | \$ 18,440,000 | | | \$ 1,049,698 | \$ 1,049,698 |
| 12 | Coupon and Long Term Notes: | | | | | | | | |
| 13 | | | | | | | | | |
| 14 | | | | | | | | | |
| 15 | | | | | | | | | |
| 16 | | | | | | | | | |
| 17 | Total Coupon & Long Term Notes | | | | | | | | |
| 18 | Grand Total | | | | | Totals | \$ 1,049,698 | \$ 1,049,698 | |

SUNDRY CURRENT LIABILITIES

NOTES PAYABLE

| Line No. | Name of Creditor (a) | Date of Issue (b) | Date of Maturity (c) | How Secured (d) | Rate of Interest (e) | Amount (f) |
|----------|----------------------|-------------------|----------------------|-----------------|----------------------|---------------------|
| 1 | Aquarion Company | | | | | \$ 6,423,210 |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | TOTAL | \$ 6,423,210 |

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 | \$ 32,739 | | \$ 5,784 | \$ 26,955 |
| 10 | | | | | |
| 11 | | | | | |
| 12 | TOTALS | | | | \$ 26,955 |

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 | | \$ 943,457 |
| 14 | Deferred OPEB | | \$ 596,686 |
| 15 | Funded pension contribution | | \$ 3,929,604 |
| 16 | Unrealized (gain) loss on swap | | \$ - |
| 17 | Tax benefit due ratepayer | | \$ 3,939,833 |
| 18 | Deferred OPEB costs | | \$ 1,005,951 |
| 19 | Other deferred credits | | \$ - |
| 20 | | | |
| 21 | | | |
| 22 | | | |
| 23 | | Total | \$ 10,415,531 |

DEPRECIATION RESERVE

| Line No. | (a) | Amount (b) |
|----------|---|---------------------|
| 1 | Balance at beginning of year | \$ 20,049,179 |
| 2 | Credits to Depreciation Reserve during year: | |
| 3 | Account 610-10 Depreciation | 2,285,109 |
| 4 | Other Accounts (Specify): | |
| 5 | Loss of Disposition of Assets | |
| 6 | Depreciation charged to contributed property schedule | |
| 7 | Other Accounts (Specify): | 4,833.00 |
| 8 | CHARGES DURING YEAR | \$ 2,289,942 |
| 9 | Net Charges for Plant Retired: | |
| 10 | Book Cost of Plant Retired | \$ 927,781 |
| 11 | Cost of Removal | 248,024 |
| 12 | Salvage (credit in red) | (3,800) |
| 13 | NET CHARGES DURING YEAR | \$ 1,172,005 |
| 14 | Balance at end of year | \$ 21,167,116 |

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 | | |

| 301 | | | | |
|--|-----------|--|---------------------|------------------------------------|
| Annual Report of Aquarion Water Company of Massachusetts | | | | Year ended December 31, 2018 |
| INCOME STATEMENT FOR THE YEAR | | | | |
| Give the Income Account of the respondent for the year ended December 31, 2018 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) | \$ 16,328,327 | \$ 516,985 |
| 3 | 600 | Operating Expenses (p. 303) | \$ 14,235,436 | \$ 1,064,570 |
| 4 | | Net Operating Revenues | \$ 2,092,891 | \$ (547,585) |
| 5 | 550 | Uncollectible Operating Revenues | \$ 29,684 | \$ 35,697 |
| 6 | 551 | Taxes (p. 303B) | \$ 1,092,676 | \$ (254,014) |
| 7 | | Net Operating Income | \$ 970,531 | \$ (329,268) |
| 8 | | NON-OPERATING INCOME | | |
| 9 | 560 | Mdse. and Jobbing Revenue* | \$ 50,744 | \$ (8,013) |
| 10 | 561 | Rent from Appliances | \$ - | \$ - |
| 11 | 562 | Miscellaneous Rent Income | \$ - | \$ - |
| 12 | 563 | Interest and Dividend Income | \$ - | \$ - |
| 13 | 564 | MWPAT Loan - Net Subsidy | \$ 36,569 | \$ 6,583 |
| 14 | 565 | MWPAT Amortization of Debt Premium | \$ 5,784 | \$ - |
| 15 | 566 | Miscellaneous Non-operating Income | \$ 142,618 | \$ 5,037 |
| 16 | | Total Non-operating Income | \$ 235,715 | \$ 3,608 |
| 17 | | GROSS INCOME | \$ 1,206,246 | \$ (325,660) |
| 18 | | DEDUCTIONS FROM GROSS INCOME | | |
| 19 | 575 | Miscellaneous Rents | \$ - | \$ - |
| 20 | 576 | Interest on Bonds and Coupon Notes | \$ 1,174,719 | \$ 54,855 |
| 21 | 577 | Miscellaneous Interest Deductions | \$ - | \$ - |
| 22 | 578 | Amortization of Discount (p. 203) | \$ 25,391 | \$ (0) |
| 23 | 579 | Miscellaneous Deductions from Income | \$ 32,210 | \$ (10,819) |
| 24 | | Total Deductions from Gross Income | \$ 1,232,320 | \$ 44,036 |
| 24 | | Income Balance transferred to Profit and Loss | \$ (26,073) | \$ (369,695) |
| 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) | | \$ 8,038,428 |
| 28 | 402 | Credit Balance transferred from Income Acct. (p.301) | | \$ - |
| 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) | \$ 26,073 | |
| 33 | 413 | Accumulated other comprehensive gain on swap | \$ - | \$ 88,031 |
| 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 | | \$ 61,958 |
| | | TOTALS | | \$ 8,100,386 |
| (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. | | | | |

OPERATING REVENUES

State the operating revenues of the respondent for the year ended December 31, 2018, 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 | \$ 14,687,264 | \$ 491,735 |
| 3 | 502 | Flat-rate Sales to General Consumers | \$ 672,763 | \$ 3,310 |
| 4 | 503 | Sales to Other Water Companies | \$ - | \$ - |
| 5 | 504 | Municipal Hydrants | \$ 913,561 | \$ 19,577 |
| 6 | 505 | Miscellaneous Municipal Revenues | \$ - | \$ - |
| 7 | | Total Revenues from Water Operations | \$ 16,273,588 | \$ 514,623 |
| 8 | | MISCELLANEOUS REVENUES | | |
| 9 | 506 | Rent from Property used in Operation | \$ - | \$ - |
| 10 | 507 | Miscellaneous Operating Revenues | \$ 54,739 | \$ 2,360 |
| 11 | | Total Revenues from Miscellaneous Operator | \$ 54,739 | \$ 2,360 |
| 12 | | Total Operating Revenues | \$ 16,328,327 | \$ 516,983 |

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 | | Amount of Capital Stock on which Dividend was Declared (d) | Amount of Dividend (e) | DATE | |
|----------|--|----------------|--------------|---|---------------------------|----------|---------|
| | | Regular (b) | Extra (c) | | | Declared | Payable |
| 13 | Common Stock | | | | \$ - | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |
| 23 | | | | | | | |
| 24 | Totals | | | | \$ - | | |

Annual Report of Aquarion Water Company of Massachusetts

Year ended December 31, 2018

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, 2018 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 | \$ - | \$ - |
| 3 | 601-2 | Maintenance of Surface Source of Supply Facilities | \$ - | \$ - |
| 4 | 601-3 | Maintenance of Ground Source of Water Supply | \$ 402,973 | \$ (59,711) |
| 5 | | Total Source of Water Supply Expenses | \$ 402,973 | \$ (59,711) |
| 6 | 602 | Water Purchased for Resale | \$ 5,763 | \$ (54,743) |
| 7 | | PUMPING EXPENSES | | |
| 8 | 603-1 | Pumping Labor | \$ 207,627 | \$ 47,218 |
| 9 | 603-2 | Boiler Fuel | \$ - | \$ - |
| 10 | 603-3 | Water for Steam | \$ - | \$ - |
| 11 | 603-4 | Electric Power Purchased | \$ 688,534 | \$ 35,366 |
| 12 | 603-5 | Miscellaneous Pumping Station Supplies and Expenses | \$ 153,658 | \$ 46,526 |
| 13 | 604-1 | Maintenance Power Pumping Buildings and Fixtures | \$ 34,246 | \$ 16,053 |
| 14 | 604-2 | Maintenance of Pumping Equipment | \$ 73,760 | \$ (35,683) |
| 15 | 604-3 | Maintenance of Miscellaneous Pumping Plant Equipment | \$ - | \$ - |
| 16 | | Total Pumping Expenses | \$ 1,157,825 | \$ 109,480 |
| 17 | | PURIFICATION EXPENSES | | |
| 18 | 605-1 | Purification Labor | \$ 375,344 | \$ 31,056 |
| 19 | 605-2 | Purification Supplies and Expenses | \$ 3,719,732 | \$ 243,625 |
| 20 | 606-1 | Maintenance of Purification Buildings and Fixtures | \$ 26,852 | \$ (14,964) |
| 21 | 606-2 | Maintenance of Purification Equipment | \$ 259,003 | \$ (39,688) |
| 22 | | Total Purification Expenses | \$ 4,380,931 | \$ 220,029 |
| 23 | | TRANSMISSION AND DISTRIBUTION EXPENSES | | |
| 24 | 607 | Inspecting Customers' Installation | \$ 24,344 | \$ 15,503 |
| 25 | 608 | Miscellaneous Trans. and Dist. Supplies and Expenses | \$ 771,018 | \$ 75,395 |
| 26 | 609-1 | Maintenance of Trans. and Dist. Buildings and Fixtures | \$ 3,668 | \$ 1,057 |
| 27 | 609-2 | Maintenance of Trans. and Dist. Mains | \$ 533,983 | \$ 227,895 |
| 28 | 609-3 | Maintenance of Storage, Reservoirs, Tanks and Standpipes | \$ 29,234 | \$ 24,623 |
| 29 | 609-4 | Maintenance of Services | \$ 128,624 | \$ (99,685) |
| 30 | 609-5 | Maintenance of Meters | \$ 113,426 | \$ (13,732) |
| 31 | 609-6 | Maintenance of Hydrants | \$ 9,925 | \$ (21,192) |
| 32 | 609-7 | Maintenance of Fountains and Troughs | \$ - | \$ - |
| 33 | | Total Trans. and Dist. Expenses | \$ 1,614,222 | \$ 209,865 |
| 34 | | GENERAL AND MISCELLANEOUS EXPENSES | | |
| 35 | 610-1 | Salaries of General Officers and Clerks | \$ 528,890 | \$ 12,467 |
| 36 | 610-2 | General Office Supplies and Expenses | \$ 1,985,864 | \$ 177,305 |
| 37 | 610-3 | Law Expense - General | \$ 243,606 | \$ (26,867) |
| 38 | 610-4 | Insurance | \$ 829,535 | \$ (34,552) |
| 39 | 610-5 | Accidents and Damages | \$ - | \$ - |
| 40 | 610-6 | Store Expenses | \$ - | \$ - |
| 41 | 610-7 | Transportation Expenses | \$ 17,023 | \$ (1,522) |
| 42 | 610-8 | Inventory Adjustments | \$ - | \$ - |
| 43 | 610-9 | Maintenance of General Structures | \$ - | \$ - |
| 44 | 610-10 | Depreciation | \$ 2,030,912 | \$ 77,811 |
| 45 | 610-11 | Miscellaneous General Expenses | \$ 1,037,892 | \$ 435,009 |
| 46 | | Total General and Miscellaneous Expenses | \$ 6,673,722 | \$ 639,651 |
| 47 | | GRAND TOTAL OPERATING EXPENSES | \$ 14,235,436 | \$ 1,064,571 |

303B**Annual Report of Aquarion Water Company of Massachusetts****Year ended December 31, 2018****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, 2018 classifying them in accordance with the Uniform System of Accounts.

| Line No. | Kind of Tax (a) | Federal | State | Municipal | Total |
|-----------------|------------------------|------------------|--------------------|---------------------|---------------------|
| 48 | FIT | \$ (152,398) | | | \$ (152,398) |
| 49 | FICA | \$ 182,025 | | | \$ 182,025 |
| 50 | FUTA | \$ 1,170 | | | \$ 1,170 |
| 51 | Property Tax | | | \$ 1,115,816 | \$ 1,115,816 |
| 52 | SUTA | | \$ 6,925 | | \$ 6,925 |
| 53 | SIT | | \$ (60,953) | | \$ (60,953) |
| 54 | Other General Taxes | | \$ 91 | | \$ 91 |
| 55 | | | | | |
| 56 | | | | | |
| 57 | | | | | |
| 58 | | | | | |
| 59 | | | | | |
| 60 | TOTALS | \$ 30,797 | \$ (53,937) | \$ 1,115,816 | \$ 1,092,676 |

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**

..... as

Then personally appeared

.....

