



**STATE OF RHODE ISLAND
PUBLIC UTILITIES COMMISSION**

IN RE: PAWTUCKET WATER SUPPLY BOARD

APPLICATION TO CHANGE RATES

SEPTEMBER 14, 2023

**STATE OF RHODE ISLAND
PUBLIC UTILITIES COMMISSION**

IN RE: PAWTUCKET WATER SUPPLY BOARD

DOCKET NO:

TABLE OF CONTENTS

1. Letter of Transmittal.
2. Notice to Commission of Proposed General Rate Schedule Changes (pursuant to State of Rhode Island Public Utilities Commission Rules of Practice and Procedure, Rule 5.3).
3. Notice of Filing Proposed General Rate Changes to be Published in Providence Journal and Provided to Customers (pursuant to State of Rhode Island Public Utilities Commission Rules of Practice and Procedure, Rule 5.4).
4. Notice to City and Town Councils of Cities and Towns Serviced by Pawtucket Water Supply Board (pursuant to R.I.G.L. § 39-3-12.1).
5. Testimony of David M. Fox and supporting schedules.
6. Testimony of James L. DeCelles.
7. Index (pursuant to State of Rhode Island Public Utilities Commission Rules of Practice and Procedure, Part 5).
8. Appendix.

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September 14, 2023

Ronald T. Gerwatowski , Chairperson
Rhode Island Public Utilities Commission
89 Jefferson Boulevard
Warwick, RI 02888

Re: Pawtucket Water Supply Board, General Rate Filing

Dear Chairperson Gerwatowski:

On behalf of the Pawtucket Water Supply Board, enclosed you will find revised rate schedules that the Pawtucket Water Supply Board proposes to place in effect in thirty (30) days. The Pawtucket Water Supply Board's filing in support of the revised rates includes pre-filed testimony from two witnesses, as well as supporting Schedules and Exhibits. Additionally, we have included all applicable information required by the Rhode Island Public Utilities Commission's Rules of Practice and Procedure, and statements conforming to the mandates of R.I.G.L. §39-3-12.1. Furthermore, the Pawtucket Water Supply Board, pursuant to R.I.G.L. §39-3-12.1, is providing a copy of all documents to the following communities it serves:

- (1) The City of Central Falls;
- (2) The Town of Cumberland.

We have also included a copy of our proposed notice to be published in the Providence Journal. We respectfully ask that your staff immediately review the proposed notice so that it can be published as prescribed by law.

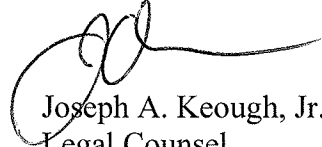
The following individuals should receive all correspondence for any additional information to be provided by the Public Utilities Commission: James L. DeCelles, P.E., Chief Engineer, Pawtucket Water Supply Board, 85 Branch Street, Pawtucket, Rhode Island 02860 and Joseph A. Keough, Jr., Esquire, Keough & Sweeney, Ltd., 41 Mendon Avenue, Pawtucket, Rhode Island 02861.

Ronald T. Gerwatowski, Chairperson
Rhode Island Public Utilities Commission
September 14, 2023
Page 2

Please note that I will act as legal counsel for the Pawtucket Water Supply Board and will represent the Board in all rate filing matters concerning its rate application.

Thank you for your attention to these matters.

Sincerely,

A handwritten signature in black ink, consisting of a large, stylized initial 'J' followed by a horizontal line that extends to the right and then loops back under the 'J'.

Joseph A. Keough, Jr.
Legal Counsel
Pawtucket Water Supply Board

**STATE OF RHODE ISLAND
PUBLIC UTILITIES COMMISSION**

IN RE: PAWTUCKET WATER SUPPLY BOARD

DOCKET NO:

NOTICE OF PROPOSED CHANGES IN RATES

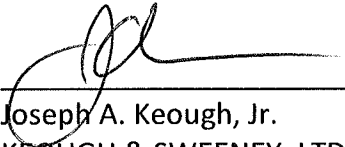
In accordance with Section 5.3 of the Rules of Practice and Procedure for the Public Utilities Commission and R.I.G.L. §39-3-11, the Pawtucket Water Supply Board hereby gives notice of its proposed changes in rates. Said changes are contained in the written testimony and exhibits attached hereto and incorporated herein.

1. In its filing, the PWSB seeks to implement a multi-year rate plan through a four step increase pursuant to R.I.G.L. § 39-15.1-4. In the first step of the increase, proposed to take effect on October 14, 2023, the PWSB's preliminary proposed rates are designed to collect additional operating revenue in the amount of \$1,423,220 to support total operating revenue requirements of \$21,764,363. The impact of this request for a typical residential customer who uses 800 cubic feet of water per month (200 gallons per day) will result in an increase of \$21.43 per year, or 4.0%. The impact on all other customers will vary based on customer class.
2. It must be noted that the PWSB is currently negotiating an extension of its contract for the operation of its water treatment plant, which expires on February 14, 2024. The increase set forth above for the first step does not include any revenues to cover any increased costs that may result from the extension of this contract to avoid any impact on the PWSB's negotiations. The PWSB's proposed increase will likely increase once negotiations are concluded, and the PWSB will issue a supplemental notice.

3. In the second step of the increase, proposed to take effect on July 1, 2024, the PWSB's proposed rates are preliminarily designed to collect additional operating revenue in the amount of \$80,464 to support total operating revenue requirements of \$21,846,138. The impact of this request will result in an across-the-board rate increase of approximately 0.4% on all rate classes. For a typical residential customer who uses 800 cubic feet of water per month (200 gallons per day), the impact of this request will result in an increase of \$2.08 per year.
4. In the third step of the increase, proposed to take effect on July 1, 2025, the PWSB's proposed rates are preliminarily designed to collect additional operating revenue in the amount of \$74,116 to support total operating revenue requirements of \$21,920,254. The impact of this request will result in an across-the-board rate increase of approximately 0.3% on all rate classes. For a typical residential customer who uses 800 cubic feet of water per month (200 gallons per day), the impact of this request will result in an increase of \$1.91 per year.
5. In the fourth step of the increase, proposed to take effect on July 1, 2026, the PWSB's proposed rates are preliminarily designed to collect additional operating revenue in the amount of \$80,435 to support total operating revenue requirements of \$22,000,689. The impact of this request will result in an across-the-board rate increase of approximately 0.4% on all rate classes. For a typical residential customer who uses 800 cubic feet of water per month (200 gallons per day), the impact of this request will result in an increase of \$2.08 per year.

6. As the Commission knows, the PWSB is required to submit compliance filings before the second, third and fourth steps of the proposed increase become effective pursuant to R.I.G.L. § 39-15.1-4, which must be approved by the Commission. In addition, the increases are likely to be higher in the second, third and fourth steps as the proposed increases do not include annual escalation expenses for the water treatment plant operations contract, and do not include the actual anticipated costs associated with a Union Contract covering certain PWSB employees that expires on June 30, 2024, to avoid any negative impact on negotiations.
7. Additionally, the Pawtucket Water Supply Board respectfully represents that:
 - A. The Pawtucket Water Supply Board is a municipal board authorized by the City Charter of the City of Pawtucket, Rhode Island with its principal place of business at 85 Branch Street, Pawtucket, Rhode Island;
 - B. Correspondence should be addressed to James L. DeCelles, P.E., Chief Engineer, Pawtucket Water Supply Board, 85 Branch Street, Pawtucket, Rhode Island 02860 and to Joseph A. Keough, Jr., Keough + Sweeney, Ltd., 41 Mendon Avenue, Pawtucket, Rhode Island 02861;
 - C. In accordance with the Commission's Rules Of Practice And Procedure and R.I.G.L. §39-3-11, this filing contains documents contain data, information and testimony in support of said request;
 - D. Also submitted herein are documents and statements in conformance with R.I.G.L. §39-3-12.1

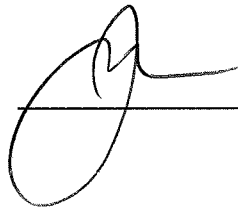
PAWTUCKET WATER SUPPLY BOARD
By its attorney,



Joseph A. Keough, Jr.
KEOUGH & SWEENEY, LTD
41 Mendon Avenue
Pawtucket, RI 02861
(401) 724-3600 (phone)
(401) 724-9909 (fax)
jkeoughjr@keoughsweeney.com

CERTIFICATION

I, the undersigned, hereby certify that a true copy of the within was delivered in hand to the Public Utilities Commission, 89 Jefferson Boulevard, RI 02888 and mailed to the Department of Attorney General, 150 South Main Street, Providence, RI 02903 via first class mail on the 14 day of September, 2023.



**STATE OF RHODE ISLAND
PUBLIC UTILITIES COMMISSION**

**IN RE: PAWTUCKET WATER SUPPLY BOARD
APPLICATION TO CHANGE RATE SCHEDULES**

DOCKET NO.

**NOTICE TO CUSTOMERS OF THE PAWTUCKET WATER SUPPLY BOARD OF FILING AND CHANGE IN RATE
SCHEDULES**

On September 14, 2023, pursuant to Rhode Island General Law § 39-3-11 and Part 5 of the Rules of Practice and Procedure for the Rhode Island Public Utilities Commission (“Commission”), the Pawtucket Water Supply Board (“PWSB”) hereby gives notice that it has filed with the Commission an application to increase its rates.

In its filing, the PWSB seeks to implement a multi-year rate plan through a four step increase pursuant to R.I.G.L. § 39-15.1-4. In the first step of the increase, proposed to take effect on October 14, 2023, the PWSB’s preliminary proposed rates are designed to collect additional operating revenue in the amount of \$1,423,220 to support total operating revenue requirements of \$21,764,363. The impact of this request for a typical residential customer who uses 800 cubic feet of water per month (200 gallons per day) will result in an increase of \$21.43 per year, or 4.0%. The impact on all other customers will vary based on customer class.

While the new rates requested under the first step of this increase are proposed to become effective October 14, 2023, the Commission can suspend the rates for up to eight months from the proposed effective date. No rate change will take effect until the Commission has conducted a full investigation and hearing on the proposal. Please note that while the PWSB is requesting this change in rates, the Commission, after full investigation and hearings, may order different rates than proposed by the PWSB.

In particular, it must be noted that the PWSB is currently negotiating an extension of its contract for the operation of its water treatment plant, which expires on February 14, 2024. The increase set forth above for the first step does **not** include any revenues to cover any increased costs that may result from the extension of this contract to avoid any impact on the PWSB’s negotiations. The PWSB’s proposed increase will likely increase once negotiations are concluded, and the PWSB will issue a supplemental notice.

In the second step of the increase, proposed to take effect on July 1, 2024, the PWSB’s proposed rates are preliminarily designed to collect additional operating revenue in the amount of \$80,464 to support total operating revenue requirements of \$21,846,138. The impact of this request will result in an across-the-board rate increase of approximately 0.4% on all rate classes. For a typical residential customer who uses 800 cubic feet of water per month (200 gallons per day), the impact of this request will result in an increase of \$2.08 per year.

In the third step of the increase, proposed to take effect on July 1, 2025, the PWSB's proposed rates are preliminarily designed to collect additional operating revenue in the amount of \$74,116 to support total operating revenue requirements of \$21,920,254. The impact of this request will result in an across-the-board rate increase of approximately 0.3% on all rate classes. For a typical residential customer who uses 800 cubic feet of water per month (200 gallons per day), the impact of this request will result in an increase of \$1.91 per year.

In the fourth step of the increase, proposed to take effect on July 1, 2026, the PWSB's proposed rates are preliminarily designed to collect additional operating revenue in the amount of \$80,435 to support total operating revenue requirements of \$22,000,689. The impact of this request will result in an across-the-board rate increase of approximately 0.4% on all rate classes. For a typical residential customer who uses 800 cubic feet of water per month (200 gallons per day), the impact of this request will result in an increase of \$2.08 per year.

The PWSB is required to submit compliance filings to the Commission before the second, third and fourth steps of the proposed increase become effective pursuant to R.I.G.L. § 39-15.1-4, which must be approved by the Commission. In addition, the increases are likely to be higher in the second, third and fourth steps as the proposed increases do not include annual escalation expenses for the water treatment plant operations contract, and do not include the actual anticipated costs associated with a Union Contract covering certain PWSB employees that expires on June 30, 2024, to avoid any negative impact on negotiations.

The Commission will publish a notice of the hearing dates when they are scheduled. Ratepayers may comment on the proposed rate increases at that time.

A copy of the application is on file for examination at the Pawtucket Water Supply Board's office and at the offices of the Public Utilities Commission, 89 Jefferson Boulevard, Warwick, Rhode Island. A copy of the filing was also provided to the Cities of Pawtucket and Central Falls, Rhode Island and the Town of Cumberland, Rhode Island. A copy was also provided to the Rhode Island Attorney General's Department, Consumer Division. Subscriber billing statements will contain notice of this filing.

Pawtucket Water Supply Board
85 Branch Street, Pawtucket, RI 02860
<http://www.pwsb.org>

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September 14, 2023

The Town of Cumberland
Town Council
c/o Town of Cumberland Clerk
45 Broad Street
P.O. Box 7
Cumberland, RI 02864

RE: Proposed Rate Increase/Pawtucket Water Supply Board


Honorable Council Members:

Please be advised that the Pawtucket Water Supply Board will be filing for rate changes with the Rhode Island Public Utilities Commission on September 14, 2023. Enclosed you will find a copy of the filing.

Additionally, in conformance with RIGL §39-3-12.1, enclosed with the filing you will find copies of the Pawtucket Water Supply Board's compliance with the requirements of that statute.

Thank you for your attention to these matters.

Sincerely,


Joseph A. Keough, Jr.

Enclosure

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FAX (617) 451-1914

September 14, 2023

The Central Falls City Council
City of Central Falls
c/o Central Falls City Clerk
580 Broad Street
Central Falls, RI 02863

RE: Pawtucket Water Supply Board – Proposed Rate Increase

Honorable Council Members:

Please be advised that the Pawtucket Water Supply Board will be filing for rate changes with the Rhode Island Public Utilities Commission on September 14, 2023. Enclosed you will find a copy of the filing.

Additionally, in conformance with RIGL §39-3-12.1, enclosed with the filing you will find copies of the Pawtucket Water Supply Board's compliance with the requirements of that statute.

Thank you for your attention to these matters.

Sincerely,


Joseph A. Keough, Jr.

Enclosure

DIRECT TESTIMONY OF
Mr. David M. Fox, Vice President
Raftelis Financial Consultants, Inc.

for
THE PAWTUCKET WATER SUPPLY BOARD

DOCKET No.

September 14, 2023

1 **I. INTRODUCTION**

2 **Q. Would you please give your name and business address for the record?**

3 A. My name is David M. Fox, and my business address is 24 Superior Drive, Suite 107,
4 Natick, Massachusetts 01760.

5

6 **Q. By whom are you employed and in what capacity?**

7 A. I am a Vice President of Raftelis Financial Consultants, Inc. (Raftelis), a consulting firm
8 specializing in the areas of water and wastewater finance and pricing. Raftelis was
9 established in 1993 in Charlotte, North Carolina, by George A. Raftelis to provide
10 financial and management consulting services to public and private sector clients.
11 Raftelis is a national leader in the development of water and wastewater rates.

12

13 **Q. Please describe your educational background and work experience.**

14 A. I have a bachelor's degree in Economics from Coastal Carolina University in Conway,
15 SC and a master's degree in Economics from Clemson University in Clemson, SC. After
16 graduating in 2009, I was employed by Raftelis. Over the course of my career, I have
17 worked on over 100 water and wastewater rate and financial studies within the
18 United States. I have also had the opportunity to work on numerous financial
19 feasibility studies in support of debt issues, capital program financing support,
20 customer rate affordability analyses, utility valuations studies, and rate benchmarking
21 surveys. I currently lead Raftelis' New England efforts based out of our office in Natick,
22 MA.

23

24 **Q. Have you previously testified before state regulatory commissions or courts on rate
25 related matters?**

26 A. Yes. I have testified and submitted expert witness analyses in support of dockets at
27 the Rhode Island, New Hampshire, Maine, Pennsylvania, and California Public Utilities

1 Commissions, Massachusetts Departments of Public Utilities, and New Jersey Board
2 of Public Utilities.

3
4 **Q. Do you belong to any professional organizations or committees?**

5 A. Yes, I am a member of the American Water Works Association, the New England
6 Water Works Association, Massachusetts Water Works Association, and the Rhode
7 Island Water Works Association. I also sit on the Financial Management Committee
8 of the New England Water Works Association. For the American Water Works
9 Association, I also contributed to the most recent (7th edition) of the M1 Manual on
10 rates – Principles of Water Rates, Fees, and Charges.

11
12 **Q. Please describe your role in this proceeding.**

13 A. I am testifying in support of a multi-year rate increase requested by the Pawtucket
14 Water Supply Board (PWSB).

15
16 **Q. Please describe the purpose of your testimony.**

17 A. Raftelis developed a normalized test year for the fiscal year ending June 30, 2022
18 (FY22) and a rate year for the fiscal year ending June 30, 2024 (FY24), as well as an
19 updated cost of service and rate design analysis, in support of PWSB's proposed rate
20 increase. I also provided a schedule for PWSB's proposed step increases in the Fiscal
21 Years ending June 30, 2025, 2026 and 2027. My testimony provides an explanation
22 for Raftelis' work in developing the test year, rate year, cost of service, and rate
23 design, as well as the schedules attached to my testimony.

24
25 **II. OVERVIEW**

26 **Q. What are the major items driving this rate request?**

27 A. They are as follows:

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1. The need to update volumetric rates and revenue with respect to consumption:

Since the PWSB’s last rate case in 2015, it has experienced a declining average consumption for its retail customer class, and a small increase in average consumption for its wholesale customer. PWSB proposes to develop rate year consumption billing units using the average annual changes in consumption from FY 2015 through FY 2023 for the retail and wholesale classes, which results in rates that are necessary to generate the required revenue.

2. Salaries and Related Benefits

PWSB requires an adjustment for increases to salaries and related benefits, which Mr. DeCelles discusses in his pre-filed testimony. As Mr. DeCelles’ pointed out in his testimony, the contract that covers the 12 employees in Teamsters Local 251 (Teamsters) expired on June 30, 2023. The PWSB has reached a tentative agreement that provides for 3% increases in Fiscal Years 2024, 2025 and 2026. As such, I have included these increases in my schedules.

In addition, the PWSB has 36 employees who are members of RI Council 94, AFSCME, AFL-CIO Local 1012 (Local 1012), and who are in the final year of a three-year contract, which expires on June 30, 2024. I have included a 1% increase for these employees in Fiscal Years 2025, 2026 and 2027. As set forth in Mr. DeCelles’ testimony, this is a place holder, and the actual increases for those years can be addressed in the mandatory compliance filings required under R.I.G.L. § 39-15.1-4, when the actual increases are known.

I also adjusted the benefits, including health and dental insurance premiums where they are known.

1 **3. Impact of Increases in Electricity Expenses:**

2 PWSB’s electricity expenses, like many other utilities, are increasing. Based on an
3 increase in rates associated with PWSB’s electricity supply contracts, rate year
4 adjustments have been made to account for increases in electricity costs.

5
6 **4. Treatment Plant Operating Contract:**

7 PWSB is currently in the process of entering into a new treatment plant operations
8 contract. It is expected that the increase in this expense will be finalized prior to
9 the approval of rates in this proceeding. As such, I have not included a rate year
10 adjustment for this line item at the time of this filing, although an increase is
11 expected. Please refer to Mr. DeCelles’ testimony for more information on the
12 treatment plant operating contract.

13
14 **5. Miscellaneous Adjustments:**

15 A number of adjustments were made to reflect increasing expenses associated
16 with postage and printing, property insurance, and property taxes. I have also
17 made rate year adjustments to reflect inflationary increases to all other expenses,
18 assuming an annual increase of 3.6% from the test year for inflation.

19
20 **Q. How much of an increase is PWSB requesting for the Fiscal Year 2024 Rate Year?**

21 A. PWSB requires additional user charge revenue, in the amount of \$1,423,220 for the
22 FY24 rate year that will increase total rate year revenue to \$21,764,363. This
23 represents an increase over adjusted test year user charge revenue of 7.00%. It should
24 be noted that this increase does *not* include the anticipated increase in the treatment
25 plant operating contract. As such, the actual increase will be higher depending on the
26 outcome of negotiations for this contract.

1 **Q. Will all rates increase by the percentages set forth above in the first step of the**
2 **proposed increase in FY 2024?**

3 A. No. I did not apply an across-the-board increase to all rates in the Rate Year FY 2024,
4 but rather performed a cost of service study to determine the appropriate recovery
5 of revenues from each of PWSB's rate components. As set forth in my schedules, the
6 associated increases and impacts to customers will vary.

7

8 **Q. How are the proposed rate increases for steps 2, 3 and 4 in FY 2025, 2026 and 2027**
9 **applied?**

10 A. These increases are applied across the board.

11

12 **Q. Does that conclude your overview?**

13 A. Yes.

14

15 **III. TEST YEAR AND ADJUSTED TEST YEAR (FY22)**

16 **Q. Mr. Fox, does the test year reflect audited figures?**

17 A. Yes. An independent audit of PWSB's 2022 fiscal year was completed and the audit
18 results were used as the basis for the test year. Schedule DF – 1 presents the test year
19 (FY 2022) actuals, as well as fiscal years 2021 and 2020 for comparison purposes.

20

21 **Q. How was the test year normalized?**

22 A. Raftelis worked in conjunction with PWSB staff to identify test year adjustments and
23 develop a normalized test year. This also involved review of the audited financial
24 statements and trial balance, and some of the detailed posting to the general ledger
25 accounts. This review provided an understanding of the detailed transactions included
26 in the revenue and expense. This review along with discussions with management are
27 the basis for the adjusted test year.

1 **Q. What is the basis for the adjusted test year figures?**

2 A. First, a number of normalizing adjustments were made, and they are identified on
3 Schedule DF – 1:

- 4 • Adjustment (1) – I removed Municipal Employees’ Retirement System (MERS)
5 Defined benefits as these amounts reflect accounting adjustments, rather than
6 cash needs of the PWSB. Therefore, I removed them from the adjusted test year.
- 7 • Adjustment (2) – Depreciation expenses were also removed from the adjusted test
8 year.
- 9 • Adjustment (3) – This adjustment removes capitalized labor from the adjusted test
10 year revenue requirements as the associated expense is not paid from general
11 operating revenue.

12
13 **Q. Mr. Fox did you complete a schedule that shows the test year revenue by source
14 that ties into the audited financial statements for FY 2022?**

15 A. Yes, see Schedule DF - 9.

16
17 **Q. Have you provided historic revenues and expenses for the last three years?**

18 A. Yes, please see Schedule DF - 1.

19
20 **Q. Does your adjusted test year represent a level of activity for a normalized year of
21 the PWSB?**

22 A. Yes, it does.

23
24 **IV. RATE YEAR (Step One - FY June 30, 2024)**

25 **Q. How would you like to address the rate year you developed?**

26 A. I would like to address the rate year by reviewing the consumption and the revenue
27 accounts, and then I will address expenses for the twelve-month period ending June
28 30, 2024 (FY 2024), which is the first step of the PWSB’s proposed four step increase.

1 **Rate Year Consumption/Revenue**

2 **Q. Would you please provide a brief overview regarding the consumption projections**
3 **used for ratemaking purposes?**

4 A. Like many utilities across the nation, PWSB’s service area has experienced declining
5 water consumption and consequently consumption-based revenue. PWSB is
6 proposing to use the average changes in consumption from FY 2015 to FY 2023 to
7 develop the billable consumption for the rate year. PWSB is hopeful this will generate
8 the PUC approved revenues. The following table provides a historical presentation (FY
9 2015 through FY 2023) of consumption and the associated average percentage
10 changes over the same time period.

Consumption (Ccf)	Docket 4550	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Retail										
Small (5/8 - 1")	2,624,381	2,624,439	2,618,331	2,611,775	2,541,037	2,566,556	2,588,898	2,690,173	2,499,010	2,517,084
Large (> 1")	821,930	821,930	785,494	712,294	704,852	734,086	671,515	695,561	680,887	688,774
Subtotal: Retail	3,446,311	3,446,369	3,403,825	3,324,069	3,245,889	3,300,642	3,260,413	3,385,734	3,179,897	3,205,858
Wholesale										
Cumberland	274,064	302,739	292,283	378,242	316,404	338,977	329,352	479,331	393,010	418,439
Subtotal: Wholesale	274,064	302,739	292,283	378,242	316,404	338,977	329,352	479,331	393,010	418,439
Total: Consumption (Ccf)	3,720,375	3,749,108	3,696,108	3,702,311	3,562,293	3,639,619	3,589,765	3,865,065	3,572,907	3,624,297
Annual % Change										
		FY 2015	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Avg.
Retail										
Small (5/8 - 1")		-0.2%	-0.3%	-2.7%	1.0%	0.9%	3.9%	-7.1%	0.7%	-0.5%
Large (> 1")		-4.4%	-9.3%	-1.0%	4.1%	-8.5%	3.6%	-2.1%	1.2%	-2.1%
Subtotal: Retail		-1.2%	-2.3%	-2.4%	1.7%	-1.2%	3.8%	-6.1%	0.8%	-0.9%
Wholesale										
Cumberland		-3.5%	29.4%	-16.3%	7.1%	-2.8%	45.5%	-18.0%	6.5%	6.0%
Subtotal: Wholesale		-3.5%	29.4%	-16.3%	7.1%	-2.8%	45.5%	-18.0%	6.5%	6.0%
Total: Consumption (Ccf)		-1.4%	0.2%	-3.8%	2.2%	-1.4%	7.7%	-7.6%	1.4%	-0.3%

11
12
13 **Q. What approach have you used to calculate the rate year consumption revenue in**
14 **this docket?**

15 A. I applied the average annual percentage changes as presented in the table above to
16 the most recent fiscal year of consumption (FY 2023) to project the rate year (FY 2024)
17 consumption.

18
19 **Q. How did you develop the number of customer accounts by meter size in the rate**
20 **year?**

1 A. I utilized the same approach for consumption in determining rate year customer
2 accounts by analyzing the average historical change in consumption by meter size,
3 and applying that percentage to the test year amounts for the rate year. This resulted
4 in a very small increase in the number of total accounts, or approximately 0.2% from
5 the test year to the rate year.

6

7 **Q. Did you make any rate year adjustments to the revenue accounts?**

8 A. No. Other than increasing user charge revenue based on the cost of service study
9 which will be detailed later in my testimony, I maintained all other revenue amounts
10 at test year levels.

11

12 **Q. Does that complete your review of revenue for the rate year?**

13 A. Yes.

14

15 **Q. How would you like to continue your rate year testimony?**

16 A. I would like to continue by reviewing the expense accounts as presented in DF -1.

17

18 **Rate Year Expenses**

19 **Q. Where would you like to begin?**

20 A. The first group of accounts I would like to discuss are Personnel expenses. Test year
21 salaries and related benefits were increased for the rate year to coincide with FY 2024
22 anticipated amounts including the tentative 3% increase for the Teamsters
23 employees. The associated changes in personnel related expenses were utilized to
24 increase rate year expenses for each category of expense for appropriate allocation
25 within the cost of service study.

26

27

1 **Q. Did you also increase FICA and Medicare expenses for the rate year?**

2 A. Yes, FICA and Medicare expenses are a function of payroll expenses and have been
3 increased accordingly for the rate year.

4

5 **Q. Have you also increased health and dental insurance?**

6 A. Yes, I have increased the health and dental insurance costs to reflect the actual
7 premiums from insurers in place during FY 2024.

8

9 **Q. Have you made any other adjustments to salaries or benefits?**

10 A. Yes, I have made an adjustment to PWSB's expenses for the Municipal Employee's
11 Retirement System (MERS). PWSB's trial balance includes both an accrual as well as
12 an actual annual expense contribution by PWSB. To arrive at the actual cash needs for
13 MERS benefits, I have removed the liability accrual and kept only the annual expense.

14

15 **Q. Do you have any other adjustments to Personnel expenses?**

16 A. No, I do not. Although as noted below when addressing the multi-year increases, I
17 have calculated increases for the Teamsters employees for FY 2025 and 2026, and I
18 have included a place holder for the anticipated contract increase for Local 1012
19 employees for FY 2025, 2026 and 2027.

20

21 **Q. Are there other non-Personnel expenses that have been adjusted?**

22 A. Yes, I have reviewed a number of expenses individually and have made adjustments
23 to rate year amounts accordingly. The most significant of these adjustments are for
24 Postage and Printing, Property Insurance, Electricity, and Property Tax preliminary
25 assessments. Property taxes will be updated during this case as actual assessments
26 are available.

27

1 **Q. Please explain the adjustment to Postage and Printing Expense.**

2 A. The total adjustment to Postage and Printing is \$17,240. The reason for this increase
3 is an associated increase in postage and vendor reimbursements.

4

5 **Q. Please explain the adjustment to Property Insurance.**

6 A. The total adjustment to Property Insurance is \$30,574. The reason for this increase is
7 due to an increase in estimated premiums as provided to PWSB by the Rhode Island
8 Interlocal Risk Management Trust.

9

10 **Q. Please explain the adjustment to the Electricity Expense.**

11 A. The total adjustment to Electricity is \$302,966. The reason for this increase is an
12 increase in PWSB's cost per kilowatt hour per its electric supply contracts.

13

14 **Q. Please explain the adjustment to the Property Taxes.**

15 A. As noted in my schedules, there has been a downward adjustment of \$140,096. This
16 could change as the PWSB receives updated bills during the course of this Docket, and
17 this expense will be updated. It should also be noted that PWSB had a ten-year Tax
18 Compact with the Town of Cumberland for property taxes that expired on February
19 28, 2023. The PWSB is in the process of negotiating a new agreement with
20 Cumberland, and updated information on these negotiations will be provided during
21 the course of this Docket.

22

23 **Q. Are there any other expense adjustments?**

24 A. Yes, I applied a 3.6% annual inflation adjustment to the PWSB's Test Year expenses.
25 This inflation rate is based on the annual increase in the Gross Domestic Product –
26 Price Index from the 2nd quarter of 2022 to the 2nd quarter of 2023, per economic data
27 from the Federal Reserve Economic Data (FRED) of the St. Louis Federal Reserve.

1 **Q. Does that conclude your review of rate year expense adjustments?**

2 A. Yes, with one exception. The only other adjustment I have made was to recalculate
3 PWSB's net operating reserve utilizing 3.0% based on rate year levels of expenses and
4 miscellaneous revenues. Please see schedule DF – 1 for a presentation of the reserve
5 requirement calculation. Also, no additional revenue is required for increases in debt
6 service or a deposit in the O&M reserve. Although, once the Treatment Plant Operations
7 contract is updated, an O&M reserve contribution may be required, as the annual
8 associated cost is included in the O&M reserve requirement calculation.

9

10 **Q. What would you like to discuss next?**

11 A. I would like to move to an overview of the schedules developed for cost of service, rate
12 design, and customer impacts.

13

14 **V. COST OF SERVICE, RATE DESIGN, AND CUSTOMER IMPACTS**

15 **Q. How would you like to begin?**

16 A. I'd first like to provide an overview of the schedules as provided with this testimony.

17

18 **Q. Please describe the schedules included with this pre-filed direct testimony.**

19 A. I have attempted to maintain the same numbering and schedule formatting as used in
20 PWSB's prior dockets, in hopes of maintaining as much continuity as possible. The
21 schedules included in this filing are:

- 22 • Schedule DF – 1: This schedule presents the test year revenue requirements,
23 along with the adjustments to arrive at the rate year. I discussed the adjustments
24 earlier in my testimony.
- 25 • Schedule DF – 2: This schedule presents the units of service including the number
26 of meters by size and billing frequency, the number of private and public fire
27 services by size, and the retail and wholesale water sales. This schedule also

1 presents the miles of each pipe size in order to allocate transmission and
2 distribution costs between retail and wholesale service.

- 3 ○ Schedule DF – 2.1: This sub schedule presents the historical consumption
4 and analyses as described earlier in my testimony.
- 5 ○ Schedule DF – 2.2: This sub schedule presents the base, max day, and peak
6 hour demands and factors, by customer class, as well as an unbilled water
7 analysis.
- 8 ○ Schedule DF – 2.3: This sub schedule presents the derivation of peaking
9 factors by customer class.
- 10 ● Schedule DF – 3: This schedule presents the allocation of rate year revenue
11 requirements to various cost components. Also included in this schedule is an
12 explanation of the allocation symbols used throughout.
 - 13 ○ Schedule DF – 3.1: This sub schedule presents the allocation of rate year
14 plant in service to various cost components.
 - 15 ○ Schedule DF – 3.2: This sub schedule presents the allocation of non-
16 administrative labor costs to cost component.
 - 17 ○ Schedule DF – 3.3: This sub schedule presents the allocation of revenue
18 requirements to retail, wholesale, and fire service.
 - 19 ○ Schedule DF – 3.4: This sub schedule presents an explanation of the
20 allocations and allocation symbols utilized during the allocation process.
- 21 ● Schedule DF – 4: This schedule presents the calculation of the proposed fire
22 protection charges. Included in this schedule is the allocation of total fire
23 protection revenue requirements between public and private fire services.
- 24 ● Schedule DF – 5: This schedule presents the derivation of the proposed fixed
25 service charges.
- 26 ● Schedule DF – 6: This schedule presents the distribution of general water revenue
27 requirements to the different customer classes.

- 1 • Schedule DF – 7: This schedule presents the derivation of the proposed metered
2 water rates for retail and wholesale customers.
- 3 • Schedule DF – 8: This schedule presents a summary of PWSB’s current rates
4 versus the proposed rates as derived in the preceding schedules.
- 5 • Schedule DF – 9: This schedule presents the impact to various customer types due
6 to the proposed changes in rates as presented in Schedule DF – 8.
- 7 • Schedule DF – 10: This schedule contains a proof of revenues, showing the annual
8 revenue under the existing and proposed rates. Minor differences are due to
9 rounding of rates during the calculation process.
- 10 • Schedule DF – 11: This schedule presents the increases in salaries associated with
11 Steps 2 through 4, and the required annual increase in rate related revenue, in
12 both percentages and dollars.

13

14 **Q: Will you summarize your findings and conclusions regarding PWSB’s cost of service**
15 **and proposed rates?**

16 A: Yes. I utilized the same cost of service model approved in Docket 4550, based on the
17 base-extra capacity method, and am proposing no structural changes to rates at this
18 time. However, I did update the differentials utilized for purposes of calculating the
19 services charges to align with industry best practices through the use of AWWA
20 capacity ratios. I also updated Allocation Factor “O” based on the latest data available
21 for purposes of assigning an approximate amount of time spent between mains,
22 services, and hydrants. In an attempt to mitigate an already large increase on public
23 fire protection charges, I maintained the existing level of allocation within Factor “O”
24 for hydrants, and reallocated the remaining percentage, proportionately, between
25 mains and services.