.....

.....

.....

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

Signature

Expiration of Commission

Notary Public or
Justice of the Peace

| 400 | | | | |
|--|------------------------------------|---------------|---|------------------------------|
| Annual report of Aquarion Water Company of Massachusetts | | | | Year ended December 31, 2018 |
| Real Estate Information - Hingham | | | | |
| 1. Land owned by the Company | | | | |
| | Location | | Use | |
| A | Whiting Street, Accord Pond | | Surface water supply, pump station, elevated tank Water Pump Station Well Pump Stations Standpipe Well Pump Stations Well Pump Stations Well Pump Stations | |
| B | South Pleasant Avenue Fulling Mill | | | |
| C | Free Street | | | |
| D | Turkey Hill Lane | | | |
| E | Downing Street | | | |
| F | Scotland Street | | | |
| G | Prospect Street | | | |
| | 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 Storehouse and Garage Outlet Structure and Pump Station Well Pump Stations Well Pump Stations Filter Building And Garage, Well Pump Station Well Pump Stations Well Pump Stations Well Pump Stations | |
| B | Fulling Mill Pond | | | |
| C | Accord Pond - Gravity & Pump | | | |
| D | Free Street #4 | | | |
| E | Free Street #3 | | | |
| F | Free Street #2 | | | |
| G | Scotland Street | | | |
| H | Downing Street | | | |
| I | Prospect Street | | | |
| | 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

| 400 | | | | |
|--|-----------------------------------|--|------------------------------|------|
| Annual report of Aquarion Water Company of Massachusetts | | | Year ended December 31, 2018 | |
| 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 | |
| | 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

Real Estate Information -Oxford

1. Land owned by the Company

| | Location | Use | 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 | 1959-64-67 | |
| D | 12' x 20' | Prefab. Metal | 1999 | |

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

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.

Annual Report of Aquarion Water Company of Massachusetts

Year ended December 31, 2018

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.

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 regarding each of these sources of supply.

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

2. Watersheds owned by the Company

| Location | Area | When Bought | Cost |
|---------------------------------------|-------------|-------------|----------------------|
| A. Parcel E & F - Howe Ave | 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.

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 regarding each of these sources of supply.

The respondent 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.

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 | Combined | |
| 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 | | |
| 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 | 1903 | |
| 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 bottoms 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. Water from Accord Pond can also be diverted to the Fulling Mill Cistern Basin. The Basin also receives water from a 1,000 ft long horizontal well built in 1903. All of this water is pumped to the Hingham/Hull District 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. Last redeveloped in 2018.
- (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. Last redeveloped in 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. The well is currently off-line as an emergency source. It was last 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 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. Last redeveloped in 2018.
- (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. Last redeveloped in 2018.
- (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. Last redeveloped in 2018.
- (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. Last redeveloped in 2018.
- (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. Last redeveloped in 2018.

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 | \$1,516,337 |
| F. | | | | | |

5. Give a full and complete description of the wells

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 bottoms 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.

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 | \$47,048 |
| 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 bottoms 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

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. The Downing St. Well currently off line and is classified as an emergency water supply source. If activated, it would pump directly into the distribution system after on-site treatment. There are two distribution system pumping stations - the Hull Booster Station and the Baker Hill Booster Station.

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 | Goulds | 2018 | * | | |
| 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 | 2018 | * | | |
| 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 | Free Street #5 | Submersible | Grundfos | 2015 | * | | |
| N | Free Street #2A | Submersible | Goulds | 2017 | * | | |
| O | Fulling Mill Well #1 | Submersible | Goulds | 2008 | * | | |
| P | Fulling Mill Well #2 | Submersible | Goulds | 2008 | * | | |
| Q | Scotland St. Well #1A | Submersible | Goulds | 2015 | * | | |
| R | Baker Hill Booster #1 | Hor Cent | Aurora | 2017 | * | | |
| S | Baker Hill Booster #2 | Hor Cent | Aurora | 2006 | * | | |
| T | Baker Hill Booster #3 | Hor Cent | Aurora | 2006 | * | | |
| U | Baker Hill Booster #4 | Hor Cent | Aurora | 2006 | * | | |
| V | 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 | 1,008,000 |
| E | | 7 stage | 1,750 RPM | 6" | N/A | Electric | 829,440 |
| F | | 7 stage | 1,770 RPM | 5" | N/A | Electric | 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 | 1,800 RPM | 6" | N/A | Electric | 2,016,000 |
| K | | 2 stage | 1,800 RPM | 6" | N/A | Electric | 2,016,000 |
| L | | 2 stage | 1,800 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 | | 1 stage | 3,600 RPM | 12" | N/A | Electric | 1,080,000 |
| R | | 1 stage | 3,500 RPM | 2" | N/A | Electric | 86,400 |
| S | | 1 stage | 3,500 RPM | 2" | N/A | Electric | 86,400 |
| T | | 1 stage | 3,500 RPM | 3" | N/A | Electric | 216,000 |
| U | | 1 stage | 3,500 RPM | 3" | N/A | Electric | 216,000 |
| V | | 1 stage | 1,800 RPM | 8" | N/A | Electric | 1,728,000 |

* Cost of pump separately unavailable

**Diameter of impeller

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 PISTONS 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 |

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 PISTONS 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 |

| 404 | | | | | | | |
|--|---------------------------------|-----------------|-------------------------|-------------------------|------------------------------|---------------------|------------|
| Annual report of Aquarion Water Company of Massachusetts | | | | | Year ended December 31, 2018 | | |
| 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 | * | |
| | 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 | 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 SWITCHES | | | | | | | |
| | 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 | | 2018 | | * |
| D | Scotland Street Well | | U.S. Motors | | 2015 | | * |
| E | Downing Street Well | | U.S. Electric | | 1966 | | * |
| F | Free Street Well #3 | | U.S. Electric | | 2015 | | * |
| G | Prospect Street | | U.S. Electric | | 2015 | | * |
| H | Free Street Well #4 | | U.S. Electric | | 2018 | | * |
| I | Accord #3 | | U.S. Electric | | 2015 | | * |
| J | Accord #4 | | U.S. Electric | | 2015 | | * |
| K | Accord #5 | | U.S. Electric | | 2015 | | * |
| L | Beacon Road, Hull | | U.S. Motor | | 1998 | | * |
| M | Free Street Well #5 | | Franklin | | 2015 | | * |
| N | Free Street Well#2A | | U.S. Electric | | 2018 | | * |
| O | Fulling Mill Well#1 | | Centripro | | 2008 | | * |
| P | Fulling Mill Well #2 | | Centripro | | 2018 | | * |
| Q | Scotland Street #1A | | Centripro | | 2015 | | * |
| R | Baker Hill Booster #1 | | Aurora | | 2017 | | * |
| S | Baker Hill Booster #2 | | Aurora | | 2006 | | * |
| T | Baker Hill Booster #3 | | Aurora | | 2006 | | * |
| U | Baker Hill Booster #4 | | Aurora | | 2006 | | * |
| V | 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 | | 200 |
| D | A.C. 3 Phase | | 220/440 | | Direct | | 25 |
| E | A.C. 3 Phase | | 220/440 | | Direct | | 40 |
| F | A.C. 3 Phase | | 460 | | Direct | | 25 |
| G | A.C. 3 Phase | | 460 | | Direct | | 20 |
| H | A.C. 3 Phase | | 460 | | Direct | | 125 |
| I | A.C. 3 Phase | | 460 | | Direct | | 40 |
| J | A.C. 3 Phase | | 460 | | Direct | | 40 |
| K | A.C. 3 Phase | | 460 | | Direct | | 40 |
| L | A.C. 3 Phase | | 460 | | Direct | | 75 |
| M | A.C. 3 Phase | | 460 | | Direct | | 40 |
| N | A.C. 3 Phase | | 460 | | Direct | | 125 |
| O | A.C. 3 Phase | | 460 | | Direct | | 20 |
| P | A.C. 3 Phase | | 460 | | Direct | | 15 |
| Q | A.C. 3 Phase | | 460 | | Direct | | 10 |
| R | A.C. 3 Phase | | 480 | | Direct | | 3 |
| S | A.C. 3 Phase | | 480 | | Direct | | 3 |
| T | A.C. 3 Phase | | 480 | | Direct | | 7.5 |
| U | A.C. 3 Phase | | 480 | | Direct | | 7.5 |
| V | A.C. 3 Phase | | 480 | | Direct | | 50 |
| Total Horse Power | | | | | | | 941 |

* Cost of motor separately unavailable

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 SWITCHES

| | 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

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 SWITCHES

| | 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

Pumping Information - Continued. - Hingham

9. Water Wheels and Turbines

| | Location | Name of Builder | When Installed | Cost | | |
|----------------------|-----------------|-----------------|----------------|-------|----------------|------------|
| A. B. C. D. | NONE | | | | | |
| | Type of Machine | Diam. of Runner | Working Head | Speed | Type of Driver | Rated H.P. |
| A. B. C. D. | | | | | | |

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

Pumping Information - Continued. - Millbury

9. Water Wheels and Turbines

| | Location | | | Name of Builder | When Installed | Cost |
|----------------------|-----------------|-----------------|--------------|-----------------|----------------|------------|
| A. B. C. D. | NONE | | | | | |
| | Type of Machine | Diam. of Runner | Working Head | Speed | Type of Driver | Rated H.P. |
| A. B. C. D. | | | | | | |

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

Pumping Information - Continued. - Oxford

9. Water Wheels and Turbines

| | Location | | | Name of Builder | When Installed | Cost |
|----------------------|-----------------|-----------------|--------------|-----------------|----------------|------------|
| A. B. C. D. | NONE | | | | | |
| | Type of Machine | Diam. of Runner | Working Head | Speed | Type of Driver | Rated H.P. |
| A. B. C. D. | | | | | | |

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

Pumping Information - Continued Hingham

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

| Year and Month 2018 | Kwhrs Used | Pounds of coal Burned | Million Gallons of Water Pumped | Hours of Pumping | Average Total Static Head | Average Total Dynamic Head |
|---------------------|------------|-----------------------|---------------------------------|------------------|---------------------------|----------------------------|
| January | 136,850 | | 92.759 | 744 | | |
| February | 149,800 | | 72.261 | 672 | | |
| March | 117,950 | | 79.484 | 744 | | |
| April | 129,500 | | 83.167 | 720 | | |
| May | 130,550 | | 102.407 | 744 | | |
| June | 161,700 | | 124.001 | 720 | | |
| July | 176,750 | | 142.820 | 744 | | |
| August | 180,600 | | 133.922 | 744 | | |
| September | 175,000 | | 108.416 | 720 | | |
| October | 127,400 | | 88.045 | 744 | | |
| November | 145,600 | | 77.493 | 720 | | |
| December | 131,250 | | 73.028 | 744 | | |
| Totals | 1,762,950 | 0 | 1,177.803 | 8,760 | 0 | 0 |

12. Based upon the displacement of _____ gallons per revolution with _____ per cent allowance for slip _____

13. Average gallons per day 3.227 MG (365 days)

14. Maximum gallons pumped in a day 6.136 MG

15. Date of same, July 4, 2018

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, 2018 | |
| 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 | \$ | 0.12 |
| 25. Wood consumed during 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 | 1,762,950 | Kwhrs |

Pumping Information - Continued Hingham

11. Station log

Accord Pond to Water Treatment Facility

| Year and Month 2018 | Kwhrs Used | Pounds of coal Burned | Million Gallons of Water Pumped | Hours of Pumping | Average Total Static Head | Average Total Dynamic Head |
|---------------------|------------|-----------------------|---------------------------------|------------------|---------------------------|----------------------------|
| January | 3,392 | | 11.348 | 408 | | |
| February | 10,582 | | 9.467 | 576 | | |
| March | 4,268 | | 0.905 | 120 | | |
| April | 3,543 | | 6.388 | 552 | | |
| May | 5,188 | | 16.692 | 744 | | |
| June | 4,413 | | 32.639 | 720 | | |
| July | 12,463 | | 58.218 | 744 | | |
| August | 18,430 | | 49.013 | 744 | | |
| September | 10,137 | | 26.303 | 720 | | |
| October | 1,434 | | 6.788 | 336 | | |
| November | 505 | | 0.081 | 72 | | |
| December | 2,059 | | 0.000 | 0 | | |
| Totals | 76,414 | 0 | 217.842 | 5,736 | 0 | 0 |

12. Based upon the displacement of _____ gallons per revolution with _____ per cent allowance for slip _____

13. Average gallons per day _____ 0.597 MG (365 days)

14. Maximum gallons pumped in a day _____ 2.76 MG

15. Date of same, _____ July 15, 2018

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, 2018 |
| 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 | \$ | 0.15 |
| 25. Wood consumed during 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 | 76,414 | Kwhrs |

Pumping Information - Continued Hingham

11. Station log

Fulling Mill Well 1 to Water Treatment Facility

| Year and Month 2018 | Kwhrs Used | Pounds of coal Burned | Million Gallons of Water Pumped | Hours of Pumping | Average Total Static Head | Average Total Dynamic Head |
|---------------------|------------|-----------------------|---------------------------------|------------------|---------------------------|----------------------------|
| January | 22,065 | | 9.300 | 744 | | |
| February | 22,140 | | 8.127 | 672 | | |
| March | 17,596 | | 9.034 | 744 | | |
| April | 18,268 | | 4.288 | 408 | | |
| May | 10,229 | | 10.332 | 720 | | |
| June | 18,606 | | 11.532 | 720 | | |
| July | 17,601 | | 11.270 | 744 | | |
| August | 17,438 | | 9.775 | 744 | | |
| September | 15,145 | | 9.581 | 720 | | |
| October | 12,342 | | 10.502 | 744 | | |
| November | 17,264 | | 10.084 | 720 | | |
| December | 31 | | 10.258 | 744 | | |
| Totals | 188,725 | 0 | 114.083 | 8,424 | 0 | 0 |

12. Based upon the displacement of _____ gallons per revolution with _____ per cent allowance for slip _____

13. Average gallons per day _____ 0.313 MG (365 days)

14. Maximum gallons pumped in a day _____ 0.596 MG

15. Date of same, _____ 9/18/2018

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, 2018 |
| 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 | \$ | 0.13 |
| 25. Wood consumed during 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 | 188,725 | Kwhrs |

Pumping Information - Continued Hingham

11. Station log

Fulling Mill Well 2 to Water Treatment Facility

| Year and Month 2018 | Kwhrs Used | Pounds of coal Burned | Million Gallons of Water Pumped | Hours of Pumping | Average Total Static Head | Average Total Dynamic Head |
|---------------------|------------|-----------------------|---------------------------------|------------------|---------------------------|----------------------------|
| January | | | 3.262 | 696 | | |
| February | | | 2.414 | 576 | | |
| March | | | 2.171 | 576 | | |
| April | | | 1.094 | 312 | | |
| May | | | 4.930 | 720 | | |
| June | | | 5.922 | 720 | | |
| July | | | 4.847 | 696 | | |
| August | | | 3.935 | 744 | | |
| September | | | 2.353 | 600 | | |
| October | | | 3.698 | 624 | | |
| November | | | 3.179 | 648 | | |
| December | | | 2.061 | 504 | | |
| Totals | 0 | 0 | 39.866 | 7,416 | 0 | 0 |

12. Based upon the displacement of _____ gallons per revolution with _____ per cent allowance for slip _____

13. Average gallons per day _____ 0.109 MG (365 days)

14. Maximum gallons pumped in a day _____ 0.266 MG

15. Date of same, _____ May 26, 2018

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, 2018 |
| 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 | |

Pumping Information - Continued Hingham

11. Station log

Fulling Mill Cistern to Treatment Facility

| Year and Month 2018 | 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 | | | 0.000 | 0 | | |
| September | | | 0.000 | 0 | | |
| October | | | 0.000 | 0 | | |
| November | | | 0.000 | 0 | | |
| December | | | 0.000 | 0 | | |
| Totals | 0 | 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 _____ 0.000 MG

15. Date of same, _____ N/A

16. Range of pressure in main _____ 35-45 psi

17. Average pressure in main _____ 40 psi

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 during 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

Pumping Information - Continued Hingham

11. Station log

Scotland St 1 to Water Treatment Facility

| Year and Month 2018 | Kwhrs Used | Pounds of coal Burned | Million Gallons of Water Pumped | Hours of Pumping | Average Total Static Head | Average Total Dynamic Head |
|---------------------|------------|-----------------------|---------------------------------|------------------|---------------------------|----------------------------|
| January | 18,257 | | 12.271 | 744 | | |
| February | 20,261 | | 8.747 | 504 | | |
| March | 7,141 | | 10.372 | 600 | | |
| April | 13,772 | | 13.079 | 720 | | |
| May | 14,181 | | 12.869 | 744 | | |
| June | 13,014 | | 16.437 | 720 | | |
| July | 13,846 | | 14.723 | 744 | | |
| August | 12,539 | | 13.199 | 744 | | |
| September | 8,844 | | 13.744 | 720 | | |
| October | 6,703 | | 15.371 | 744 | | |
| November | 11,918 | | 15.823 | 720 | | |
| December | 13,671 | | 16.851 | 744 | | |
| Totals | 154,147 | 0 | 163.486 | 8,448 | 0 | 0 |

12. Based upon the displacement of _____ gallons per revolution with _____ per cent allowance for slip _____

13. Average gallons per day _____ 0.448 _____ MG (365 days)

14. Maximum gallons pumped in a day _____ 0.649 _____ MG

15. Date of same, _____ December 31, 2018

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, 2018 |
| 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 | \$ | 0.12 |
| 25. Wood consumed during 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 | 154,147 | Kwhrs |

Pumping Information - Continued Hingham

11. Station log

Scotland St 1A to Water Treatment Facility

| Year and Month 2018 | Kwhrs Used | Pounds of coal Burned | Million Gallons of Water Pumped | Hours of Pumping | Average Total Static Head | Average Total Dynamic Head |
|---------------------|------------|-----------------------|---------------------------------|------------------|---------------------------|----------------------------|
| January | | | 6.305 | 744 | | |
| February | | | 4.264 | 504 | | |
| March | | | 2.760 | 408 | | |
| April | | | 5.741 | 720 | | |
| May | | | 5.960 | 744 | | |
| June | | | 6.056 | 720 | | |
| July | | | 5.610 | 744 | | |
| August | | | 4.539 | 720 | | |
| September | | | 1.444 | 264 | | |
| October | | | 4.832 | 696 | | |
| November | | | 5.637 | 720 | | |
| December | | | 5.573 | 744 | | |
| Totals | 0 | 0 | 58.721 | 7,728 | 0 | 0 |

12. Based upon the displacement of _____ gallons per revolution with _____ per cent allowance for slip _____

13. Average gallons per day _____ 0.161 _____ MG (365 days)

14. Maximum gallons pumped in a day _____ 0.272 _____ MG

15. Date of same, _____ February 17, 2018

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, 2018 |
| 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 | |

Pumping Information - Continued Hingham

11. Station log

Downing Street Well

| Year and Month 2018 | Kwhrs Used | Pounds of coal Burned | Million Gallons of Water Pumped | Hours of Pumping | Average Total Static Head | Average Total Dynamic Head |
|---------------------|------------|-----------------------|---------------------------------|------------------|---------------------------|----------------------------|
| January | 1,677 | | 0.000 | 0 | | |
| February | 1,649 | | 0.000 | 0 | | |
| March | 1,121 | | 0.000 | 0 | | |
| April | 1,215 | | 0.000 | 0 | | |
| May | 308 | | 0.000 | 0 | | |
| June | 90 | | 0.000 | 0 | | |
| July | 82 | | 0.000 | 0 | | |
| August | 92 | | 0.000 | 0 | | |
| September | 90 | | 0.000 | 0 | | |
| October | 87 | | 0.000 | 0 | | |
| November | 105 | | 0.000 | 0 | | |
| December | 96 | | 0.000 | 0 | | |
| Totals | 6,612 | 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, 2018 |
| 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 | 6,612 | Kwhrs |

Pumping Information - Continued Hingham

11. Station log

Prospect Street to Water Treatment Facility

| Year and Month 2018 | Kwhrs Used | Pounds of coal Burned | Million Gallons of Water Pumped | Hours of Pumping | Average Total Static Head | Average Total Dynamic Head |
|---------------------|------------|-----------------------|---------------------------------|------------------|---------------------------|----------------------------|
| January | 5,851 | | 6.628 | 744 | | |
| February | 6,371 | | 6.555 | 672 | | |
| March | 4,558 | | 7.246 | 744 | | |
| April | 4,570 | | 7.314 | 720 | | |
| May | 4,701 | | 7.698 | 744 | | |
| June | 3,445 | | 7.249 | 720 | | |
| July | 2,403 | | 1.358 | 744 | | |
| August | 163 | | 0.578 | 744 | | |
| September | 896 | | 4.425 | 720 | | |
| October | 2,038 | | 7.204 | 744 | | |
| November | 2,603 | | 7.624 | 720 | | |
| December | 3,498 | | 8.036 | 744 | | |
| Totals | 41,097 | | 71.915 | 8,760 | 0 | 0 |