26

1 Metered rates, service charges, and fire protection charges are proposed to be
2 adjusted by varying amounts to equitably recover the cost of service. As set forth in
3 my accompanying schedules, the following changes have been made:

- 4 • The volumetric rates per CCF will change, at varying percentages, for
5 PWSB's retail customers and increase for wholesale customers. Please
6 refer to Exhibit DF-8 for additional detail regarding the specific proposed
7 changes and the relative increases by tier.
- 8 • The service charges for a monthly 5/8" customer, which comprise
9 approximately 94% of all PWSB customers, will increase by 15.0%. All other
10 meter sizes will increase at various percentage changes to coincide with
11 cost of service. Please refer to my accompanying schedules for details with
12 regard to the rates for other meter sizes.
- 13 • Public fire protection charges, assessed per hydrant as well as per bill for
14 Pawtucket customer, are proposed to increase by approximately 44%.
- 15 • Private fire protection charges are changing by varying percentages based
16 on line size.

17
18 **Q: Please describe how you arrived at the above rate proposals.**

19 **A:** Once rate year revenue requirements and the units of service had been established,
20 I began to functionalize and allocate the costs to types of service, such as base water
21 sales, extra capacity (max-day and peak-hour), customer components (billing and
22 metering), and finally fire protection. Please refer to Schedule DF - 3 for presentation
23 of the functionalization of revenue requirements, as well as plant in service records
24 and depreciation. Schedule DF-3.4 presents an explanation of the allocation
25 percentages utilized for purposes of the functionalization process. Ultimately, said
26 functionalized revenue requirements were then utilized to calculate cost of service-
27 based rates. The first such assignment led to the derivation of fire protection charges.

1 **Q: Please explain how you calculated the proposed fire protection charges.**

2 A: Since costs associated with public fire hydrants should not be charged to private fire
3 services, I first removed the costs directly related to hydrants from the total fire
4 service allocation. Based on the relative potential demands presented on Schedule
5 DF-2, I split the remaining fire service demand costs (net of hydrant expenses) to
6 public and private fire service. In the case of the public fire service charges, I added
7 the allocated public fire service costs to the direct hydrant expenses and divided by
8 the total number of public fire hydrants in PWSB's system to arrive at an annual per
9 hydrant charge. In addition, I also calculated the per bill public fire protection charges
10 assessed to Pawtucket customers.

11

12 To derive the private fire service charges, I simply determined the number of private
13 fire service equivalents using the fire demand factors described earlier in my
14 testimony. This cost per equivalent was then applied to the equivalency factors for
15 each private fire service size to derive the fire service charge for each size private fire
16 service. Schedule DF – 4 presents the derivation of fire protection charges.

17

18 **Q: What was the next cost of service element that you allocated?**

19 A: I then allocated revenue requirements to customer related charges. In the case of
20 these charges, the revenue requirements were split into two components: (a) those
21 costs related to meters and service pipes (vary by the size of the meter and service)
22 and (b) those costs related to billing, meter reading, and collections (vary by the
23 number of billings).

24

25 **Q: Please explain the derivation of your proposed service charges.**

26 A: For the metering components of the service charge, I calculated a cost per equivalent
27 meter, and then scaled this cost up by meter size based on the aforementioned meter

1 equivalent. I then calculated a per-bill charge for the billing component (same for all
2 meter sizes) and added that to each meter component. Schedule DF – 5 presents the
3 derivation of service charges.

4
5 **Q: How did you then proceed with your cost of service and rate calculation?**

6 A: I then moved on to the calculation of metered rates. I first allocated revenue
7 requirements which were previously functionalized to water sales to base (average
8 use), maximum day, and peak hour demands. Once the costs were allocated to these
9 components, they were distributed to each metered rate component's proportionate
10 share of each component. For example, consumption corresponding with rate
11 components which produce more peak hour demands, should be distributed a
12 greater percentage of the peak hour costs. Consumption based rates were then
13 calculated based on the distributed costs and relative demand per rate component.
14 Schedule DF – 6 presents the allocation of volumetric related revenue requirements.

15
16 **Q. Have you made any modifications to the cost of service results?**

17 A. Yes. The cost of service analysis produced a slight decrease in the volumetric charges
18 for Large (> 1" meters) customers. I maintained the existing rate for this class of
19 customers and reduced the Small (5/8"-1" meters) volumetric revenue requirement
20 by the additional revenue of \$68,802.

21
22 **Q: Have you provided a summary of the proposed rates and the changes from
23 current rates?**

24 A: Yes. Schedule DF – 8 presents PWSB's currently approved rates compared to the
25 proposed rates along with the annual percentage changes. This schedule also
26 presents customer impacts for typical customers of varying customer classes due to
27 the proposed rates and charges.

1 **Q: Have you provided a revenue proof summary?**

2 A: Yes. Schedule DF - 9 presents PWSB's projected revenue, by rate component. Please
3 note that the difference between the overall revenue requirement and revenue is
4 due to rounding.

5

6 **VI. Multi-Year Rate Increase**

7 **Q. Can you please address the multi-year component of the PWSB's rate request?**

8 A. Yes. As indicated in Mr. DeCelles's direct testimony, the PWSB is requesting a multi-
9 year increase for two reasons. First, the new treatment plant operations contract is
10 likely to have an annual CPI adjustment. Second, the multi-year increase will allow the
11 PWSB to raise rates for the two new labor contracts without the PWSB having to file
12 rate cases every time salary increases go into effect under these contracts. Rather,
13 the PWSB can submit compliance filings as required under R.I.G.L. §39-15.1-4 to
14 address the salary increases as well as any CPI adjustments to the treatment plant
15 operations contract.

16

17 **Q. How did you address the CPI adjustments to the treatment plant operations**
18 **contract?**

19 A. As indicated in my testimony above, I have not made any adjustments to the contract
20 expense in the Rate Year – FY 2024. I also have not made any adjustments at this time
21 for the step increases in FYs 2025, 2026 and 2027. The proposed adjustments will be
22 made once negotiations are complete.

23

24 **Q. How did you address the salary increases?**

25 A. As indicated in my testimony above, the PWSB has reached a tentative agreement for
26 a contract that covers the 12 employees in the Teamsters Union. This contract, which
27 will cover Fiscal Years 2024, 2025 and 2026, provides for 3% increases each year.

1 These increases will also affect FICA and Medicare expenses, which are a function of
2 payroll expenses. The 3% increase for the rate year of FY 2024 is included in my
3 Schedules DF-1 through DF-10. The 3% increases for Fiscal Year 2025 and 2026 are set
4 forth in Schedule DF-10. I have also assumed a 3% increase for FY 2027 as a
5 placeholder.

6
7 In addition, the PWSB has 36 Local 1012 employees who are in the final year of a
8 three-year contract, which expires on June 30, 2024. I have included a 1% increase for
9 these employees in Fiscal Years 2025, 2026 and 2027. As set forth in Mr. DeCelles'
10 testimony, this is a place holder, and the actual increases for those years can be
11 addressed in the mandatory compliance filings required under R.I.G.L. § 39-15.1-4,
12 when the actual increases are known.

13
14 **Q. Can you please explain how you calculated rates beyond Fiscal Year 2024 as part of**
15 **the PWSB's request for a multi-year rate increase?**

16 A. As shown on Schedule DF-11, I have simply presented the salary and related expenses
17 for the Teamsters and Local 1012 for FYs 2025 through 2027 (Steps 2, 3, and 4).

18
19 Based on these projections, the following additional rate increases are indicated (See
20 Schedule DF - 11):

- 21 • FY 2025 – 0.4%
- 22 • FY 2026 – 0.3%
- 23 • FY 2027 – 0.4%

24 I have proposed a simple across-the-board increase to all rates and charges for the
25 second and third steps.

1 **VII. CONCLUSION**

2 **Q. Mr. Fox, does this conclude your direct testimony?**

3 A. Yes, it does.

TEST YEAR & RATE YEAR EXPENSES

<u>Expense Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Test Year FY 2022</u>	<u>Summary of Adjustments</u>	<u>Rate Year * FY 2024</u>	<u>Labor & Related Items</u>	<u>Other Adjustments</u>
<u>GENERAL & ADMINISTRATIVE</u>							
Salaries & Wages - regular	\$559,285	\$506,849	\$540,239	\$104,096	\$644,335	\$104,096	
Salaries & Wages - overtime	\$515	\$212	\$813	\$1,187	\$2,000	\$1,187	
Salaries & Wages - out of grade pay	\$12,343	\$252	\$0	\$0	\$0	\$0	
Salaries & Wages - beepers	\$0	\$0	\$0	\$0	\$0	\$0	
Salaries & Wages - longevity	\$26,060	\$14,654	\$19,576	-\$6,526	\$13,050	-\$6,526	
Salaries & Wages - temporary services	\$0	\$0	\$0	\$0	\$0	\$0	
Salaries & Wages - vacation and sick	\$5,173	\$21,181	\$10,012	-\$10,012	\$0	-\$10,012	
Payroll tax - FICA	\$40,889	\$32,411	\$35,768	\$3,377	\$39,145	\$3,377	
Payroll tax - Medicare	\$9,563	\$7,580	\$8,365	\$790	\$9,155	\$790	
Employee Health Insurance	\$79,682	\$77,252	\$90,314	\$6,883	\$97,196	\$6,883	
Employee Dental Insurance	\$5,145	\$3,852	\$3,830	\$1,737	\$5,567	\$1,737	
Employee GTL Insurance	\$1,695	\$1,238	\$1,372	\$762	\$2,134	\$762	
Community Counseling	\$0	\$0	\$0	\$0	\$0	\$0	
Post employment Health Insurance	\$124,315	\$109,776	\$162,824	\$0	\$162,824	\$0	
MERS Defined Benefit	\$95,227	\$77,539	\$80,441	\$0	\$80,441	\$0	
OPEB/ Medical & Dental Insurance	\$0	\$0	\$0	\$0	\$0	\$0	
TIAA/CREF Defined Contribution	\$6,062	\$5,102	\$5,494	\$186	\$5,681	\$186	
Audit fees	\$33,615	\$34,450	\$13,063	\$954	\$14,016		\$954
Contractual Programs	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contractual Services	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Legal fees	\$25,889	\$34,280	\$42,532	\$3,105	\$45,637		\$3,105
Legal fees - liens	\$41,745	\$1,125	\$0	\$0	\$0	\$0	\$0
Educational Training	\$5,069	\$4,020	\$8,668	\$633	\$9,301		\$633
Consultant	\$5,000	\$2,056	\$13,966	\$1,019	\$14,985		\$1,019
Municipal charges - admin support	\$317,594	\$350,213	\$338,494	\$16,000	\$354,494		\$16,000
Pagers and Cell phones	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Vehicle maintenance - outside parts	\$213	\$93	\$2,023	\$148	\$2,171		\$148
Vehicle maintenance - fuel & misc	\$3,328	\$2,158	\$3,540	\$258	\$3,798		\$258
Repairs & Maintenance	\$24,443	\$21,576	\$26,338	\$1,923	\$28,261		\$1,923
Repairs & Maintenance - I.S. Hard/Software Maint	\$167,793	\$175,790	\$189,287	\$13,818	\$203,105		\$13,818
Equipment rental	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Utilities - Telephone	\$6,174	\$6,037	\$6,259	\$457	\$6,716		\$457
Internet	\$7,807	\$8,870	\$8,500	\$620	\$9,120		\$620
Utilities - DSL service	\$204	\$0	\$0	\$0	\$0	\$0	\$0
Utilities - Cellular service	\$2,898	\$2,966	\$3,966	\$290	\$4,255		\$290
Utilities - Web hosting	\$301	\$275	\$225	\$16	\$242		\$16
Electric	\$53,184	\$42,760	\$39,848	\$13,349	\$53,197		\$13,349
Heating	\$18,498	\$22,807	\$20,672	\$1,509	\$22,181		\$1,509
Other Utilities	\$5,301	\$5,680	\$7,224	\$527	\$7,751		\$527
Unemployment Insurance	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Workers Compensation Insurance	\$16,419	\$13,396	\$6,251	\$456	\$6,707		\$456

TEST YEAR & RATE YEAR EXPENSES

<u>Expense Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Test Year FY 2022</u>	<u>Summary of Adjustments</u>	<u>Rate Year FY 2024</u>	<u>Labor Increase</u>	<u>Other Adjustments</u>
<u>CUSTOMER SERVICE</u>							
Salaries & wages - regular	\$218,876	\$174,191	\$175,174	\$128,631	\$303,805	\$128,631	
Salaries & wages - overtime	\$2,510	\$1,048	\$1,921	-\$220	\$1,701	-\$220	
Salaries & wages - out of grade pay	\$0	\$0	\$0	\$0	\$0	\$0	
Salaries & Wages - beepers	\$1,235	\$1,255	\$1,235	\$65	\$1,300	\$65	
Salaries & Wages - longevity	\$12,506	\$13,356	\$8,081	\$5,262	\$13,343	\$5,262	
Salaries & Wages - temporary services	\$0	\$0	\$0	\$0	\$0	\$0	
Salaries & Wages - vacation and sick	\$0	\$6,457	-\$1,894	\$1,894	\$0	\$1,894	
Payroll tax - FICA	\$14,327	\$11,506	\$11,174	\$7,750	\$18,924	\$7,750	
Payroll tax - Medicare	\$3,350	\$2,691	\$2,613	\$1,813	\$4,426	\$1,813	
Employee Health Insurance	\$40,715	\$48,929	\$47,243	\$47,329	\$94,572	\$47,329	
Employee Dental Insurance	\$2,415	\$1,494	\$1,570	\$2,352	\$3,923	\$2,352	
Employee GTL Insurance	\$914	\$686	\$648	\$876	\$1,524	\$876	
MERS Defined Benefit	\$36,867	\$28,329	\$25,235	\$0	\$25,235	\$0	
TIAA/CREF Defined Contribution	\$2,010	\$1,581	\$2,002	\$1,170	\$3,171	\$1,170	
Contractual services	\$19,874	\$21,505	\$9,621	\$702	\$10,324		\$702
Educational training	\$50	\$150	\$80	\$6	\$86		\$6
Consultant	\$0	\$0	\$0	\$0	\$0		\$0
Vehicle maint. - outside parts	\$7	\$0	\$7	\$0	\$7		\$0
Vehicle fuel & misc	\$0	\$0	\$0	\$0	\$0		\$0
Repairs & Maintenance	\$863	\$912	\$606	\$44	\$650		\$44
IS Hard/Software Maintenance	\$0	\$0	\$0	\$0	\$0		\$0
Equipment rental	\$0	\$0	\$0	\$0	\$0		\$0
Utilities - Telephone	\$1,283	\$1,085	\$989	\$72	\$1,061		\$72
Utilities - Cellular service	\$536	\$500	\$456	\$33	\$490		\$33
Workers Compensation Insurance	-\$1,003	\$681	\$458	\$33	\$492		\$33
Advertising	\$0	\$0	\$0	\$0	\$0		\$0
Printing	\$38,521	\$41,113	\$35,725	\$2,608	\$38,333		\$2,608
Dues & Subscriptions	\$133	\$50	\$60	\$4	\$64		\$4
Postage	\$101,967	\$100,459	\$103,377	\$17,240	\$120,618		\$17,240
Uniforms/clothing	\$532	\$336	\$316	\$23	\$339		\$23
Safety equipment & supplies	\$23	\$70	\$0	\$0	\$0		\$0
Materials and supplies	\$3,838	\$244	\$454	\$33	\$487		\$33
Other supplies	\$133	\$0	\$14	\$1	\$15		\$1
Water conservation & education	\$0	\$0	\$0	\$0	\$0		\$0
CC Convenience Fees	\$68,532	\$107,373	\$126,556	\$9,239	\$135,795		\$9,239
PWSB Bad Debt expense	\$0	\$0	\$0	\$0	\$0		\$0
Cash proof reconciliation expense	\$20	\$0	-\$805	\$805	\$0		\$805
Other misc expenses	\$0	\$0	\$0	\$0	\$0		\$0
WSB Bad Debt Expense	-\$3,815	-\$6,065	-\$9,083	\$0	-\$9,083		\$0
Proof/Recon Expense	\$0	\$20	-\$120	\$120	\$0		\$120
Subtotal - Customer Service	\$567,221	\$559,960	\$543,712	\$227,888	\$771,601	\$196,923	\$30,965

TEST YEAR & RATE YEAR EXPENSES

<u>Expense Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Test Year FY 2022</u>	<u>Summary of Adjustments</u>	<u>Rate Year FY 2024</u>	<u>Labor Increase</u>	<u>Other Adjustments</u>
SOURCE OF SUPPLY							
Salaries & wages - regular	\$171,754	\$170,606	\$160,373	\$39,951	\$200,324	\$39,951	
Salaries & wages - overtime	\$0	\$0	\$192	-\$192	\$0	-\$192	
Salaries & wages - out of grade pay	\$0	\$0	\$0	\$0	\$0	\$0	
Salaries & wages - beepers	\$1,575	\$2,049	\$1,966	\$114	\$2,080	\$114	
Salaries & Wages - longevity	\$16,713	\$15,228	\$15,828	\$2,777	\$18,605	\$2,777	
Salaries & Wages - temporary services	\$0	\$0	\$0	\$0	\$0	\$0	
Salaries & Wages - vacation and sick	\$0	\$11,618	\$1,817	-\$1,817	\$0	-\$1,817	
Payroll tax - FICA	\$11,361	\$11,182	\$11,106	\$1,945	\$13,050	\$1,945	
Payroll tax - Medicare	\$2,657	\$2,615	\$2,597	\$455	\$3,052	\$455	
Employee Health Insurance	\$43,279	\$61,744	\$60,427	\$3,849	\$64,277	\$3,849	
Employee Dental Insurance	\$2,238	\$2,730	\$2,351	\$372	\$2,723	\$372	
Employee GTL Insurance	\$686	\$724	\$476	\$438	\$914	\$438	
MERS Defined Benefit	\$30,027	\$27,866	\$24,613	\$0	\$24,613	\$0	
TIAA/CREF Defined Contribution	\$2,359	\$2,467	\$2,206	-\$17	\$2,189	-\$17	
Contractual Services	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Educational Training	\$575	\$2,046	\$2,175	\$159	\$2,334		\$159
Consultant	\$2,380	\$0	\$0	\$0	\$0	\$0	\$0
Cumberland Police Details	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Security service	\$87,119	\$80,881	\$80,878	\$5,904	\$86,783		\$5,904
Lab testing - Water Quality Testing	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Vehicle maint. - outside parts	\$230	\$201	\$1,087	\$79	\$1,166		\$79
Vehicle fuel & misc	\$1,132	\$1,963	\$3,223	\$235	\$3,459		\$235
Repairs & Maintenance - general	\$2,955	\$3,043	\$290	\$21	\$311		\$21
IS Hard/Software Maintenance	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Repairs & Maintenance - collection reservoirs	\$45,350	\$56,343	\$38,641	\$2,821	\$41,462		\$2,821
Repairs & Maintenance - wells	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Rental property expense	\$2,731	\$6,302	\$5,670	\$414	\$6,084		\$414
Equipment rental	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Utilities - Telephone	\$664	\$536	\$488	\$36	\$523		\$36
internet	\$1,771	\$2,082	\$2,153	\$157	\$2,310		\$157
Utilities - DSL Line Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Utilities - Cellular phones	\$1,159	\$1,223	\$1,312	\$96	\$1,407		\$96
Electric	\$117,953	\$106,674	\$77,508	\$25,965	\$103,473		\$25,965
Utilities - Heating	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Utilities	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Workers Compensation Insurance	\$11,950	\$10,461	\$6,652	\$486	\$7,138		\$486
Dues & Subscriptions	\$105	\$755	\$465	\$34	\$499		\$34
Office supplies	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Uniforms/clothing	\$641	\$567	\$639	\$47	\$686		\$47
Safety equipment & supplies	\$0	\$113	\$61	\$4	\$66		\$4
Capital material supplies	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Materials & supplies	\$556	\$1,770	\$1,408	\$103	\$1,511		\$103
Other supplies	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Depreciation expense	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Property taxes	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other misc expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Depreciation expense	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal - Supply	\$559,919	\$583,789	\$506,603	\$84,435	\$591,038	\$47,875	\$36,560
PURIFICATION							
Treatment Plant Operating Contract (DBO)	\$1,968,652	\$1,998,535	\$2,042,470	\$0	\$2,042,470		\$0
Telephone	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Electric	\$837,012	\$721,737	\$763,724	\$255,848	\$1,019,572		\$255,848
Heating	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Utilities	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Water Quality Testing	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Property taxes	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Misc Other Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Depreciation expense	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal - Purification	\$2,805,664	\$2,720,273	\$2,806,194	\$255,848	\$3,062,042	\$0	\$255,848

TEST YEAR & RATE YEAR EXPENSES

<u>Expense Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Test Year FY 2022</u>	<u>Summary of Adjustments</u>	<u>Rate Year FY 2024</u>	<u>Labor Increase</u>	<u>Other Adjustments</u>
<u>TRANSMISSION & DISTRIBUTION</u>							
Regular Salaries	\$912,766	\$854,929	\$894,165	\$284,249	\$1,178,414	\$284,249	
Overtime	\$49,575	\$63,761	\$60,510	-\$75	\$60,435	-\$75	
Detail Overtime	\$18,970	\$17,223	\$14,942	-\$14,942	\$0	-\$14,942	
Out of Grade Pay	\$2,350	\$2,512	\$2,638	\$391	\$3,029	\$391	
On Call Stipend	\$17,456	\$17,100	\$18,134	\$326	\$18,460	\$326	
Shift Differential	\$360	\$1,440	\$2,840	\$3,400	\$6,240	\$3,400	
Longevity	\$66,066	\$60,712	\$55,823	\$15,047	\$70,870	\$15,047	
Temporary Services	\$0	\$0	\$0	\$0	\$0	\$0	
Vacation and Sick	\$0	-\$12,294	-\$40,255	\$40,255	\$0	\$40,255	
FICA	\$62,798	\$60,453	\$60,308	\$19,278	\$79,586	\$19,278	
Medicare	\$14,732	\$14,168	\$14,171	\$4,442	\$18,613	\$4,442	
Health Benefits	\$284,221	\$288,049	\$301,464	\$52,378	\$353,842	\$52,378	
Dental Benefits	\$15,391	\$12,766	\$12,086	\$2,372	\$14,457	\$2,372	
Life Benefits	\$4,362	\$4,324	\$4,100	\$1,996	\$6,096	\$1,996	
MERS Defined Benefit	\$156,355	\$139,527	\$132,500	\$0	\$132,500	\$0	
TIAACREF Defined Contribution	\$9,833	\$9,073	\$9,062	\$2,292	\$11,354	\$2,292	
Educational Training	\$5,495	\$11,498	\$7,668	\$560	\$8,228		\$560
Consultant	\$0	\$0	\$0	\$0	\$0		\$0
Cumberland Police Details	\$25,134	\$11,368	\$18,776	\$1,371	\$20,146		\$1,371
CF Police Details	\$28,463	\$47,908	\$26,101	\$1,905	\$28,006		\$1,905
Lab Tests	\$0	\$0	\$0	\$0	\$0		\$0
Outside Parts	\$41,409	\$39,853	\$40,981	\$2,992	\$43,973		\$2,992
Gas & Oil	\$21,752	\$24,264	\$27,795	\$2,029	\$29,824		\$2,029
General Maintenance	\$17,647	\$17,792	\$21,220	\$1,549	\$22,769		\$1,549
IS Hard/Software Maintenance	\$3,425	\$3,485	\$3,545	\$259	\$3,804		\$259
Transmission/Distribution Main	\$3,258	\$1,854	-\$295	-\$22	-\$316		-\$22
Fire Services	\$0	\$0	\$7,624	\$557	\$8,181		\$557
Pumping Station Services	\$0	\$0	\$0	\$0	\$0		\$0
Hydrants	\$0	\$7,038	-\$655	-\$48	-\$703		-\$48
Equipment Rental	\$0	\$24,210	\$0	\$0	\$0		\$0
Telephone	\$3,012	\$3,115	\$2,887	\$211	\$3,098		\$211
Internet	\$575	\$540	\$540	\$39	\$579		\$39
DSL Line Charges	\$0	\$0	\$0	\$0	\$0		\$0
Cellular Phones	\$5,730	\$5,621	\$5,018	\$366	\$5,384		\$366
Electric Bills	\$42,715	\$18,103	\$23,295	\$7,804	\$31,099		\$7,804
Heating	\$14,567	\$14,758	\$18,842	\$1,376	\$20,218		\$1,376
Other Utilities	\$2,197	\$2,991	\$2,301	\$168	\$2,469		\$168
Workers Compensation	\$148,163	\$120,752	\$76,584	\$5,591	\$82,175		\$5,591
Advertising	\$1,321	\$1,378	\$0	\$0	\$0		\$0
Printing	\$0	\$337	\$0	\$0	\$0		\$0
Dues & Subscriptions	\$589	\$50	\$636	\$46	\$682		\$46
Drug Testing Kits	\$0	\$0	\$0	\$0	\$0		\$0
Office Supplies	\$0	\$66	\$0	\$0	\$0		\$0
Postage	\$0	\$0	\$0	\$0	\$0		\$0
Housekeeping	\$13,842	\$19,269	\$24,137	\$1,762	\$25,899		\$1,762
Clothing Allowance	\$5,030	\$6,904	\$5,564	\$406	\$5,970		\$406
Safety Supplies	\$4,843	\$5,093	\$3,754	\$274	\$4,028		\$274
Tools/Union	\$0	\$0	\$0	\$0	\$0		\$0
Water Quaility Testing	\$0	\$0	\$0	\$0	\$0		\$0
Capital Material Supplies	\$0	\$0	\$0	\$0	\$0		\$0
General Tools	\$19,557	\$25,282	\$16,165	\$1,180	\$17,345		\$1,180
Materials/Supplies	\$6,179	\$5,286	\$7,342	\$536	\$7,878		\$536
Road Surface Restoration	\$0	\$321	\$0	\$0	\$0		\$0
Other Supplies	\$0	\$77	\$0	\$0	\$0		\$0
Property Taxes	\$0	\$0	\$0	\$0	\$0		\$0
Misc Other Expenses	\$0	\$18	\$114	\$8	\$122		\$8
Salaries & wages - Capatilized Labor	-\$74,323	\$0	-\$12,628	\$12,628	\$0		\$12,628
Depreciation expense	\$0	\$0	\$0	\$0	\$0		\$0
Subtotal - T&D	\$1,955,817	\$1,952,972	\$1,869,798	\$454,955	\$2,324,753	\$411,408	\$43,547

TEST YEAR & RATE YEAR EXPENSES

<u>Expense Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Test Year FY 2022</u>	<u>Summary of Adjustments</u>	<u>Rate Year FY 2024</u>	<u>Labor Increase</u>	<u>Other Adjustments</u>
<u>ENGINEERING</u>							
Salaries & wages - regular	\$398,471	\$343,072	\$308,888	\$233,692	\$542,580	\$233,692	
Salaries & wages - overtime	\$948	\$2,317	\$168	-\$168	\$0	-\$168	
Salaries & wages - out of grade pay	\$59	\$1,041	\$0	\$0	\$0	\$0	
Salaries & wages - beepers	\$2,585	\$1,730	\$1,385	\$1,215	\$2,600	\$1,215	
Salaries & Wages - longevity	\$29,314	\$29,892	\$32,189	-\$11,869	\$20,320	-\$11,869	
Salaries & Wages - temporary services	\$0	\$0	\$0	\$0	\$0	\$0	
Salaries & Wages - Vacation and Sick	\$0	-\$2,158	-\$13,952	\$13,952	\$0	\$13,952	
Payroll tax - FICA	\$25,911	\$22,837	\$21,009	\$12,668	\$33,677	\$12,668	
Payroll tax - Medicare	\$6,060	\$5,341	\$4,914	\$2,962	\$7,876	\$2,962	
Employee Health Insurance	\$76,476	\$80,577	\$85,704	\$36,171	\$121,875	\$36,171	
Employee Dental Insurance	\$3,866	\$3,436	\$3,239	\$1,883	\$5,122	\$1,883	
Employee GTL Insurance	\$1,276	\$1,162	\$1,124	\$1,010	\$2,134	\$1,010	
MERS Defined Benefit	\$68,164	\$56,084	\$47,636	\$0	\$47,636	\$0	
TIAA/CREF Defined Contribution	\$4,139	\$3,596	\$3,161	\$2,468	\$5,629	\$2,468	
Contractual services	\$8,641	\$8,643	\$9,219	\$673	\$9,892		\$673
Educational training	\$4,425	\$513	\$2,490	\$182	\$2,672		\$182
Consultant	\$0	\$0	\$27,620	\$2,016	\$29,636		\$2,016
Vehicle repairs - outside parts	\$3,190	\$575	\$192	\$14	\$206		\$14
Vehicle fuel & misc	\$2,480	\$2,322	\$4,645	\$339	\$4,984		\$339
Repairs & Maintenance - general	\$308	\$1,466	\$460	\$34	\$494		\$34
Repairs & Maintenance - I.S. Hard/Software Maint	\$1,671	\$1,849	\$1,972	\$144	\$2,116		\$144
Equipment rental	\$0	\$0	\$0	\$0	\$0		\$0
Utilities - Telephone	\$1,358	\$1,193	\$1,088	\$79	\$1,168		\$79
Utilities - Cellular service	\$3,338	\$3,478	\$2,972	\$217	\$3,188		\$217
Workers Compensation	\$23,691	\$19,571	\$12,400	\$905	\$13,305		\$905
Advertising	\$273	\$0	\$0	\$0	\$0		\$0
Printing	\$412	\$1,492	\$756	\$55	\$811		\$55
Dues & Subscriptions	\$100	\$50	\$60	\$4	\$64		\$4
Office supplies	\$0	\$434	\$0	\$0	\$0		\$0
Postage	\$0	\$0	\$0	\$0	\$0		\$0
Uniforms/clothing	\$1,306	\$965	\$753	\$55	\$808		\$55
Safety equipment & supplies	\$79	\$168	\$0	\$0	\$0		\$0
Capital material supplies	\$0	\$0	\$0	\$0	\$0		\$0
Materials & supplies	\$7,197	\$0	\$1,007	\$74	\$1,081		\$74
Other supplies	\$0	\$19	\$0	\$0	\$0		\$0
Other misc expenses	\$0	\$0	\$0	\$0	\$0		\$0
Capitalized Labor	<u>-\$2,697</u>	<u>-\$78,207</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>		<u>\$0</u>
Subtotal - Engineering	\$673,043	\$513,458	\$561,096	\$298,776	\$859,873	\$293,985	\$4,791

TEST YEAR & RATE YEAR EXPENSES

<u>Expense Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Test Year FY 2022</u>	<u>Summary of Adjustments</u>	<u>Rate Year FY 2024</u>	<u>Labor Increase</u>	<u>Other Adjustments</u>
<u>METERING</u>							
Regular Salaries	\$278,873	\$242,372	\$228,261	\$713	\$228,974	\$713	
Overtime	\$2,413	\$2,832	\$2,260	-\$264	\$1,996	-\$264	
Out of Grade Pay	\$1,109	\$2,117	\$3,509	-\$1,438	\$2,071	-\$1,438	
On Call Stipend	\$1,260	\$1,055	\$935	\$365	\$1,300	\$365	
Longevity	\$28,023	\$22,151	\$20,856	\$993	\$21,849	\$993	
Temporary Services	\$0	\$0	\$0	\$0	\$0	\$0	
Vacation and Sick	\$0	-\$3,777	\$2,506	-\$2,506	\$0	-\$2,506	
FICA	\$18,735	\$16,209	\$14,912	\$243	\$15,155	\$243	
Medicare	\$4,382	\$3,791	\$3,487	\$57	\$3,544	\$57	
Health Benefits	\$89,122	\$75,607	\$81,495	-\$8,680	\$72,814	-\$8,680	
Dental Benefits	\$4,528	\$3,239	\$3,065	-\$51	\$3,015	-\$51	
Life Benefits	\$1,372	\$953	\$819	\$400	\$1,219	\$400	
MERS Defined Benefit	\$49,078	\$40,403	\$35,201	\$0	\$35,201	\$0	
TIAACREF Defined Contribution	\$2,322	\$2,281	\$2,858	-\$1,149	\$1,709	-\$1,149	
Contractual Services	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Educational Training	\$370	\$2,466	\$3,161	\$231	\$3,392		\$231
Outside Parts	\$942	\$486	\$360	\$26	\$387		\$26
Gas & Oil	\$3,230	\$2,514	\$4,140	\$302	\$4,442		\$302
General Maintenance	\$0	\$0	\$0	\$0	\$0	\$0	\$0
IS Hard/Software Maintenance	\$530	\$530	\$530	\$39	\$569		\$39
Meters	\$644	\$0	\$164	\$12	\$176		\$12
Equipment Rental	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Telephone	\$844	\$740	\$675	\$49	\$725		\$49
Cellular Phones	\$3,582	\$3,666	\$2,785	\$203	\$2,988		\$203
Workers Compensation	\$17,614	\$14,056	\$9,064	\$662	\$9,725		\$662
Printing	\$523	\$556	\$1,325	\$97	\$1,422		\$97
Dues & Subscriptions	\$216	\$216	\$143	\$10	\$153		\$10
Travel	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Office Supplies	\$0	\$0	\$85	\$6	\$91		\$6
Postage	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Clothing Allowance	\$854	\$620	\$1,212	\$88	\$1,300		\$88
Safety Supplies	\$0	\$187	\$0	\$0	\$0	\$0	\$0
Materials/Supplies	\$4,656	\$168	\$6,363	\$464	\$6,827		\$464
Meter Supplies	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Supplies	\$135	\$0	\$100	\$7	\$107		\$7
Misc Other Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Capitalized Labor	<u>-\$13,091</u>	<u>-\$5,482</u>	<u>-\$91,830</u>	<u>\$91,830</u>	<u>\$0</u>		<u>\$91,830</u>
Subtotal - Metering	\$502,266	\$429,954	\$338,442	\$82,710	\$421,152	-\$11,317	\$94,028
Total Operating Budget	\$9,212,645	\$8,792,007	\$8,816,643	\$1,655,661	\$10,472,304		

TEST YEAR & RATE YEAR EXPENSES

<u>Expense Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Test Year FY 2022</u>	<u>Summary of Adjustments</u>	<u>Rate Year FY 2024</u>	<u>Labor Increase</u>	<u>Other Adjustments</u>
<u>CAPITAL EXPENSE</u>							
Property Taxes	\$637,397	\$626,105	\$620,175	-\$122,277	\$497,898		-\$122,277
Restrict. Bond Principal, Interest & RICWFA Fees	\$8,701,185	\$8,699,024	\$8,697,727	\$0	\$8,697,727		\$0
IFR Pay-As-You-Go	\$3,663,127	\$4,041,968	\$1,891,412	\$608,588	\$2,500,000		\$608,588
O&M Reserve Deposit	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>		<u>\$0</u>
Subtotal - Capital	<u>\$13,001,709</u>	<u>\$13,367,097</u>	<u>\$11,209,314</u>	<u>\$486,311</u>	<u>\$11,695,625</u>	<u>\$0</u>	<u>\$486,311</u>
TOTAL EXPENSES	\$22,214,353	\$22,159,104	\$20,025,957	\$2,141,972	\$22,167,929	\$1,041,353	\$1,100,618
PLUS: Rev. Stabiliz./Oper. Rev. Allowance	\$0	\$0	\$0	\$633,952	\$633,952		\$633,952
LESS: Service Installation Revenue	-\$147,662	-\$142,988	-\$144,305	\$0	-\$144,305		\$0
LESS: Other Misc. Operating Revenues	-\$811,749	-\$475,698	-\$386,532	\$0	-\$386,532		\$0
LESS: State Surcharge Revenue	-\$44,201	-\$47,613	-\$45,129	\$0	-\$45,129		\$0
LESS: Penalties	\$0	\$0	\$0	\$0	\$0		\$0
LESS: Non-Operating Rental	-\$32,909	-\$24,998	-\$29,289	\$0	-\$29,289		\$0
LESS: Interest Income	-\$605,224	-\$267,371	-\$271,009	\$0	-\$271,009		\$0
LESS: Intergovernmental & other grant revenue	-\$151,447	-\$155,526	-\$159,942	\$0	-\$159,942		\$0
LESS: Misc Non-Operating	<u>-\$601,516</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>		<u>\$0</u>
REQUIRED FROM RATES	\$19,819,645	\$21,044,910	\$18,989,750	\$2,775,923	\$21,765,674	\$1,041,353	\$1,734,570

UNITS OF SERVICE

METERS

Meter Size (in.)	Test Year Monthly	Avg. Annual Chng FY 14-22	Rate Year Monthly	Equiv Factor	# of Equivs	
5/8	21,730	0.12%	21,756	1.00	21,756	1
3/4	273	0.38%	274	1.50	411	1.5
1	533	0.67%	537	2.50	1,343	2.5
1 1/2	207	-0.78%	205	5.00	1,025	5
2	366	2.58%	375	8.00	3,000	8
3	13	-3.17%	13	15.00	195	15
4	5	-4.76%	5	25.00	125	25
6	1	-9.52%	1	50.00	50	50
8	0	0.00%	0	80.00	0	80
Totals	23,128		23,166		27,905	
			0.2%			

PUBLIC FIRE HYDRANTS

	Test Year	Adjustments	Rate Year
Pawtucket	1,514	0	1,514
Central Falls	204	0	204
Cumberland	202	0	202
Attleborough	2	0	2
Totals	1,922	0	1,922

PRIVATE FIRE SERVICE

Size	Test Year	Adjustments	Rate Year	Equiv Factor **	# of Equivs
2	42	0	42	5.00	210
4	79	0	79	15.00	1,185
6	388	0	388	25.00	9,700
8	93	0	93	50.00	4,650
10	4	0	4	50.00	200
12	2	0	2	50.00	100
Total	608	0	608		16,045

* Adjusted based on annual average change from FY 14 to FY21
 ** one size down to equate to meter equivalent

UNITS OF SERVICE

METERED WATER USE (ccf/year)

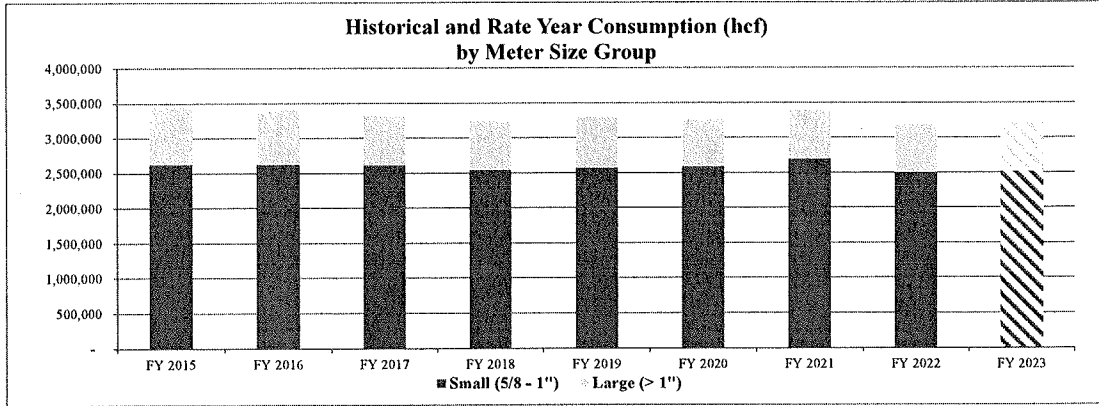
Class	FY 2023	Adjustments	Rate Year
Small (5/8 - 1")	2,517,084	-11,917	2,505,167
Large (>1")	688,774	-14,243	674,531
Total	3,205,858	-26,160	3,179,698
Wholesale			
Cumberland	418,439	25,055	443,494
Total	418,439	25,055	443,494

Miles of Mains

Size	Miles	Inch-Miles	
Service Pipes	206.213		
1	0.029	0.0	
2	0.727	1.5	
4	0.502	2.0	
6	82.327	494.0	
8	112.243	897.9	
10	1.637	16.4	
12	49.112	589.3	81.8%
14	0.008	0.1	
16	4.319	69.1	
20	8.573	171.5	
24	7.494	179.9	
30	0.002	0.1	
36	0.636	22.9	
48	0.015	0.7	18.2%
Totals	473.84	2,445	

Historic and Projected Water Sales (hcf/year)

	FY 2015	FY 2016	FY 2017	FY 2018	Actual FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Projected* FY 2024	Avg. Change FY15 to FY23
RETAIL											
Small (5/8 - 1")	2,624,439	2,618,331	2,611,775	2,541,037	2,566,556	2,588,898	2,690,173	2,499,010	2,517,084	2,505,167	99.5%
Large (> 1")	821,930	785,494	712,294	704,852	734,086	671,515	695,561	680,887	688,774	674,531	97.9%
Subtotal Retail	3,446,369	3,403,825	3,324,069	3,245,889	3,300,642	3,260,413	3,385,734	3,179,897	3,205,858	3,179,698	
RESALE											
Cumberland	302,739	292,283	378,242	316,404	338,977	329,352	479,331	393,010	418,439	443,494	106.0%



UNITS OF SERVICE - DEMAND FACTORS

	BASE		Demand Factor	MAXIMUM DAY		Demand Factor	PEAK HOUR		Equivalent Meters & Services	Bills
	Annual Use ccf/year	Average Day ccf/day		Maximum Day ccf/day	Extra Capacity ccf/day		Maximum Hour ccf/day	Extra Capacity ccf/day		
<u>Inside - Retail</u>										
Small (5/8 - 1")	2,505,167	6,863	2.11	14,448	7,584	3.09	21,238	6,790	23,510	270,804
Large (>1")	674,531	1,848	1.74	3,208	1,360	2.55	4,716	1,508	4,395	7,188
Fire Protection	6,000 gal/min for 6 hours per Docket	3193		2,888	2,888		11,551	8,663		7,296
<u>Wholesale</u>										
Cumberland	443,494	1,215	2.53	3,069	1,854	2.78	3,376	307		
Totals	3,623,191	9,927		23,613	13,687		40,881	17,268	27,905	285,288

Unbilled Water (ccf/yr)

	FY 2022	Fire %
Plant Production	3,753,004	
Less: Retail Sales	3,179,897	
Wholesale Sales	393,010	
Semi-Annual Flush	37,530	
Estimated Fire	2,540	0.3%
Unbilled Water	133,027	
% Unaccounted	3.5%	

DERIVATION OF CLASS PEAKING FACTORS

Average Day Use in Maximum Month to Average Day Annual Use Ratio (Based on Data from FY 22)

	Avg Day in Max Month	Average Day Annual	Ratio	System Max Day = Avg in Max Mo*	Adj. Factor	Calc. Max Day Ratio	Max Hr:Day Ratio	Calc. Max Hour Ratio
Small (5/8 - 1")	8,188	6,847	1.20	1.31	1.34	2.11	1.47	3.09
Combined Large/Medium (> 1")	2,107	1,865	1.13	1.31	1.17	1.74	1.47	2.55
Wholesale	2,070	1,077	1.92	1.31	1.00	2.53	1.10	2.78

* System Max Day = 16,243

System Avg Day in Max Mo = 12,365

Ratio = 1.31

ALLOCATION OF RATE YEAR EXPENSES TO COST COMPONENTS

<u>EXPENSE ITEM</u>	<u>PRO FORMA</u> <u>EXPENSE</u>	<u>ALLOC.</u> <u>SYMBOL (1)</u>	<u>BASE</u>	<u>MAX. DAY</u>	<u>PEAK HOUR</u>	<u>METERING</u>	<u>BILLING</u>	<u>DIRECT FIRE</u>
<u>GENERAL & ADMINISTRATIVE</u>								
Salaries & Wages - regular	\$644,335	L	\$137,853	\$35,966	\$35,014	\$293,584	\$109,806	\$32,111
Salaries & Wages - overtime	\$2,000	L	\$428	\$112	\$109	\$911	\$341	\$100
Salaries & Wages - out of grade pay	\$0	L	\$0	\$0	\$0	\$0	\$0	\$0
Salaries & Wages - beepers	\$0	L	\$0	\$0	\$0	\$0	\$0	\$0
Salaries & Wages - longevity	\$13,050	L	\$2,792	\$728	\$709	\$5,946	\$2,224	\$650
Salaries & Wages - temporary servit	\$0	L	\$0	\$0	\$0	\$0	\$0	\$0
Salaries & Wages - vacation and sic	\$0	L	\$0	\$0	\$0	\$0	\$0	\$0
Payroll tax - FICA	\$39,145	L	\$8,375	\$2,185	\$2,127	\$17,836	\$6,671	\$1,951
Payroll tax - Medicare	\$9,155	L	\$1,959	\$511	\$497	\$4,171	\$1,560	\$456
Employee Health Insurance	\$97,196	L	\$20,795	\$5,425	\$5,282	\$44,286	\$16,564	\$4,844
Employee Dental Insurance	\$5,567	L	\$1,191	\$311	\$303	\$2,537	\$949	\$277
Employee GTL Insurance	\$2,134	L	\$456	\$119	\$116	\$972	\$364	\$106
Community Counseling	\$0	L	\$0	\$0	\$0	\$0	\$0	\$0
Post employment Health Insurance	\$162,824	L	\$34,835	\$9,089	\$8,848	\$74,189	\$27,748	\$8,114
MERS Defined Benefit	\$80,441	L	\$17,210	\$4,490	\$4,371	\$36,652	\$13,709	\$4,009
OPEB/ Medical & Dental Insurnace	\$0	L	\$0	\$0	\$0	\$0	\$0	\$0
TIAA/CREF Defined Contribution	\$5,681	L	\$1,215	\$317	\$309	\$2,588	\$968	\$283
Audit fees	\$14,016	F-M	\$10,659	\$2,426	\$438	\$0	\$0	\$493
Contractual Programs	\$0	E-M	\$0	\$0	\$0	\$0	\$0	\$0
Contractual Services	\$0	E-M	\$0	\$0	\$0	\$0	\$0	\$0
Legal fees	\$45,637	F-M	\$34,706	\$7,898	\$1,426	\$0	\$0	\$1,607
Legal fees - liens	\$0	E-M	\$0	\$0	\$0	\$0	\$0	\$0
Educational Training	\$9,301	L	\$1,990	\$519	\$505	\$4,238	\$1,585	\$464
Consultant	\$14,985	E-M	\$11,396	\$2,593	\$468	\$0	\$0	\$528
Municipal charges - admin support	\$354,494	E-M	\$269,587	\$61,353	\$11,075	\$0	\$0	\$12,480
Pagers and Cell phones	\$0	E-M	\$0	\$0	\$0	\$0	\$0	\$0
Vehicle maintenance - outside parts	\$2,171	E-M	\$1,651	\$376	\$68	\$0	\$0	\$76
Vehicle maintenance - fuel & misc	\$3,798	E-M	\$2,888	\$657	\$119	\$0	\$0	\$134
Repairs & Maintenance	\$28,261	E-M	\$21,492	\$4,891	\$883	\$0	\$0	\$995
Repairs & Maintenance - I.S. Hardw/	\$203,105	E-M	\$154,458	\$35,152	\$6,345	\$0	\$0	\$7,150
Equipment rental	\$0	E-M	\$0	\$0	\$0	\$0	\$0	\$0
Utilities - Telephone	\$6,716	E-M	\$5,107	\$1,162	\$210	\$0	\$0	\$236
Internet	\$9,120	F-M	\$6,936	\$1,578	\$285	\$0	\$0	\$321
Utilities - DSL service	\$0	E-M	\$0	\$0	\$0	\$0	\$0	\$0
Utilities - Cellular service	\$4,255	E-M	\$3,236	\$737	\$133	\$0	\$0	\$150
Utilities - Web hosting	\$242	E-M	\$184	\$42	\$8	\$0	\$0	\$9
Electric	\$53,197	E-M	\$40,456	\$9,207	\$1,662	\$0	\$0	\$1,873
Heating	\$22,181	E-M	\$16,868	\$3,839	\$693	\$0	\$0	\$781
Other Utilities	\$7,751	E-M	\$5,894	\$1,341	\$242	\$0	\$0	\$273
Unemployment insurance	\$0	L	\$0	\$0	\$0	\$0	\$0	\$0
Workers Compensation Insurance	\$6,707	L	\$1,435	\$374	\$364	\$3,056	\$1,143	\$334
Property Insurance	\$277,740	E-M	\$211,217	\$48,069	\$8,677	\$0	\$0	\$9,778
Advertising	\$2,889	E-M	\$2,197	\$500	\$90	\$0	\$0	\$102
Printing	\$0	E-M	\$0	\$0	\$0	\$0	\$0	\$0
Dues & Subscriptions	\$16,202	E-M	\$12,321	\$2,804	\$506	\$0	\$0	\$570
Office supplies	\$6,961	E-M	\$5,294	\$1,205	\$217	\$0	\$0	\$245

Postage	\$1	E-M	\$1	\$0	\$0	\$0	\$0	\$0
Housekeeping expenses	\$34,891	E-M	\$26,534	\$6,039	\$1,090	\$0	\$0	\$1,228
Uniforms/clothing	\$707	L	\$151	\$39	\$38	\$322	\$121	\$35
Safety equipment & supplies	\$0	E-M	\$0	\$0	\$0	\$0	\$0	\$0
Tools - union	\$0	E-M	\$0	\$0	\$0	\$0	\$0	\$0
Capital material supplies	\$0	E-M	\$0	\$0	\$0	\$0	\$0	\$0
General tools	\$0	E-M	\$0	\$0	\$0	\$0	\$0	\$0
Materials and supplies	\$2,432	E-M	\$1,849	\$421	\$76	\$0	\$0	\$86
Other supplies	\$0	E-M	\$0	\$0	\$0	\$0	\$0	\$0
Public Relations	\$0	E-M	\$0	\$0	\$0	\$0	\$0	\$0
InState Accreditation	\$0	E-M	\$0	\$0	\$0	\$0	\$0	\$0
Bank service charges	\$0	E-M	\$0	\$0	\$0	\$0	\$0	\$0
PUC Annual Assessment	\$120,597	E-M	\$91,712	\$20,872	\$3,768	\$0	\$0	\$4,245
Damage claims	\$0	E-M	\$0	\$0	\$0	\$0	\$0	\$0
WF Equip Wash Account	\$0	E-M	\$0	\$0	\$0	\$0	\$0	\$0
WF Other Expense Wash Acct	\$0	E-M	\$0	\$0	\$0	\$0	\$0	\$0
Depreciation Expense	\$0	E-M	\$0	\$0	\$0	\$0	\$0	\$0
Inventory Over/Short	\$0	E-M	\$0	\$0	\$0	\$0	\$0	\$0
Regulatory expense	\$41,615	E-M	\$31,647	\$7,202	\$1,300	\$0	\$0	\$1,465
Misc other expenses	\$1,038	E-M	\$789	\$180	\$32	\$0	\$0	\$37
Cash over/short	\$0	E-M	\$0	\$0	\$0	\$0	\$0	\$0
Legal Fees	\$0	E-M	\$0	\$0	\$0	\$0	\$0	\$0
Bank service charges	\$0	E-M	\$0	\$0	\$0	\$0	\$0	\$0
Depreciation expense	\$0	E-M	\$0	\$0	\$0	\$0	\$0	\$0
Legal fees	\$1,128	E-M	\$858	\$195	\$35	\$0	\$0	\$40
Consultant	\$66,667	E-M	\$50,699	\$11,538	\$2,083	\$0	\$0	\$2,347
Bond Administration Fees	\$0	E-M	\$0	\$0	\$0	\$0	\$0	\$0
Trustee Fees	\$19,904	E-M	\$15,137	\$3,445	\$622	\$0	\$0	\$701
Consultant	\$1,610	E-M	\$1,224	\$279	\$50	\$0	\$0	\$57
Land Acquisition	\$0	E-M	\$0	\$0	\$0	\$0	\$0	\$0
CWIP Land & Land Rights	\$0	E-M	\$0	\$0	\$0	\$0	\$0	\$0
CWIP Inventory	\$0	E-M	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal - Admin	\$2,441,846		\$1,267,683	\$296,187	\$101,195	\$491,290	\$183,752	\$101,739

ALLOCATION OF RATE YEAR EXPENSES TO COST COMPONENTS

<u>EXPENSE ITEM</u>	<u>PRO FORMA</u>	<u>ALLOC.</u>						
<u>CUSTOMER SERVICE</u>	<u>EXPENSE</u>	<u>SYMBOL (1)</u>	<u>BASE</u>	<u>MAX. DAY</u>	<u>PEAK HOUR</u>	<u>METERING</u>	<u>BILLING</u>	<u>DIRECT FIRE</u>
Salaries & wages - regular	\$303,805	B	\$0	\$0	\$0	\$0	\$303,805	\$0
Salaries & wages - overtime	\$1,701	B	\$0	\$0	\$0	\$0	\$1,701	\$0
Salaries & wages - out of grade pay	\$0	B	\$0	\$0	\$0	\$0	\$0	\$0
Salaries & Wages - beepers	\$1,300	B	\$0	\$0	\$0	\$0	\$1,300	\$0
Salaries & Wages - longevity	\$13,343	B	\$0	\$0	\$0	\$0	\$13,343	\$0
Salaries & Wages - temporary serv	\$0	B	\$0	\$0	\$0	\$0	\$0	\$0
Salaries & Wages - vacation and sic	\$0	B	\$0	\$0	\$0	\$0	\$0	\$0
Payroll tax - FICA	\$18,924	B	\$0	\$0	\$0	\$0	\$18,924	\$0
Payroll tax - Medicare	\$4,426	B	\$0	\$0	\$0	\$0	\$4,426	\$0
Employee Health Insurance	\$94,572	B	\$0	\$0	\$0	\$0	\$94,572	\$0
Employee Dental Insurance	\$3,923	B	\$0	\$0	\$0	\$0	\$3,923	\$0
Employee GTL Insurance	\$1,524	B	\$0	\$0	\$0	\$0	\$1,524	\$0
MERS Defined Benefit	\$25,235	B	\$0	\$0	\$0	\$0	\$25,235	\$0
TIAA/CREF Defined Contribution	\$3,171	B	\$0	\$0	\$0	\$0	\$3,171	\$0
Contractual services	\$10,324	B	\$0	\$0	\$0	\$0	\$10,324	\$0
Educational training	\$86	B	\$0	\$0	\$0	\$0	\$86	\$0
Consultant	\$0	B	\$0	\$0	\$0	\$0	\$0	\$0
Vehicle maint. - outside parts	\$7	B	\$0	\$0	\$0	\$0	\$7	\$0
Vehicle fuel & misc	\$0	B	\$0	\$0	\$0	\$0	\$0	\$0
Repairs & Maintenance	\$650	B	\$0	\$0	\$0	\$0	\$650	\$0
IS Hard/Software Maintenance	\$0	B	\$0	\$0	\$0	\$0	\$0	\$0
Equipment rental	\$0	B	\$0	\$0	\$0	\$0	\$0	\$0
Utilities - Telephone	\$1,061	B	\$0	\$0	\$0	\$0	\$1,061	\$0
Utilities - Cellular service	\$490	B	\$0	\$0	\$0	\$0	\$490	\$0
Workers Compensation Insurance	\$492	B	\$0	\$0	\$0	\$0	\$492	\$0
Advertising	\$0	B	\$0	\$0	\$0	\$0	\$0	\$0
Printing	\$38,333	B	\$0	\$0	\$0	\$0	\$38,333	\$0
Dues & Subscriptions	\$64	B	\$0	\$0	\$0	\$0	\$64	\$0
Postage	\$120,618	B	\$0	\$0	\$0	\$0	\$120,618	\$0
Uniforms/clothing	\$339	B	\$0	\$0	\$0	\$0	\$339	\$0
Safety equipment & supplies	\$0	B	\$0	\$0	\$0	\$0	\$0	\$0
Materials and supplies	\$487	B	\$0	\$0	\$0	\$0	\$487	\$0
Other supplies	\$15	B	\$0	\$0	\$0	\$0	\$15	\$0
Water conservation & education	\$0	B	\$0	\$0	\$0	\$0	\$0	\$0
CC Convenience Fees	\$135,795	B	\$0	\$0	\$0	\$0	\$135,795	\$0
PWSB Bad Debt expense	\$0	B	\$0	\$0	\$0	\$0	\$0	\$0
Cash proof reconciliation expense	\$0	B	\$0	\$0	\$0	\$0	\$0	\$0
Other misc expenses	\$0	B	\$0	\$0	\$0	\$0	\$0	\$0
WSB Bad Debt Expense	-\$9,083	B	\$0	\$0	\$0	\$0	-\$9,083	\$0
Proof/Recon Expense	\$0	B	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal - Customer Service	\$771,601		\$0	\$0	\$0	\$0	\$771,601	\$0

ALLOCATION OF RATE YEAR EXPENSES TO COST COMPONENTS

<u>EXPENSE ITEM</u>	<u>PRO FORMA</u>	<u>ALLOC.</u>							
<u>SOURCE OF SUPPLY</u>	<u>EXPENSE</u>	<u>SYMBOL (1)</u>	<u>BASE</u>	<u>MAX. DAY</u>	<u>PEAK HOUR</u>	<u>METERING</u>	<u>BILLING</u>	<u>DIRECT FIRE</u>	
Salaries & wages - regular	\$200,324	A	\$200,324	\$0	\$0	\$0	\$0	\$0	\$0
Salaries & wages - overtime	\$0	A	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Salaries & wages - out of grade pay	\$0	A	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Salaries & wages - beepers	\$2,080	A	\$2,080	\$0	\$0	\$0	\$0	\$0	\$0
Salaries & Wages - longevity	\$18,605	A	\$18,605	\$0	\$0	\$0	\$0	\$0	\$0
Salaries & Wages - temporary servi	\$0	A	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Salaries & Wages - vacation and sic	\$0	A	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Payroll tax - FICA	\$13,050	A	\$13,050	\$0	\$0	\$0	\$0	\$0	\$0
Payroll tax - Medicare	\$3,052	A	\$3,052	\$0	\$0	\$0	\$0	\$0	\$0
Employee Health Insurance	\$64,277	A	\$64,277	\$0	\$0	\$0	\$0	\$0	\$0
Employee Dental Insurance	\$2,723	A	\$2,723	\$0	\$0	\$0	\$0	\$0	\$0
Employee GTL Insurance	\$914	A	\$914	\$0	\$0	\$0	\$0	\$0	\$0
MERS Defined Benefit	\$24,613	A	\$24,613	\$0	\$0	\$0	\$0	\$0	\$0
TIAA/CREF Defined Contribution	\$2,189	A	\$2,189	\$0	\$0	\$0	\$0	\$0	\$0
Contractual Services	\$0	A	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Educational Training	\$2,334	A	\$2,334	\$0	\$0	\$0	\$0	\$0	\$0
Consultant	\$0	A	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Cumberland Police Details	\$0	A	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Security service	\$86,783	A	\$86,783	\$0	\$0	\$0	\$0	\$0	\$0
Lab testing - Water Quality Testing	\$0	A	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Vehicle maint. - outside parts	\$1,166	A	\$1,166	\$0	\$0	\$0	\$0	\$0	\$0
Vehicle fuel & misc	\$3,459	A	\$3,459	\$0	\$0	\$0	\$0	\$0	\$0
Repairs & Maintenance - general	\$311	A	\$311	\$0	\$0	\$0	\$0	\$0	\$0
IS Hard/Software Maintenance	\$0	A	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Repairs & Maintenance - collection	\$41,462	A	\$41,462	\$0	\$0	\$0	\$0	\$0	\$0
Repairs & Maintenance - wells	\$0	A	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Rental property expense	\$6,084	A	\$6,084	\$0	\$0	\$0	\$0	\$0	\$0
Equipment rental	\$0	A	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Utilities - Telephone	\$523	A	\$523	\$0	\$0	\$0	\$0	\$0	\$0
Internet	\$2,310	A	\$2,310	\$0	\$0	\$0	\$0	\$0	\$0
Utilities - DSL Line Charges	\$0	A	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Utilities - Cellular phones	\$1,407	A	\$1,407	\$0	\$0	\$0	\$0	\$0	\$0
Electric	\$103,473	A	\$103,473	\$0	\$0	\$0	\$0	\$0	\$0
Utilities - Heating	\$0	A	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Utilities	\$0	A	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Workers Compensation Insurance	\$7,138	A	\$7,138	\$0	\$0	\$0	\$0	\$0	\$0
Dues & Subscriptions	\$499	A	\$499	\$0	\$0	\$0	\$0	\$0	\$0
Office supplies	\$0	A	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Uniforms/clothing	\$686	A	\$686	\$0	\$0	\$0	\$0	\$0	\$0
Safety equipment & supplies	\$66	A	\$66	\$0	\$0	\$0	\$0	\$0	\$0
Capital material supplies	\$0	A	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Materials & supplies	\$1,511	A	\$1,511	\$0	\$0	\$0	\$0	\$0	\$0
Other supplies	\$0	A	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Depreciation expense	\$0	A	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Property taxes	\$0	A	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other misc expenses	\$0	A	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Depreciation expense	\$0	A	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal - Supply	\$591,038		\$591,038	\$0	\$0	\$0	\$0	\$0	\$0
<u>PURIFICATION</u>									
Treatment Plant Operating Contract	\$2,042,470	D	\$1,292,997	\$749,474	\$0	\$0	\$0	\$0	\$0
Telephone	\$0	D	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Electric	\$1,019,572	D	\$645,445	\$374,126	\$0	\$0	\$0	\$0	\$0
Heating	\$0	D	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Utilities	\$0	D	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Water Quality Testing	\$0	D	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Property taxes	\$0	D	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Misc Other Expenses	\$0	D	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Depreciation expense	\$0	D	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal - Purification	\$3,062,042		\$1,938,442	\$1,123,600	\$0	\$0	\$0	\$0	\$0

ALLOCATION OF RATE YEAR EXPENSES TO COST COMPONENTS

<u>EXPENSE ITEM</u>	<u>PRO FORMA</u> <u>EXPENSE</u>	<u>ALLOC.</u> <u>SYMBOL (1)</u>	<u>BASE</u>	<u>MAX. DAY</u>	<u>PEAK HOUR</u>	<u>METERING</u>	<u>BILLING</u>	<u>DIRECT FIRE</u>
TRANSMISSION & DISTRIBUTION								
Regular Salaries	\$1,178,414	O	\$159,398	\$92,394	\$89,948	\$754,185	\$0	\$82,489
Overtime	\$60,435	O	\$8,175	\$4,738	\$4,613	\$38,678	\$0	\$4,230
Detail Overtime	\$0	O	\$0	\$0	\$0	\$0	\$0	\$0
Out of Grade Pay	\$3,029	O	\$410	\$237	\$231	\$1,938	\$0	\$212
On Call Stipend	\$18,460	O-A	\$14,311	\$1,447	\$1,409	\$0	\$0	\$1,292
Shift Differential	\$6,240	O	\$844	\$489	\$476	\$3,994	\$0	\$437
Longevity	\$70,870	O	\$9,586	\$5,557	\$5,410	\$45,357	\$0	\$4,961
Temporary Services	\$0	O	\$0	\$0	\$0	\$0	\$0	\$0
Vacation and Sick	\$0	O	\$0	\$0	\$0	\$0	\$0	\$0
FICA	\$79,586	O	\$10,765	\$6,240	\$6,075	\$50,935	\$0	\$5,571
Medicare	\$18,613	O	\$2,518	\$1,459	\$1,421	\$11,912	\$0	\$1,303
Health Benefits	\$353,842	O	\$47,862	\$27,743	\$27,009	\$226,459	\$0	\$24,769
Dental Benefits	\$14,457	O	\$1,956	\$1,134	\$1,104	\$9,253	\$0	\$1,012
Life Benefits	\$6,096	O	\$825	\$478	\$465	\$3,901	\$0	\$427
MERS Defined Benefit	\$132,500	O	\$17,923	\$10,389	\$10,114	\$84,800	\$0	\$9,275
TIAACREF Defined Contribution	\$11,354	O	\$1,536	\$890	\$867	\$7,267	\$0	\$795
Educational Training	\$8,228	O	\$1,113	\$645	\$628	\$5,266	\$0	\$576
Consultant	\$0	O	\$0	\$0	\$0	\$0	\$0	\$0
Cumberland Police Details	\$20,146	O	\$2,725	\$1,580	\$1,538	\$12,894	\$0	\$1,410
CF Police Details	\$28,006	O	\$3,788	\$2,196	\$2,138	\$17,924	\$0	\$1,960
Lab Tests	\$0	T	\$0	\$0	\$0	\$0	\$0	\$0
Outside Parts	\$43,973	F	\$0	\$0	\$0	\$0	\$0	\$43,973
Gas & Oil	\$29,824	O	\$4,034	\$2,338	\$2,276	\$19,088	\$0	\$2,088
General Maintenance	\$22,769	O	\$3,080	\$1,785	\$1,738	\$14,572	\$0	\$1,594
IS Hard/Software Maintenance	\$3,804	O	\$514	\$298	\$290	\$2,434	\$0	\$266
Transmission/Distribution Main	-\$316	T	-\$147	-\$85	-\$83	\$0	\$0	\$0
Fire Services	\$8,181	F	\$0	\$0	\$0	\$0	\$0	\$8,181
Pumping Station Services	\$0	S	\$0	\$0	\$0	\$0	\$0	\$0
Hydrants	-\$703	O	-\$95	-\$55	-\$54	-\$450	\$0	-\$49
Equipment Rental	\$0	O	\$0	\$0	\$0	\$0	\$0	\$0
Telephone	\$3,098	O	\$419	\$243	\$236	\$1,983	\$0	\$217
Internet	\$579	O	\$78	\$45	\$44	\$371	\$0	\$41
DSL Line Charges	\$0	O	\$0	\$0	\$0	\$0	\$0	\$0
Cellular Phones	\$5,384	O	\$728	\$422	\$411	\$3,446	\$0	\$377
Electric Bills	\$31,099	O	\$4,207	\$2,438	\$2,374	\$19,903	\$0	\$2,177
Heating	\$20,218	O	\$2,735	\$1,585	\$1,543	\$12,940	\$0	\$1,415
Other Utilities	\$2,469	O	\$334	\$194	\$188	\$1,580	\$0	\$173
Workers Compensation	\$82,175	O	\$11,115	\$6,443	\$6,272	\$52,592	\$0	\$5,752
Advertising	\$0	O	\$0	\$0	\$0	\$0	\$0	\$0
Printing	\$0	O	\$0	\$0	\$0	\$0	\$0	\$0
Dues & Subscriptions	\$682	O	\$92	\$53	\$52	\$437	\$0	\$48
Drug Testing Kits	\$0	O	\$0	\$0	\$0	\$0	\$0	\$0
Office Supplies	\$0	O	\$0	\$0	\$0	\$0	\$0	\$0
Postage	\$0	O	\$0	\$0	\$0	\$0	\$0	\$0
Housekeeping	\$25,899	O	\$3,503	\$2,031	\$1,977	\$16,575	\$0	\$1,813
Clothing Allowance	\$5,970	O	\$808	\$468	\$456	\$3,821	\$0	\$418
Safety Supplies	\$4,028	O	\$545	\$316	\$307	\$2,578	\$0	\$282
Tools/Union	\$0	O	\$0	\$0	\$0	\$0	\$0	\$0
Water Quaility Testing	\$0	O	\$0	\$0	\$0	\$0	\$0	\$0
Capital Material Supplies	\$0	O	\$0	\$0	\$0	\$0	\$0	\$0
General Tools	\$17,345	O	\$2,346	\$1,360	\$1,324	\$11,101	\$0	\$1,214
Materials/Supplies	\$7,878	O	\$1,066	\$618	\$601	\$5,042	\$0	\$551
Road Surface Restoration	\$0	O	\$0	\$0	\$0	\$0	\$0	\$0
Other Supplies	\$0	O	\$0	\$0	\$0	\$0	\$0	\$0
Property Taxes	\$0	O	\$0	\$0	\$0	\$0	\$0	\$0
Misc Other Expenses	\$122	O	\$17	\$10	\$9	\$78	\$0	\$9
Salaries & wages - Capitialized Labo	\$0	O	\$0	\$0	\$0	\$0	\$0	\$0
Depreciation expense	\$0	O	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal - T&D	\$2,324,753		\$319,113	\$178,123	\$173,408	\$1,442,852	\$0	\$211,257