12. Based upon the displacement of _____ gallons per revolution with _____ per cent allowance for slip _____

13. Average gallons per day _____ 0.197 _____ MG (365 days)

14. Maximum gallons pumped in a day _____ 0.366 _____ MG

15. Date of same, _____ November 22, 2018

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, 2018 |
| 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 | \$ | 0.15 |
| 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 | 41,097 | Kwhrs |

Pumping Information - Continued Hingham

11. Station log

Free Street #2 to Water Treatment Facility

| Year and Month 2018 | 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 | | | 0.001 | 24 | | |
| July | | | 3.407 | 192 | | |
| August | | | 16.618 | 744 | | |
| September | | | 16.641 | 720 | | |
| October | | | 3.139 | 312 | | |
| November | | | 0.714 | 120 | | |
| December | | | 1.715 | 216 | | |
| Totals | 0 | 0 | 42.235 | 2,328 | 0 | 0 |

12. Based upon the displacement of _____ gallons per revolution with _____ per cent allowance for slip _____

13. Average gallons per day _____ 0.116 _____ MG (365 days)

14. Maximum gallons pumped in a day _____ 0.826 _____ MG

15. Date of same, _____ September 2, 2018

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, 2018 |
| 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 | |

Pumping Information - Continued Hingham

11. Station log

Free Street #2A to Water Treatment Facility

| Year and Month 2018 | Kwhrs Used | Pounds of coal Burned | Million Gallons of Water Pumped | Hours of Pumping | Average Total Static Head | Average Total Dynamic Head |
|---------------------|------------|-----------------------|---------------------------------|------------------|---------------------------|----------------------------|
| January | 24,150 | | 12.732 | 384 | | |
| February | 3,570 | | 3.931 | 144 | | |
| March | 3,570 | | 24.663 | 744 | | |
| April | 17,010 | | 20.714 | 720 | | |
| May | 42 | | 17.759 | 720 | | |
| June | 16,380 | | 17.936 | 720 | | |
| July | 23,940 | | 22.435 | 744 | | |
| August | 26,040 | | 15.541 | 744 | | |
| September | 28,980 | | 15.125 | 720 | | |
| October | 19,110 | | 17.531 | 744 | | |
| November | 18,690 | | 16.878 | 720 | | |
| December | 22,890 | | 18.613 | 744 | | |
| Totals | 204,372 | 0 | 203.858 | 7,848 | 0 | 0 |

12. Based upon the displacement of _____ gallons per revolution with _____ per cent allowance for slip _____

13. Average gallons per day _____ 0.559 MG (365 days)

14. Maximum gallons pumped in a day _____ 1.308 MG

15. Date of same, _____ July 4, 2018

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, 2018 |
| 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 | 204,372 | Kwhrs |

Pumping Information - Continued Hingham

11. Station log

Free Street #3 to Water Treatment Facility

| Year and Month 2018 | Kwhrs Used | Pounds of coal Burned | Million Gallons of Water Pumped | Hours of Pumping | Average Total Static Head | Average Total Dynamic Head |
|---------------------|------------|-----------------------|---------------------------------|------------------|---------------------------|----------------------------|
| January | 43,600 | | 0.000 | 0 | | |
| February | 51,000 | | 0.000 | 0 | | |
| March | 44,080 | | 0.000 | 0 | | |
| April | 21,800 | | 0.000 | 0 | | |
| May | 87 | | 0.000 | 0 | | |
| June | 32,640 | | 0.000 | 0 | | |
| July | 31,760 | | 0.000 | 0 | | |
| August | 27,200 | | 0.000 | 0 | | |
| September | 30,760 | | 0.000 | 0 | | |
| October | 18,760 | | 0.000 | 0 | | |
| November | 27,840 | | 0.000 | 0 | | |
| December | 13,480 | | 0.000 | 0 | | |
| Totals | 343,007 | 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, 2018 |
| 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 | 343,007 | Kwhrs |

Pumping Information - Continued Hingham

11. Station log

Free Street #4 to Water Treatment Facility

| Year and Month 2018 | Kwhrs Used | Pounds of coal Burned | Million Gallons of Water Pumped | Hours of Pumping | Average Total Static Head | Average Total Dynamic Head |
|---------------------|------------|-----------------------|---------------------------------|------------------|---------------------------|----------------------------|
| January | | | 22.605 | 744 | | |
| February | | | 20.827 | 672 | | |
| March | | | 11.806 | 480 | | |
| April | | | 16.454 | 624 | | |
| May | | | 19.285 | 744 | | |
| June | | | 19.887 | 720 | | |
| July | | | 19.758 | 744 | | |
| August | | | 16.229 | 744 | | |
| September | | | 15.868 | 720 | | |
| October | | | 18.607 | 744 | | |
| November | | | 17.815 | 696 | | |
| December | | | 0.000 | 0 | | |
| Totals | 0 | 0 | 199.141 | 7,632 | 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 _____ 0.546 _____ MG (365 days)

14. Maximum gallons pumped in a day _____ 0.810 _____ MG

15. Date of same, _____ January 14, 2018

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, 2018 |
| 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 | |

Pumping Information - Continued Hingham

11. Station log

Free Street #5 to Water Treatment Facility

| Year and Month 2018 | Kwhrs Used | Pounds of coal Burned | Million Gallons of Water Pumped | Hours of Pumping | Average Total Static Head | Average Total Dynamic Head |
|---------------------|------------|-----------------------|---------------------------------|------------------|---------------------------|----------------------------|
| January | | | 7.895 | 744 | | |
| February | | | 6.737 | 672 | | |
| March | | | 7.845 | 744 | | |
| April | | | 7.013 | 720 | | |
| May | | | 6.707 | 744 | | |
| June | | | 7.201 | 648 | | |
| July | | | 3.229 | 432 | | |
| August | | | 5.608 | 720 | | |
| September | | | 4.003 | 456 | | |
| October | | | 4.116 | 504 | | |
| November | | | 3.617 | 408 | | |
| December | | | 9.573 | 744 | | |
| Totals | 0 | 0 | 73.544 | 7,536 | 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 _____ 0.201 _____ MG (365 days)

14. Maximum gallons pumped in a day _____ 0.397 _____ MG

15. Date of same, _____ December 31, 2018

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, 2018 |
| 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 during 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 | |

Pumping Information - Continued Millbury

11. Station Log

Total System

| Year and Month 2018 | 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 | 97,820 | 0.075 | 49.584 | 1,775 | 49.659 | | |
| February | 100,280 | 0.150 | 44.305 | 1,394 | 44.455 | | |
| March | 97,590 | 0.000 | 45.607 | 1,492 | 45.607 | | |
| April | 98,970 | 0.000 | 47.150 | 1,645 | 47.150 | | |
| May | 100,120 | 0.075 | 53.928 | 1,626 | 54.003 | | |
| June | 110,880 | 0.000 | 57.838 | 2,287 | 57.838 | | |
| July | 130,000 | 0.075 | 61.403 | 2,403 | 61.478 | | |
| August | 120,360 | 0.075 | 56.636 | 2,185 | 56.711 | | |
| September | 137,750 | 0.000 | 47.115 | 1,774 | 47.115 | | |
| October | 91,550 | 0.000 | 46.523 | 1,462 | 46.523 | | |
| November | 93,520 | 0.000 | 44.788 | 1,326 | 44.788 | | |
| December | 103,340 | 0.075 | 45.733 | 1,379 | 45.808 | | |
| Totals | 1,282,180 | 0.525 | 600.610 | 20,748 | 601.135 | 0 | 0 |

12. Based upon the displacement of _____ gallons per revolution with _____ per cent allowance for slip _____

13. Average gallons per day _____ 1.647 MG (365 days)

14. Maximum gallons pumped in a day _____ 2.615 MG

15. Date of same, _____ June 17, 2018

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, 2018 |
| 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 during 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 | 1,282,180 Kwhrs | |

Pumping Information - Continued Millbury

11. Station Log

Millbury Ave. Station

| Year and Month 2018 | Kwhrs Used | Pounds of coal Burned | Million Gallons of Water Pumped | Hours of Pumping | Average Total Static Head | Average Total Dynamic Head |
|---------------------|------------|-----------------------|---------------------------------|------------------|---------------------------|----------------------------|
| January | 24,700 | | 13.165 | 388 | | |
| February | 45,700 | | 21.468 | 666 | | |
| March | 51,800 | | 26.564 | 717 | | |
| April | 60,900 | | 27.880 | 715 | | |
| May | 55,800 | | 27.863 | 737 | | |
| June | 38,000 | | 12.253 | 357 | | |
| July | 30,600 | | 16.715 | 506 | | |
| August | 45,800 | | 22.063 | 674 | | |
| September | 47,400 | | 17.441 | 527 | | |
| October | 45,100 | | 22.057 | 678 | | |
| November | 48,100 | | 21.809 | 591 | | |
| December | 49,600 | | 22.977 | 622 | | |
| Totals | 543,500 | 0 | 252.255 | 7,178 | 0 | 0 |

12. Based upon the displacement of _____ gallons per revolution with _____ per cent allowance for slip _____

13. Average gallons per day _____ 0.691 MG (365 days)

14. Maximum gallons pumped in a day _____ 1.139 MG

15. Date of same, _____ May 21, 2018

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, 2018 |
| 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 during 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 | 543,500 | Kwhrs |

Pumping Information - Continued Millbury

11. Station Log

Oak Pond Station

| Year and Month 2018 | Kwhrs Used | Pounds of coal Burned | Million Gallons of Water Pumped | Hours of Pumping | Average Total Static Head | Average Total Dynamic Head |
|---------------------|------------|-----------------------|---------------------------------|------------------|---------------------------|----------------------------|
| January | 22,720 | | 11.202 | 628 | | |
| February | 10,080 | | 0.969 | 56 | | |
| March | 9,440 | | 6.161 | 344 | | |
| April | 17,120 | | 12.352 | 695 | | |
| May | 10,720 | | 0.847 | 48 | | |
| June | 9,280 | | 12.651 | 541 | | |
| July | 21,600 | | 8.874 | 386 | | |
| August | 960 | | 0.509 | 24 | | |
| September | 1,600 | | 0.470 | 28 | | |
| October | 1,600 | | 0.812 | 39 | | |
| November | 2,720 | | 0.353 | 12 | | |
| December | 3,840 | | 0.206 | 9 | | |
| Totals | 111,680 | 0 | 55.406 | 2,810 | 0 | 0 |

12. Based upon the displacement of _____ gallons per revolution with _____ per cent allowance for slip _____

13. Average gallons per day _____ 0.152 MG (365 days)

14. Maximum gallons pumped in a day _____ 0.690 MG

15. Date of same, _____ July 11, 2018

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, 2018 |
| 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 | \$ | 0.19 |
| 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 | 111,680 | Kwhrs |