ALLOCATION OF RATE YEAR EXPENSES TO COST COMPONENTS

<u>EXPENSE ITEM</u>	<u>PRO FORMA</u> <u>EXPENSE</u>	<u>ALLOC.</u> <u>SYMBOL (1)</u>	<u>BASE</u>	<u>MAX. DAY</u>	<u>PEAK HOUR</u>	<u>METERING</u>	<u>BILLING</u>	<u>DIRECT FIRE</u>
<u>ENGINEERING</u>								
Salaries & wages - regular	\$542,580	L	\$116,083	\$30,287	\$29,485	\$247,221	\$92,465	\$27,040
Salaries & wages - overtime	\$0	L	\$0	\$0	\$0	\$0	\$0	\$0
Salaries & wages - out of grade pay	\$0	L	\$0	\$0	\$0	\$0	\$0	\$0
Salaries & wages - beepers	\$2,600	L	\$556	\$145	\$141	\$1,185	\$443	\$130
Salaries & Wages - longevity	\$20,320	L	\$4,347	\$1,134	\$1,104	\$9,258	\$3,463	\$1,013
Salaries & Wages - temporary servit	\$0	L	\$0	\$0	\$0	\$0	\$0	\$0
Salaries & Wages - Vacation and Si	\$0	L	\$0	\$0	\$0	\$0	\$0	\$0
Payroll tax - FICA	\$33,677	L	\$7,205	\$1,880	\$1,830	\$15,345	\$5,739	\$1,678
Payroll tax - Medicare	\$7,876	L	\$1,685	\$440	\$428	\$3,589	\$1,342	\$393
Employee Health Insurance	\$121,875	L	\$26,075	\$6,803	\$6,623	\$55,531	\$20,770	\$6,074
Employee Dental Insurance	\$5,122	L	\$1,096	\$286	\$278	\$2,334	\$873	\$255
Employee GTL Insurance	\$2,134	L	\$456	\$119	\$116	\$972	\$364	\$106
MERS Defined Benefit	\$47,636	L	\$10,191	\$2,659	\$2,589	\$21,705	\$8,118	\$2,374
TIAA/CREF Defined Contribution	\$5,629	L	\$1,204	\$314	\$306	\$2,565	\$959	\$281
Contractual services	\$9,892	L	\$2,116	\$552	\$538	\$4,507	\$1,686	\$493
Educational training	\$2,672	E	\$1,031	\$462	\$83	\$696	\$304	\$94
Consultant	\$29,636	E	\$11,440	\$5,129	\$926	\$7,722	\$3,376	\$1,043
Vehicle repairs - outside parts	\$206	E	\$80	\$36	\$6	\$54	\$23	\$7
Vehicle fuel & misc	\$4,984	E	\$1,924	\$863	\$156	\$1,299	\$568	\$175
Repairs & Maintenance - general	\$494	E	\$191	\$86	\$15	\$129	\$56	\$17
Repairs & Maintenance - I.S. Hard/	\$2,116	E	\$817	\$366	\$66	\$551	\$241	\$74
Equipment rental	\$0	E	\$0	\$0	\$0	\$0	\$0	\$0
Utilities - Telephone	\$1,168	E	\$451	\$202	\$36	\$304	\$133	\$41
Utilities - Cellular service	\$3,188	E	\$1,231	\$552	\$100	\$831	\$363	\$112
Workers Compensation	\$13,305	E	\$5,136	\$2,303	\$416	\$3,467	\$1,516	\$468
Advertising	\$0	E	\$0	\$0	\$0	\$0	\$0	\$0
Printing	\$811	E	\$313	\$140	\$25	\$211	\$92	\$29
Dues & Subscriptions	\$64	E	\$25	\$11	\$2	\$17	\$7	\$2
Office supplies	\$0	E	\$0	\$0	\$0	\$0	\$0	\$0
Postage	\$0	E	\$0	\$0	\$0	\$0	\$0	\$0
Uniforms/clothing	\$808	E	\$312	\$140	\$25	\$210	\$92	\$28
Safety equipment & supplies	\$0	E	\$0	\$0	\$0	\$0	\$0	\$0
Capital material supplies	\$0	E	\$0	\$0	\$0	\$0	\$0	\$0
Materials & supplies	\$1,081	E	\$417	\$187	\$34	\$282	\$123	\$38
Other supplies	\$0	E	\$0	\$0	\$0	\$0	\$0	\$0
Other misc expenses	\$0	E	\$0	\$0	\$0	\$0	\$0	\$0
Capitalized Labor	\$0	L	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal - Engineering	\$859,873		\$194,382	\$55,095	\$45,329	\$379,983	\$143,117	\$41,967

ALLOCATION OF RATE YEAR EXPENSES TO COST COMPONENTS

<u>EXPENSE ITEM</u>	<u>PRO FORMA</u> <u>EXPENSE</u>	<u>ALLOC.</u> <u>SYMBOL (1)</u>	<u>BASE</u>	<u>MAX. DAY</u>	<u>PEAK HOUR</u>	<u>METERING</u>	<u>BILLING</u>	<u>DIRECT FIRE</u>
<u>METERING</u>								
Regular Salaries	\$228,974	O	\$30,972	\$17,953	\$17,478	\$146,544	\$0	\$16,028
Overtime	\$1,996	O	\$270	\$156	\$152	\$1,277	\$0	\$140
Out of Grade Pay	\$2,071	O	\$280	\$162	\$158	\$1,325	\$0	\$145
On Call Stipend	\$1,300	O	\$176	\$102	\$99	\$832	\$0	\$91
Longevity	\$21,849	O	\$2,955	\$1,713	\$1,668	\$13,983	\$0	\$1,529
Temporary Services	\$0	O	\$0	\$0	\$0	\$0	\$0	\$0
Vacation and Sick	\$0	O	\$0	\$0	\$0	\$0	\$0	\$0
FICA	\$15,155	O	\$2,050	\$1,188	\$1,157	\$9,699	\$0	\$1,061
Medicare	\$3,544	O	\$479	\$278	\$271	\$2,268	\$0	\$248
Health Benefits	\$72,814	O	\$9,849	\$5,709	\$5,558	\$46,601	\$0	\$5,097
Dental Benefits	\$3,015	O	\$408	\$236	\$230	\$1,929	\$0	\$211
Life Benefits	\$1,219	O	\$165	\$96	\$93	\$780	\$0	\$85
MERS Defined Benefit	\$35,201	O	\$4,762	\$2,760	\$2,687	\$22,529	\$0	\$2,464
TIAACREF Defined Contribution	\$1,709	O	\$231	\$134	\$130	\$1,094	\$0	\$120
Contractual Services	\$0	O	\$0	\$0	\$0	\$0	\$0	\$0
Educational Training	\$3,392	O	\$459	\$266	\$259	\$2,171	\$0	\$237
Outside Parts	\$387	O	\$52	\$30	\$30	\$248	\$0	\$27
Gas & Oil	\$4,442	O	\$601	\$348	\$339	\$2,843	\$0	\$311
General Maintenance	\$0	O	\$0	\$0	\$0	\$0	\$0	\$0
IS Hard/Software Maintenance	\$569	O	\$77	\$45	\$43	\$364	\$0	\$40
Meters	\$176	O	\$24	\$14	\$13	\$113	\$0	\$12
Equipment Rental	\$0	O	\$0	\$0	\$0	\$0	\$0	\$0
Telephone	\$725	O	\$98	\$57	\$55	\$464	\$0	\$51
Cellular Phones	\$2,988	O	\$404	\$234	\$228	\$1,912	\$0	\$209
Workers Compensation	\$9,725	O	\$1,315	\$763	\$742	\$6,224	\$0	\$681
Printing	\$1,422	O	\$192	\$111	\$109	\$910	\$0	\$100
Dues & Subscriptions	\$153	O	\$21	\$12	\$12	\$98	\$0	\$11
Travel	\$0	O	\$0	\$0	\$0	\$0	\$0	\$0
Office Supplies	\$91	O	\$12	\$7	\$7	\$58	\$0	\$6
Postage	\$0	O	\$0	\$0	\$0	\$0	\$0	\$0
Clothing Allowance	\$1,300	O	\$176	\$102	\$99	\$832	\$0	\$91
Safety Supplies	\$0	O	\$0	\$0	\$0	\$0	\$0	\$0
Materials/Supplies	\$6,827	O	\$923	\$535	\$521	\$4,369	\$0	\$478
Meter Supplies	\$0	O	\$0	\$0	\$0	\$0	\$0	\$0
Other Supplies	\$107	O	\$15	\$8	\$8	\$69	\$0	\$8
Misc Other Expenses	\$0	O	\$0	\$0	\$0	\$0	\$0	\$0
Capitalized Labor	\$0	O	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal - Metering	<u>\$421,152</u>		<u>\$56,967</u>	<u>\$33,021</u>	<u>\$32,146</u>	<u>\$269,538</u>	<u>\$0</u>	<u>\$29,481</u>
TOTAL O&M	\$10,472,304	I	\$4,367,626	\$1,686,026	\$352,077	\$2,583,662	\$1,098,470	\$384,444

ALLOCATION OF RATE YEAR EXPENSES TO COST COMPONENTS

<u>EXPENSE ITEM</u>	<u>PRO FORMA</u> <u>EXPENSE</u>	<u>ALLOC.</u> <u>SYMBOL (1)</u>	<u>BASE</u>	<u>MAX. DAY</u>	<u>PEAK HOUR</u>	<u>METERING</u>	<u>BILLING</u>	<u>DIRECT FIRE</u>
<u>CAPITAL EXPENSE</u>								
Property Taxes	\$497,898	P	\$255,561	\$116,787	\$64,976	\$48,231	\$2,363	\$9,979
Restrict. Bond Principal, Interest & RI	\$8,697,727	P-M	\$4,906,292	\$2,040,147	\$1,135,054	\$421,275	\$20,640	\$174,319
Leases	\$0	P-M	\$0	\$0	\$0	\$0	\$0	\$0
IFR Pay-As-You-Go	\$2,500,000	P	\$1,283,202	\$586,402	\$326,250	\$242,175	\$11,865	\$50,105
Trustee Fees	\$0	P-M	\$0	\$0	\$0	\$0	\$0	\$0
O&M Reserve Deposit	\$0	E	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal - Capital	<u>\$11,695,625</u>		<u>\$6,445,055</u>	<u>\$2,743,336</u>	<u>\$1,526,280</u>	<u>\$711,682</u>	<u>\$34,868</u>	<u>\$234,403</u>
TOTAL EXPENSES	\$22,167,929		\$10,812,681	\$4,429,362	\$1,878,357	\$3,295,344	\$1,133,338	\$618,847
PLUS: Rev. Stabiliz./Oper. Rev. Allow	\$633,952	I	\$264,399	\$102,065	\$21,313	\$156,405	\$66,497	\$23,273
LESS: Service Installation Revenue	-\$144,305	S	\$0	\$0	\$0	-\$144,305	\$0	\$0
LESS: Other Misc. Operating Revenue	-\$386,532	I	<u>-\$161,209</u>	<u>-\$62,231</u>	<u>-\$12,995</u>	<u>-\$95,363</u>	<u>-\$40,544</u>	<u>-\$14,190</u>
LESS: State Surcharge Revenue	-\$45,129	I	<u>-\$18,822</u>	<u>-\$7,266</u>	<u>-\$1,517</u>	<u>-\$11,134</u>	<u>-\$4,734</u>	<u>-\$1,657</u>
LESS: Penalties	\$0	I	\$0	\$0	\$0	\$0	\$0	\$0
LESS: Non-Operating Rental	-\$29,289	A	-\$29,289	\$0	\$0	\$0	\$0	\$0
LESS: Interest Income	-\$271,009	I	-\$113,028	-\$43,632	-\$9,111	-\$66,862	-\$28,427	-\$9,949
LESS: Intergovernmental & other gran	-\$159,942	I	-\$66,706	-\$25,750	-\$5,377	-\$39,460	-\$16,777	-\$5,872
LESS: Misc Non-Operating	\$0	I	\$0	\$0	\$0	\$0	\$0	\$0
REQUIRED FROM RATES	\$21,765,674		\$10,688,025	\$4,392,548	\$1,870,670	\$3,094,625	\$1,109,354	\$610,452

ALLOCATION OF PLANT IN SERVICE TO COST COMPONENTS

<u>EXPENSE ITEM</u>	<u>PLANT VALUE</u>	<u>ALLOC.</u> <u>SYMBOL (1)</u>	<u>BASE</u>	<u>MAX. DAY</u>	<u>PEAK HOUR</u>	<u>METERING</u>	<u>BILLING</u>	<u>DIRECT FIRE</u>
<u>SOURCE OF SUPPLY</u>								
Land & Land Rights	\$6,718,783	A	\$6,718,783	\$0	\$0	\$0	\$0	\$0
Structures & Improvements	\$16,080,821	A	\$16,080,821	\$0	\$0	\$0	\$0	\$0
Wells & Springs	\$0	A	\$0	\$0	\$0	\$0	\$0	\$0
<u>PUMPING</u>								
Land & Land Rights	\$30,133	D	\$19,076	\$11,057	\$0	\$0	\$0	\$0
Structures & Improvements	\$937,301	D	\$593,363	\$343,938	\$0	\$0	\$0	\$0
Pumping Equipment	\$1,740,807	D	\$1,102,027	\$638,780	\$0	\$0	\$0	\$0
<u>PURIFICATION</u>								
Land & Land Rights	\$26,046	D	\$16,489	\$9,557	\$0	\$0	\$0	\$0
Structures & Improvements	\$53,488,795	D	\$33,861,365	\$19,627,430	\$0	\$0	\$0	\$0
Water Treatment Equipment	\$0	D	\$0	\$0	\$0	\$0	\$0	\$0
<u>TRANSM & DISTRIBUTION</u>								
Land & Land Rights	\$1,590	H	\$685	\$397	\$508	\$0	\$0	\$0
Distribution Reservoirs	\$693,080	H	\$298,483	\$173,013	\$221,584	\$0	\$0	\$0
Transmission Mains	\$18,636,480	D	\$11,797,923	\$6,838,558	\$0	\$0	\$0	\$0
Distribution mains	\$86,813,290	H	\$37,387,178	\$21,671,135	\$27,754,977	\$0	\$0	\$0
Services	\$12,681,745	S	\$0	\$0	\$0	\$12,681,745	\$0	\$0
Meters	\$6,000,262	S	\$0	\$0	\$0	\$6,000,262	\$0	\$0
Hydrants	\$4,034,471	F	\$0	\$0	\$0	\$0	\$0	\$4,034,471
Other Misc Equip	\$264,511	II	\$113,915	\$66,030	\$84,567	\$0	\$0	\$0
<u>GENERAL</u>								
Structures & Improvements	\$5,729,287	E	\$2,211,637	\$991,573	\$178,991	\$1,492,791	\$652,600	\$201,694
Office furniture & equipment	\$535,511	E	\$206,720	\$92,681	\$16,730	\$139,530	\$60,998	\$18,852
Transportation equipment	\$2,062,482	E	\$796,166	\$356,956	\$64,435	\$537,389	\$234,929	\$72,608
Stores equipment	\$0	F	\$0	\$0	\$0	\$0	\$0	\$0
Tools, shop & garage equipment	\$0	E	\$0	\$0	\$0	\$0	\$0	\$0
Laboratory equipment	\$0	A	\$0	\$0	\$0	\$0	\$0	\$0
Power equipment	\$50,343	E	\$19,434	\$8,713	\$1,573	\$13,117	\$5,734	\$1,772
Communication equipment	\$0	E	\$0	\$0	\$0	\$0	\$0	\$0
Miscellaneous equipment	<u>\$672,333</u>	E	\$259,536	\$116,361	\$21,005	\$175,179	\$76,583	\$23,669
TOTAL PLANT	\$217,198,071		\$111,483,600	\$50,946,178	\$28,344,369	\$21,040,014	\$1,030,845	\$4,353,066
PERCENT		P	51.33%	23.46%	13.05%	9.69%	0.47%	2.00%

ALLOCATION OF NON-ADMINISTRATIVE LABOR COSTS TO COST COMPONENTS

<u>EXPENSE ITEM</u>	<u>PRO FORMA</u> <u>AMOUNT</u>	<u>ALLOC.</u> <u>SYMBOL (1)</u>	<u>BASE</u>	<u>MAX. DAY</u>	<u>PEAK HOUR</u>	<u>METERING</u>	<u>BILLING</u>	<u>DIRECT FIRE</u>
<u>CUSTOMER SERVICE</u>								
Salaries and wages	\$320,149	B	\$0	\$0	\$0	\$0	\$320,149	\$0
<u>SOURCE OF SUPPLY</u>								
Salaries and wages	\$221,009	A	\$221,009	\$0	\$0	\$0	\$0	\$0
<u>TRANSMISSION & DISTRIBUTION</u>								
Salaries and wages	\$1,337,448	O	\$180,910	\$104,863	\$102,087	\$855,967	\$0	\$93,621
TOTALS	\$1,878,606		\$401,920	\$104,863	\$102,087	\$855,967	\$320,149	\$93,621
PERCENT		L	21.4%	5.6%	5.4%	45.6%	17.0%	5.0%

ALLOCATION TO FIRE, WHOLESALE & RETAIL SERVICE

<u>UNITS OF SERVICE</u>	<u>TOTAL</u>	<u>BASE</u>	<u>MAX. DAY</u>	<u>PEAK HOUR</u>	<u>METERING</u>	<u>BILLING DIRECT FIRE</u>	
Number Units		3,623,191 ccf/yr	13,687 ccf/day	17,268 ccf/day	27,905 equiv meters	285,288 bills	1,922 hydrants
Revenue Requirements	\$21,765,674	\$10,688,025	\$4,392,548	\$1,870,670	\$3,094,625	\$1,109,354	\$610,452
Allocation to Fire Protection	\$2,507,795	\$32,064	\$926,776	\$938,503	included in calculation		\$610,452
Allocation to Wholesale *	\$1,654,935	\$1,260,782	\$388,634	\$5,519			
Net To Retail Metered Rates	\$17,602,943	\$9,395,179 11.8%	\$3,077,139 8.8%	\$926,647 0.3%	\$3,094,625	\$1,109,354	\$0
* Allocation to wholesale based on:							
<u>BASE</u>							
Metered Sales (ccf/yr)	3,623,191						
Retail Sales (ccf/yr)	3,179,698						
Retail Unacctd For (ccf/yr)	<u>141,844</u>	Based on miles of pipe: 100% of distribution/service costs plus 87.8% of transmission plus estim fire					
Total Retail (ccf/yr)	3,321,541						
Wholesale Sales (ccf/yr)	443,494						
Wholesale Unacctd For (ccf/yr)	<u>723</u>						
Total Wholesale (ccf/yr)	<u>444,217</u>						
Grand Total (ccf/yr)	3,765,758						
Wholesale Percent of Grand Total	11.8%						
Total Base Allocation	\$10,688,025						
Wholesale Allocation	\$1,260,782						
<u>MAX DAY</u>							
Total Max Day Allocation	\$4,392,548						
Less: Distribution Costs							
81.8% of T&D O&M	-\$27,022						
Admin O&M Share	-\$4,747	17.6%					
Distribution Capital Items	<u>-\$1,492,054</u>	54.39% (Less Distribution Mains & Gen'l Items allocated to Max Day)					
Total Net of Distribution	\$2,868,725						
Wholesale Max Day %	13.55%	See DF Sch. 2.2					
Wholesale Allocation	\$388,634						
<u>PEAK HOUR</u>							
Total Peak Hour Allocation	\$1,870,670						
Less: Distribution Costs							
81.8% of T&D O&M	-\$26,307						
Admin O&M Share	-\$7,561	28.7%					
Capital Items	<u>-\$1,526,280</u>	100.00% (All Capital Peak Hour costs = distribution)					
Total Net of Distribution	\$310,522						
Wholesale Peak Hr %	1.78%	See DF Sch. 2.2					
Wholesale Allocation	\$5,519						

ALLOCATION SYMBOLS

Sum Check	ALLOCATION SYMBOL	BASE	MAX. DAY	PEAK HOUR	METERING	BILLING	DIRECT FIRE	Description
100.00%	A	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	Supply, IFR, Power & Chemicals
100.00%	B	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	Billing
100.00%	D	63.31%	36.69%	0.00%	0.00%	0.00%	0.00%	Max Day Demand
100.00%	E	38.60%	17.31%	3.12%	26.06%	11.39%	3.52%	O&M less A&G
100.00%	E-M	76.05%	17.31%	3.12%	0.00%	0.00%	3.52%	O&M less A&G - No Meter Alloc.
100.00%	F	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	Fire Service
100.00%	H	43.07%	24.96%	31.97%	0.00%	0.00%	0.00%	Max Hour Demand
100.00%	I	41.71%	16.10%	3.36%	24.67%	10.49%	3.67%	Total O&M
100.00%	L	21.39%	5.58%	5.43%	45.56%	17.04%	4.98%	Labor
100.00%	L-M	84.00%	5.58%	5.43%	0.00%	0.00%	4.98%	Labor-No Meter Allocation
100.00%	M	0.00%	0.00%	0.00%	80.0%	20.0%	0.00%	Cust Serv - "Meter"
100.00%	O	13.53%	7.84%	7.63%	64.00%	0.00%	7.00%	O&M Mains, Hydrants & Services
100.00%	O-A	77.53%	7.84%	7.63%	0.00%	0.00%	7.00%	T&D Police Details
100.00%	P	51.33%	23.46%	13.05%	9.69%	0.47%	2.00%	Plant
100.00%	P-M	56.41%	23.46%	13.05%	4.84%	0.24%	2.00%	Meter & Service Capital
100.00%	S	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	Services and Meters
100.00%	T	46.64%	27.04%	26.32%	0.00%	0.00%	0.00%	T&D Mains
100.00%	T-C	38.40%	22.26%	21.71%	14.50%	0.00%	3.13%	T&D Capital

Symbol D

	MGD	%
Avg Day	7.692	63.31%
Max Day Inc	4.458	36.69%
Total Max Day	12.150	100.00%

Symbol E

	TOTAL	BASE	MAX. DAY	PEAK HOUR	METERING	BILLING	DIRECT FIRE
Amount	\$8,030,459	\$3,099,943	\$1,389,839	\$250,883	\$2,092,372	\$914,718	\$282,705
Percent	E	38.6%	17.3%	3.1%	26.1%	11.4%	3.5%

Symbol H

	MGD	%
Avg Day	7.692	43.07%
Max Day Inc	4.458	24.96%
Peak Hour Inc	5.710	31.97%
Total Peak Hour	17.860	100.00%

FY 22

Avg Day (mgd)	7.69
Max Day (mgd)	12.15
Max Hour (mgd)	17.86

Symbol M These accounts include activities associated with meter reading, meter testing, backflow testing, etc. Costs have been split based on the following personnel associated with these activities:

	# Employees	Meter Read	Meters
Meter Reader	1.0	1.0	
Technician	3.0		3.0
Backflow	1.0		1.0
Subtotal	5.0	1.0	4.0
Percent		20%	80%
Agent	1.0	0.20	0.80
Supervisor	1.0	0.20	0.80
Total	7.0	1.4	5.6
Percent		20%	80%

ALLOCATION SYMBOLS

Symbol O

	<u>% of Time</u>	<u>BASE</u>	<u>MAX. DAY</u>	<u>PEAK HOUR</u>	<u>METERING</u>	<u>BILLING</u>	<u>DIRECT FIRE</u>
Mains	29.00%	13.53%	7.84%	7.63%	0.00%	0.00%	0.00%
Hydrants	7.00%	0.00%	0.00%	0.00%	0.00%	0.00%	7.00%
Services	<u>64.00%</u>	<u>0.00%</u>	<u>0.00%</u>	<u>0.00%</u>	<u>64.00%</u>	<u>0.00%</u>	<u>0.00%</u>
Total	100.0%	13.5%	7.8%	7.6%	64.0%	0.0%	7.0%

Symbol T

	<u>Plant Amt.</u>	<u>BASE</u>	<u>MAX. DAY</u>	<u>PEAK HOUR</u>	<u>METERING</u>	<u>BILLING</u>	<u>DIRECT FIRE</u>
Transmission	\$18,636,480	\$11,797,923	\$6,838,558	\$0	\$0	\$0	\$0
Distribution	<u>\$86,813,290</u>	<u>\$37,387,178</u>	<u>\$21,671,135</u>	<u>\$27,754,977</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Total	\$105,449,770	\$49,185,101	\$28,509,692	\$27,754,977	\$0	\$0	\$0
		46.64%	27.04%	26.32%	0.00%	0.00%	0.00%

Symbol T-C

	<u>Plant Amt.</u>	<u>BASE</u>	<u>MAX. DAY</u>	<u>PEAK HOUR</u>	<u>METERING</u>	<u>BILLING</u>	<u>DIRECT FIRE</u>
Distribution Reservoirs	\$693,080	\$298,483	\$173,013	\$221,584	\$0	\$0	\$0
Transmission Mains	\$18,636,480	\$11,797,923	\$6,838,558	\$0	\$0	\$0	\$0
Distribution mains	\$86,813,290	\$37,387,178	\$21,671,135	\$27,754,977	\$0	\$0	\$0
Services	\$12,681,745	\$0	\$0	\$0	\$12,681,745	\$0	\$0
Meters	\$6,000,262	\$0	\$0	\$0	\$6,000,262	\$0	\$0
Hydrants	<u>\$4,034,471</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$4,034,471</u>
Total	\$128,859,328	\$49,483,584	\$28,682,706	\$27,976,561	\$18,682,007	\$0	\$4,034,471
		38.40%	22.26%	21.71%	14.50%	0.00%	3.13%

FIRE SERVICE CHARGES

PUBLIC FIRE SERVICE

Annual Charge/Hydrant = \$1,005.88
Charge per meter/month (Pawtucket) = \$7.29

PRIVATE FIRE SERVICE

<u>SERVICE SIZE</u> <u>(inches)</u>	<u>ANNUAL</u> <u>CHARGE</u>
2	\$12.02
4	\$41.47
6	\$98.24
8	\$202.33
10	\$328.92
12	\$504.36

**ALLOCATION OF FIRE SERVICE EXPENSES
TO PUBLIC AND PRIVATE FIRE SERVICE**

	<u>NUMBER</u>	<u>DEMAND FACTOR (1)</u>	<u>NO. OF EQUIVS.</u>	<u>PERCENT OF DEMAND</u>	<u>NON-HYDR. REQUIRED</u>	<u>DIRECT HYDRANT</u>	<u>TOTAL</u>
PUBLIC FIRE SERVICE							
Hydrants	1,922	111.31	213,939.6	74.92%	\$1,716,063	\$217,247	\$1,933,310
PRIVATE FIRE SERVICE							
SIZE (IN)							
2	42	6.19	260.0				
4	79	38.32	3,027.2				
6	388	111.31	43,188.6				
8	93	237.21	22,060.2				
10	4	426.58	1,706.3				
12	<u>2</u>	<u>689.04</u>	<u>1,378.1</u>				
TOTAL-PRIV.	608		71,620.5	25.08%	\$574,486	\$0	\$574,486
GRAND TOTALS	2,530		285,560.1	100.00%	\$2,290,548	\$217,247	\$2,507,795
Total Fire Allocation					\$2,507,795		
Less: Hydrant Capital					\$217,247		
Net Non-Hydrant					\$2,290,548		

(1) Based on size to the 2.63 power.

DETERMINATION OF FIRE SERVICE CHARGES

<u>PUBLIC FIRE PROTECTION</u>		<u>CALCULATED</u>	
		<u>CHARGE</u>	
PUBLIC FIRE ALLOCATION	\$1,933,310		
----- =	----- =	\$1,005.88 per year =	\$83.82 per month
NUMBER OF PUBLIC HYDRANTS	1,922		

PRIVATE FIRE PROTECTION

PRIVATE FIRE ALLOCATION (1)	\$574,486		
----- =	----- =	\$8.02 /EQUIV.	
NO. OF EQUIV. UNITS	71,620.47		

	<u>ANNUAL AMOUNTS</u>					<u>+ BILLING ALCULATED</u>	
<u>SIZE (IN)</u>	<u>DEMAND</u>	<u>DEMAND</u>	<u>SERVICE</u>	<u>SERVICE</u>	<u>MONTHLY</u>	<u>CHARGE</u>	<u>MON. CHRG</u>
	<u>FACTOR</u>	<u>CHARGE</u>	<u>EQUIVS (2)</u>	<u>LINE CHRG</u>	<u>TOTAL</u>		
2	6.19	\$49.65	5.00	\$47.87	\$8.13	\$3.89	\$12.02
4	38.32	\$307.37	15.00	\$143.60	\$37.58	\$3.89	\$41.47
6	111.31	\$892.85	25.00	\$239.33	\$94.35	\$3.89	\$98.24
8	237.21	\$1,902.69	50.00	\$478.66	\$198.45	\$3.89	\$202.33
10	426.58	\$3,421.70	50.00	\$478.66	\$325.03	\$3.89	\$328.92
12	689.04	\$5,526.99	50.00	\$478.66	\$500.47	\$3.89	\$504.36

- (1) Private Fire includes allocated service maintenance costs as detailed below:
(2) See Schedule 2.0

Service Line Maintenance Cost =	\$134,769	(Half of total "Metering" O&M)
Service Line Debt Costs =	\$285,971	Debt for metering*(services for metering/(services for metering + meters f
Addnl Allocation to Fire Service =	\$153,603	(36.51%)
Cost per Equiv/year =	\$ 9.57	

CITY OF PAWTUCKET FIRE CHARGES

Because the City of Pawtucket has passed an Ordinance to stop paying hydrant rental fees under R.I.G.L. § 45-39-4 it is necessary to reallocate the allocated costs directly to the customers in Pawtucket. This was approved by the RI PUC in Docket 4300.

Fire Hydrants in Pawtucket =	1,514
Proposed Hydrant Charge (per month) =	\$83.82
Annual Hydrant Charge to Pawtucket =	\$1,522,842
Number of Meters *	208,932
Fire Charge per meter =	\$7.29

* Pawtucket Water Proposed to recover these costs through an additional charge per meter in Docket 4300.
This was approved by the RI PUC.

DETERMINATION OF SERVICE CHARGES

BILLING CHARGE

CUST. BILLING ALLOC.		\$1,109,354	
-----	=	-----	=
NUMBER OF BILLINGS (Include Priv		285,288	\$3.89 PER BILLING

METER CHARGE

CUST. METER ALLOC. (1)		\$2,941,022	
-----	=	-----	=
NO. EQUIV. METERS		27,905	\$105.40 / EQ. METER/YR

TOTAL SERVICE CHARGES

<u>METER SIZE (IN)</u>	<u>MONTHLY ACCOUNTS</u>		
	<u>METER CHARGE</u>	<u>BILLING CHARGE</u>	<u>TOTAL CHARGE</u>
5/8	\$8.78	\$3.89	\$12.67
3/4	\$13.17	\$3.89	\$17.06
1	\$21.96	\$3.89	\$25.85
1 1/2	\$43.91	\$3.89	\$47.80
2	\$70.26	\$3.89	\$74.15
3	\$131.74	\$3.89	\$135.63
4	\$219.57	\$3.89	\$223.46
6	\$439.15	\$3.89	\$443.04
8	\$702.64	\$3.89	\$706.53

**ALLOCATION OF GENERAL WATER EXPENSES
TO CUSTOMER CLASSES**

Class Demands

CUSTOMER CLASS	AVERAGE DEMANDS		FACTOR	MAX DAY EXTRA CAPACITY		
	(CCF/DAY)	PERCENT		(CCF/DAY)	XTRA CCF/DAY	PERCENT
<i>Retail</i>						
Small (5/8 - 1")	6,863	69.14%	2.11	14,448	7,584	70.23%
Large (>1")	1,848	18.62%	1.74	3,208	1,360	12.60%
<i>Wholesale</i>						
Cumberland	1,215	12.24%	2.53	3,069	1,854	17.17%
Seekonk	0	0.00%	2.53	0	0	0.00%
Total	9,927	100.00%		20,725	10,799	100.00%

CUSTOMER CLASS	AVERAGE DEMANDS		FACTOR	PEAK HOUR EXTRA CAPACITY		
	(CCF/DAY)	PERCENT		(CCF/DAY)	XTRA CCF/DAY	PERCENT
<i>Retail</i>						
Small (5/8 - 1")	6,863	69.14%	3.09	21,238	6,790	78.91%
Large (>1")	1,848	18.62%	2.55	4,716	1,508	17.52%
<i>Wholesale</i>						
Cumberland	1,215	12.24%	2.78	3,376	307	3.57%
Seekonk	0	0.00%	2.78	0	0	0.00%
Total	9,927	100.00%		29,330	8,605	100.00%

Allocation of Retail Metered Sales Costs to Classes (see DF Sch. 3.3)

CUSTOMER CLASS	BASE COSTS	MAX. DAY XTRA CAPACITY		PEAK HR. XTRA CAPACITY		TOTAL AMOUNT
	PERCENT	AMOUNT	PERCENT	AMOUNT	PERCENT	
<i>Retail</i>						
Small (5/8 - 1")	78.79%	\$7,402,116	84.79%	\$2,609,203	81.83%	\$758,270
Large (>1")	21.21%	\$1,993,063	15.21%	\$467,936	18.17%	\$168,377
Total	100.00%	\$9,395,179	100.00%	\$3,077,139	100.00%	\$926,647
		70.1%		23.0%		6.9%

METERED WATER RATES

Small (5/8 - 1")

Total Expense (2)	\$10,700,787	=	\$	4.271 per ccf
<hr/>				
Metered Sales (HCF) (1)	2,505,167			

Large (>1")

Total Expense (2)	\$2,629,376	=	\$	3.898 per ccf	\$	4.000 Proposed
<hr/>						
Metered Sales (HCF) (1)	674,531					

Wholesale

Total Expense (3)	\$1,654,935	=	\$	3.732 per ccf
<hr/>				
Metered Sales (HCF) (1)	443,494			

(1) See DF Sch. 2.0

(2) See DF Sch. 6.0

(3) See DF Sch. 3.3

COMPARISON OF CURRENT & PROPOSED RATES

		<u>Current</u>	<u>Proposed</u>	<u>% Change</u>
<u>Metered Rates (\$/ccf)</u>				
Small (5/8 - 1")		\$4.254	\$4.271	0.4%
Large (>1")		\$4.000	\$4.000	0.0%
Wholesale		\$3.477	\$3.732	7.3%
<u>Service Charges (Monthly)</u>				
	5/8	\$11.02	\$12.67	15.0%
	3/4	\$14.36	\$17.06	18.8%
	1	\$19.68	\$25.85	31.3%
	1 1/2	\$37.62	\$47.80	27.0%
	2	\$48.15	\$74.15	54.0%
	3	\$54.33	\$135.63	149.6%
	4	\$123.63	\$223.46	80.8%
	6	\$184.27	\$443.04	140.4%
	8	\$262.23	\$706.53	169.4%
<u>Fire Service (Monthly)</u>				
Public	/hydrant/month	\$58.14	\$83.82	44.2%
Pawtucket	\$/billing	\$5.06	\$7.29	44.1%
Private				
	2	\$17.80	\$12.02	-32.5%
	4	\$38.43	\$41.47	7.9%
	6	\$96.51	\$98.24	1.8%
	8	\$175.62	\$202.33	15.2%
	10	\$261.98	\$328.92	25.6%
	12	\$381.67	\$504.36	32.1%

IMPACT OF PROPOSED RATES

METER SIZE	MONTHLY USE - CU FT	CURRENT RATES	<----- PROPOSED ----->		
			NEW BILL	\$ INCREASE	% INCREASE
<u>Metered Service (Monthly Bills/Includes Pawtucket Fire)</u>					
Small					
5/8	600	\$36.54	\$38.30	\$1.75	4.8%
5/8	800	\$45.05	\$46.84	\$1.79	4.0%
5/8	1,200	\$62.07	\$63.92	\$1.85	3.0%
5/8	1,700	\$83.34	\$85.28	\$1.94	2.3%
5/8	2,500	\$117.37	\$119.45	\$2.08	1.8%
5/8	3,000	\$138.64	\$140.80	\$2.16	1.6%
5/8	5,000	\$223.72	\$226.22	\$2.50	1.1%
5/8	7,500	\$330.07	\$333.00	\$2.93	0.9%
5/8	9,000	\$393.88	\$397.06	\$3.18	0.8%
1	1,000	\$62.22	\$68.56	\$6.34	10.2%
1	12,000	\$530.16	\$538.37	\$8.21	1.5%
1	25,000	\$1,083.18	\$1,093.60	\$10.42	1.0%
Large					
1 1/2	25,000	\$1,037.62	\$1,047.80	\$10.18	1.0%
1 1/2	50,000	\$2,037.62	\$2,047.80	\$10.18	0.5%
2	75,000	\$3,048.15	\$3,074.15	\$26.00	0.9%
2	100,000	\$4,048.15	\$4,074.15	\$26.00	0.6%
3	75,000	\$3,054.33	\$3,135.63	\$81.30	2.7%
3	100,000	\$4,054.33	\$4,135.63	\$81.30	2.0%
4	250,000	\$10,123.63	\$10,223.46	\$99.83	1.0%
6	300,000	\$12,184.27	\$12,443.04	\$258.77	2.1%
Wholesale					
6	1,000,000	\$34,954.27	\$37,763.04	\$2,808.77	8.0%
<u>Fire Service (Monthly Bill)</u>					
Municipal Fire Service	200 hydrants	\$968.97	\$1,397.00	\$428.03	44.2%
Pawtucket Public Fire Protection	per bill	\$5.06	\$7.29	\$2.23	44.1%
Private Fire Service	4 Inch Service	\$3.20	\$3.46	\$0.25	7.9%
	6 Inch Service	\$8.04	\$8.19	\$0.14	1.8%
	8 Inch Service	\$14.64	\$16.86	\$2.23	15.2%

Test Year Calculated User Charge Revenues

Fixed Charges			
Meter Size	FY 22 Accounts	FY 22 Rate/Month	FY 22 Annual Revenues
5/8	21,730	\$ 11.02	\$ 2,873,575
3/4	273	\$ 14.36	\$ 47,053
1	533	\$ 19.68	\$ 125,899
1 1/2	207	\$ 37.62	\$ 93,456
2	366	\$ 48.15	\$ 211,470
3	13	\$ 54.33	\$ 8,476
4	5	\$ 123.63	\$ 7,418
6	1	\$ 184.27	\$ 2,211
8	0	\$ 262.23	\$ -
Total	23,128		\$ 3,369,558
Volumetric Charges			
Rate Class	FY 22 Consumption	FY 22 Rate per ccf	FY 22 Annual Revenues
Small (5/8" - 1")	2,517,084	\$4.254	\$ 10,707,675
Large (>1")	688,774	\$4.000	\$ 2,755,096
Wholesale	418,439	\$3.477	\$ 1,454,912
Total	3,624,297		\$ 14,917,684
Fire Charges			
Rate Class	FY 22 Units	FY 22 Rate/Month	FY 22 Annual Revenues
Public hydrants	408	\$ 58.138	\$ 284,644
Pawtucket	17,411	\$ 5.058	\$ 1,056,778
			\$ 1,341,422
Private Fire Service			
2	42	\$ 17.800	\$ 8,971
4	79	\$ 38.430	\$ 36,432
6	388	\$ 96.510	\$ 449,351
8	93	\$ 175.620	\$ 195,992
10	4	\$ 261.980	\$ 12,575
12	2	\$ 381.670	\$ 9,160
Total	608		\$ 712,480
Grand Total User Charge Revenue			\$ 20,341,143

Rate Year Calculated User Charge Revenues

Fixed Charges			
Meter Size	Accounts	Rate/Month	Annual Revenues
5/8	21,756	\$ 12.67	\$ 3,307,782
3/4	274	\$ 17.06	\$ 56,093
1	537	\$ 25.85	\$ 166,577
1 1/2	205	\$ 47.80	\$ 117,588
2	375	\$ 74.15	\$ 333,675
3	13	\$ 135.63	\$ 21,158
4	5	\$ 223.46	\$ 13,408
6	1	\$ 443.04	\$ 5,316
8	0	\$ 706.53	\$ -
Total	23,166		\$ 4,021,598
Volumetric Charges			
Rate Class	Consumption	Rate per ccf	Annual Revenues
Small (5/8" - 1")	2,505,167	\$4.271	\$ 10,699,568
Large (>1")	674,531	\$4.000	\$ 2,698,123
Wholesale	443,494	\$3.732	\$ 1,655,119
Total	3,623,191		\$ 15,052,809
Fire Charges			
Rate Class	Units	Rate/Month	Annual Revenues
Public hydrants	408	\$ 83.820	\$ 410,383
Pawtucket	17,411	\$ 7.290	\$ 1,523,114
Private Fire Service			
2	42	\$ 12.015	\$ 6,056
4	79	\$ 41.469	\$ 39,313
6	388	\$ 98.237	\$ 457,392
8	93	\$ 202.335	\$ 225,806
10	4	\$ 328.919	\$ 15,788
12	2	\$ 504.360	\$ 12,105
Total	608		\$ 756,459
Grand Total User Charge Revenue			\$ 21,764,363

Difference (\$) \$ 1,423,220
Difference (%) 7.00%

	<u>Step 1</u> <u>FY 2024</u>	<u>Step 2</u> <u>FY 2025</u>	<u>Step 3</u> <u>FY 2026</u>	<u>Step 4</u> <u>FY 2027</u>
FY 2024 Revenue Required from Rates	\$ 21,765,674	\$ 21,765,674	\$ 21,765,674	\$ 21,765,674
<u>Salary Step Increases</u>				
General & Admin	\$ -	\$ 24,516	\$ 25,447	\$ 27,307
Customer Service	-	5,869	6,001	6,137
Source of Supply	-	4,775	4,896	5,020
Purification	-	-	-	-
T&D	-	26,228	18,896	20,371
Engineering	-	13,888	14,262	15,304
Metering	-	5,188	4,614	6,297
Subtotal: Salary Step Increases	-	80,464	74,116	80,435
Rate Year Revenue Required from Rates	\$ 21,765,674	\$ 21,846,138	\$ 21,920,254	\$ 22,000,689
Step Increase (%)		0.4%	0.3%	0.4%
Step Increase (\$)		\$ 80,464	\$ 74,116	\$ 80,435



**STATE OF RHODE ISLAND
PUBLIC UTILITIES COMMISSION**

IN RE: PAWTUCKET WATER SUPPLY BOARD

**DIRECT TESTIMONY
OF JAMES L. DECELLES, P.E.
CHIEF ENGINEER
PAWTUCKET WATER SUPPLY BOARD**

SEPTEMBER 14, 2023

1 **I. INTRODUCTION**

2 **Q. Please provide your full name, title and business address for the record.**

3 A. James L. DeCelles, P.E., Chief Engineer, Pawtucket Water Supply Board, 85 Branch
4 Street, Pawtucket, RI 02860

5

6 **Q. How long have you been employed by the Pawtucket Water Supply Board?**

7 A. I was hired as Assistant Chief Engineer on March 14, 2005. I assumed the duties of
8 Acting Chief Engineer in February 2006, and I became Chief Engineer as of June 20,
9 2007.

10

11 **Q. What are your responsibilities at the Pawtucket Water Supply Board?**

12 A. I serve as the general manager of the Pawtucket Water Supply Board ("PWSB"),
13 which includes water supply, treatment, and distribution systems. The PWSB serves a
14 population of approximately 99,167 in the City of Pawtucket, the City of Central Falls,
15 and the Valley Falls section of the Town of Cumberland.

16

17 **Q. Can you provide a brief description of your previous work experience?**

18 A. From May 1988 to February 1990, I worked for the Rhode Island Department of
19 Environmental Management, Division of Water Resources as a Junior Sanitary Engineer
20 responsible for design review and construction management. From 1990 to 2000, I held
21 the position of Water and Sewer Superintendent for the Town of North Smithfield. As
22 the Superintendent, I was responsible for the complete operation and maintenance of
23 the water and wastewater systems for the Town of North Smithfield. From 2000 to
24 2005 I was the Utilities Manager for the Town of North Attleboro, MA and was
25 responsible for the management of the water and wastewater systems for the Town.

26

27 **Q. What is your educational background?**

28 A. I hold a Masters Degree in Civil Engineering from Worcester Polytechnic Institute and
29 a BS in Environmental Engineering Technology from Norwich University.

1 **Q. Do you have any professional affiliations?**

2 A. I am a registered professional engineer in the State of Rhode Island and a member of
3 the Rhode Island Water Works Association, American Water Works Association, the
4 New England Water Works Association, and American Metropolitan Water Association.
5 For the New England Water Works Association, I currently serve as president and am a
6 member of the Waterworks Safety Practices and Membership committees. I am a
7 member of the Program and Legislative Committees, as well as the Executive Board for
8 the Rhode Island Water Works Association. I am also a member of the American Society
9 of Civil Engineers.

10

11 **Q. What is the purpose of your testimony?**

12 A. To support the PWSB's request for a four step multi-year rate increase for the rate
13 years July 1, 2023 to June 30, 2024 (FY 2024), July 1, 2024 to June 30, 2025 (FY 2025),
14 July 1, 2025 to June 30, 2026 (FY 2026), and July 1, 2026 to June 30, 2027 (FY 2027).

15

16 **II. OVERVIEW**

17 **Q. Can you please provide a brief overview of the PWSB's recent history of rate
18 increases?**

19 A. Yes. The PWSB's last full rate filing was submitted to the Commission on February 4,
20 2015. This filing sought a multi-year rate increase for Fiscal Years 2016, 2017 and 2018
21 pursuant to R.I.G.L. § 39-15.1-4 (Docket 4550). The parties in that Docket reached a
22 settlement agreement that was approved by the Commission, which provided for an
23 8.5% increase in total revenues for Step 1 (FY 2016), a 6.6% increase in total revenues
24 for Step 2 (FY 2017) and a 3.8% increase for Step 3 (FY 2018). The Step 2 and 3 increases
25 were subject to the PWSB submitting compliance filings as required by R.I.G.L. § 39-
26 15.1-4.

27

28

29

1 **Q. Did the PWSB implement the Step 2 and 3 increases in FY 2017 and FY 2018?**

2 A. Yes. Through the compliance filings, the PWSB implemented the Step 2 and 3
3 increases, but at lower amounts than preliminarily approved by the Commission. The
4 Step 2 (FY 2017) increase was lowered from 6.6% to 2.8%, and the Step 3 (FY 2018) was
5 reduced from 3.8% to 2.3%.

6

7 **Q. Has the PWSB sought any additional rate increases since FY 2018?**

8 A. No. The proposed increase in FY 2024 will be PWSB's first rate increase in six years.

9

10 **Q. What are the main drivers of the PWSB's request to increase rates?**

11 A. The main drivers are as follows:

12

- 13 1. Consumption – the PWSB has seen changes in consumption since its last rate
14 filing.
- 15 2. Salaries and Related Benefits – PWSB has 12 employees who are members of
16 Teamsters Local 251 and their contract expired on June 30, 2023. Recently, the
17 PWSB reached a tentative agreement with the Teamsters that provides for three
18 percent increases in Fiscal Years 2024, 2025 and 2026. The PWSB also has 36
19 employees who are members of RI Council 94, AFSCME, AFL-CIO Local 1012, and
20 are in the final year of a three-year contract.
- 21 3. Treatment Plant Operating Contract – the PWSB's twenty-year contract for the
22 operation of its treatment plant expires on February 14, 2024 and we expect this
23 cost to increase.
- 24 4. Increased Electricity Expense – the PWSB's electricity costs have increased as
25 have the costs of many other utilities.
- 26 5. Miscellaneous Operation and Maintenance (O&M) Expense – many of the
27 PWSB's operating expenses have increased since Docket 4550.

28

29

1 **Q. How is the proposed rate increase to be applied?**

2 A. A full cost of service and rate design study has been prepared by David M. Fox of
3 Raftelis Financial Consultants. As such, please see his testimony and schedules for the
4 proposed application of the requested increase.

5
6 **III. REVENUE REQUEST AND INCREASED EXPENSES**

7
8 **1. Consumption Decline**

9 **Q. You indicated that the PWSB has seen a decline in consumption. Can you comment
10 further on this?**

11 A. Yes. As set forth in Mr. Fox's testimony, the PWSB has experienced an average
12 decrease of 1.1% in retail consumption between FY 2015 and FY 2022. The PWSB has
13 also experienced wide swings in wholesale consumption in this same period, which have
14 resulted in a 5.9% increase. Overall, the PWSB has experienced a 0.6% average drop in
15 consumption.

16
17 **2. Salaries and Benefits**

18 **Q. Can you please explain the increased expense for salaries and benefits?**

19 A. Yes, the increased expense is largely due to increases in two union contracts for
20 PWSB employees. The PWSB has 12 employees who are members of Teamsters Local
21 251 and their contract expired on June 30, 2023. The PWSB has reached a tentative
22 agreement with the Teamsters that calls for 3% increases in Fiscal Years 2024, 2025 and
23 2026. The PWSB has requested a multi-year rate plan so these increases can be phased
24 in over three years rather than including the amounts needed for FY 2025 and 2026 in
25 the first year of the increase – FY 2024. A multi-year increase also eliminates the need
26 for the PWSB to file rate cases for the FY 2025 and FY 2026 increases. Rather, the PWSB
27 can implement these increases through the compliance filing mechanism required by
28 R.I.G.L. § 39-15.1-4.

29

1 The PWSB also has 36 employees who are members of RI Council 94, AFSCME, AFL-CIO
2 Local 1012 and are currently in the final year of a three-year contract, which expires on
3 June 30, 2024. I have suggested that Mr. Fox include a 1% increase for these employees
4 for Fiscal Years 2025, 2026 and 2027. Based on past experience, I expect the increases
5 to this contract to be more than 1%, but I don't want to negatively impact the PWSB's
6 bargaining position. Similar to the Teamsters contract, any increases in the Local 1012
7 contract can be addressed in the PWSB's compliance filings required by R.I.G.L. § 39-
8 15.1-4. And similar to the Teamsters, any increases can be phased in over the three-year
9 term of the contract.

10

11 **Q. Are there any other factors that play a role in the increased salaries and benefits?**

12 A. Yes, the cost of health and dental insurance has increased, and Mr. Fox made an
13 adjustment for expenses related to the Municipal Employee's Retirement System
14 (MERS).

15

16 **3. Treatment Plant Operating Contract**

17 **Q. Can you please explain the issues regarding the treatment plant operating contract.**

18 A. Yes. The PWSB's original treatment plant went into operation in 1938. By the late
19 1980's, and into the 1990's, the PWSB's treatment plant and water distribution system
20 faced *many* serious problems. In particular, the existing treatment plant would not be
21 able to meet enhanced Surface Water Treatment Rules issued by the United States
22 Environmental Protection Agency. After a comprehensive evaluation it was determined
23 that a new treatment plant was needed. The PWSB then hired consultants to evaluate
24 the best procurement method for constructing the plant. After a rigorous process, it was
25 determined that a Design, Build, Operate ("DBO") procurement would be the most cost
26 effective. Under the DBO process, one vendor would be responsible for designing,
27 building and operating the new plant. After an 18-month process, the PWSB chose Earth
28 Tech as the vendor, and entered into a contract dated September 10, 2003. The
29 operation obligation under this contract expires on February 14, 2024. Through a series

1 of corporate mergers and acquisitions, Veolia is now responsible for operating the
2 PWSB's water treatment plant.

3
4 The contract contains the following renewal clause:

5 "The PWSB and the City shall have the option to renew this Agreement for two
6 additional periods, each of five (5) years. If the PWSB and the City determine
7 that they wish to renew this Agreement pursuant to this Section, the PWSB shall
8 give the Company written notice of the PWSB's irrevocable election to renew
9 this Agreement on or before one hundred eighty (180) days preceding the last
10 day of the Initial Term hereof or the then effective Renewal Term hereof. If the
11 PWSB so elects to renew this Agreement, such renewal shall be on the same
12 terms and conditions as are applicable during the Initial Term hereof. However,
13 the Company may terminate this Agreement at the expiration of the Initial Term
14 only if, following request by the Company, the PWSB does not permit a
15 reconsideration and adjustment, if warranted, of the amount of the Service Fee,
16 based upon documented evidence, over a minimum of the previous five (5) years
17 of the Initial Term, presented by the Company in support of such request for
18 reconsideration."

19
20 On March 29, 2022, the PWSB exercised its option to renew the operations contract for
21 five (5) years on the same terms and conditions as the original agreement. On March 27,
22 2023, Veolia notified the PWSB that it was agreeable to continued operation of the
23 plant, but, pursuant to the terms of the contract, it was unable to agree to renewing the
24 agreement at the current service fee. Veolia requested that the PWSB adjust the service
25 fee, and requested an opportunity to meet to discuss a contract renewal. The PWSB has
26 engaged legal counsel to provide advice and guidance on this issue, and to potentially
27 undertake negotiations with Veolia. The PWSB is in the process of evaluating its options,
28 and has not begun any discussion with Veolia at this time. However, the contract will
29 expire during the litigation of this Docket, and it is certain that the operating costs will
30 increase. In our filing, we kept the rate year operating contract costs level at the current
31 amount of \$2,042,470, which includes the contractual CPI escalator. We will update this
32 expense for the rate year FY 2024 and the step increases for FYs 2025-2027 once we
33 have a firm cost for the continued operation of the water treatment plant.

1 **4. Electricity**

2 **Q. Can you please address the PWSB’s increased electricity expense?**

3 A. The PWSB has seen a steady increase of the cost per kw hour over the last three
4 electric supply contracts as seen below:

5	2017-2021	\$0.0743/kwh
6	2021-2022	\$0.1208/kwh
7	2022-2025	\$0.16125/kwh

8 These increases resulted in an annual electric cost of approximately \$804,000 in 2018-
9 2019, before the pandemic, to \$906,000 in 2021-2022 , and to \$1,145,000 in 2022-2023.

10

11 **5. Miscellaneous Operation and Maintenance Expenses**

12 **Q. In addition to the expenses listed above, has the PWSB seen an increase in other
13 operation and maintenance expenses?**

14 A. Yes. As set forth above, the PWSB’s last rate increase was the 2.3% increase in FY
15 2018, and that increase was mainly tied to debt service. So, in the last five years our
16 operation and maintenance expenses have increased as addressed in more detail by Mr.
17 Fox’s testimony and schedules.

18

19 **IV. TARIFFS**

20 **Q. Is the PWSB requesting any other changes to its tariffs?**

21 A. Yes. The PWSB is proposing minor grammatical and style changes to its tariffs, which
22 are identified in the marked-up tariffs submitted with this filing.

23

24 **V. CONCLUSION**

25 **Q. Does this conclude your testimony?**

26 A. Yes. Subject to review of further documentation and the testimony of the Division
27 and any Interveners, this concludes my direct testimony.

28

**STATE OF RHODE ISLAND
PUBLIC UTILITIES COMMISSION**

IN RE: PAWTUCKET WATER SUPPLY BOARD – APPLICATION TO CHANGE RATE SCHEDULES

DOCKET NO:

**INDEX AND RESPONSES IN COMPLIANCE WITH THE
RHODE ISLAND PUBLIC UTILITIES COMMISSION'S RULES OF
PRACTICE AND PROCEDURE, PART 5 (810-RICR-00-00-5),
SECTIONS 5.4 THROUGH 5.9 and R.I.G.L § 39-3-12.1**

I. Index and Responses in Compliance with Part 5, Section 5.4

Item 5.4 **Notice of Filing (to be published in Providence Journal).**

Response: Please see Table of Contents, Item 3

Notice of Proposed General Rate Schedule to Customers.

Response: Please see Table of Contents, Item 4

II. Index and responses in Compliance with Part 5, Section 5.5

Item 5.5.A.1 **Current and Proposed Tariffs, Rate Schedules, Terms and Conditions.**

Response: Please see Appendix, Item A.

Item 5.5.A.2 **Complete Direct Case.**

Response: Please see Table of Contents, Items 5 through 6.

Item 5.5.A.3.a **Annual Report to the Commission for Last Two Years.**

Response: All required reports are on file with the Rhode Island Public Utilities Commission.

Item 5.5.A.3.b **Federal Energy Regulation Commission or Federal Communication Commission Annual Reports.**

Response: Not applicable.

Item 5.5.A.3.c **Federal Energy Regulatory/Communications Commission Audit Reports.**

Response: Not applicable.

Item 5.5.A.3.d **Security and Exchange Commission Report.**

Response: Not applicable.

Item 5.5.A.3.e **Prospectus for Last Two Years.**

Response: Not applicable.

Item 5.5.A.3.f Annual Reports to Stockholders.

Response: Not applicable.

Item 5.5.A.3.g Statements Reconciling Differences in Filing and Above Reports.

Response: Not applicable.

III. Index and responses in Compliance with Part 5, Section 5.6

Item 5.6.A Test Year (July 1, 2021 to June 30, 2022).

Response: Please see testimony of David M. Fox and supporting schedules.

Item 5.6.B Rate Year (July 1, 2023 to June 30, 2024).

Response: Please see testimony of David M. Fox and James L. DeCelles, P.E. and supporting schedules.

Item 5.6.C Adjustments to the Test Year.

Response: Please see testimony of David M. Fox and supporting schedules.

IV. Index and responses in Compliance with Part 5, Section 5.7

Item 5.7 Attestation of Financial Data.

Response: Please see Appendix, Item B.

V. Index and responses in Compliance with Part 5, Section 5.8

Items 5.8.A.1-23 Supporting Information and Work Papers to be Filed by Investor Owned Utilities.

Response: Not applicable.

VI. Index and responses in Compliance with Part 5, Section 5.9

Item 5.9.A.1 Cost of Service Schedules.

Response: Please see testimony of David M. Fox and supporting schedules.

Item 5.9.A.2 Work Papers Supporting Claim for Working Capital.

Response: Not applicable.

Item 5.9.A.3 Work Papers Supporting Allocation of Cost of Service among Associated Entities.

Response: Not applicable

Item 5.9.A.4 Work Papers Detailing Test Year and Rate Year Revenues, etc.

Response: Please see testimony of Harold Smith and supporting schedules.

- Item 5.9.A.5** **Effect of Proposed Rate Changes.**
Response: Please see testimony of David M. Fox and supporting schedules. For sample bill and proposed tariffs, see Appendix C.
- Item 5.9.A.6** **Debt Service Schedules.**
Response: Please see testimony of David M. Fox and supporting schedules, and Appendix, Item D.
- Item 5.9.A.7** **Schedule of Lease Payments.**
Response: Not Applicable.
- Item 5.9.A.8** **Analysis of Revenues and Associated Expenses for Test Year.**
Response: Please see testimony of David M. Fox and supporting schedules.
- Item 5.9.A.9** **Rate Year Municipal Tax Expense Calculation.**
Response: Please see Appendix, Item E.
- Item 5.9.A.10** **Employee Information.**
Response: Please see Appendix, Item F.
- Item 5.9.A.11** **Summary of Affiliated Entities Transaction.**
Response: Please see Appendix, Item G.
- Item 5.9.A.12** **Financial Data for Non-Coinciding Test Year.**
Response: Not Applicable.
- Item 5.9.A.13** **Summary of Expenses Incurred and Projected Related to Instant Rate Case.**
Response: Please see testimony of David M. Fox.
- Item 5.9.A.14.a** **Unaccounted for Water.**
Response: Please see Appendix, Item H.
- Item 5.9.A.14.b** **Loss on Transmission of Electricity, or Gas.**
Response: Not applicable.
- Item 5.9.A.14.c** **Utilities Own Use of Water.**
Response: Please see Appendix, Item I.
- Item 5.9.A.15** **Compliance with Prior Commission Orders**
The Pawtucket Water Supply Board is compliant with prior Commission Orders.

VII. Compliance with R.I.G.L § 39-3-12.1

Please See Appendix, Items J through M for:

- The status of its physical plant, including the volume of its water supply and the source of the supply.
- The maintenance policy of the utility, to include the date distribution pipes were last installed, and the length of pipe installed for at least a ten (10) year duration.
- The name and cost of each chemical introduced into the water supply during the most recent six (6) month period, including the amount used, and the purpose for the use.
- The policy of the utility toward future expansion and renovation of the physical plant, including the amount of funds expended within the preceding year and expected to be expended within the next year for expansion, renovation, equipment purchase, and/or research and development.

APPENDIX

- A. Current and Proposed Tariffs, Rate Schedules, Terms and Conditions
- B. Attestation of Financial Data
- C. Sample Bill
- D. Debt Service Schedules
- E. Rate Year Municipal Tax Expense Calculation
- F. Employee Information
- G. Summary of Affiliated Entities Transaction
- H. Unaccounted for Water
- I. Utilities Own Use of Water
- J. Status of its physical plant, including the volume of its water supply and the source of the supply
- K. Maintenance policy of the utility, to include the date distribution pipes were last installed, and the length of pipe installed for at least a ten (10) year duration
- L. Name and cost of each chemical introduced into the water supply during the most recent six (6) month period, including the amount used, and the purpose for the use
- M. Policy of the utility toward future expansion and renovation of the physical plant, including the amount of funds expended within the preceding year and expected to be expended within the next year for expansion, renovation, equipment purchase, and/or research and development

PAWTUCKET WATER SUPPLY BOARD

TARIFF SCHEDULES

DOCKET 4550

Effective: July 9, 2017

Replaces: July 1, 2016

PAWTUCKET WATER SUPPLY BOARD

85 BRANCH STREET

PAWTUCKET, RHODE ISLAND 02860

PAWTUCKET WATER SUPPLY BOARD

TARIFF SCHEDULES

Public Utilities Docket No. 4550

Replaces Tariff: July 1, 2016

Effective: July 9, 2017

TARIFF SCHEDULES

Schedule

- A Bulk Sales for Resale
- B Public Fire Protection
- C Private Fire Protection
- D Customer Service Charge
- E Metered Sales
- F Miscellaneous Charges
- G Penalty for Late Payment of Water Bill

SCHEDULE A

PAWTUCKET WATER SUPPLY BOARD

Bulk Sales to Public Suppliers for Resale

Rhode Island Public Utilities Commission

Public Utilities Docket No. 4550

Effective: July 9, 2017

Applicability

Applicable throughout the entire territory served by the Pawtucket Water Supply Board for bulk water sales for resale to public water suppliers.

Rates

For each Hundred Cubic Foot:	\$ 3.477
For each Thousand Gallons	\$ 4.649
For each Million Gallons	\$ 4,649.39

or such other pricing as the PWSB is either bound to by existing contract or may negotiate with an individual municipal supplier.

Terms of Payment

All bills for bulk sales for resale to public water authorities furnished under this schedule are due and payable in full when rendered.

SCHEDULE B

PAWTUCKET WATER SUPPLY BOARD

Public Fire Protection

Rhode Island Public Utilities Commission

Public Utilities Docket No. 4550

Effective: July 9, 2017

Applicability

Applicable throughout the entire territory served by the Pawtucket Water Supply Board for service to public fire hydrants.

Rates

	<u>Per Annum</u>	<u>Monthly</u>
For each Hydrant	\$ 697.656	\$ 58.138

All public meters which are not 6 inch hydrants pay the private fire protection rates. See Schedule C of this tariff for the rates.

In addition, a monthly Public Fire Protection Service Charge per meter, will be charged to customers in the City of Pawtucket effective January 1, 2012

Effective: July 9, 2017 \$ 5.058 per month

Terms of Payment

All bills for public fire protection service furnished under this schedule are rendered monthly in arrears and are due and payable in full when rendered.

SCHEDULE C

PAWTUCKET WATER SUPPLY BOARD

Private Fire Protection

Rhode Island Public Utilities Commission

Public Utilities Docket No. 4550

Effective: July 9, 2017

Applicability

Applicable throughout the entire territory served by the Pawtucket Water Supply Board for service to private fire protection appliances owned and maintained by the customer based upon the size of the connection to the premises measured at the street.

	<u>Per Annum</u>	<u>Per Month</u>
For each 2 inch connection	\$ 213.61	\$ 17.80
For each 4 inch connection	\$ 461.17	\$ 38.43
For each 6 inch connection	\$1,158.15	\$ 96.51
For each 8 inch connection	\$2,107.45	\$ 175.62
For each 10 inch connection	\$3,143.77	\$ 261.98
For each 12 inch connection	\$4,580.09	\$ 381.67

Unmetered fire hydrants will be charged as six-inch connections. No additional charge will be made for fire protection appliances owned and maintained by the customers.

Terms of Payment

All bills for private fire protection service furnished under this schedule are rendered monthly in arrears and are due and payable in full when rendered. Water use through fire services for the purposes other than fire protection shall be billed in arrears at the same rate per hundred cubic feet as the small class in Schedule E.

Fire services are equipped with a detector check valve furnished by the owner, and a by-pass meter purchased by the owner from the Pawtucket Water Supply Board.

Detector Check Size

4 inch
6 inch
8 inch
10 inch
12 inch

By-Pass Meter Size

3/4 or 1 inch
1-1/2 inch
2 inch
3 inch
4 inch

SCHEDULE D
PAWTUCKET WATER SUPPLY BOARD

Customer Service Charge

Rhode Island Public Utilities Commission

Public Utilities Docket No. 4550

Effective: July 9, 2017

Applicability

Applicable throughout the entire territory served by the Pawtucket Water Supply Board for residential, commercial and industrial users, exclusive of fire service connections.

Rates

For each service connected to the Pawtucket Water Supply Board's mains, the following quarterly and monthly minimum customer service charges shall apply:

<u>Size of Meter</u>	<u>Monthly Customer Service Charge</u>
5/8 inch	\$ 11.020
3/4 inch	\$ 14.363
1 inch	\$ 19.684
1-1/2 inch	\$ 37.623
2 inch	\$ 48.149
3 inch	\$ 54.331
4 inch	\$ 123.626
6 inch	\$ 184.267
8 inch	\$ 262.226

Terms of Payment

All customer service charges billed under this schedule are rendered in arrears on monthly basis and are due and payable in full when rendered.

SCHEDULE E
PAWTUCKET WATER SUPPLY BOARD

Metered Sales

Rhode Island Public Utilities Commission

Public Utilities Docket No. 4550

Effective: July 9, 2017

Applicability

General metered water service in the entire territory served by the Pawtucket Water Supply Board.

Rates

For all quantities used except for private fire protection and bulk sales to public authorities for resale, the following rates shall apply:

<u>Class (meter size)</u>	<u>Rate per HCF</u> <u>(Hundred Cubic Feet)</u>
Small (5/8" – 1")	\$ 4.254
Large (> 1")	\$ 4.000

Terms of Payment

All metered sales bills under this schedule are rendered on a monthly basis, in arrears and are due and payable in full when rendered.

SCHEDULE F
PAWTUCKET WATER SUPPLY BOARD

Miscellaneous Charges

Rhode Island Public Utilities Commission

Public Utilities Docket No. 4550

Effective: July 9, 2017

Meter Service Charge

Applicable to all meters requiring repair due to freezing, hot water, vandalism, tampering, or other action or inaction of the premises owner to properly protect the meter. In addition, parts and labor will be billed at actual cost. Charges are payable when billed.

<u>Meter size and type</u>	<u>Meter Service Charge</u>
5/8" to 2" – all types	\$ 100.00
Over 2"	Customer's responsibility

Meter Test Charge

Meter testing for all meter over 2" is the responsibility of the customer.

The meter test charge for all meters up to 2" in size will be at PWSB's cost.

When a tested meter up to 2" in size has been deemed accurate the meter test charge will be charged to the customer's account and is payable in full when billed.

Photocopying

Distribution sheet	\$3.00 per page
Letter or legal size document	\$0.15 per page

Pavement/Sidewalk Restoration

At actual cost.

Police Details

Traffic control required for public safety will be at the hourly detail rate of the local police department.

SCHEDULE F (continued)
PAWTUCKET WATER SUPPLY BOARD

Miscellaneous Charges

Rhode Island Public Utilities Commission

Public Utilities Docket No. 4550

Effective: July 9, 2017

Service Termination Charges

Applicable to all customers whose service has been terminated due to delinquent account status or violations of the Rules and Regulations of the Pawtucket Water Supply Board. Payable in advance before service is restored.

Service Shutoff Fee: \$ 100.00 per occurrence

Service Restoration Fee: \$ 100.00 per occurrence

Meter Tampering Charge:

Charge: \$ 500.00 plus a meter service charge and the cost of parts to install a new meter.

These charges are payable in full when billed.

Application Charge

Not Applicable

Returned Check Fee:

Charge: \$ 20.00

Lien Certificate Fee:

Charge: \$ 20.00 per occurrence

Fire Hydrant Flow Test

Charge: \$150.00

Swimming Pools

Not Applicable.

Tank Truck – Bulk Sales

Tank trucks must be filled using an air-gap separation to assure the prevention of the backflow from the truck to the water system. The consumer will pay a service charge (Tank Truck filling Permit) of \$50.00 per day, plus the cost of the water used at the prevailing rate, plus the cost of PWSB labor if required. The customer will use a hydrant meter to document the volume of the truck.

SCHEDULE F (continued)
PAWTUCKET WATER SUPPLY BOARD
Miscellaneous Charges

Rhode Island Public Utilities Commission
Public Utilities Docket No. 4550

Effective: July 9, 2017

Main Extensions

An engineering fee, sampling/testing charge will be assessed prior to approval of construction.

The engineering inspection fee is \$250.00 per day.

The charge for sampling and testing shall be \$85.00 for each segment of pipe to be tested, and shall be paid prior to the start of construction.

A deposit is required as security for the faithful performance of the contract work. This deposit may be used to complete the installation or correct any defects in the event that the contractor fails to do so in a timely manner. This refundable deposit is due prior to commencement of construction and shall be held for a period of one year following acceptance of the main extension. The amount of the deposit is based on the length of the main extension as follows:

<u>Main Length</u>	<u>Deposit Fee</u>
0 – 150 linear feet	\$ 2,000.00
151 – 300 linear feet	\$ 4,000.00
301 – 450 linear feet	\$ 6,000.00 *
Over 450 linear feet	\$ 8,000.00 *

*A performance bond in the amount of \$20,000 may be substituted for the deposit fee upon prior approval of the PWSB.

SCHEDULE F (continued)
PAWTUCKET WATER SUPPLY BOARD

Miscellaneous Charges

Rhode Island Public Utilities Commission

Public Utilities Docket No. 4550

Effective: July 9, 2017

Service Installation Charges

The charges for service installations are to be paid at the time of application for a new water service installation or for connection to a vacant lot service or abandoned water service.