Pumping Information - Continued Millbury

11. Station Log

Jacques #1 N. Main St. Station

| Year and Month 2018 | Kwhrs Used | Pounds of coal Burned | Million Gallons of Water Pumped | Hours of Pumping | Average Total Static Head | Average Total Dynamic Head |
|---------------------|------------|-----------------------|---------------------------------|------------------|---------------------------|----------------------------|
| January | 45,800 | | 25.170 | 756 | | |
| February | 40,650 | | 21.868 | 672 | | |
| March | 32,550 | | 12.876 | 430 | | |
| April | 17,500 | | 6.516 | 218 | | |
| May | 31,450 | | 23.211 | 722 | | |
| June | 41,200 | | 21.473 | 723 | | |
| July | 43,250 | | 23.072 | 759 | | |
| August | 40,800 | | 22.681 | 747 | | |
| September | 47,600 | | 22.035 | 732 | | |
| October | 40,450 | | 23.643 | 743 | | |
| November | 41,050 | | 22.620 | 722 | | |
| December | 46,050 | | 22.548 | 747 | | |
| Totals | 468,350 | 0 | 247.713 | 7,971 | 0 | 0 |

12. Based upon the displacement of _____ gallons per revolution with _____ per cent allowance for slip _____

13. Average gallons per day _____ 0.679 MG (365 days)

14. Maximum gallons pumped in a day _____ 0.990 MG

15. Date of same, _____ January 1, 2018

16. Range of pressure in main _____ 21 to 125 lbs

17. Average pressure in main _____ 73 psi

Pumping Information - Continued M 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 during 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

468,350 Kwhrs

Pumping Information - Continued Millbury

11. Station Log

Jacques #2 N. Main St. Station

| Year and Month 2018 | Kwhrs Used | Pounds of coal Burned | Million Gallons of Water Pumped | Hours of Pumping | Average Total Static Head | Average Total Dynamic Head |
|------------------------|---------------|-----------------------------|---------------------------------------|---------------------|------------------------------------|-------------------------------------|
| January | 4,600 | | 0.047 | 3 | | |
| February | 3,850 | | 0.000 | 0 | | |
| March | 3,800 | | 0.006 | 1 | | |
| April | 3,450 | | 0.402 | 17 | | |
| May | 2,150 | | 2.007 | 119 | | |
| June | 22,400 | | 11.461 | 666 | | |
| July | 34,550 | | 12.742 | 752 | | |
| August | 32,800 | | 11.383 | 740 | | |
| September | 41,150 | | 7.169 | 487 | | |
| October | 4,400 | | 0.011 | 2 | | |
| November | 1,650 | | 0.006 | 1 | | |
| December | 3,850 | | 0.002 | 1 | | |
| Totals | 158,650 | 0 | 45.236 | 2,789 | 0 | 0 |

12. Based upon the displacement of _____ gallons per revolution with _____ per cent allowance for slip _____

13. Average gallons per day 0.124 MG (365 days)

14. Maximum gallons pumped in a day 0.546 MG

15. Date of same, July 2, 2018

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, 2018 |
| 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 | \$ | 0.18 |
| 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 | 158,650 | Kwhrs |

Pumping Information - Continued Oxford

11. Station Log

Total System

| Year and Month 2018 | Kwhrs Used | Pounds of coal Burned | Million Gallons of Water Pumped | Hours of Pumping | Average Total Static Head | Average Total Dynamic Head |
|---------------------|------------|-----------------------|---------------------------------|------------------|---------------------------|----------------------------|
| January | 36,942 | | 19.069 | 1,078 | | |
| February | 38,125 | | 17.355 | 943 | | |
| March | 34,938 | | 19.617 | 1,060 | | |
| April | 38,147 | | 17.801 | 938 | | |
| May | 33,752 | | 20.683 | 1,106 | | |
| June | 42,322 | | 24.568 | 1,317 | | |
| July | 44,201 | | 25.680 | 1,422 | | |
| August | 43,056 | | 22.307 | 1,260 | | |
| September | 38,619 | | 19.602 | 1,116 | | |
| October | 34,321 | | 17.954 | 1,021 | | |
| November | 31,051 | | 16.377 | 926 | | |
| December | 38,676 | | 15.894 | 902 | | |
| Totals | 454,150 | 0 | 236.907 | 13,089 | 0 | 0 |

12. Based upon the displacement of _____ gallons per revolution with _____ per cent allowance for slip _____

13. Average gallons per day 0.649 MG (365 days)

14. Maximum gallons pumped in a day 1.105 MG

15. Date of same, July 31, 2018

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, 2018 |
| 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 | \$ | 0.17 |
| 25. Wood consumed during 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 | 454,150 | Kwhrs |

Pumping Information - Continued Oxford

11. Station Log

North Main St. Well #1

| Year and Month 2018 | Kwhrs Used | Pounds of coal Burned | Million Gallons of Water Pumped | Hours of Pumping | Average Total Static Head | Average Total Dynamic Head |
|---------------------|------------|-----------------------|---------------------------------|------------------|---------------------------|----------------------------|
| January | 23,800 | | 0.149 | 10 | | |
| February | 17,600 | | 0.547 | 32 | | |
| March | 23,400 | | 0.031 | 2 | | |
| April | 12,000 | | 0.234 | 10 | | |
| May | 6,600 | | 0.242 | 13 | | |
| June | 15,600 | | 1.208 | 48 | | |
| July | 19,200 | | 1.611 | 78 | | |
| August | 16,600 | | 0.718 | 35 | | |
| September | 13,000 | | 0.255 | 14 | | |
| October | 8,800 | | 0.395 | 19 | | |
| November | 6,800 | | 0.126 | 6 | | |
| December | 9,200 | | 0.143 | 9 | | |
| Totals | 172,600 | 0 | 5.659 | 276 | 0 | 0 |

12. Based upon the displacement of _____ gallons per revolution with _____ per cent allowance for slip _____

13. Average gallons per day _____ 0.016 MG (365 days)

14. Maximum gallons pumped in a day _____ 0.319 MG

15. Date of same, _____ June 29, 2018

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, 2018 |
| 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 during 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 | 172,600 | Kwhrs |

Pumping Information - Continued Oxford

11. Station Log

North Main St. Well #1A

| Year and Month 2018 | Kwhrs Used | Pounds of coal Burned | Million Gallons of Water Pumped | Hours of Pumping | Average Total Static Head | Average Total Dynamic Head |
|------------------------|------------------------------|-----------------------------|---------------------------------------|---------------------|------------------------------------|-------------------------------------|
| January | 0 | | 0.000 | 0 | | |
| 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) | | 0.000 | 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 _____ 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, 2018 | |
| 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 |

Pumping Information - Continued Oxford

11. Station Log

North Main St. Well #2

| Year and Month 2018 | Kwhrs Used | Pounds of coal Burned | Million Gallons of Water Pumped | Hours of Pumping | Average Total Static Head | Average Total Dynamic Head |
|---------------------|------------------------------|-----------------------|---------------------------------|------------------|---------------------------|----------------------------|
| January | 0 | | 10.890 | 653 | | |
| February | 0 | | 10.331 | 570 | | |
| March | 0 | | 8.966 | 503 | | |
| April | 0 | | 3.986 | 212 | | |
| May | 0 | | 6.301 | 352 | | |
| June | 0 | | 9.574 | 553 | | |
| July | 0 | | 9.668 | 593 | | |
| August | 0 | | 7.669 | 487 | | |
| September | 0 | | 5.899 | 378 | | |
| October | 0 | | 3.728 | 259 | | |
| November | 0 | | 2.855 | 198 | | |
| December | 0 | | 2.128 | 147 | | |
| Totals | (See station # 1 for totals) | | 81.995 | 4,905 | 0 | 0 |

12. Based upon the displacement of _____ gallons per revolution with _____ per cent allowance for slip _____

13. Average gallons per day _____ 0.225 MG (365 days)

14. Maximum gallons pumped in a day _____ 0.479 MG

15. Date of same, _____ February 13, 2018

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, 2018 |
| 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 during 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 |

11. Station Log

Nelson St. #3

| Year and Month 2018 | Kwhrs Used | Pounds of coal Burned | Million Gallons of Water Pumped | Hours of Pumping | Total Static Head | Average Total Dynamic Head |
|---------------------|------------|-----------------------|---------------------------------|------------------|-------------------|----------------------------|
| January | 13,142 | | 8.030 | 415 | | |
| February | 20,525 | | 6.477 | 341 | | |
| March | 11,538 | | 10.620 | 555 | | |
| April | 26,147 | | 13.581 | 716 | | |
| May | 27,152 | | 14.140 | 741 | | |
| June | 26,722 | | 13.786 | 716 | | |
| July | 25,001 | | 14.401 | 751 | | |
| August | 26,456 | | 13.920 | 738 | | |
| September | 25,619 | | 13.448 | 724 | | |
| October | 25,521 | | 13.831 | 743 | | |
| November | 24,251 | | 13.396 | 722 | | |
| December | 29,476 | | 13.623 | 746 | | |
| Totals | 281,550 | 0 | 149.253 | 7,908 | 0 | 0 |

12. Based upon the displacement of _____ gallons per revolution with _____ per cent allowance for slip _____

13. Average gallons per day _____ 0.409 MG (365 days)

14. Maximum gallons pumped in a day _____ 0.547 MG

15. Date of same, _____ August 5, 2018

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, 2018 |
| 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 | 281,550 | Kwhrs |

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 | | | 52 | 46,786 |
| 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 | | 177,765 | | | 5,661 | 183,426 |
| 8" | Transite | | 43,273 | | | | 43,273 |
| 8" | Steel | | 70 | | | | 70 |
| 8" | HDPE | | 1,620 | | | | 1,620 |
| 6" | Cast Iron | | 116,694 | | 435 | | 116,259 |
| 6" | Cast Iron Cement Lined | | 74,764 | | | | 74,764 |
| 6" | Ductile | | 14,510 | | | 428 | 14,938 |
| 6" | Transite | | 87,134 | | 10 | | 87,124 |
| 6" | HDPE | | 2,060 | | | | 2,060 |
| 4" | Cast Iron | | 31,158 | | 230 | | 30,928 |
| 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 | | 36,804 | | 2,055 | | 34,749 |
| 2" | Steel | | 200 | | | | 200 |
| 2" | Galvanized | | 17,709 | | 688 | | 17,021 |
| 2" | Plastic | | 1,282 | | | 1,195 | 2,477 |
| 1 1/2 " | Galvanized | | 2,449 | | | | 2,449 |
| 1 1/4" | Galvanized | | 797 | | | | 797 |
| 1" | Plastic | | 0 | | | | 0 |
| 1" | Copper | | 339 | | | | 339 |
| 1" | Galvanized | | 3,831 | | 100 | | 3,731 |
| 3/4" | Galvanized | | 100 | | | | 100 |
| 3/4" | Copper | | 49 | | | | 49 |
| | | TOTALS | 1,014,443 | 0 | 3,518 | 7,336 | 1,018,261 |

2. Cost of repairs per mile of pipe including valves \$ 1,795

3. Number of leaks in mains, during the year 29

4. Number of leaks per mile 0.1500

5. Length of mains less than 4 inches in diameter 63,842 miles 12.09

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 | 15 | | 19 | 119,898 |
| 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 | | 3,060 | 61 | | | 2,999 |
| 8 | Transite | | 1,497 | | | | 1,497 |
| 6 | Transite | | 3,609 | 4 | | | 3,605 |
| 2 | Plastic | | 880 | | | 61 | 941 |
| TOTALS | | | 274,098 | 80 | 0 | 80 | 274,098 |