The cost of road patching, sidewalk patching, and engineering/inspection, must be added to the basic service installation charges as set forth herein.

All installation charges are to be computed by the Engineering Section of the Pawtucket Water Supply Board.

NEW WATER SERVICE INSTALLATION FEES

<u>Service Size</u>	<u>Fee</u>
1" Service	\$ 1,973.00
2" Service	\$ 3,095.00
4" Service	3,433.00
6" Service	3,705.00
8" Service	4,324.00
10" Service	5,541.00

The basic installation fee for services greater than 10 inch in size shall be charged on a time and materials basis consistent with the methodology used in computing the above basic installation fees.

Special circumstances – Any new water service installation sites where special circumstances may be encountered (i.e. ledge, special fittings, routing around other utilities, and repair traffic control devices) will be charged on a time and materials basis.

SCHEDULE F (continued)
PAWTUCKET WATER SUPPLY BOARD
Miscellaneous Charges

Rhode Island Public Utilities Commission
Public Utilities Docket No. 4550

Effective: July 9, 2017

In addition to the basic installation fee and any costs related to special circumstances, the applicant shall be responsible for charges associated with the following:

1. All road and/or sidewalk restoration costs
2. Uniformed police officers for traffic control required for public safety at the current local Police Department rate.
3. The cost of the water meter and meter couplings purchased from the PWSB for meter sizes through 2 inches (meters larger than 2 inch in size shall be purchased, owned, installed and maintained by the applicant/owner
4. "Customer Service Charge" for one full year based on the meter size
5. If the new service is a fire service, the "Annual Fire Service Charge" is based on the size of the fire service connection to the premises measured at the street.
6. The "Road Opening Permit" fee at the current local City of Town rate.

Temporary Construction Service

Service applications will be completed and returned to the Pawtucket Water Supply Board, 85 Branch Street, Pawtucket, RI 02860, during normal business hours.

- a. Advance payment will be made at the time of application. This payment will include an application/service charge of six months duration; a deposit on the meter and connection; and a deposit on the estimated cost of the water to be used. Please consult the instructions on the back of the application and/or the Rules and Regulations of the PWSB for further details.
- b. Water Charges are as follows:

<u>Meter Size</u>	<u>Material Deposit</u>	<u>6 month AP. Service Charge</u>	<u>Water Deposit</u>	<u>TOTAL</u>
5/8"	\$ 100.00	\$ 27.90	\$ 272.04	\$ 400.00
2"	\$ 800.00	\$ 155.58	\$ 544.42	\$ 1,500.00

SCHEDULE G

PAWTUCKET WATER SUPPLY BOARD

Penalty for Late Penalty of Water Bills

Rhode Island Public Utilities Commission

Public Utilities Docket No. 4550

Effective: July 9, 2017

Applicability

Applicable throughout the entire territory served by the Pawtucket Water Supply Board for residential, commercial and industrial users.

Rates

Amounts not paid by the DUE DATE will accumulate a penalty of 18% per year (1.5% per month) from the DUE DATE through the PAYMENT DATE.

The DUE DATE is 24 days after the BILLING DATE and both dates are listed on each billing statement. The billing statements are postmarked and mailed no later than five days after the BILLING DATE.

PAWTUCKET WATER SUPPLY BOARD
TARIFF SCHEDULES

DOCKET ~~4550~~XXX

Effective: ~~July 9, 2017~~ October 14, 2023

Replaces: ~~July 9, 2017~~ July 1, 2016

PAWTUCKET WATER SUPPLY BOARD
85 BRANCH STREET
PAWTUCKET, RHODE ISLAND 02860

PAWTUCKET WATER SUPPLY BOARD

TARIFF SCHEDULES

Public Utilities Docket No. 4550XXX

Replaces Tariff: ~~July 9, 2017~~ July 1, 2016

Effective: ~~July 9, 2017~~ October 14, 2023

TARIFF SCHEDULES

Schedule

- A Bulk Sales to Public Suppliers for Resale
- B Public Fire Protection
- C Private Fire Protection
- D Customer Service Charge
- E Metered Sales
- F Miscellaneous Charges
- G Penalty for Late Payment of Water Bills

SCHEDULE A

PAWTUCKET WATER SUPPLY BOARD

Bulk Sales to Public Suppliers

for Resale

Rhode Island Public Utilities Commission

Public Utilities Docket No. ~~4550~~XXX

Effective: ~~July 9, 2017~~October 14, 2023

Applicability

Applicable throughout the entire territory served by the Pawtucket Water Supply Board for bulk water sales for resale to public water suppliers.

Rates

For each Hundred Cubic Foot:	\$ 3.4773 <u>7.732</u>
For each Thousand Gallons	\$ 4.6494 <u>9.990</u>
For each Million Gallons	\$ 4,649.394 <u>9,989.95</u>

or such other pricing as the PWSB is either bound to by existing contract or may negotiate with an individual municipal supplier.

Terms of Payment

All bills for bulk sales for resale to public water authorities suppliers furnished under this schedule are due and payable in full when rendered.

SCHEDULE B

PAWTUCKET WATER SUPPLY BOARD

Public Fire Protection

Rhode Island Public Utilities Commission

Public Utilities Docket No. 4550XXX

Effective: ~~October 14, 2023~~ July 9, 2017

Applicability

Applicable throughout the entire territory served by the Pawtucket Water Supply Board for service to public fire hydrants.

Rates

	<u>Per Annum</u>	<u>Monthly</u>
For each Hydrant	\$ 697.65 <u>1,005.84</u>	\$ 58.13 <u>83.82</u>

All public meters which are not 6 inch hydrants pay the private fire protection rates. See Schedule C of this tariff for the rates.

In addition, a monthly Public Fire Protection Service Charge per meter, will be charged to customers in the City of Pawtucket effective January 1, 2012

Effective: ~~October 1, 2023~~ July 9, 2017 \$ ~~5.05~~ 87.29 per month

Terms of Payment

All bills for public fire protection service furnished under this schedule are rendered monthly in arrears and are due and payable in full when rendered.

SCHEDULE C

PAWTUCKET WATER SUPPLY BOARD

Private Fire Protection

Rhode Island Public Utilities Commission

Public Utilities Docket No. 4550XXX

Effective: ~~October 14, 2023~~ July 9, 2017

Applicability

Applicable throughout the entire territory served by the Pawtucket Water Supply Board for service to private fire protection appliances owned and maintained by the customer based upon the size of the connection to the premises measured at the street.

	<u>Per Annum</u>	<u>Per Month</u>
For each 2 inch connection	\$ 213.61 <u>144.24</u>	\$ 17.80 <u>12.02</u>
For each 4 inch connection	\$ 461.17 <u>497.64</u>	\$ 38.43 <u>41.47</u>
For each 6 inch connection	\$ 1,158.15 <u>1,178.88</u>	\$ 96.51 <u>98.24</u>
For each 8 inch connection	\$ 2,107.45 <u>2,427.96</u>	\$ 175.62 <u>202.33</u>
For each 10 inch connection	\$ 3,143.77 <u>3,947.04</u>	\$ 261.98 <u>328.92</u>
For each 12 inch connection	\$ 4,580.09 <u>6,052.32</u>	\$ 381.67 <u>504.36</u>

Unmetered fire hydrants will be charged as six-inch connections. No additional charge will be made for fire protection appliances owned and maintained by the customers.

Terms of Payment

All bills for private fire protection service furnished under this schedule are rendered monthly in arrears and are due and payable in full when rendered. Water use through fire services for the purposes other than fire protection shall be billed in arrears at the same rate per hundred cubic feet as the small class in Schedule E.

Fire services are equipped with a detector check valve furnished by the owner, and a by-pass meter purchased by the owner from the Pawtucket Water Supply Board.

Detector Check Size

4 inch
6 inch
8 inch
10 inch
12 inch

By-Pass Meter Size

3/4 or 1 inch
1-1/2 inch
2 inch
3 inch
4 inch

SCHEDULE D
PAWTUCKET WATER SUPPLY BOARD
Customer Service Charge

Rhode Island Public Utilities Commission

Public Utilities Docket No. ~~4550~~XXX

Effective: ~~October 14, 2023~~ July 9, 2017

Applicability

Applicable throughout the entire territory served by the Pawtucket Water Supply Board for residential, commercial and industrial users, exclusive of fire service connections.

Rates

For each service connected to the Pawtucket Water Supply Board's mains, the following ~~quarterly and~~ monthly minimum customer service charges shall apply:

<u>Size of Meter</u>	<u>Monthly Customer Service Charge</u>
5/8 inch	\$ 11.02 <u>12.67</u>
3/4 inch	\$ 14.36 <u>17.06</u>
1 inch	\$ 19.68 <u>25.85</u>
1-1/2 inch	\$ 37.62 <u>47.80</u>
2 inch	\$ 48.14 <u>74.15</u>
3 inch	\$ 54.33 <u>135.63</u>
4 inch	\$ 123.62 <u>223.46</u>
6 inch	\$ 184.26 <u>443.04</u>
8 inch	\$ 262.22 <u>706.53</u>

Terms of Payment

All customer service charges billed under this schedule are rendered in arrears on monthly basis and are due and payable in full when rendered.

SCHEDULE E

PAWTUCKET WATER SUPPLY BOARD

Metered Sales

Rhode Island Public Utilities Commission

Public Utilities Docket No. 4550XXX

Effective: ~~October 14, 2023~~ July 9, 2017

Applicability

General metered water service in the entire territory served by the Pawtucket Water Supply Board.

Rates

For all quantities used except for private fire protection and bulk sales to public authorities suppliers for resale, the following rates shall apply:

<u>Class (meter size)</u>	<u>Rate per HCF (Hundred Cubic Feet)</u>
Small (5/8" – 1")	\$ 4.25 <u>4.271</u>
Large (> 1")	\$ 4.000

Terms of Payment

All metered sales bills under this schedule are rendered on a monthly basis, in arrears and are due and payable in full when rendered.

SCHEDULE F

PAWTUCKET WATER SUPPLY BOARD

Miscellaneous Charges

Rhode Island Public Utilities Commission

Public Utilities Docket No. 4550XXX

Effective: ~~October 14, 2023~~ July 9, 2017

Meter Service Charge

Applicable to all meters requiring repair due to freezing, hot water, vandalism, tampering, or other action or inaction of the premises owner to properly protect the meter. In addition, parts and labor will be billed at actual cost. Charges are payable when billed.

<u>Meter size and type</u>	<u>Meter Service Charge</u>
5/8" to 2" – all types	\$ 100.00
Over 2" – <u>all types</u>	Customer's responsibility

Meter Test Charge

Meter testing for all meters over 2" is the responsibility of the customer.

The meter test charge for all meters up to 2" in size will be at PWSB's cost.

When a tested meter up to 2" in size has been deemed accurate the meter test charge will be charged to the customer's account and is payable in full when billed.

Photocopying

Distribution sheet	\$3.00 per page
Letter or legal size document	\$0.15 per page

Pavement/Sidewalk Restoration

At actual cost.

Police Details

Traffic control required for public safety will be at the hourly detail rate of the local police department.

SCHEDULE F (continued)

PAWTUCKET WATER SUPPLY BOARD

Miscellaneous Charges

Rhode Island Public Utilities Commission

Public Utilities Docket No. 4550XXX

Effective: ~~July 9, 2017~~ October 14, 2023

Service Termination Charges

Applicable to all customers whose service has been terminated due to delinquent account status or violations of the Rules and Regulations of the Pawtucket Water Supply Board. Payable in advance before service is restored.

Service Shutoff Fee: \$ 100.00 per occurrence

Service Restoration Fee: \$ 100.00 per occurrence

Meter Tampering Charge:

Charge: \$ 500.00 plus a meter service charge and the cost of parts to install a new meter.

These charges are payable in full when billed.

Application Charge:

Not Applicable

Returned Check Fee:

Charge: \$ 20.00

Lien Certificate Fee:

Charge: \$ 20.00 per occurrence

Fire Hydrant Flow Test:

Charge: \$150.00

Swimming Pools:

Not Applicable.

Tank Truck – Bulk Sales

Tank trucks must be filled using an air-gap separation to assure the prevention of the backflow from the truck to the water system. The consumer will pay a service charge (Tank Truck Filling Permit) of \$50.00 per day, plus the cost of the water used at the prevailing rate, plus the cost of PWSB labor if required. The customer will use a hydrant meter to document the volume of the truck.

SCHEDULE F (continued)

PAWTUCKET WATER SUPPLY BOARD

Miscellaneous Charges

Rhode Island Public Utilities Commission

Public Utilities Docket No. 4550XXX

Effective: ~~July 9, 2017~~ October 14, 2023

Main Extensions

An engineering fee, sampling/testing charge will be assessed prior to approval of construction.

The engineering inspection fee is \$250.00 per day.

The charge for sampling and testing shall be \$85.00 for each segment of pipe to be tested, and shall be paid prior to the start of construction.

A deposit is required as security for the faithful performance of the contract work. This deposit may be used to complete the installation or correct any defects in the event that the contractor fails to do so in a timely manner. This refundable deposit is due prior to commencement of construction and shall be held for a period of one year following acceptance of the main extension. The amount of the deposit is based on the length of the main extension as follows:

<u>Main Length</u>	<u>Deposit Fee</u>
0 – 150 linear feet	\$ 2,000.00
151 – 300 linear feet	\$ 4,000.00
301 – 450 linear feet	\$ 6,000.00 *
Over 450 linear feet	\$ 8,000.00 *

*A performance bond in the amount of \$20,000 may be substituted for the deposit fee upon prior approval of the PWSB.

SCHEDULE F (continued)

PAWTUCKET WATER SUPPLY BOARD

Miscellaneous Charges

Rhode Island Public Utilities Commission

Public Utilities Docket No. XXX4550

Effective: October 14, 2023~~July 9, 2017~~

Service Installation Charges

The charges for service installations are to be paid at the time of application for a new water service installation or for connection to a vacant lot service or abandoned water service.

The cost of road patching, sidewalk patching, and engineering/inspection, must be added to the basic service installation charges as set forth herein.

All installation charges are to be computed by the Engineering Section of the Pawtucket Water Supply Board.

NEW WATER SERVICE INSTALLATION FEES

<u>Service Size</u>	<u>Fee</u>
1" Service	\$ 1,973.00
2" Service	\$ 3,095.00
4" Service	\$ 3,433.00
6" Service	\$ 3,705.00
8" Service	\$ 4,324.00
10" Service	\$ 5,541.00

The basic installation fee for services greater than 10 inches in size shall be charged on a time and materials basis consistent with the methodology used in computing the above basic installation fees.

Special circumstances – Any new water service installation sites where special circumstances may be encountered (i.e. ledge, special fittings, routing around other utilities, and repair traffic control devices) will be charged on a time and materials basis.

SCHEDULE F (continued)
PAWTUCKET WATER SUPPLY BOARD

Miscellaneous Charges

Rhode Island Public Utilities Commission

Public Utilities Docket No. 4550XXX

Effective: ~~October 14, 2023~~ July 9, 2017

In addition to the basic installation fee and any costs related to special circumstances, the applicant shall be responsible for charges associated with the following:

1. All road and/or sidewalk restoration costs.
2. Uniformed police officers for traffic control required for public safety at the current local Police Department rate.
3. The cost of the water meter and meter couplings purchased from the PWSB for meter sizes through 2 inches (meters larger than 2 inch in size shall be purchased, owned, installed and maintained by the applicant/owner).
4. "Customer Service Charge" for one full year based on the meter size.
5. If the new service is a fire service, the "Annual Fire Service Charge" is based on the size of the fire service connection to the premises measured at the street.
6. The "Road Opening Permit" fee at the current local City or Town rate.

Temporary Construction Service

Service applications will be completed and returned to the Pawtucket Water Supply Board, 85 Branch Street, Pawtucket, RI 02860, during normal business hours.

- a. Advance payment (AP) will be made at the time of application. This payment will include an application/service charge of six months duration; a deposit on the meter and connection; and a deposit on the estimated cost of the water to be used. Please consult the instructions on the back of the application and/or the Rules and Regulations of the PWSB for further details.
- b. Water Charges are as follows:

<u>Meter Size</u>	<u>Material Deposit</u>	<u>6 month AP. Service Charge</u>	<u>Water Deposit</u>	<u>TOTAL</u>
5/8"	\$ 100.00	\$ 27.90	\$ 272.04	\$ 400.00
<u>1" - 2"</u>	\$ 800.00	\$ 155.58	\$ 544.42	\$ 1,500.00

SCHEDULE G

PAWTUCKET WATER SUPPLY BOARD

Penalty for Late Penalty of Water Bills

Rhode Island Public Utilities Commission

Public Utilities Docket No. XXX4550

Effective: October 14, 2023~~July 9, 2017~~

Applicability

Applicable throughout the entire territory served by the Pawtucket Water Supply Board for residential, commercial and industrial users.

Rates

Amounts not paid by the DUE DATE will accumulate a penalty of 18% per year (1.5% per month) from the DUE DATE through the PAYMENT DATE.

The DUE DATE is 24 days after the BILLING DATE and both dates are listed on each billing statement. The billing statements are postmarked and mailed no later than five days after the BILLING DATE.

STATE OF RHODE ISLAND
PUBLIC UTILITIES COMMISSION

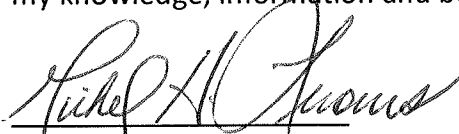
IN RE:

PAWTUCKET WATER SUPPLY BOARD:

DOCKET NO.


ATTESTATION UNDER RULE 5.7
OF THE RHODE ISLAND PUBLIC UTILITIES COMMISSION'S
RULES OF PRACTICE AND PROCEDURE

I, Michel H. Lecours, Chief Financial Officer for the Pawtucket Water Supply Board in conformance with Rule 5.7 of the Rhode Island Public Utilities Commission's Rules of Practice and Procedure, hereby attest that the financial information contained in the documents prepared by me in the Pawtucket Water Supply Board's Application to Change Rates are true and correct to the best of my knowledge, information and belief.

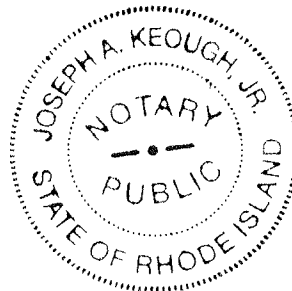

Michel H. Lecours

STATE OF RHODE ISLAND

Subscribed and sworn to me this ^{13th} day of September, 2023.



Notary Public



Billing Inquiries:
 Mon - Fri 8AM - 4PM
 Phone: 401-729-9050
 Fax: 401-727-3423



Pay Your Bill:
 By check or credit card
 Phone: 1-855-282-7632
 On-line: www.pwsb.org

Service Address: [REDACTED]	Account No: [REDACTED]
From Read Date: 6/01/2023	Customer Type: RESIDENTIAL-MULTI FAMILY
To Read Date: 6/30/2023	Bill Date: 7/13/2023
	Due Date: 8/08/2023

Messages:
 Pay by phone: 1-855-282-7632 or Online: www.pwsb.org

BILLING SUMMARY

Payments	Outstanding Balance	Adjustments	Current Charges	Total Due
\$.00	\$55.28	\$.00	\$39.27	\$94.55

Meter Number	Size	Begin Read	End Read	Multiplier	Consumption
R37261877	5/8	391	396	1	5

Charge Description	Consumption (HCF)	Charge	Total
CUST SRV CHG 5/8"	.00	\$11.02	
METERED WATER USE	5.00	\$21.27	
PAWT FIRE PROTECTION	.00	\$5.06	
RI STATE SURCHARGE	5.00	\$1.09	

Other Charges	Date	
LATE PAYMENT PENALTY	7/12/2023	\$.83
Total Current Charges		\$39.27

KEEP THIS PART



DETACH AND INCLUDE THIS PART WITH PAYMENT

Check this box if you have made a correction on the reverse side

Service Address:
 [REDACTED]

Due Date 8/08/2023
Account Number [REDACTED]
Total Due \$94.55
Amount Paid _____

13734

[REDACTED] PAWTUCKET RI 02861-2503

|||||
 Pawtucket Water Supply Board
 PO Box 1111
 Providence, RI 02901-1111

9000018941000051310000000094556

PAWTUCKET WATER SUPPLY BOARD - IMPORTANT CUSTOMER INFORMATION

RESIDENTIAL PROPERTY OWNERS 65 YEARS OF AGE AND OVER ARE EXEMPT from the state surcharge. Contact the Customer Service Office at 401-729-9050 to determine your eligibility for this **SENIOR EXEMPTION**.

ACH CONVERSION OF CHECKS: Payments made by check MAY be converted to an ACH debit for processing.

CREDIT CARD OR ELECTRONIC CHECK PAYMENTS—Payment processing fees are paid by Pawtucket Water Supply Board.

LATE PAYMENT PENALTY CHARGE: Current charges must be paid by the DUE DATE printed on this bill. Delinquent amounts will be charged a penalty of 18% per year (1.5% per month)

PAYMENT RECEIPTS – A receipted copy of this bill will not be sent. Your cancelled check will serve as receipt of payment.

SALE OF PROPERTY - It is your responsibility to notify the Customer Service Office when you sell or transfer ownership of this property.

WATER LIENS - Per RI law water charges are liens on the listed property as of the billing date and the property owner is liable for the payment of all water charges on the listed property.

WATER LIEN SALE FEE - A fee of \$250 will be charged to delinquent accounts scheduled to be sold at a water lien sale. A Statutory Notice will be mailed to the address of the property owner requesting payment of the account balance in full before the account is billed the water lien sale fee. If the account balance is not paid by the date stated on the notice, this fee will not be abated, canceled or refunded.

DELINQUENT ACCOUNTS – RESIDENTIAL CUSTOMERS ONLY

If your account is more than three months past due, service may be discontinued. To avoid a service shut-off, **contact the PWSB Customer Service Office** immediately so that you and one of our representatives can work out a mutually satisfactory settlement.

If satisfactory arrangements cannot be made with a Water Supply Board representative, you may submit the matter to the Rhode Island Public Utilities Commission, but the PUC has ruled that you should not submit the matter to the PUC until you have first discussed the case with a representative of the PWSB. The address of the RI PUC is: Review Officer, Division of Public Utilities and Carriers, Consumer Section, 89 Jefferson Boulevard, Warwick, RI 02888 or Toll-free in RI 780-9700.

Water service will not be discontinued while proceedings are pending before the PUC. Further, if a seriously ill person lives in the home, disconnection will be postponed upon presentation of a doctor's certification. The doctor's certification may be received at the Water Supply Customer Service Office initially by telephone AND written certification showing the name and address of the seriously ill person, the nature of the illness and its likely duration MUST be delivered to this office within seven (7) calendar days.

If service is terminated, the water will be turned on only after the entire past due amount has been paid in full, including all penalties incurred through the date of payment, plus a \$100 shut off charge and a \$100 reconnection charge.

Following termination of service; payment by cash, certified check or money order must be made at the Customer Service Office of the Pawtucket Water Supply Board. Office hours are Monday thru Friday 7:30 am to 4:00 pm (5:00 pm on the day water service is shut off).

RATES: (effective July 9, 2017)

Meter Size	Daily Rate-Customer Service Charge	Class (meter size)	Rates per Hundreds of Cubic Feet (HCF)
5/8 inch	\$ 0.362301	Small (5/8", 3/4", 1")	\$ 4.2540
3/4 inch	\$ 0.472208	Large (greater than 1")	\$ 4.0000
1 inch	\$ 0.647145		
1-1/2 inch	\$ 1.236921	State of Rhode Island Water Quality	
2 inch	\$ 1.582981	Protection Charge (state surcharge) \$ 0.2184	
3 inch	\$ 1.786225		
4 inch	\$ 4.064416		
6 inch	\$ 6.058093	Multiply 100's of cubic feet by 748.1 to convert HCF to gallons.	
8 inch	\$ 8.621129		
Pawtucket Fire Protection Charge Flat Monthly Rate			
All meter sizes	\$ 5.06	Per each meter located in the City of Pawtucket	

Rhode Island Clean Water Finance Agency
 Drinking Water Revolving Fund Revenue Bonds, Series 2004A

Loan Debt Service
 Pawtucket - \$41,875,000 Agency Loan

Date	Principal	Loan Rate	(1) Interest	Fees @ 0.500%	Total Fees & Interest	Capitalized Interest	Net Fees & Interest	Total Debt Service	Annual Debt Service
03/31/04									
9/1/2004	1,000.00	0.720%	62,951.14	12,659.69	75,610.83	(62,951.14)	12,659.69	13,659.69	13,659.69
3/1/2005			181,992.27	36,599.26	218,591.53	(181,992.27)	36,599.26	36,599.26	
9/1/2005	1,000.00	0.720%	375,267.54	75,467.58	450,735.12	(375,267.54)	75,467.58	76,467.58	113,066.84
3/1/2006			520,558.35	104,682.50	625,240.85	-	625,240.85	625,240.85	
9/1/2006	800,000.00	0.890%	520,558.35	104,682.50	625,240.85	-	625,240.85	1,425,240.85	2,050,481.70
3/1/2007			516,998.35	102,682.50	619,680.85	-	619,680.85	619,680.85	
9/1/2007	800,000.00	1.090%	516,998.35	102,682.50	619,680.85	-	619,680.85	1,419,680.85	2,039,361.70
3/1/2008			512,638.35	100,682.50	613,320.85	-	613,320.85	613,320.85	
9/1/2008	1,902,000.00	1.360%	512,638.35	100,682.50	613,320.85	-	613,320.85	2,515,320.85	3,128,641.70
3/1/2009			499,704.75	95,927.50	595,632.25	-	595,632.25	595,632.25	
9/1/2009	1,938,000.00	1.570%	499,704.75	95,927.50	595,632.25	-	595,632.25	2,533,632.25	3,129,264.50
3/1/2010			484,491.45	91,082.50	575,573.95	-	575,573.95	575,573.95	
9/1/2010	1,978,000.00	1.750%	484,491.45	91,082.50	575,573.95	-	575,573.95	2,553,573.95	3,129,147.90
3/1/2011			467,183.95	86,137.50	553,321.45	-	553,321.45	553,321.45	
9/1/2011	2,022,000.00	1.930%	467,183.95	86,137.50	553,321.45	-	553,321.45	2,575,321.45	3,128,642.90
3/1/2012			447,671.65	81,082.50	528,754.15	-	528,754.15	528,754.15	
9/1/2012	2,072,000.00	2.130%	447,671.65	81,082.50	528,754.15	-	528,754.15	2,600,754.15	3,129,508.30
3/1/2013			425,604.85	75,902.50	501,507.35	-	501,507.35	501,507.35	
9/1/2013	2,126,000.00	2.270%	425,604.85	75,902.50	501,507.35	-	501,507.35	2,627,507.35	3,129,014.70
3/1/2014			401,474.75	70,587.50	472,062.25	-	472,062.25	472,062.25	
9/1/2014	2,185,000.00	2.390%	401,474.75	70,587.50	472,062.25	-	472,062.25	2,657,062.25	3,129,124.50
3/1/2015			375,364.00	65,125.00	440,489.00	-	440,489.00	440,489.00	
9/1/2015	2,248,000.00	2.510%	375,364.00	65,125.00	440,489.00	-	440,489.00	2,688,489.00	3,128,978.00
3/1/2016			347,151.60	59,505.00	406,656.60	-	406,656.60	406,656.60	
9/1/2016	2,316,000.00	2.600%	347,151.60	59,505.00	406,656.60	-	406,656.60	2,722,656.60	3,129,313.20
3/1/2017			317,043.60	53,715.00	370,758.60	-	370,758.60	370,758.60	
9/1/2017	2,388,000.00	2.680%	317,043.60	53,715.00	370,758.60	-	370,758.60	2,758,758.60	3,129,517.20
3/1/2018			285,044.40	47,745.00	332,789.40	-	332,789.40	332,789.40	
9/1/2018	2,463,000.00	2.760%	285,044.40	47,745.00	332,789.40	-	332,789.40	2,795,789.40	3,128,578.80
3/1/2019			251,055.00	41,587.50	292,642.50	-	292,642.50	292,642.50	
9/1/2019	2,544,000.00	2.830%	251,055.00	41,587.50	292,642.50	-	292,642.50	2,836,642.50	3,129,285.00
3/1/2020			215,057.40	35,227.50	250,284.90	-	250,284.90	250,284.90	
9/1/2020	2,629,000.00	2.910%	215,057.40	35,227.50	250,284.90	-	250,284.90	2,879,284.90	3,129,569.80
3/1/2021			176,805.45	28,655.00	205,460.45	-	205,460.45	205,460.45	
9/1/2021	2,718,000.00	2.990%	176,805.45	28,655.00	205,460.45	-	205,460.45	2,923,460.45	3,128,920.90
3/1/2022			136,171.35	21,860.00	158,031.35	-	158,031.35	158,031.35	
9/1/2022	2,813,000.00	3.060%	136,171.35	21,860.00	158,031.35	-	158,031.35	2,971,031.35	3,129,062.70
3/1/2023			93,132.45	14,827.50	107,959.95	-	107,959.95	107,959.95	
9/1/2023	2,913,000.00	3.110%	93,132.45	14,827.50	107,959.95	-	107,959.95	3,020,959.95	3,128,919.90
3/1/2024			47,835.30	7,545.00	55,380.30	-	55,380.30	55,380.30	
9/1/2024	3,018,000.00	3.170%	47,835.30	7,545.00	55,380.30	-	55,380.30	3,073,380.30	3,128,760.60
3/1/2025			-	-	-	-	-	-	
9/1/2025			-	-	-	-	-	-	
3/1/2026			-	-	-	-	-	-	
	<u>41,875,000.00</u>		<u>13,662,184.94</u>	<u>2,493,846.53</u>	<u>16,156,031.47</u>	<u>(620,210.94)</u>	<u>15,535,820.53</u>	<u>57,410,820.53</u>	<u>57,410,820.53</u>

(1) Interest during construction period is calculated based on the timing of expected draws and the overall weighted average loan rate of 2.486%.

Rhode Island Clean Water Finance Agency
 Drinking Water Revolving Fund Revenue Bonds, Series 2005A
 Revised Final Pricing Numbers

Loan Debt Service
 Pawtucket - \$31,909,000 Agency Loan

Date	Principal	Loan Rate	(1) Interest	Fees @ 0.500%	Total Fees & Interest	Capitalized Interest	Net Fees & Interest	(3) Total Debt Service	Annual Debt Service
03/23/05									
9/1/2005	1,000.00 (2)		44,268.38	7,656.44	51,924.82	(44,268.38)	7,656.44	8,656.44	8,656.44
3/1/2006			183,550.62	31,746.00	215,296.62	(183,550.62)	31,746.00	31,746.00	
9/1/2006	1,000.00 (2)		278,010.38	48,083.28	326,093.66	-	326,093.66	327,093.66	358,839.66
3/1/2007			365,044.90	63,136.34	428,181.24	-	428,181.24	428,181.24	
9/1/2007	1,000.00 (2)		396,139.21	68,514.26	464,653.47	-	464,653.47	465,653.47	893,834.71
3/1/2008			444,544.06	76,886.12	521,430.18	-	521,430.18	521,430.18	
9/1/2008	1,173,000.00	1.990%	461,232.70	79,772.50	541,005.20	-	541,005.20	1,711,005.20	2,232,435.38
3/1/2009			449,561.35	76,840.00	526,401.35	-	526,401.35	526,401.35	
9/1/2009	1,202,000.00	2.140%	449,561.35	76,840.00	526,401.35	-	526,401.35	1,728,401.35	2,254,802.70
3/1/2010			436,699.95	73,835.00	510,534.95	-	510,534.95	510,534.95	
9/1/2010	1,234,000.00	2.270%	436,699.95	73,835.00	510,534.95	-	510,534.95	1,744,534.95	2,255,069.90
3/1/2011			422,694.05	70,750.00	493,444.05	-	493,444.05	493,444.05	
9/1/2011	1,268,000.00	2.380%	422,694.05	70,750.00	493,444.05	-	493,444.05	1,761,444.05	2,254,888.10
3/1/2012			407,604.85	67,580.00	475,184.85	-	475,184.85	475,184.85	
9/1/2012	1,304,000.00	2.500%	407,604.85	67,580.00	475,184.85	-	475,184.85	1,779,184.85	2,254,369.70
3/1/2013			391,304.85	64,320.00	455,624.85	-	455,624.85	455,624.85	
9/1/2013	1,344,000.00	2.620%	391,304.85	64,320.00	455,624.85	-	455,624.85	1,799,624.85	2,255,249.70
3/1/2014			373,698.45	60,960.00	434,658.45	-	434,658.45	434,658.45	
9/1/2014	1,386,000.00	2.700%	373,698.45	60,960.00	434,658.45	-	434,658.45	1,820,658.45	2,255,316.90
3/1/2015			354,987.45	57,495.00	412,482.45	-	412,482.45	412,482.45	
9/1/2015	1,430,000.00	2.770%	354,987.45	57,495.00	412,482.45	-	412,482.45	1,842,482.45	2,254,964.90
3/1/2016			335,181.95	53,920.00	389,101.95	-	389,101.95	389,101.95	
9/1/2016	1,477,000.00	2.840%	335,181.95	53,920.00	389,101.95	-	389,101.95	1,866,101.95	2,255,203.90
3/1/2017			314,208.55	50,227.50	364,436.05	-	364,436.05	364,436.05	
9/1/2017	1,526,000.00	2.900%	314,208.55	50,227.50	364,436.05	-	364,436.05	1,890,436.05	2,254,872.10
3/1/2018			292,081.55	46,412.50	338,494.05	-	338,494.05	338,494.05	
9/1/2018	1,578,000.00	2.950%	292,081.55	46,412.50	338,494.05	-	338,494.05	1,916,494.05	2,254,988.10
3/1/2019			268,806.05	42,467.50	311,273.55	-	311,273.55	311,273.55	
9/1/2019	1,632,000.00	2.990%	268,806.05	42,467.50	311,273.55	-	311,273.55	1,943,273.55	2,254,547.10
3/1/2020			244,407.65	38,387.50	282,795.15	-	282,795.15	282,795.15	
9/1/2020	1,689,000.00	3.040%	244,407.65	38,387.50	282,795.15	-	282,795.15	1,971,795.15	2,254,590.30
3/1/2021			218,734.85	34,165.00	252,899.85	-	252,899.85	252,899.85	
9/1/2021	1,749,000.00	3.070%	218,734.85	34,165.00	252,899.85	-	252,899.85	2,001,899.85	2,254,799.70
3/1/2022			191,887.70	29,792.50	221,680.20	-	221,680.20	221,680.20	
9/1/2022	1,811,000.00	3.120%	191,887.70	29,792.50	221,680.20	-	221,680.20	2,032,680.20	2,254,360.40
3/1/2023			163,636.10	25,265.00	188,901.10	-	188,901.10	188,901.10	
9/1/2023	1,877,000.00	3.160%	163,636.10	25,265.00	188,901.10	-	188,901.10	2,065,901.10	2,254,802.20
3/1/2024			133,979.50	20,572.50	154,552.00	-	154,552.00	154,552.00	
9/1/2024	1,946,000.00	3.210%	133,979.50	20,572.50	154,552.00	-	154,552.00	2,100,552.00	2,255,104.00
3/1/2025			102,746.20	15,707.50	118,453.70	-	118,453.70	118,453.70	
9/1/2025	2,018,000.00	3.250%	102,746.20	15,707.50	118,453.70	-	118,453.70	2,136,453.70	2,254,907.40
3/1/2026			69,953.70	10,662.50	80,616.20	-	80,616.20	80,616.20	
9/1/2026	2,094,000.00	3.260%	69,953.70	10,662.50	80,616.20	-	80,616.20	2,174,616.20	2,255,232.40
3/1/2027			35,821.50	5,427.50	41,249.00	-	41,249.00	41,249.00	
9/1/2027	2,171,000.00	3.300%	35,821.50	5,427.50	41,249.00	-	41,249.00	2,212,249.00	2,253,498.00
	<u>31,909,000.00</u>		<u>12,588,782.76</u>	<u>2,065,369.94</u>	<u>14,654,152.70</u>	<u>(227,819.00)</u>	<u>14,426,333.70</u>	<u>46,335,333.70</u>	<u>46,335,333.70</u>

- (1) Interest during construction period is calculated based on the timing of expected draws and the overall weighted average loan rate of 2.872%.
- (2) Represents sinking fund redemptions of 09/01/08 maturity.
- (3) 09/01/08 total debt service adjusted for sinking fund redemptions.