2. Cost of repairs per mile of pipe including valves \$ 4,184

3. Number of leaks in mains, during the year 26

4. Number of leaks per mile 0.5009

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

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 | 100 | | 100 | 3,328 |
| 12 | C.I. & Ductile | | 32,075 | | | | 32,075 |
| 10 | C.I. & Ductile | | 1,674 | | | | 1,674 |
| 8 | C.I. & Ductile | | 83,590 | 72 | | 72 | 83,590 |
| 6 | C.I. & Ductile | | 51,962 | | | 11 | 51,973 |
| 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 | | 5,480 | | | | 5,480 |
| 6 | Transite | | 20,901 | 11 | | | 20,890 |
| 4 | Ductile | | 354 | | | | 354 |
| 2 | Plastic | | 31 | | | | 31 |
| TOTALS | | | 214,673 | 183 | 0 | 183 | 214,673 |

| | | | |
|--|----|---------------|-------------------|
| 2. Cost of repairs per mile of pipe including valves | \$ | <u>2,716</u> | |
| 3. Number of leaks in mains, during the year | | <u>7</u> | |
| 4. Number of leaks per mile | | <u>0.1722</u> | |
| 5. Length of mains less than 4 inches in diameter | | <u>15,309</u> | miles <u>2.90</u> |

DISTRIBUTION INFORMATION

6. Water towers or stand pipes

| | Location | Land | | |
|-------------|--|----------------------|--------------|------------------------|
| | | Area | When Bought | Cost |
| A B C | Turkey Hill Accord Tank Accord Tank on land adjacent to Accord Pond - included there | 23 | 1963 | \$4,766 |
| | | Capacity in Gallons | When Bought | Cost |
| A B C | | 2,000,000 750,000 | 1963 1967 | \$103,921 \$145,359 |
| | | 2,750,000 | | \$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 | 10,279 | | | 10,279 |
| 3/4" | Plastic Galv | 0 | | | 0 |
| 3/4" | Plastic | 223 | 55 | | 168 |
| 1" | Copper | 1,007 | | | 1,007 |
| 1" | Plastic | 947 | 9 | 104 | 1,042 |
| 2" | Copper | 243 | | 2 | 245 |
| 4" | Plastic | 114 | | 1 | 115 |
| 6" | DICL | 115 | | | 115 |
| 8" | DICL | 81 | | 2 | 83 |
| 12" | DICL | 2 | | | 2 |
| | TOTALS | 13,011 | 64 | 109 | 13,056 |

8. Average length of service pipe _____ 25 feet

9. Average cost of service laid during the year \$ _____ 3,917

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

11. Percentage in income that is metered _____ 90%

12. Leaks in service during the year _____ 38

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.

DISTRIBUTION INFORMATION

6. Water towers or stand pipes

| | Location | Land | | |
|---|-----------------|---------------------|-------------|----------|
| | | Area | When Bought | 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 | | 1 | 3 |
| 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 | | 1 | 1 |
| 3/4 | Copper | 1,460 | 6 | | 1,454 |
| 3/4 | Plastic | 609 | | | 609 |
| 1 | Copper | 455 | | 70 | 525 |
| 1 | Plastic | 504 | | | 504 |
| 1 | Cement Lined | 489 | | | 489 |
| 2 | Plastic | 30 | | 1 | 31 |
| 2 | Copper | 2 | | | 2 |
| 1 1/4 | Plastic | 0 | | 6 | 6 |
| TOTALS | | 3,734 | 6 | 79 | 3,807 |

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 \$ 884

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

11. Percentage in income that is metered 90%

12. Leaks in service during the year 7

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.

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 | 380 | | 9 | 389 |
| 3/4 | Copper | 1,389 | 6 | | 1,383 |
| 2 | Cast Iron | 5 | | | 5 |
| 4 | Cast Iron Ductile | 6 | | | 6 |
| 3/4 | Plastic | 228 | | | 228 |
| 1 | Plastic | 547 | | | 547 |
| 2 | Plastic | 33 | | | 33 |
| 1 | Galv Iron | 18 | | | 18 |
| TOTALS | | 2,649 | 6 | 9 | 2,652 |

8. Average length of service pipe 27 feet

9. Average cost of service laid during the year \$ 5,900

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

11. Percentage in income that is metered 90%

12. Leaks in service during the year 2

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.

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 | | 1 | 314 |
| 10 | Gate Valves | 34 | | | 34 |
| 8 | Gate Valves | 952 | 3 | 26 | 975 |
| 6 | Gate Valves | 822 | 7 | 6 | 821 |
| 4 | Gate Valves | 207 | | | 207 |
| 3 | Gate Valves | 1 | | | 1 |
| 2 1/4 - 2 1/2 | Gate Valves | 83 | | | 83 |
| 2 | Gate Valves | 195 | 8 | | 187 |
| 1 1/2 | Gate Valves | 9 | | | 9 |
| 1 1/4 | Gate Valves | 17 | | | 17 |
| 1 | Gate Valves | 267 | 2 | | 265 |
| 3/4 | Gate Valves | 80 | | | 80 |
| | Totals | 3,088 | 20 | 33 | 3,101 |

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

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 | | | 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 | 0 | 0 | 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.

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 | | 2 | 7 |
| 16 | Gate Valve | 0 | | | 0 |
| 12 | Gate Valve | 72 | | | 72 |
| 10 | Gate Valve | 3 | | | 3 |
| 8 | Gate Valve | 208 | | 1 | 209 |
| 6 | Gate Valve | 279 | 1 | 1 | 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 | | 607 | 1 | 4 | 610 |

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

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 | | 426 | 7 | | 419 |
| 5 1/4 | | 484 | 2 | 16 | 498 |
| TOTALS | | 910 | 9 | 16 | 917 |

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 | | 253 | | | 253 |
| Metered | | 122 | | | 122 |
| TOTALS | | 418 | 0 | 0 | 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

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 | | 5 | 64 |
| 4 1/4 | 2 - 2 1/2, 1- 4 | 65 | | | 65 |
| 4 1/2 | 2 - 2 1/2, 1- 4 | 61 | 1 | | 60 |
| 4 3/4 | 2 - 2 1/2, 1- 4 | 8 | | | 8 |
| 4 1/4 | 2 - 2 1/2, 1- 4 | 1 | | | 1 |
| TOTALS | | 220 | 1 | 5 | 224 |

Hydrant is located in town of Auburn

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 | 79 | 4 | 3 | 78 |
| TOTALS | | 125 | 4 | 3 | 124 |

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

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 | 62 | 1 | | 61 |
| 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 | 87 | | 1 | 88 |
| TOTALS | | 186 | 1 | 1 | 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

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 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5/8 | 12,068 | 347 | 1,485 | 912 | 12,090 | 898 |
| 3/4 | 14 | 0 | 51 | 3 | 14 | 48 |
| 1 | 361 | 6 | 66 | 24 | 362 | 47 |
| 1 1/2 | 77 | 5 | 14 | 4 | 77 | 15 |
| 2 | 159 | 22 | 18 | 11 | 156 | 32 |
| 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 3 | 0 | 1 | 0 | 4 | 0 |
| 6 | 3 | 0 | 1 | 1 | 3 | 0 |
| 8 | 4 | 0 | 0 | 0 | 4 | 0 |
| Totals | 12,689 | 380 | 1,636 | 955 | 12,710 | 1,040 |

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

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 | 3,575 | 1 | 413 | 285 | 3,639 | 65 |
| 3/4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 59 | 3 | 6 | 4 | 59 | 5 |
| 1 1/2 | 17 | 5 | 0 | 0 | 17 | 5 |
| 2 | 45 | 3 | 9 | 2 | 46 | 9 |
| 3 | 1 | 0 | 0 | 0 | 1 | 0 |
| 4 | 4 | 0 | 0 | 0 | 4 | 0 |
| 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | 0 | 0 | 0 | 0 | 0 | 0 |
| Totals | 3,701 | 12 | 428 | 291 | 3,766 | 84 |

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 |
| |
| |
| |

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 | 2,534 | 0 | 238 | 236 | 2,535 | 1 |
| 3/4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 61 | 0 | 8 | 6 | 63 | 0 |
| 1 1/2 | 11 | 0 | 0 | 0 | 11 | 0 |
| 2 | 18 | 0 | 1 | 1 | 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 | 2,627 | 0 | 247 | 243 | 2,630 | 1 |

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:

| |
|----------------------------------|
| 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. |

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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 | | 12,938 | 62 | 403 | | 183 | | | | | 13,586 |
| Neptune | Turbine | | | | | 91 | | | 1 | | 2 | 94 |
| Neptune | Compound | | | | | | | | 2 | | 1 | 3 |
| Neptune | Protectus | | | | | | | | | 3 | | 3 |
| Badger | Turbine | | | | | | | | | | 1 | 1 |
| Trident | Disc | | 50 | | 6 | 1 | 5 | | | | | 62 |
| Kent | Disc | | | | | | | | 1 | | | 1 |
| Hersey | Turbine | | | | | | | | | | | - |
| Totals | | 0 | 12,988 | 62 | 409 | 92 | 188 | 0 | 4 | 3 | 4 | 13,750 |

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 | | 3,698 | - | 64 | 22 | 52 | - | | | | 3,836 |
| Badger | Disc | | 4 | | | | | | | | | 4 |
| Neptune | Turbine | | | | | | | | | | | - |
| Kent | Disc | | 2 | | | | | | | | | 2 |
| Rockwell | Disc | | | | | | | | | | | - |
| Sensus | Disc | | | | | | 2 | 1 | | | | 3 |
| Trident | Disc | | | | | | 1 | | 4 | | | 5 |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Totals | | - | 3,704 | - | 64 | 22 | 55 | 1 | 4 | - | - | 3,850 |

CONSUMPTION INFORMATION

| | | |
|---|--|----------|
| | Permanent | Seasonal |
| 1. Estimated total population of territory covered by franchise | 30,523 | 41,082 |
| 2. Estimated population reached by the distribution system, | 30,523 | 41,082 |
| 3. Estimated population actually supplied, | 30,523 | 41,082 |
| 4. Total consumption during the year (1) | <u>1,223,298,000</u> gallons | |
| 5. Average daily consumption (2) | <u>3,351,501</u> gallons | |
| 6. Day on which greatest amount was pumped | <u>July 4, 2018</u> | |
| 7. Gallons pumped on above day | <u>6,316,000</u> gallons | |
| 8. Week during which greatest amount was pumped | <u>July 2-July 8</u> | |
| 9. Gallons pumped during above week | <u>4,888,857</u> gallons | |
| 10. Gallons per day per service (3) | <u>210</u> gallons | |
| 11. Consumption metered | <u>972,318,000</u> gallons | |
| 12. Consumption metered | <u>79.00%</u> Percent of total consumption | |

13. Customers

| Number being Supplied at Beginning of Year | Disconnected Since | Connected Since | Number being Supplied at Close of Year |
|--|--------------------|-----------------|--|
| 13,168 | 0 | 28 | 13,196 |

| Name of City, Town or District | Number of Customers as of December 31, 2018 |
|--------------------------------|---|
| Hingham | 8,211 |
| Hull | 4,647 |
| Cohasset | 338 |

(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.