**Rhode Island Clean Water Finance Agency
Drinking Water Revolving Fund Revenue Bonds Series 2009A**

Fiscal Year	Date	Principal	Principal Forgiveness	Net Principal	Interest Payment	Agency Fees @ 0.5%
6/30/2010	11/19/2009					
6/30/2010	3/1/2010				3,802.26	630.97
6/30/2010 Total		-	-	-	3,802.26	630.97
6/30/2011	9/1/2010	1,000.00	(231.96)	768.04	11,405.22	1,892.67
6/30/2011	3/1/2011				52,245.06	8,669.94
6/30/2011 Total		1,000.00	(231.96)	768.04	63,650.28	10,562.61
6/30/2012	9/1/2011	220,000.00	(51,030.12)	168,969.88	65,474.15	10,865.27
6/30/2012	3/1/2012				67,816.83	10,971.52
6/30/2012 Total		220,000.00	(51,030.12)	168,969.88	133,290.98	21,836.79
6/30/2013	9/1/2012	223,000.00	(51,725.98)	171,274.02	67,816.83	10,971.52
6/30/2013	3/1/2013				66,643.60	10,543.34
6/30/2013 Total		223,000.00	(51,725.98)	171,274.02	134,460.43	21,514.86
6/30/2014	9/1/2013	227,000.00	(52,653.80)	174,346.20	66,643.60	10,543.34
6/30/2014	3/1/2014				65,109.35	10,107.47
6/30/2014 Total		227,000.00	(52,653.80)	174,346.20	131,752.95	20,650.81
6/30/2015	9/1/2014	233,000.00	(54,045.53)	178,954.47	65,109.35	10,107.47
6/30/2015	3/1/2015				63,185.59	9,660.08
6/30/2015 Total		233,000.00	(54,045.53)	178,954.47	128,294.94	19,767.55
6/30/2016	9/1/2015	239,000.00	(55,437.26)	183,562.74	63,185.59	9,660.08
6/30/2016	3/1/2016				60,900.23	9,201.18
6/30/2016 Total		239,000.00	(55,437.26)	183,562.74	124,085.82	18,861.26
6/30/2017	9/1/2016	246,000.00	(57,060.95)	188,939.05	60,900.23	9,201.18
6/30/2017	3/1/2017				58,340.11	8,728.83
6/30/2017 Total		246,000.00	(57,060.95)	188,939.05	119,240.34	17,930.01
6/30/2018	9/1/2017	254,000.00	(58,916.59)	195,083.41	58,340.11	8,728.83
6/30/2018	3/1/2018				55,530.91	8,241.12
6/30/2018 Total		254,000.00	(58,916.59)	195,083.41	113,871.02	16,969.95
6/30/2019	9/1/2018	262,000.00	(60,772.23)	201,227.77	55,530.91	8,241.12
6/30/2019	3/1/2019				52,512.49	7,738.05
6/30/2019 Total		262,000.00	(60,772.23)	201,227.77	108,043.40	15,979.17
6/30/2020	9/1/2019	271,000.00	(62,859.83)	208,140.17	52,512.49	7,738.05
6/30/2020	3/1/2020				49,286.32	7,217.70
6/30/2020 Total		271,000.00	(62,859.83)	208,140.17	101,798.81	14,955.75
6/30/2021	9/1/2020	281,000.00	(65,179.38)	215,820.62	49,286.32	7,217.70
6/30/2021	3/1/2021				45,854.77	6,678.15
6/30/2021 Total		281,000.00	(65,179.38)	215,820.62	95,141.09	13,895.85
6/30/2022	9/1/2021	292,000.00	(67,730.88)	224,269.12	45,854.77	6,678.15
6/30/2022	3/1/2022				42,221.61	6,117.48
6/30/2022 Total		292,000.00	(67,730.88)	224,269.12	88,076.38	12,795.63
6/30/2023	9/1/2022	302,000.00	(70,050.43)	231,949.57	42,221.61	6,117.48
6/30/2023	3/1/2023				38,406.04	5,537.60
6/30/2023 Total		302,000.00	(70,050.43)	231,949.57	80,627.65	11,655.08
6/30/2024	9/1/2023	314,000.00	(72,833.90)	241,166.10	38,406.04	5,537.60
6/30/2024	3/1/2024				34,366.51	4,934.69
6/30/2024 Total		314,000.00	(72,833.90)	241,166.10	72,772.55	10,472.29
6/30/2025	9/1/2024	326,000.00	(75,617.36)	250,382.64	34,366.51	4,934.69
6/30/2025	3/1/2025				30,110.01	4,308.73
6/30/2025 Total		326,000.00	(75,617.36)	250,382.64	64,476.52	9,243.42
6/30/2026	9/1/2025	339,000.00	(78,632.77)	260,367.23	30,110.01	4,308.73
6/30/2026	3/1/2026				25,631.69	3,657.81
6/30/2026 Total		339,000.00	(78,632.77)	260,367.23	55,741.70	7,966.54
6/30/2027	9/1/2026	352,000.00	(81,648.19)	270,351.81	25,631.69	3,657.81
6/30/2027	3/1/2027				20,954.60	2,981.93
6/30/2027 Total		352,000.00	(81,648.19)	270,351.81	46,586.29	6,639.74
6/30/2028	9/1/2027	366,000.00	(84,895.56)	281,104.44	20,954.60	2,981.93
6/30/2028	3/1/2028				16,077.44	2,279.17
6/30/2028 Total		366,000.00	(84,895.56)	281,104.44	37,032.04	5,261.10
6/30/2029	9/1/2028	381,000.00	(88,374.89)	292,625.11	16,077.44	2,279.17
6/30/2029	3/1/2029				10,941.87	1,547.61
6/30/2029 Total		381,000.00	(88,374.89)	292,625.11	27,019.31	3,826.78
6/30/2030	9/1/2029	396,000.00	(91,854.21)	304,145.79	10,941.87	1,547.61
6/30/2030	3/1/2030				5,573.70	787.25
6/30/2030 Total		396,000.00	(91,854.21)	304,145.79	16,515.57	2,334.86
6/30/2031	9/1/2030	410,000.00	(95,101.59)	314,898.41	5,573.70	787.25
6/30/2031 Total		410,000.00	(95,101.59)	314,898.41	5,573.70	787.25
Grand Total		5,935,000.00	(1,376,653.41)	4,558,346.59	1,751,854.03	264,538.27

Rhode Island Clean Water Finance Agency
 Drinking Water SRF - Direct Loan
 Bond and MMD Rates as of 10/20/2011

Loan Debt Service

Pawtucket WSB - (A Revenue Pledge) - \$7,485,000 Drinking Water Direct Loan

Date	Principal	Loan Rate	(1) Interest	Fees @ 0.500%	Total Fees & Interest	Total Debt Service	Annual Debt Service
11/04/11							
3/1/2012			43,601.00	7,747.35	51,348.35	51,348.35	
9/1/2012	288,000.00	1.12%	82,388.23	14,639.36	97,027.59	385,027.59	436,375.94
3/1/2013			102,467.83	18,207.25	120,675.08	120,675.08	
9/1/2013	293,000.00	1.12%	103,698.45	17,992.50	121,690.95	414,690.95	535,366.03
3/1/2014			102,057.65	17,260.00	119,317.65	119,317.65	
9/1/2014	297,000.00	1.29%	102,057.65	17,260.00	119,317.65	416,317.65	535,635.30
3/1/2015			100,142.00	16,517.50	116,659.50	116,659.50	
9/1/2015	303,000.00	1.36%	100,142.00	16,517.50	116,659.50	419,659.50	536,319.00
3/1/2016			98,081.60	15,760.00	113,841.60	113,841.60	
9/1/2016	308,000.00	1.68%	98,081.60	15,760.00	113,841.60	421,841.60	535,683.20
3/1/2017			95,494.40	14,990.00	110,484.40	110,484.40	
9/1/2017	315,000.00	1.96%	95,494.40	14,990.00	110,484.40	425,484.40	535,968.80
3/1/2018			92,407.40	14,202.50	106,609.90	106,609.90	
9/1/2018	323,000.00	2.22%	92,407.40	14,202.50	106,609.90	429,609.90	536,219.80
3/1/2019			88,822.10	13,395.00	102,217.10	102,217.10	
9/1/2019	332,000.00	2.47%	88,822.10	13,395.00	102,217.10	434,217.10	536,434.20
3/1/2020			84,721.90	12,565.00	97,286.90	97,286.90	
9/1/2020	341,000.00	2.68%	84,721.90	12,565.00	97,286.90	438,286.90	535,573.80
3/1/2021			80,152.50	11,712.50	91,865.00	91,865.00	
9/1/2021	352,000.00	2.80%	80,152.50	11,712.50	91,865.00	443,865.00	535,730.00
3/1/2022			75,224.50	10,832.50	86,057.00	86,057.00	
9/1/2022	364,000.00	3.01%	75,224.50	10,832.50	86,057.00	450,057.00	536,114.00
3/1/2023			69,746.30	9,922.50	79,668.80	79,668.80	
9/1/2023	377,000.00	3.17%	69,746.30	9,922.50	79,668.80	456,668.80	536,337.60
3/1/2024			63,770.85	8,980.00	72,750.85	72,750.85	
9/1/2024	390,000.00	3.30%	63,770.85	8,980.00	72,750.85	462,750.85	535,501.70
3/1/2025			57,335.85	8,005.00	65,340.85	65,340.85	
9/1/2025	405,000.00	3.39%	57,335.85	8,005.00	65,340.85	470,340.85	535,681.70
3/1/2026			50,471.10	6,992.50	57,463.60	57,463.60	
9/1/2026	421,000.00	3.47%	50,471.10	6,992.50	57,463.60	478,463.60	535,927.20
3/1/2027			43,166.75	5,940.00	49,106.75	49,106.75	
9/1/2027	438,000.00	3.54%	43,166.75	5,940.00	49,106.75	487,106.75	536,213.50
3/1/2028			35,414.15	4,845.00	40,259.15	40,259.15	
9/1/2028	455,000.00	3.58%	35,414.15	4,845.00	40,259.15	495,259.15	535,518.30
3/1/2029			27,269.65	3,707.50	30,977.15	30,977.15	
9/1/2029	474,000.00	3.64%	27,269.65	3,707.50	30,977.15	504,977.15	535,954.30
3/1/2030			18,642.85	2,522.50	21,165.35	21,165.35	
9/1/2030	494,000.00	3.68%	18,642.85	2,522.50	21,165.35	515,165.35	536,330.70
3/1/2031			9,553.25	1,287.50	10,840.75	10,840.75	
9/1/2031	515,000.00	3.71%	9,553.25	1,287.50	10,840.75	525,840.75	536,681.50
	<u>7,485,000.00</u>		<u>2,717,105.11</u>	<u>417,461.46</u>	<u>3,134,566.57</u>	<u>10,619,566.57</u>	<u>10,619,566.57</u>

(1) Interest during construction period is calculated based on the timing of expected draws and the overall weighted average loan rate of 2.814%.

Rhode Island Clean Water Finance Agency
Safe Drinking Water Revolving Fund Revenue Bonds, Series 2012A
Revised Numbers - June 11, 2012

Loan Debt Service

Pawtucket- \$1.955M DWSRF Agency Loan (A Rated, Revenue Pledge)

Date	Principal	Loan Rate	(1) Green Principal Forgiveness Loan	Net Principal	(2) Interest	Net Fees @ 0.500%	Total Fees & Interest	Total Net Debt Service	Annual Net Debt Service & Fees
06/14/12									
9/1/2012	1,000.00	0.53%	(25.02)	974.98	920.99	187.74	1,108.73	2,083.71	2,083.71
3/1/2013					7,958.09	1,622.25	9,580.34	9,580.34	
9/1/2013	77,000.00	0.53%	(1,926.31)	75,073.69	18,609.55	3,793.54	22,403.09	97,476.78	107,057.12
3/1/2014					23,174.75	4,575.11	27,749.86	27,749.86	
9/1/2014	78,000.00	0.94%	(1,951.33)	76,048.67	23,174.75	4,575.11	27,749.86	103,798.53	131,548.39
3/1/2015					22,817.32	4,384.99	27,202.31	27,202.31	
9/1/2015	79,000.00	1.13%	(1,976.35)	77,023.65	22,817.32	4,384.99	27,202.31	104,225.96	131,428.27
3/1/2016					22,382.14	4,192.43	26,574.57	26,574.57	
9/1/2016	81,000.00	1.31%	(2,026.38)	78,973.62	22,382.14	4,192.43	26,574.57	105,548.19	132,122.76
3/1/2017					21,864.86	3,994.99	25,859.85	25,859.85	
9/1/2017	82,000.00	1.58%	(2,051.40)	79,948.60	21,864.86	3,994.99	25,859.85	105,808.45	131,668.30
3/1/2018					21,233.27	3,795.12	25,028.39	25,028.39	
9/1/2018	84,000.00	1.81%	(2,101.43)	81,898.57	21,233.27	3,795.12	25,028.39	106,926.96	131,955.35
3/1/2019					20,492.09	3,590.37	24,082.46	24,082.46	
9/1/2019	86,000.00	1.99%	(2,151.47)	83,848.53	20,492.09	3,590.37	24,082.46	107,930.99	132,013.45
3/1/2020					19,657.80	3,380.75	23,038.55	23,038.55	
9/1/2020	88,000.00	2.18%	(2,201.50)	85,798.50	19,657.80	3,380.75	23,038.55	108,837.05	131,875.60
3/1/2021					18,722.60	3,166.26	21,888.86	21,888.86	
9/1/2021	90,000.00	2.32%	(2,251.53)	87,748.47	18,722.60	3,166.26	21,888.86	109,637.33	131,526.19
3/1/2022					17,704.72	2,946.89	20,651.61	20,651.61	
9/1/2022	93,000.00	2.46%	(2,326.59)	90,673.41	17,704.72	2,946.89	20,651.61	111,325.02	131,976.63
3/1/2023					16,589.44	2,720.20	19,309.64	19,309.64	
9/1/2023	96,000.00	2.65%	(2,401.64)	93,598.36	16,589.44	2,720.20	19,309.64	112,908.00	132,217.64
3/1/2024					15,349.26	2,486.21	17,835.47	17,835.47	
9/1/2024	99,000.00	2.81%	(2,476.69)	96,523.31	15,349.26	2,486.21	17,835.47	114,358.78	132,194.25
3/1/2025					13,993.11	2,244.90	16,238.01	16,238.01	
9/1/2025	102,000.00	2.94%	(2,551.74)	99,448.26	13,993.11	2,244.90	16,238.01	115,686.27	131,924.28
3/1/2026					12,531.22	1,996.28	14,527.50	14,527.50	
9/1/2026	105,000.00	3.01%	(2,626.79)	102,373.21	12,531.22	1,996.28	14,527.50	116,900.71	131,428.21
3/1/2027					10,990.50	1,740.34	12,730.84	12,730.84	
9/1/2027	109,000.00	3.05%	(2,726.86)	106,273.14	10,990.50	1,740.34	12,730.84	119,003.98	131,734.82
3/1/2028					9,369.83	1,474.66	10,844.49	10,844.49	
9/1/2028	113,000.00	2.82%	(2,826.93)	110,173.07	9,369.83	1,474.66	10,844.49	121,017.56	131,862.05
3/1/2029					7,816.39	1,199.23	9,015.62	9,015.62	
9/1/2029	117,000.00	3.20%	(2,926.99)	114,073.01	7,816.39	1,199.23	9,015.62	123,088.63	132,104.25
3/1/2030					5,991.22	914.05	6,905.27	6,905.27	
9/1/2030	121,000.00	3.25%	(3,027.06)	117,972.94	5,991.22	914.05	6,905.27	124,878.21	131,783.48
3/1/2031					4,074.16	619.11	4,693.27	4,693.27	
9/1/2031	126,000.00	3.25%	(3,152.15)	122,847.85	4,074.16	619.11	4,693.27	127,541.12	132,234.39
3/1/2032					2,077.88	311.99	2,389.87	2,389.87	
9/1/2032	128,000.00	3.33%	(3,202.17)	124,797.83	2,077.88	311.99	2,389.87	127,187.70	129,577.57
	<u>1,955,000.00</u>		<u>(48,908.33)</u>	<u>1,906,091.67</u>	<u>601,153.75</u>	<u>105,071.29</u>	<u>706,225.04</u>	<u>2,612,316.71</u>	<u>2,612,316.71</u>

- (1) Green Principal Forgiveness funds have been distributed to borrowers with loan proceeds used to fund Green Projects. See financing documents for details.
(2) Interest during construction is calculated based on the timing of expected draws and the overall weighted average loan rate of 2.453%.

Rhode Island Clean Water Finance Agency
 Safe Drinking Water Revolving Fund Revenue Bonds, Series 2013A
 Final Numbers

Loan Debt Service

Pawtucket WSB- \$8.645M DWSRF Agency Loan (A Rated, Revenue Pledge)

Date	Principal	Loan Rate	(1) Principal Forgiveness	Net Principal	(2) Interest	Net Fees @ 0.500%	Total Fees & Interest	Total Debt Service & Fees	Annual Debt Service & Fees
05/14/13									
9/1/2013	1,000.00	0.37%	(56.73)	943.27	8,379.78	1,885.33	10,265.11	11,208.38	11,208.38
3/1/2014					38,118.23	8,576.05	46,694.28	46,694.28	
9/1/2014	1,000.00	0.37%	(56.73)	943.27	57,900.06	13,026.67	70,926.73	71,870.00	118,564.28
3/1/2015					86,978.20	19,568.82	106,547.02	106,547.02	
9/1/2015	349,000.00	0.58%	(19,800.30)	329,199.70	90,608.32	20,381.61	110,989.93	440,189.63	546,736.65
3/1/2016					89,653.64	19,558.61	109,212.25	109,212.25	
9/1/2016	352,000.00	0.73%	(19,970.50)	332,029.50	89,653.64	19,558.61	109,212.25	441,241.75	550,454.00
3/1/2017					88,441.73	18,728.54	107,170.27	107,170.27	
9/1/2017	357,000.00	0.91%	(20,254.17)	336,745.83	88,441.73	18,728.54	107,170.27	443,916.10	551,086.37
3/1/2018					86,909.54	17,886.67	104,796.21	104,796.21	
9/1/2018	362,000.00	1.18%	(20,537.84)	341,462.16	86,909.54	17,886.67	104,796.21	446,258.37	551,054.58
3/1/2019					84,894.91	17,033.02	101,927.93	101,927.93	
9/1/2019	368,000.00	1.36%	(20,878.25)	347,121.75	84,894.91	17,033.02	101,927.93	449,049.68	550,977.61
3/1/2020					82,534.48	16,165.21	98,699.69	98,699.69	
9/1/2020	375,000.00	1.60%	(21,275.39)	353,724.61	82,534.48	16,165.21	98,699.69	452,424.30	551,123.99
3/1/2021					79,704.68	15,280.90	94,985.58	94,985.58	
9/1/2021	383,000.00	1.80%	(21,729.27)	361,270.73	79,704.68	15,280.90	94,985.58	456,256.31	551,241.89
3/1/2022					76,453.24	14,377.73	90,830.97	90,830.97	
9/1/2022	391,000.00	1.96%	(22,183.14)	368,816.86	76,453.24	14,377.73	90,830.97	459,647.83	550,478.80
3/1/2023					72,838.83	13,455.68	86,294.51	86,294.51	
9/1/2023	401,000.00	2.11%	(22,750.48)	378,249.52	72,838.83	13,455.68	86,294.51	464,544.03	550,838.54
3/1/2024					68,848.30	12,510.06	81,358.36	81,358.36	
9/1/2024	411,000.00	2.28%	(23,317.83)	387,682.17	68,848.30	12,510.06	81,358.36	469,040.53	550,398.89
3/1/2025					64,428.72	11,540.85	75,969.57	75,969.57	
9/1/2025	423,000.00	2.47%	(23,998.64)	399,001.36	64,428.72	11,540.85	75,969.57	474,970.93	550,940.50
3/1/2026					59,501.05	10,543.35	70,044.40	70,044.40	
9/1/2026	435,000.00	2.62%	(24,679.45)	410,320.55	59,501.05	10,543.35	70,044.40	480,364.95	550,409.35
3/1/2027					54,125.85	9,517.55	63,643.40	63,643.40	
9/1/2027	449,000.00	2.74%	(25,473.73)	423,526.27	54,125.85	9,517.55	63,643.40	487,169.67	550,813.07
3/1/2028					48,323.54	8,458.73	56,782.27	56,782.27	
9/1/2028	464,000.00	2.83%	(26,324.75)	437,675.25	48,323.54	8,458.73	56,782.27	494,457.52	551,239.79
3/1/2029					42,130.44	7,364.55	49,494.99	49,494.99	
9/1/2029	479,000.00	2.92%	(27,175.77)	451,824.23	42,130.44	7,364.55	49,494.99	501,319.22	550,814.21
3/1/2030					35,533.81	6,234.99	41,768.80	41,768.80	
9/1/2030	495,000.00	2.71%	(28,083.52)	466,916.48	35,533.81	6,234.99	41,768.80	508,685.28	550,454.08
3/1/2031					29,207.09	5,067.69	34,274.78	34,274.78	
9/1/2031	511,000.00	2.89%	(28,991.27)	482,008.73	29,207.09	5,067.69	34,274.78	516,283.51	550,558.29
3/1/2032					22,242.06	3,862.67	26,104.73	26,104.73	
9/1/2032	529,000.00	2.92%	(30,012.48)	498,987.52	22,242.06	3,862.67	26,104.73	525,092.25	551,196.98
3/1/2033					14,956.84	2,615.20	17,572.04	17,572.04	
9/1/2033	547,000.00	2.89%	(31,033.70)	515,966.30	14,956.84	2,615.20	17,572.04	533,538.34	551,110.38
3/1/2034					7,501.13	1,325.29	8,826.42	8,826.42	
9/1/2034	562,000.00	2.83%	(31,884.74)	530,115.26	7,501.13	1,325.29	8,826.42	538,941.68	547,768.10
	<u>8,645,000.00</u>		<u>(490,468.68)</u>	<u>8,154,531.32</u>	<u>2,498,444.35</u>	<u>486,493.06</u>	<u>2,984,937.41</u>	<u>11,139,468.73</u>	<u>11,139,468.73</u>

(1) Includes \$219,659 and \$270,810 of Principal Forgiveness funds from the 2012 and 2011 Federal Cap Grants, respectively.

(2) Interest during construction is calculated based on the timing of expected draws and the overall weighted average loan rate of 2.222%.

EXHIBIT I

BORROWER DEBT SERVICE AND FEE SCHEDULE

Rhode Island Clean Water Finance Agency
2015 Drinking Water SRF Program Direct Loan
Final Pricing Numbers as of 7/30/2015

Loan Debt Service
Pawtucket W38 - \$5.967M DWSRF Multiple Sources (A Rated, Revenue Pledge)

Date	Principal	Loan Rate	(1) Principal Forgiveness	Net Principal	(2) Interest	Net Fees @ 0.500%	Total Fees & Interest	Total Net Debt Service	Annual Net Debt Service & Fees
08/06/15									
09/01/15	1,000.00	0.700%	-	1,000.00	3,398.95	679.38	4,078.33	5,078.33	5,078.33
03/01/16	-	-	-	-	33,812.87	6,713.40	40,326.27	40,326.27	-
09/01/16	1,000.00	0.770%	-	1,000.00	50,085.00	10,160.22	61,125.31	62,125.31	102,451.58
03/01/17	-	-	-	-	58,914.31	11,742.00	70,656.31	70,656.31	-
09/01/17	264,000.00	0.770%	(54,015.73)	209,984.27	58,859.15	11,742.00	70,601.15	280,585.42	351,241.73
03/01/18	-	-	-	-	58,050.71	11,217.04	69,267.75	69,267.75	-
09/01/18	268,000.00	1.010%	(54,891.66)	213,108.34	58,050.71	11,217.04	69,267.75	282,376.08	351,643.64
03/01/19	-	-	-	-	56,974.51	10,894.27	67,868.78	67,868.78	-
09/01/19	271,000.00	1.270%	(56,475.61)	214,524.39	56,974.51	10,894.27	67,868.78	283,183.17	350,841.95
03/01/20	-	-	-	-	55,805.93	10,145.48	65,751.39	65,751.39	-
09/01/20	277,000.00	1.520%	(56,843.52)	220,356.48	55,805.93	10,145.48	65,751.39	286,107.87	351,850.28
03/01/21	-	-	-	-	53,931.22	9,594.57	63,525.79	63,525.79	-
09/01/21	282,000.00	1.800%	(57,811.43)	224,188.57	53,931.22	9,594.57	63,525.79	287,714.36	351,240.15
03/01/22	-	-	-	-	51,913.52	9,034.09	60,947.61	60,947.61	-
09/01/22	288,000.00	2.070%	(58,979.34)	229,020.66	51,913.52	9,034.09	60,947.61	289,968.27	350,915.88
03/01/23	-	-	-	-	49,543.16	8,461.54	58,004.70	58,004.70	-
09/01/23	288,000.00	2.230%	(60,438.22)	228,561.78	49,543.16	8,461.54	58,004.70	283,565.48	351,570.18
03/01/24	-	-	-	-	46,918.86	7,872.64	54,791.50	54,791.50	-
09/01/24	304,000.00	2.320%	(62,101.08)	241,898.92	46,918.86	7,872.64	54,791.50	298,690.22	351,387.52
03/01/25	-	-	-	-	44,111.68	7,268.12	51,379.80	51,379.80	-
09/01/25	313,000.00	2.620%	(63,842.94)	249,157.06	44,111.68	7,268.12	51,379.80	300,436.88	351,816.06
03/01/26	-	-	-	-	40,849.03	6,845.48	47,694.51	47,694.51	-
09/01/26	323,000.00	2.820%	(65,098.78)	257,901.22	40,849.03	6,845.48	47,694.51	304,597.73	352,002.24
03/01/27	-	-	-	-	37,225.14	6,002.94	43,228.08	43,228.08	-
09/01/27	333,000.00	2.900%	(68,030.62)	264,969.38	37,225.14	6,002.94	43,228.08	308,197.46	351,425.64
03/01/28	-	-	-	-	33,383.08	5,340.52	38,723.60	38,723.60	-
09/01/28	344,000.00	2.980%	(70,368.44)	273,631.56	33,383.08	5,340.52	38,723.60	312,357.16	351,080.76
03/01/29	-	-	-	-	29,292.26	4,856.43	33,948.69	33,948.69	-
09/01/29	357,000.00	3.080%	(72,894.23)	284,105.77	29,292.26	4,856.43	33,948.69	317,954.46	351,903.15
03/01/30	-	-	-	-	24,918.57	3,946.42	28,864.99	28,864.99	-
09/01/30	370,000.00	3.140%	(75,622.02)	294,377.98	24,918.57	3,946.42	28,864.99	323,242.97	352,107.96
03/01/31	-	-	-	-	20,296.04	3,210.46	23,507.32	23,507.32	-
09/01/31	383,000.00	3.190%	(78,249.81)	304,750.19	20,296.04	3,210.46	23,507.32	328,257.51	351,764.83
03/01/32	-	-	-	-	15,436.07	2,448.60	17,884.67	17,884.67	-
09/01/32	397,000.00	3.240%	(81,169.58)	315,830.42	15,436.07	2,448.60	17,884.67	333,715.08	351,599.76
03/01/33	-	-	-	-	10,319.62	1,650.02	11,978.64	11,978.64	-
09/01/33	411,000.00	3.100%	(84,089.35)	326,910.65	10,319.62	1,650.02	11,978.64	338,889.29	350,867.93
03/01/34	-	-	-	-	6,252.50	841.75	6,094.25	6,094.25	-
09/01/34	424,000.00	3.120%	(87,301.11)	336,698.89	6,252.50	841.75	6,094.25	342,793.14	348,887.39
	<u>5,907,000.00</u>		<u>(1,208,200.47)</u>	<u>4,698,799.53</u>	<u>1,473,791.37</u>	<u>259,095.74</u>	<u>1,732,887.11</u>	<u>6,431,686.64</u>	<u>6,431,686.64</u>

(1) Principal forgiveness funds have been distributed to borrowers with loan proceeds used to fund Green Projects. See financing documents for details.
(2) Interest during construction is calculated based on the timing of expected draws and the overall weighted average loan rate of 2.510%.

EXHIBIT H

BORROWER DEBT SERVICE AND FEE SCHEDULE

Nov 17, 2015 2:51 pm Prepared by TD Securities(Finance 7.012 Pawtucket, RI Refunding of 2003 Bonds (with NPFG) (1...15R_NPFD) Page 18

BOND DEBT SERVICE

City of Pawtucket, Rhode Island
 2015 Refunding of Series 2003 A&B NPFG Insurance & Surety (Discount Structure)
 Market Rates as of 11/17/2015
 Tax-Exempt Bond Financing
 S&P 'A' Rating
 NPFG Bond Insurance and Surety (1.50% of Par)
 Final Pricing Numbers

Period Ending	Principal	Coupon	Interest	Debt Service
06/30/2016			289,589.15	289,589.15
06/30/2017			1,012,156.26	1,012,156.26
06/30/2018			1,012,156.26	1,012,156.26
06/30/2019			1,012,156.26	1,012,156.26
06/30/2020			1,012,156.26	1,012,156.26
06/30/2021			1,012,156.26	1,012,156.26
06/30/2022			1,012,156.26	1,012,156.26
06/30/2023			1,012,156.26	1,012,156.26
06/30/2024			1,012,156.26	1,012,156.26
06/30/2025			1,012,156.26	1,012,156.26
06/30/2026	1,755,000	5.000%	968,281.26	2,723,281.26
06/30/2027	1,840,000	5.000%	878,406.26	2,718,406.26
06/30/2028	1,940,000	5.000%	783,906.26	2,723,906.26
06/30/2029	2,030,000	5.000%	684,656.26	2,714,656.26
06/30/2030	2,125,000	3.500%	596,718.76	2,721,718.76
06/30/2031	2,200,000	3.750%	518,281.26	2,718,281.26
06/30/2032	2,290,000	3.750%	434,093.76	2,724,093.76
06/30/2033	2,380,000	3.750%	346,531.26	2,726,531.26
06/30/2034	2,470,000	3.875%	254,050.01	2,724,050.01
06/30/2035	2,565,000	3.875%	156,496.88	2,721,496.88
06/30/2036	2,670,000	4.000%	53,400.00	2,723,400.00
	24,265,000		15,073,817.46	39,338,817.46

EXHIBIT I

BORROWER DEBT SERVICE AND FEE SCHEDULE

Rhode Island Infrastructure Bank
Safe Drinking Water
Final Pricing Numbers as of 1/14/2016

Loan Debt Service

Pawtucket WSB - \$4.718M DW8RF Fed Direct Loan (A Rated, Revenue Pledge)

Date	Principal	Loan Rate	(1) Principal Forgiveness	Net Principal	(2) Interest	Net Fees @ 0.500%	Total Fees & Interest	Total Net Debt Service	Annual Net Debt Service & Fees
01/27/10	-	-	-	-	-	-	-	-	-
03/01/16	-	-	-	-	804.95	191.65	996.60	996.60	-
09/01/16	1,000.00	0.400%	(48.24)	951.76 ⁽²⁾	13,207.65	3,144.68	16,352.33	17,304.09	18,300.09
03/01/17	-	-	-	-	37,649.42	8,964.14	46,613.56	46,613.56	-
09/01/17	203,000.00	0.760%	(9,792.00)	193,208.00	45,763.17	10,895.99	56,659.16	249,867.16	296,480.72
03/01/18	-	-	-	-	46,343.60	10,740.65	57,084.25	57,084.25	-
09/01/18	208,000.00	0.950%	(9,936.71)	198,063.29	46,343.60	10,740.65	57,084.25	253,147.54	310,231.79
03/01/19	-	-	-	-	45,412.30	10,250.49	55,662.79	55,662.79	-
09/01/19	209,000.00	1.120%	(10,081.41)	198,918.59	45,412.30	10,250.49	55,662.79	264,581.38	310,244.17
03/01/20	-	-	-	-	44,298.36	9,753.20	54,051.56	54,051.56	-
09/01/20	212,000.00	1.270%	(10,226.12)	201,773.88	44,298.36	9,753.20	54,051.56	255,825.44	308,877.00
03/01/21	-	-	-	-	43,017.10	9,248.76	52,265.86	52,265.86	-
09/01/21	216,000.00	1.410%	(10,419.07)	205,580.93	43,017.10	9,248.76	52,265.86	257,846.79	310,112.86
03/01/22	-	-	-	-	41,567.75	8,734.81	50,302.56	50,302.56	-
09/01/22	220,000.00	1.690%	(10,612.02)	209,387.98	41,567.75	8,734.81	50,302.56	259,690.54	309,993.10
03/01/23	-	-	-	-	39,903.12	8,211.34	48,114.46	48,114.46	-
09/01/23	225,000.00	1.750%	(10,853.20)	214,146.80	39,903.12	8,211.34	48,114.46	262,261.26	310,376.72
03/01/24	-	-	-	-	38,029.34	7,675.97	45,705.31	45,705.31	-
09/01/24	230,000.00	1.880%	(11,094.38)	218,905.62	38,029.34	7,675.97	45,705.31	264,610.93	310,316.24
03/01/25	-	-	-	-	35,971.63	7,128.71	43,100.34	43,100.34	-
09/01/25	235,000.00	1.980%	(11,336.56)	223,664.44	35,971.63	7,128.71	43,100.34	266,764.78	309,865.12
03/01/26	-	-	-	-	33,757.35	6,569.55	40,326.90	40,326.90	-
09/01/26	241,000.00	2.200%	(11,624.98)	229,375.02	33,757.35	6,569.55	40,326.90	269,701.92	310,028.82
03/01/27	-	-	-	-	31,234.22	5,996.11	37,230.33	37,230.33	-
09/01/27	248,000.00	2.380%	(11,962.64)	236,037.36	31,234.22	5,996.11	37,230.33	273,267.69	310,499.02
03/01/28	-	-	-	-	28,425.38	5,406.02	33,831.40	33,831.40	-
09/01/28	255,000.00	2.520%	(12,300.29)	242,699.71	28,425.38	5,406.02	33,831.40	276,531.11	310,382.51
03/01/29	-	-	-	-	26,367.36	4,799.27	30,166.63	30,166.63	-
09/01/29	263,000.00	2.630%	(12,686.18)	250,313.82	26,367.36	4,799.27	30,166.63	280,480.45	310,647.08
03/01/30	-	-	-	-	22,075.73	4,173.48	26,249.21	26,249.21	-
09/01/30	271,000.00	2.550%	(13,072.07)	257,927.93	22,075.73	4,173.48	26,249.21	284,177.14	310,428.35
03/01/31	-	-	-	-	18,787.15	3,528.66	22,315.81	22,315.81	-
09/01/31	279,000.00	2.560%	(13,457.97)	265,542.03	18,787.15	3,528.66	22,315.81	287,857.84	310,173.65
03/01/32	-	-	-	-	15,388.21	2,864.81	18,253.02	18,253.02	-
09/01/32	288,000.00	2.670%	(13,892.09)	274,107.91	15,388.21	2,864.81	18,253.02	292,360.93	310,613.86
03/01/33	-	-	-	-	11,865.92	2,179.54	14,045.46	14,045.46	-
09/01/33	296,000.00	2.690%	(14,277.99)	281,722.02	11,865.92	2,179.54	14,045.46	295,767.48	309,012.94
03/01/34	-	-	-	-	8,217.62	1,475.23	9,692.85	9,692.85	-
09/01/34	306,000.00	2.770%	(14,760.35)	291,239.65	8,217.62	1,475.23	9,692.85	300,932.50	310,626.35
03/01/35	-	-	-	-	4,183.95	747.13	4,931.08	4,931.08	-
09/01/35	314,000.00	2.800%	(15,146.24)	298,853.76	4,183.95	747.13	4,931.08	303,784.84	308,716.92
	<u>4,718,000.00</u>		<u>(227,579.50)</u>	<u>4,490,420.50</u>	<u>1,185,117.37</u>	<u>242,163.93</u>	<u>1,407,281.30</u>	<u>5,897,701.80</u>	<u>5,897,701.80</u>

(1) Principal Forgiveness funds have been distributed to borrowers with loan proceeds used to fund Green Projects.
(2) Interest during construction is calculated based on the timing of expected draws and the overall weighted average loan rate of 2.100%.