CONSUMPTION INFORMATION

| | |
|---|---|
| 1. Estimated total population of territory covered by franchise, | <u>13,614</u> |
| 2. Estimated population reached by the distribution system, | <u>8,803</u> |
| 3. Estimated population actually supplied, | <u>8,803</u> |
| 4. Total consumption during the year (1) | <u>601,135,000</u> gallons |
| 5. Average daily consumption (2) | <u>1,646,945</u> gallons |
| 6. Day on which greatest amount was pumped | <u>June 17, 2018</u> |
| 7. Gallons pumped on above day | <u>2,615,000</u> gallons |
| 8. Week during which greatest amount was pumped | <u>July 9-July 15</u> |
| 9. Gallons pumped during above week | <u>14,904,000</u> gallons |
| 10. Gallons per day per service (3) | <u>344</u> gallons |
| 11. Consumption metered | <u>473,661,000</u> gallons |
| 12. Consumption metered | <u>78.79%</u> 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 |
| 3,930 | | 76 | 4,006 |
| Name of City, Town or District | | Number of Customers as of December 31, 2018 | |
| Millbury | | 4,006 | |

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

CONSUMPTION INFORMATION

| | |
|--|---|
| 1. Estimated total population of territory covered by franchise, | <u>14,118</u> |
| 2. Estimated population reached by the distribution system, | <u>6,266</u> |
| 3. Estimated population actually supplied, | <u>6,266</u> |
| 4. Total consumption during the year (1) | <u>236,907,000</u> gallons |
| 5. Average daily consumption (2) | <u>649,060</u> gallons |
| 6. Day on which greatest amount was pumped | <u>July 31, 2018</u> |
| 7. Gallons pumped on above day | <u>1,105,000</u> gallons |
| 8. Week during which greatest amount was pumped | <u>July 2-July 8</u> |
| 9. Gallons pumped during above week | <u>6,311,000</u> gallons |
| 10. Gallons per day per service (3) | <u>189</u> gallons |
| 11. Consumption metered | <u>181,428,000</u> gallons |
| 12. Consumption metered | <u>76.58%</u> 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 |
| 2,674 | | 4 | 2,678 |
| Name of City, Town or District | | Number of Customers as of December 31,2018 | |
| Oxford | | 2,678 | |

(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

[Signature] Executive Vice President, Treasurer, Secretary and Clerk

[Signature] Director

[Signature] Director

SIGNATURES OF ABOVE PARTIES AFFIXED OUTSIDE THE COMMONWEALTH OF MASSACHUSETTS MUST BE PROPERLY SWORN TO

State of Connecticut

Fairfield County as

[Signature]

March 27, 2019

Then personally appeared DONALD J. MORRISSEY,
EXECUTIVE VICE PRESIDENT, TREASURER, SECRETARY,
CLERK AND DIRECTOR OF AQUARION WATER COMPANY
OF MASSACHUSETTS AND CHARLES V. FRILOTE,
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.

[Signature]

Signature 11/30/2021
Expiration of Commission

Notary Public or
Justice of the Peace

GEORGEANNE F. BERG
NOTARY PUBLIC
MY COMMISSION EXPIRES NOV. 30, 2021



CONSUMPTION INFORMATION - Concluded

By Meter... SEE ATTACHED RATE TARIFF SHEETS DATED October 31, 2018

.....
.....
.....

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?.....

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 | \$3.613 |
| Over 12 CCF per Quarter/ 4 CCF per Month | \$4.588 |

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 | \$2.668 |
| Over 12 CCF per Quarter/ 4 CCF per Month | \$3.230 |

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 | \$2.653 |
| Over 12 CCF per Quarter/ 4 CCF per Month | \$2.959 |

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 | \$2.953 |
|-----------|---------|

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 | \$2.009 |
|-----------|---------|

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.

| <u>Size of Meter</u> | <u>Service Charge</u> | |
|----------------------|-----------------------|--------------------|
| | <u>Per Month</u> | <u>Per Quarter</u> |
| 5/8" | \$ 16.08 | \$ 48.24 |
| 3/4" | \$ 24.05 | \$ 72.15 |
| 1" | \$ 40.12 | \$ 120.36 |
| 1 1/2" | \$ 80.32 | \$ 240.96 |
| 2" | \$ 128.55 | \$ 385.65 |
| 3" | \$ 241.10 | \$ 723.30 |
| 4" | \$ 401.88 | \$ 1,205.64 |
| 6" | \$ 803.82 | \$ 2,411.46 |
| 8" | \$ 1,286.16 | \$ 3,858.48 |

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: October 31, 2018

Effective: November 1, 2018

Issued By: Donald J. Morrissey

Title: Vice President, Treasurer

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 \$4.830
 Over 9 KGAL per Quarter/ 3 KGAL per Month \$6.133

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 \$3.567
 Over 9 KGAL per Quarter/ 3 KGAL per Month \$4.318

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 \$3.547
 Over 9 KGAL per Quarter/ 3 KGAL per Month \$3.956

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 \$3.947

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 \$2.686

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.

| <u>Size of Meter</u> | <u>Service Charge</u> | |
|----------------------|-----------------------|--------------------|
| | <u>Per Month</u> | <u>Per Quarter</u> |
| 5/8" | \$ 16.08 | \$ 48.24 |
| 3/4" | \$ 24.05 | \$ 72.15 |
| 1" | \$ 40.12 | \$ 120.36 |
| 1 1/2" | \$ 80.32 | \$ 240.96 |
| 2" | \$ 128.55 | \$ 385.65 |
| 3" | \$ 241.10 | \$ 723.30 |
| 4" | \$ 401.88 | \$ 1,205.64 |
| 6" | \$ 803.82 | \$ 2,411.46 |
| 8" | \$ 1,286.16 | \$ 3,858.48 |

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: October 31, 2018

Effective: November 1, 2018

Issued By: Donald J. Morrissey

Title: Vice President, Treasurer

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

| | <u>Per Year</u> |
|--|-----------------|
| For each service connection 1” | \$ 122.17 |
| For each service connection 1.25” | 137.54 |
| For each service connection 1.5” | \$ 154.84 |
| For each service connection 2” | \$ 206.69 |
| For each service connection 2.5” | \$ 272.00 |
| For each service connection 3” | \$ 352.67 |
| For each service connection 4” or smaller | \$ 552.44 |
| For each service connection 6” | \$ 1,105.64 |
| For each service connection 8” | \$ 1,873.97 |
| For each service connection 10” | \$ 2,949.64 |
| For each service connection 12” | \$ 4,178.96 |
| | |
| For each privately owned fire hydrant serving Cohasset, Hingham, Hull, Millbury and Oxford | \$ 913.37 |
| For each privately owned fire hydrant outside Cohasset, Hingham, Hull, Millbury and Oxford | \$ 1,150.13 |

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.

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 | \$ 193.51 |
| In addition, annual charges as follows: | |
| Town of Hingham | \$ 395,054.00 |
| Town of Hull | \$ 227,331.00 |
| Town of Cohasset | \$ 18,712.00 |
| Town of Millbury | \$ 159,407.00 |
| Town of Oxford | \$ 110,892.00 |

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: October 31, 2018

Effective: November 1, 2018

Issued By: Donald J. Morrissey

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 $\$2.00 \times 500 = \$1,000$ per month.

TERMS OF PAYMENT

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

Issued: October 31, 2018

Effective: November 1, 2018

Issued By: Donald J. Morrissey

Title: Vice President, Treasurer

MISCELLANEOUS CHARGES

Drought Conditions

| | |
|---|-----------|
| Termination and Restoration Fee – Business Hours* | \$ 65.00 |
| Termination and Restoration Fee – After Hours | \$ 392.00 |

*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”.

Mitigation Fee for the Water Balance Program¹

A Water Balance Mitigation Fee will be charged to applicants associated with projects that are subject to the Water Balance Program, and who have not elected the Applicant Directed Conservation option or the Supplemental Water Supply Source option (as described in the Water Balance Program application) to comply with the Water Balance Program. Applications for new or expanded water usage with an estimated average daily water demand less than 10,000 gallons per day (“GPD”), shall be charged a Water Balance Mitigation Fee rate of \$10 per GPD. For new or expanded water usage equal to or greater than 10,000 GPD, the Water Balance Mitigation Fee rate will be determined by the Company based on the costs of completing water conservation work and the amount of gallons saved associated with said conservation work. In such cases, the Water Balance Mitigation Fee rate will be calculated and determined based on the sum of the actual costs incurred by the Company for completing water conservation work divided by the gallons saved associated with that work (\$/GPD). For new or expanded water usage equal to or greater than 10,000 GPD, the Water Balance Mitigation Fee rate may change from time to time based on the actual costs incurred by the Company and the water conservation gallons saved.

Issued: October 31, 2018

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Title: Vice President, Treasurer

¹ Refer to the Water Balance Program application form for more detailed information about the Water Balance Program.

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.

| | Actual Cost of Meter |
|---|----------------------|
| Frozen Meters | |
| Meter Test Fees 1” and less | \$ 50.00 |
| Larger than 1” | \$ 75.00 |
| Return Check Fee | \$ 20.00 |
| Seasonal Meter Set & Turn On Fee | \$ 65.00 |
| Seasonal Meter Removal Fee & Turn Off Fee | \$ 65.00 |
| Turn-on Fee – Business Hours | \$ 65.00 |
| After Hours Callout | \$ 392.00 |
| Non-Payment Reconnect – Business Hours | \$ 65.00 |
| Non-Payment Reconnect – After Hours | \$ 392.00 |
| 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: October 31, 2018

Effective: November 1, 2018

Issued By: Donald J. Morrissey

Title: Vice President, Treasurer

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

| <u>Size of Meter</u> | <u>Service Charge</u> | |
|----------------------|-----------------------|--------------------|
| | <u>Per Month</u> | <u>Per Quarter</u> |
| 5/8” | \$10.32 | \$30.96 |
| 3/4” | \$15.70 | \$47.10 |
| 1” | \$25.20 | \$75.60 |
| 1 1/2” | \$49.20 | \$147.60 |
| 2” | \$78.00 | \$234.00 |
| 3” | \$145.00 | \$435.00 |
| 4” | \$240.30 | \$720.90 |
| 6” | \$479.60 | \$1,438.80 |
| 8” | \$766.90 | \$2,300.70 |

Consumption Charge per 100 cubic feet for Water Treatment Facility Lease \$0.9524

Consumption Charge per 100 cubic feet for Water Treatment Operation and Maintenance \$1.0639

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 31, 2018

Effective: November 1, 2018

Issued By: Donald J. Morrissey

Title: Vice President, Treasurer

PURCHASED WATER SURCHARGE

AVAILABILITY

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

SURCHARGE AMOUNT

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

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

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

TERMS OF PAYMENT

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

MAIN REPLACEMENT ADJUSTMENT MECHANISM

I. General Description

- A. **Purpose:** The Main Replacement Adjustment Mechanism (“MRAM”) provides the Company with recovery of project costs to support the accelerated replacement and rehabilitation of water-system infrastructure for the purpose of improving or protecting water quality and reliability of service. With implementation of the MRAM, the Company will recover the fixed costs (depreciation, property taxes, return and income taxes) of main replacements, rehabilitation and any connected service lines, valves and hydrants replaced as a result of the main replacement and placed in service annually, and recorded in the individual accounts noted below. MRAM will be adjusted for an annual reconciliation of prior MRAM amounts. Recovery shall occur after review and approval of the Department of Public Utilities (the “Department”).
- B. **Eligible Plant Additions:** Eligible plant additions will consist of the following:
1. (Account 108) Non-revenue producing mains installed as replacements for existing mains that have reached the end of useful life and/or are contributing to safety, reliability, water quality, or other operational issues.
 2. (Account 108) Main cleaning and re-lining projects and relocations that are part of a main replacement project.
 3. (Account 108) Connected valves that are replaced as they have reached the end of useful life and are part of a main replacement project and/or replaced as they are not operating properly and as a result of the main-replacement projects.
 4. (Account 109) Company-segment services installed as in-kind replacements that are part of a main replacement project.
 5. (Account 112) Company-owned hydrants installed to replace existing hydrants that have reached the end of useful life and are part of a main replacement project and/or to replace existing hydrants that are not operating properly and are part of a main replacement project.
- C. **Alternative Funding:** Eligible Plant Additions funded fully through the Water Balance Program (“WBP”) and/or System Development Charge (“SDC”) revenues are not eligible for recovery through the MRAM. Eligible Plant Additions that are partially funded through the WBP and/or SDC funds remain eligible for partial funding under the MRAM for amounts incremental to costs already recovered through base rates, the WBP and the SDC. To account for Eligible Plant Additions that are partially funded through the WBP and/or SDC revenues, a rate-base offset is included in the MRAM revenue requirement calculation to account for these alternate funding sources. In addition, the Company shall submit a detailed accounting of Eligible Plant Additions funded in part through the WBP or the SDC, and completed during the project construction year. The Company will also include

detailed reports of all projects funded by the WPB and SDC conducted during the year.

II. Computation of the MRAM

- A. **Calculation:** The MRAM Adjustment Factor will become effective September 1, 2019 and will recover the fixed costs of Eligible Plant Additions placed in service between January 1, 2017 and December 31, 2018, which are not included in the Company's rate base. Thereafter, the MRAM adjustment factor will be updated on an annual basis to incorporate recovery of costs associated with Eligible Plant Additions placed in service during the prior calendar year (the "Project Year") as well as a reconciliation of funds collected through the prior year MRAM. The Company will submit an application to the Department each March 1 for the prior calendar year for a rate adjustment effective September 1 of each year.

The fixed costs of Eligible Plant Additions will consist of depreciation, property taxes, after-tax return and income taxes. Additional elements of the calculation will include an overhead and burden adjustment, an operation and maintenance ("O&M") offset, and a reconciliation of prior year revenues, or the MRAM reconciliation. The elements are calculated as follows:

1. **Depreciation:** Depreciation expense will be calculated by applying the depreciation rates approved in the Company's most recent base-rate proceeding for the respective plant accounts to the original cost of MRAM-Eligible Plant Additions minus the corresponding retirement unit recorded.
 2. **Property Taxes:** Property tax expense on the first year of investment shall be zero. The property tax expense for the second year of investment shall be one half of the Company's annual property tax expense for eligible net plant for the prior MRAM year. Specifically, the property tax expense for the second year of investment shall be calculated first by applying the effective tax rate to the MRAM-eligible net plant as of December 31 of the prior year and taking one half that amount. For subsequent years, property tax expense shall be calculated based on each investment year's MRAM-eligible plant additions.
 3. **After-Tax Return:** The weighted cost of capital will be as approved in the Company's most recent base-rate proceeding, D.P.U. 17-90, or a subsequent docket.
 4. **Income Taxes:** An income tax gross up will be added based on current federal and state tax rates for projects that are not eligible for deduction under the Tangible Property Regulations ("TPR"). TPR projects are treated as flow-through for accounting purposes and as such require no tax gross up.
- B. **MRAM Reconciliation:** Reconciliation of prior year MRAM revenues equivalent to the shortfall or surplus of MRAM revenue actually collected as compared to those authorized by the Department.

- C. **MRAM Adjustment Factor:** The MRAM Adjustment Factor will be expressed as a percentage carried to two decimal places and will be applied to the effective portion of the total amount billed to each customer under the Company's otherwise applicable rates and charges. The MRAM Adjustment Factor will not be applicable to (1) miscellaneous charges, or (2) the surcharge component of bill associated with the Hingham Water Treatment Plant for customers in Hingham, Hull and Cohasset.

Formula: The formula for calculation of the MRAM Adjustment Factor is as follows:
$$\text{MRAM} = (\text{RB} \times \text{ATR}) + \text{DEP} + \text{PT} - \text{OH-OM} \pm \text{REC}$$

BRWR

Where:

RB = Eligible cost to the Company of Eligible Plant Additions, defined as total cost less any portion funded through the WBP and/or the SDC as noted in Section I.C., accumulated depreciation and accumulated deferred income taxes.

ATR = After-tax return rate applicable to Eligible Plant Additions.

DEP = Annual depreciation expense related to Eligible Plant Additions.

PT = Eligible property taxes related to Eligible Plant Additions.

OH = Overhead and burden adjustment.

OM = O&M leak repair offset.

BRWR = Base retail water revenues as approved by the Department in the Company's most recent base-rate proceeding, D.P.U. 17-90, or a subsequent docket.

REC = Reconciliation of prior year MRAM revenues.

III. Customer Safeguards

- A. ***Overhead and Burden Adjustments:*** For purposes of MRAM calculations, the actual overheads and burdens shall be reduced to the extent that actual O&M overheads and burdens in a given year are less than the amount included in base rates as determined in the Company's most recent base distribution rate case. Such reduction shall be the difference between the actual O&M overheads and burdens and the amount included in base rates. In addition, the percentage of capitalized overheads and burdens assigned to MRAM projects shall be set equal to the ratio of MRAM to non-MRAM direct costs in any given year. As determined in the Company's most recent base rate proceeding, D.P.U. 17-90, the overhead and burdens baseline is \$1,137,601.
- B. ***O&M Offset:*** The O&M Offset represents the reduced operating and maintenance expense associated with the elimination of water leaks through MRAM-eligible plant additions. The MRAM Offset applicable each year is determined by multiplying Eligible MRAM Savings by the total miles of non-revenue producing mains installed as replacements for existing mains, in the period January 1 through December 31 of the respective MRAM Project Year. Eligible MRAM Savings are the cumulative reduction in operating and maintenance leak repair expense achieved with the replacement of aging and/or leak-prone main. Eligible MRAM Savings shall be equal to the most recent three-year average of leak repair cost per mile for mains, updated annually in the annual MRAM filed on March 1 of each year. The costs associated with leak repair expense shall be determined in accordance with the Uniform System of Accounts for Water Companies, 220 C.M.R. § 52.00, Operating Expense Accounts, in use during the test year of the most recent base-rate proceeding conducted pursuant to G.L. c. 164, § 94.
- C. ***MRAM Annual Earnings Test:*** The Company shall include in its annual March 1 MRAM filing to the Department a calculation of its actual earnings for the prior calendar year. The MRAM will operate only when the Company is earning at or below the authorized return on equity as approved by the Department in the Company's most recent base-rate proceeding, D.P.U. 17-90, or as revised by the Department in a subsequent proceeding. In the event that the Company is earning above its authorized return on equity in a given MRAM Project Year, the Company shall include in its March 1 MRAM filing: (1) a quantification of the MRAM-eligible costs from the MRAM Project Year in which the Company earned in excess of its authorized return on equity; and (2) a proposal regarding the deferral of the recovery of the identified MRAM-eligible costs to the Company's next base distribution rate proceeding.
- D. ***Change in Revenue Requirement Cap:*** The maximum change in the revenue requirement to be billed in any given year through the Company's MRAM shall not exceed two percent (2 percent) of annual retail water revenues for the prior calendar year. Application of the Revenue Requirement Cap shall not affect the calculation of MRAM recovery, including MRAM Revenue Requirement, in subsequent periods. However, any MRAM recovery approved by the Department in excess of the Revenue RequirementCap may be deferred for recovery in the following year to the extent that

such deferral does not exceed the revenue requirement cap in the relevant MRAM Project Year. The MRAM will also have an additional aggregate cap of 10 percent between general rate cases. The 10 percent revenue cap will be based upon the authorized revenues from the Company's most recent base-rate proceeding less amounts related to miscellaneous charges, surcharges related to the Hingham Water Treatment Plant and any purchased water surcharge revenues. The resultant base revenues will be multiplied by 10 percent to determine the aggregate MRAM revenue cap.

- E. **Threshold Recovery:** The number of miles of main replaced each MRAM Project Year shall meet or exceed a threshold level of 1.25 miles per year. To demonstrate that the threshold is met, the Company shall in each March 1 annual MRAM filing submit a work summary report documenting installations of MRAM-eligible main and showing, through the provision of third-party contractor invoices, that at least 1.25 miles of main were replaced and are in-service as of December 31 of the prior MRAM Project Year. Failure to meet or exceed the threshold level of main replacement of 1.25 miles per MRAM Project Year shall result in the suspension and delay of the recovery of the MRAM-eligible costs for the respective MRAM Project Year in which the threshold is not met until the Company's next base rate proceeding.
- F. **Project Changes:** If, because of changed circumstances or new information, the Company plans to complete projects not included in the MRAM project plan, or to reprioritize projects contained in the project plan, the Company will notify town representatives in the town where the project is located. As part of the annual March 1 filing, the Company will provide documentation and other necessary support demonstrating the prudence of the MRAM projects completed in the prior MRAM Project Year, as well as documentation supporting changes made to the MRAM project plan.
- G. **New Base Rates:** The MRAM adjustment factor will be reset as of the effective date of new base rates that provide for prospective recovery of the annual capital-additions cost theretofore recovered under the MRAM. Thereafter, only the fixed costs of new eligible plant additions not previously included in the Company's rate base would be reflected in the annual updates of the MRAM.
- H. **Customer Notice:** The MRAM adjustment factor will be shown as a separate line item on customer bills. Customers shall be notified of changes in the MRAM by including appropriate information on the first bill issued by the Company following any change allowed by the Department.

IV. Annual Report/Stakeholder Input

On March 1 of each year, as part of the Company's annual filing to the Department to implement the MRAM factor on September 1, the Company will submit a plan that lists the MRAM-Eligible Plant Additions that it plans to construct in the upcoming three years. The plan will include a description of each project, the value that completing the project will provide to customers, the estimated cost, and the proposed year of completion. The plan will also include the

computation of the MRAM adjustment factor that would result from the completion of the MRAM-Eligible Plant Additions based on the estimated cost of those plant additions, along with customer bill impacts. Prior to the March 1 filing, the Company will consult with town representatives in the towns served by the Company to review the construction plan and to obtain input and coordination on the execution and/or prioritization of those projects. At a minimum, to allow for adequate time to coordinate with town representatives, the Company shall provide a preliminary copy of the plan to the towns no later than 90 days before submitting the plan to the Department. The Company will provide notice to the towns of all filings to the Department relating to the MRAM.