Schedule MG-1

**Rhode Island Infrastructure Bank
Safe Drinking Water SRF Program - Series 2022
Preliminary Numbers as of 11/9/2022 + 75 bps**

Loan Debt Service

Pawtucket WSB- \$15.0M DWSRF Loan (A Rated, Revenue Pledge)

Date	Principal	Loan Rate	(1) Principal Forgiveness	Net Principal	(2) Interest	Net Fees @ 0.300%	Total Fees & Interest	Total Net Debt Service	Annual Net Debt Service & Fees
12/14/22									-
09/01/23	1,000.00	3.190%	(150.00)	850.00	240,577.18	19,125.00	259,702.18	260,552.18	260,552.18
03/01/24	-	-	-	-	240,563.62	19,123.73	259,687.35	259,687.35	-
09/01/24	546,000.00	3.310%	(81,900.00)	464,100.00	240,563.62	19,123.73	259,687.35	723,787.35	983,474.70
03/01/25	-	-	-	-	232,882.76	18,427.58	251,310.34	251,310.34	-
09/01/25	566,000.00	3.390%	(84,900.00)	481,100.00	232,882.76	18,427.58	251,310.34	732,410.34	983,720.68
03/01/26	-	-	-	-	224,728.11	17,705.93	242,434.04	242,434.04	-
09/01/26	586,000.00	3.420%	(87,900.00)	498,100.00	224,728.11	17,705.93	242,434.04	740,534.04	982,968.08
03/01/27	-	-	-	-	216,210.60	16,958.78	233,169.38	233,169.38	-
09/01/27	608,000.00	3.490%	(91,200.00)	516,800.00	216,210.60	16,958.78	233,169.38	749,969.38	983,138.76
03/01/28	-	-	-	-	207,192.44	16,183.58	223,376.02	223,376.02	-
09/01/28	631,000.00	3.640%	(94,650.00)	536,350.00	207,192.44	16,183.58	223,376.02	759,726.02	983,102.04
03/01/29	-	-	-	-	197,430.87	15,379.05	212,809.92	212,809.92	-
09/01/29	656,000.00	3.700%	(98,400.00)	557,600.00	197,430.87	15,379.05	212,809.92	770,409.92	983,219.84
03/01/30	-	-	-	-	187,115.27	14,542.65	201,657.92	201,657.92	-
09/01/30	682,000.00	3.680%	(102,300.00)	579,700.00	187,115.27	14,542.65	201,657.92	781,357.92	983,015.84
03/01/31	-	-	-	-	176,448.79	13,673.10	190,121.89	190,121.89	-
09/01/31	710,000.00	3.670%	(106,500.00)	603,500.00	176,448.79	13,673.10	190,121.89	793,621.89	983,743.78
03/01/32	-	-	-	-	165,374.56	12,767.85	178,142.41	178,142.41	-
09/01/32	738,000.00	3.660%	(110,700.00)	627,300.00	165,374.56	12,767.85	178,142.41	805,442.41	983,584.82
03/01/33	-	-	-	-	153,894.97	11,826.90	165,721.87	165,721.87	-
09/01/33	767,000.00	3.780%	(115,050.00)	651,950.00	153,894.97	11,826.90	165,721.87	817,671.87	983,393.74
03/01/34	-	-	-	-	141,573.11	10,848.98	152,422.09	152,422.09	-
09/01/34	798,000.00	3.840%	(119,700.00)	678,300.00	141,573.11	10,848.98	152,422.09	830,722.09	983,144.18
03/01/35	-	-	-	-	128,549.75	9,831.53	138,381.28	138,381.28	-
09/01/35	831,000.00	3.870%	(124,650.00)	706,350.00	128,549.75	9,831.53	138,381.28	844,731.28	983,112.56
03/01/36	-	-	-	-	114,881.88	8,772.00	123,653.88	123,653.88	-
09/01/36	866,000.00	3.860%	(129,900.00)	736,100.00	114,881.88	8,772.00	123,653.88	859,753.88	983,407.76
03/01/37	-	-	-	-	100,675.15	7,667.85	108,343.00	108,343.00	-
09/01/37	902,000.00	3.880%	(135,300.00)	766,700.00	100,675.15	7,667.85	108,343.00	875,043.00	983,386.00
03/01/38	-	-	-	-	85,801.17	6,517.80	92,318.97	92,318.97	-
09/01/38	940,000.00	3.880%	(141,000.00)	799,000.00	85,801.17	6,517.80	92,318.97	891,318.97	983,637.94
03/01/39	-	-	-	-	70,300.57	5,319.30	75,619.87	75,619.87	-
09/01/39	979,000.00	3.890%	(146,850.00)	832,150.00	70,300.57	5,319.30	75,619.87	907,769.87	983,389.74
03/01/40	-	-	-	-	54,115.25	4,071.08	58,186.33	58,186.33	-
09/01/40	1,020,000.00	3.940%	(153,000.00)	867,000.00	54,115.25	4,071.08	58,186.33	925,186.33	983,372.66
03/01/41	-	-	-	-	37,035.35	2,770.58	39,805.93	39,805.93	-
09/01/41	1,063,000.00	4.000%	(159,450.00)	903,550.00	37,035.35	2,770.58	39,805.93	943,355.93	983,161.86
03/01/42	-	-	-	-	18,964.35	1,415.25	20,379.60	20,379.60	-
09/01/42	1,110,000.00	4.020%	(166,500.00)	943,500.00	18,964.35	1,415.25	20,379.60	963,879.60	984,259.20
	<u>15,000,000.00</u>		<u>(2,250,000.00)</u>	<u>12,750,000.00</u>	<u>5,748,054.32</u>	<u>446,732.04</u>	<u>6,194,786.36</u>	<u>18,944,786.36</u>	<u>18,944,786.36</u>

(1) Principal Forgiveness funds have been distributed to borrowers with loan proceeds used to fund Green Projects. See financing documents for details.
(2) Interest during construction is calculated based on the timing of expected draws.

Item 5.9.A.9 Rate Year Municipal Tax Expense Calculation

Municipal Property Taxes for the Test Year and 3 prior fiscal years

Municipalities and Fire Districts	Test Year			
	FY22	FY21	FY20	FY19
Town of Cumberland	\$ 412,183.44	\$ 433,547.33	\$ 436,123.78	\$ 491,099.08
Cumberland Fire District	\$ 90,220.49	\$ 65,382.12	\$ 92,309.84	\$ 111,268.81
Town of Lincoln	\$ 80,087.13	\$ 80,718.72	\$ 76,977.63	\$ 85,787.52
Saylesville Fire District	\$ 11,653.36	\$ 6,035.92	\$ 5,877.08	\$ 6,221.95
Town of North Attleboro	\$ 13,703.31	\$ 15,240.38	\$ 15,325.82	\$ 14,077.66
Town of Attleboro	\$ 5,341.75	\$ 5,293.99	\$ 5,077.08	\$ 4,859.71
Town of Wrentham	\$ 6,985.55	\$ 7,166.58	\$ 7,265.11	\$ 7,199.14
Total Annual Property Tax Expense	<u>\$ 620,175.03</u>	<u>\$ 613,385.04</u>	<u>\$ 638,956.34</u>	<u>\$ 720,513.87</u>

5.9.A.10 Employee Census Information

Official Roster per City of Pawtucket Personnel Division

Full time positions	40
Part time positions	0
Vacant positions	6
Unfunded positions	6
Total authorized positions	52

See Page 45 of the Annual Report (PWSB Organizational Chart)

Number of permanent employees

	<u>Beginning of</u> <u>year</u>	<u>End</u> <u>of year</u>	<u>Paid</u> <u>Overtime</u>
Test Year FY22	40	37	65,864
1st prior year	39	40	70,170
2nd prior year	44	39	55,960
Rate year	40	40	66,131

See Page 33 of the Annual Report

PAWTUCKET WATER SUPPLY BOARD							
Item 5.9.A.11 Summary of Affiliated Entities Transactions							
Billings to the City				FY 2022			
AFFILIATED ENTITY NAME	LOCATION	ACCOUNT #		Sales Billed in	Account Balance	Account Balance	Current Balance
		Cust ID	Land ID	the Test Year	as of 7/1/2021	as of 6/30/2022	as of 7/31/2023
CITY OF PAWTUCKET	375 Cottage St	13877	30400	\$1,151.14	\$114.57	\$69.84	\$185.36
CITY OF PAWTUCKET	401 Daggett Ave	18587	245610	\$388.59	\$25.12	\$50.62	\$73.09
CITY OF PAWTUCKET	395 Daggett Avenue	18587	245620	\$6,503.62	\$1,361.83	\$855.63	\$1,257.30
CITY OF PAWTUCKET	260 Armistice Blvd	22509	249460	\$229.26	\$20.40	\$16.29	\$37.31
CITY OF PAWTUCKET	250 Armistice Blvd	22509	249480	\$1,451.12	\$112.60	\$112.60	\$118.25
CITY OF PAWTUCKET	250 Armistice Blvd	22509	249490	\$951.76	\$56.55	\$78.91	\$66.19
CITY OF PAWTUCKET	Blackstone Ave	23821	242410	\$6,505.25	\$1,404.02	\$645.51	\$1,500.31
CITY OF PAWTUCKET	60 South Bend St	25159	78890	\$7,581.32	\$391.60	\$391.60	\$831.03
CITY OF PAWTUCKET	2 Columbus Ave	25673	251840	\$2,321.98	\$196.73	\$196.73	\$195.92
CITY OF PAWTUCKET	1 Columbus Ave	25673	251870	\$193.42	\$20.76	\$16.29	\$16.33
CITY OF PAWTUCKET	1 Columbus Ave	25673	251940	\$7,059.33	\$867.57	\$867.57	\$1,208.64
CITY OF PAWTUCKET	Slater Park	28303	245900	\$10,416.76	\$1,764.26	\$60.43	\$121.51
CITY OF PAWTUCKET	Slater Park	28303	245930	\$0.00	\$0.00	\$0.00	\$12.43
CITY OF PAWTUCKET	Slater Park	28305	245920	\$793.71	\$83.38	\$78.91	\$124.07
CITY OF PAWTUCKET	Slater Park	28307	245890	\$10,648.41	\$2,037.99	\$2,672.83	\$1,598.31
CITY OF PAWTUCKET	Slater Park	28307	245940	\$1,362.28	\$114.65	\$116.34	\$230.61
CITY OF PAWTUCKET	449 Newport Ave	28451	245780	\$1,105.32	\$54.13	\$96.31	\$278.85
CITY OF PAWTUCKET	Slater Park	28451	246990	\$3,607.21	\$159.29	\$695.98	\$248.36
CITY OF PAWTUCKET	Slater Park	28451	247040	\$201.89	\$32.22	-\$114.04	-\$142.35
CITY OF PAWTUCKET	Slater Park	28563	247150	\$193.42	\$16.29	\$16.29	\$16.33
CITY OF PAWTUCKET	Slater Park	28563	249370	\$6,334.90	\$982.18	\$1,066.55	\$569.73
CITY OF PAWTUCKET	Slater Park	28563	249380	\$13,622.72	\$3,055.49	\$2,380.55	\$702.56
CITY OF PAWTUCKET	Slater Park	28563	252600	\$256.03	\$25.24	\$43.12	\$27.02
CITY OF PAWTUCKET	Slater Park	28563	252610	\$1,014.85	\$4,228.65	\$161.67	\$0.00
CITY OF PAWTUCKET	Slater Park	28569	247160	\$2,042.61	\$338.19	\$159.66	\$256.64
CITY OF PAWTUCKET	32 Monticello Place	29475	237470	\$726.66	\$54.13	\$55.56	\$151.02
CITY OF PAWTUCKET	32 Monticello Place	29475	244930	\$26,458.90	\$1,699.31	\$4,400.51	\$109.66
CITY OF PAWTUCKET	1 Moeller Place	30323	251710	\$9,078.47	\$1,066.55	\$687.69	\$250.65
CITY OF PAWTUCKET	474 Prospect St	30821	111670	\$13,384.55	\$2,130.90	\$1,038.68	\$1,047.72
CITY OF PAWTUCKET	Pawtucket Library	33183	124300	\$1,592.13	\$85.58	\$127.77	\$129.61
CITY OF PAWTUCKET	City Hall	33215	124480	\$4,819.31	\$349.72	\$560.34	\$728.15
CITY OF PAWTUCKET	497 Weeden St	34613	132450	\$1,146.26	\$138.50	\$138.50	\$54.03
CITY OF PAWTUCKET	Senior Center	38997	158250	\$1,364.74	\$253.33	\$213.08	\$69.75
CITY OF PAWTUCKET	265 Smithfield Ave	41309	245580	\$1,821.13	\$43.40	\$43.40	\$1,141.52
CITY OF PAWTUCKET	265 Smithfield Ave	41309	252580	\$13,893.41	\$43.40	\$43.40	\$889.40
CITY OF PAWTUCKET	486 Pleasant Street	44009	247760	\$3,162.91	\$186.98	\$145.69	\$333.34
PAWTUCKET SCHOOL DEPT	CURTIS	2513	7440	\$3,751.74	\$277.00	\$361.36	\$329.48
PAWTUCKET SCHOOL DEPT	WINTERS	11483	26000	\$0.00	\$0.00	\$0.00	\$0.00
PAWTUCKET SCHOOL DEPT	CURVIN/MCCABE	13843	30300	\$9,462.62	\$307.23	\$222.87	\$221.95
PAWTUCKET SCHOOL DEPT	POTTER	19381	52710	\$3,043.93	\$262.04	\$304.22	\$260.38
PAWTUCKET SCHOOL DEPT	GOFF	21833	64020	\$4,884.42	\$279.04	\$405.59	\$276.27
PAWTUCKET SCHOOL DEPT	TOLMAN	23819	71410	\$6,255.44	\$444.04	\$528.41	\$397.57
PAWTUCKET SCHOOL DEPT	TOLMAN	23819	243250	\$1,230.42	\$54.13	\$96.31	\$264.13
PAWTUCKET SCHOOL DEPT	LITTLE	25161	243300	\$2,832.79	\$222.87	\$307.23	\$221.95
PAWTUCKET SCHOOL DEPT	JENKS	25613	81740	\$5,732.05	\$501.91	\$544.09	\$456.03
PAWTUCKET SCHOOL DEPT	FALLON	29365	102400	\$2,999.06	\$236.86	\$279.04	\$234.09
PAWTUCKET SCHOOL DEPT	SLATER	34569	132360	\$0.00	\$0.00	\$0.00	\$0.00
PAWTUCKET SCHOOL DEPT	CUNNINGHAM	34571	226660	\$3,891.20	\$265.05	\$391.60	\$221.95
PAWTUCKET SCHOOL DEPT	SLATER	34573	248310	\$3,319.20	\$279.04	\$279.04	\$234.09
PAWTUCKET SCHOOL DEPT	ADMIN BLDG	39179	235670	\$3,451.62	\$84.37	\$333.17	\$287.30
PAWTUCKET SCHOOL DEPT	BALDWIN	40233	164950	\$4,525.22	\$475.97	\$410.34	-\$2,198.15
PAWTUCKET SCHOOL DEPT	GREENE	41303	171200	\$7,726.82	\$757.06	\$757.06	\$1,174.28
PAWTUCKET SCHOOL DEPT	SHEA	43967	188200	\$4,672.25	\$279.04	\$363.41	\$276.27
PAWTUCKET SCHOOL DEPT	VARIEUR	44081	188780	\$3,624.58	\$319.18	\$319.18	\$106.42
Billings from the City							
City of Pawtucket	Administrative support			\$234,788.73	\$28,560.34	\$24,093.73	\$17,202.66

PWSB

Item 5.9.A.14.a

Unaccounted for¹
Water(HCF)

<u>FY</u>	HCF	(%)
2022	136,330	3.67%
2021	496,444	11.21%
2020	427,317	11.12%
2019	280,637	7.17%
2018	363,237	9.09%

Item 5.9.A.14.c Utilities Own Use of Water (HCF)
(last 5 years)

<u>FY</u>	Flushing Program	Treatment Process	Fire Fighting Program	Office Consumption	HCF
2022	22,960	986,972	18,770	600	1,029,302
2021	69,793	638,203	22,612	470	731,078
2020	38,260	838,366	19,499	710	896,835
2019	96,366	753,604	20,388	830	871,188
2018	35,175	805,626	20,187	1190	862,178

**STATE OF RHODE ISLAND
PUBLIC UTILITIES COMMISSION**

**IN RE: PAWTUCKET WATER SUPPLY BOARD
APPLICATION TO CHANGE RATE SCHEDULES**

DOCKET NO.

**DOCUMENTATION REQUIRED BY R.I.G.L. § 39-3-12.1
STATUS OF PHYSICAL PLANT**

The Pawtucket Water Supply Board (PWSB) serves approximately 98,130 customers in a retail service area which includes the Cities of Pawtucket and Central Falls, and the Valley Falls section of Cumberland, Rhode Island. The PWSB is responsible for the operation and maintenance of the public water works infrastructure within the retail service area.

The PWSB supplies water on a wholesale basis to the Town of Cumberland. The PWSB can also supply water to six neighboring municipal water systems through emergency connections including the Town of Cumberland, Town of Lincoln, City of East Providence, the Providence Water Supply Board in Rhode Island and the Towns of Seekonk and Attleboro in Massachusetts.

The water resources of the PWSB consist of both surface and groundwater within the Abbot Run watershed, which is a tributary of the Blackstone River. The watershed is comprised of approximately 28 square miles and lies within the Town of Cumberland in Rhode Island, and the towns of Wrentham, Franklin, Plainville, Attleboro, and North Attleboro in Massachusetts. Currently, the PWSB owns about 12% of the land in the Abbot Run watershed.

There are four surface water impoundments within the watershed along the Abbot Run watershed. From source to terminus, these impoundments are the Diamond Hill Reservoir, Arnold Mills Reservoir, Robin Hollow Pond, and the Happy Hollow Pond. In addition to the surface water sources, the PWSB also owns and operates eight wells within the watershed.

A raw water pump station located on the shores of Happy Hollow Pond is used to pump raw water from the Happy Hollow Pond to the water treatment facility approximately 1 mile to the south. The raw water station consists of a submerged intake system, three raw water pumps, chemical addition, and an air stripping system to remove radon from the PWSB groundwater sources. The water is pumped from the raw water station to the treatment facility via two 36" raw water pipelines. Raw water can be dosed with Powder Activated Carbon (PAC) on a seasonal basis to assist in the control of taste and odor.

The PWSB water treatment plant, located at 87 Branch St, replaced the treatment plant located at 120 Mill St. in Cumberland, which had been in operation since the 1930s. The treatment facility is operated by Veolia Water as part of a 20-year design, build, operate contract that was signed in 2004.

The water treatment plant was put into service on March 19, 2008, and utilizes up flow clarification and deep bed carbon filtration as the primary method of treatment. The treatment process includes chemical addition, chlorination, and has ultraviolet disinfection capabilities. The design flow of the treatment facility is 25 MGD and is expandable to 30 MGD. The facility allows the PWSB to comply with current EPA water quality standards and provides reliable, high quality potable water to the PWSB service customers. The treatment plant includes high service pumps which replaced the main pump station located at 85 Branch Street.

Emergency generators are located at both the raw water pump station and the water treatment plant to allow full production of up to 25 MGD during extended power outages. With diesel fuel deliveries at 48-hour intervals, the entire water treatment process could operate indefinitely on the auxiliary power systems.

Finished potable water leaves the treatment plant through a network of 12, 16, 20, 24 and 36 inch water transmission mains. A network of smaller diameter distribution pipes convey water to the service customers, who receive water through customer service connections. There are approximately 273 miles of transmission and distribution system piping in the PWSB system. The transmission and distribution system also includes 1,920 fire hydrants and 4,786 line valves.

The PWSB maintains three water storage facilities located within the distribution system. This includes a five (5) million-gallon pre-stressed concrete tank that was constructed in 2007 adjacent to the water treatment plant. This water tank provides the PWSB with operational flexibility for clear well storage capacity in combination with the high service pumps at the water treatment plant.

The other water storage facilities are located at the western end of the distribution system in Lincoln and include a ten (10) million-gallon steel tank and a three (3) million-gallon steel tank located at Stump Hill in Lincoln. The ten-million-gallon steel tank was constructed in 1996. The three (3) million-gallon tank located adjacent to the ten (10) million-gallon tank provides redundant storage in the event one tank needs to be removed from service for maintenance. Both tanks are connected to the distribution system through two 24-inch water lines, but the 3 MG tank is currently not being utilized due to water quality concerns relating to water age.

There are approximately 23,000 customer service connections within the PWSB service territory. Each customer connection consists of a corporation, service line, curb stop, and water meter. The PWSB is responsible for the repair and replacement of the customer service line located in the public right of way, which is typically up to the curb stop. The PWSB owns all customer water meters two inches or smaller in size.

The PWSB meters 100 percent of the customers within the service territory. In 2005, all meters within the distribution system were replaced and fitted with a remote read Meter Interface Unit (MIU). The MIU is a two-way Radio Frequency (RF) read device that permits the PWSB to quickly and accurately read a customer's meter. In 2008, following

implementation of the meter replacement program, the PWSB switched from a quarterly to monthly billing program for the entire service territory. This monthly billing program permits customers to budget for water usage on a regular basis, reduces water loss and accelerates the process of leak detection and prevention.

Water Supply Sources

Description / Name	Operational Status	Type	Hydrological Characteristics
Diamond Hill Reservoir	Active	Surface Water Reservoir	DA: 7.42 sq. miles SA: 390 acres Vol: 3666 mg SE: 197.73 ft.
Arnold Mills Reservoir	Active	Surface Water Storage	DA: 10.4 sq. miles SA: 248 acres Vol: 1165 mg SE: 162.20 ft.
Robin Hollow Pond	Active	Surface Water Storage	DA: 8.23 sq. miles SA: 34 acres Vol: 87 mg SE: 64.74 ft.
Happy Hollow Pond	Active	Surface Water Storage	DA: 0.87 sq. miles SA: 22 acres Vol: 77 mg SE: 54.15 feet
Well No. 1	Abandoned	Manganese & Trichloroethylene [Contaminated]	N/A
Well No. 2	Abandoned	Gravel-packed well	N/A
Well No. 2A	Temporarily Inactive	Gravel packed well	208 gpm
Well No. 3	Active	Gravel-packed well	913 gpm
Well No. 4	Active	Gravel-packed well	680 gpm
Well No. 5	Active	Gravel-packed well	730 gpm
Well No. 6	Active	Gravel-packed well	652 gpm
Well No. 7	Active	Gravel-packed well	743 gpm
Well No. 8	Active	Gravel-packed well	652 gpm
Well No. 9	Active	Gravel-packed well	703 gpm
Well No. 10	Temporarily Inactive	Gravel-packed well	500 gpm
Well No. 11	Temporarily Inactive	Gravel-packed well	500 gpm

DA: Drainage Area
SA: Surface Area

VOL: Volume
SE: Spillway Elevation

**STATE OF RHODE ISLAND
PUBLIC UTILITIES COMMISSION**

**IN RE: PAWTUCKET WATER SUPPLY BOARD
APPLICATION TO CHANGE RATE SCHEDULES**

DOCKET NO.

**DOCUMENTATION REQUIRED BY R.I.G.L. § 39-3-12.1
MAINTENANCE POLICY**

Water Mains: There are approximately 273 miles of transmission and distribution piping in the PWSB distribution system. Prior to 1950, tar-coated Class C cast iron pipe (rated at 130 psi) was used in the distribution system. Unlined Class 250 cast iron pipe was used until about 1958, when the standard became cement mortar lined cast iron pipe. In the 1960's, the standard pipe material became cement mortar lined Class 52 ductile iron pipe which continues to be utilized to this day for new and replacement water mains.

Currently, less than 2% of the total water mains in the PWSB system are constructed of unlined cast iron pipe. The remainder are constructed of cast iron lined pipe, ductile iron lined pipe, or cleaned and lined cast iron pipe.

Miles of Water Main in the PWSB System by Community

Community	Unlined (pre 1958 + not C&L)	Lined (C&L + Installed Lined)	Total
Pawtucket	2.31 miles	200.20 miles	202.51
Valley Falls in Cumberland	0.22 miles	39.06 miles	39.28 miles
Central Falls	1.30 miles	27.52 miles	28.82 miles
Lincoln / Attleboro	0.01 miles	1.74 miles	1.75 miles
TOTAL	3.84 miles *	268.52 miles	272.36 miles

*Due to the future abandonment of redundant water mains, the actual length of water mains that require rehabilitation may be less than 3.84 miles.

A study completed by Weston and Sampson Engineers in 1990 formulated a program for cleaning and lining transmission lines (12" and larger) within the PWSB water system. The program was funded with a ten (10) million-dollar general obligation bond through the Pawtucket Buildings Authority (PBA). The program, based on the 1971 Pitometer study, identified projects to be completed in two phases. In total, these two phases called for the rehabilitation of 118,000 feet, or about 23 miles, of water transmission lines.

The transmission pipeline rehabilitation project consisted of three phases and began in 1991. In total, the PWSB rehabilitated or replaced 65.7 miles during the three phase PBA pipeline rehabilitation program. In addition, the PWSB funded several rehabilitation projects with a “pay as you go” infrastructure restricted account. In 2004, the PWSB began utilizing low interest loans from the State of Rhode Island Drinking Water State Revolving Fund administered by the Rhode Island Infrastructure Bank.

The PWSB continues to replace “turn of the century” unlined cast iron pipe, undersized cast and iron pipe and ductile iron pipe with a leak and break history with cement lined ductile iron pipe. The primary sizes of replacement water lines included in these projects are 6 and 8 inch in diameter. The replacement water main consists primarily of 8” class 52 ductile iron pipe. It is anticipated that the current capital improvement project financing program will remain in place for as long as the PWSB break history warrants.

Hydrants: In total there are 1,920 fire hydrants within the PWSB service territory which includes Pawtucket, Central Falls and the Valley Falls section of Cumberland. Eighteen (18) of these hydrants are located in abutting communities including Attleboro, East Providence, North Providence and Providence.

PWSB has standardized fire hydrant assemblies manufactured by the Mueller Company and all prior hydrant types have been removed and replaced. Hydrant assembly replacement includes the hydrant tee, gate valve and line extension from hydrant to water main. The life expectancy of Mueller hydrants has been estimated to be 90 years or greater. Currently, hydrant replacement is conducted on an as-needed basis or when they are located on a water main replacement project street and are scheduled for replacement.

Valves: There are approximately 4,786 gate style valves between 6 – 12 inch in the distribution system. Larger valves, from 16 to 36 inch, are butterfly style valves and number 208. Replacement or repair of system valves occurs when they are found to be inoperable or when the water main section in which they are located is replaced or rehabilitated. Generally, all style valves are considered to have a life expectancy of 80 years or more. The valve replacement costs are included in the cost of the water main replacement project.

Customer Service Lines: The PWSB owns the portion of the customer service line that lies within the public right of way, generally from the water main to a curb stop within the sidewalk area. The customer maintains ownership of the portion of the service line from the curb stop into the structure. The PWSB began using copper service lines in the distribution system in 1948. There has been an ongoing effort by the PWSB to replace all non-copper service lines owned by the PWSB installed prior to 1948. Similarly, PWSB has encouraged customers to replace their portion of the service line if it is a non-copper material.

Replacing lead, iron, or galvanized customer services lines with copper is performed as part of the PWSB’s ongoing water system improvement plan. As water mains are replaced or upgraded, the customer services owned by PWSB are correspondingly upgraded. It is estimated that that there are less than 100 PWSB owned customer services that are not copper.

Customer Service Meters:

The PWSB meters 100 percent of its approximately 23,000 customer service accounts. The PWSB also maintains a Meter Installation, Maintenance, and Replacement (MIMR) Plan that is funded through the Infrastructure Replacement Fund (IFR). PWSB owns and maintains all meters 2" and smaller and meters are typically replaced on a 15-year schedule.

The PWSB is implementing a project whereby all water system meters will be replaced with an Advanced Metering Infrastructure (AMI) technology which includes ultrasonic meter bodies and automatic reading system. This will improve PWSB's ability to collect frequent and accurate water usage data to improve billing, leak detection and water resources management as well as improve the customer user experience through an online portal. It is anticipated the entire upgrade will be completed by 2025.

STATE OF RHODE ISLAND
PUBLIC UTILITIES COMMISSION

IN RE: PAWTUCKET WATER SUPPLY BOARD
APPLICATION TO CHANGE RATE SCHEDULES

DOCKET NO.

DOCUMENTATION REQUIRED BY R.I.G.L. § 39-3-12.1
CHEMICALS USED IN WATER TREATMENT PROCESS

<u>Chemical</u>	<u>Use</u>
1. Polymer	Clarification Aid
2. Hydrofluorosilic Acid	Dental aid (Fluoride)
3. Sodium Hypochlorite	Disinfection (Chlorine)
4. Phosphate Polymer	Corrosion Control
5. Lime	pH Adjustment
6. Poly Aluminum Chloride	Coagulant Aid
7. Powder Activated Carbon	Taste and Odor

The cost of these chemicals is included within the contract services fee that the PWSB makes to Veolia under the terms and conditions of the Operations Contract Agreement.

**STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
PUBLIC UTILITIES COMMISSION**

**IN RE: PAWTUCKET WATER SUPPLY BOARD
APPLICATION TO CHANGE RATE SCHEDULES**

DOCKET NO.

**DOCUMENTATION REQUIRED BY R.I.G.L. § 39-3-12.1
POLICY RELATED TO THE FUTURE EXPANSION AND RENOVATION OF THE PHYSICAL
PLANT**

It is the policy of the Pawtucket Water Supply Board to assure that the water system will continue to provide quality service to all of its customers. The PWSB is proactive in identifying areas in which the water supply, treatment and transmission and distribution system can be maintained and improved. PWSB remains committed to providing a safe, reliable, and adequate water supply to its customers for many years to come.

The PWSB maintains a Capital Improvement Plan to forecast and provide needed water system improvements. This Plan is a mechanism to plan, fund and implement improvements which includes critical water system infrastructure such as dams and impoundments, well pump stations, water main replacement and cleaning and lining projects as well as customer service and ongoing customer service meter replacement.

The most recent significant improvements to the water system include the construction of water distribution system improvements, reconstruction of the Robin Hollow Pond Dam, Spillway and construction of a new Transmission and Distribution Operations Center, rehabilitation of the five (5) million-gallon water storage tank, and well field electrical distribution system improvements.

Water Treatment Plant: The water treatment facility was placed into operation in 2008 and utilizes deep bed carbon filters along with up-flow clarifiers and ultra violet disinfection to treat the raw water. A raw water pumping station which pumps the water from the Happy Hollow reservoir approximately 1 mile to the south to the water treatment facility was also put into operation at that time. The raw water pump station contains three pumps and various chemical feed systems as well as an air stripper to remove radon from the groundwater sources in the PWSB system.

In 2004, the PWSB slip lined the existing 54" with a new 36" raw water transmission line. Also included in the project was the construction of a parallel 36" raw water transmission main to ensure system raw water supply redundancy from the raw water pump station to the water treatment plant. The PWSB also constructed a five (5) million-gallon water storage tank adjacent to the water treatment plant to provide treatment plant flexibility.

Robin Hollow Pond Dam Reconstruction: This dam structure was completely rehabilitated in 2012 - 2013 and included replacing the existing spillway structure with a multiple-gated system capable of passing the flow associated with a 100 year storm event. This

reconstruction was performed in advance of pending dam safety regulations which would require a significant hazard dam to pass a larger storm and likely in excess of the 100 year storm to the Probable Maximum Flood (PMF).

In order to address the PMF, an overtopping protection system of the entire dam embankment was completed which includes armor stone riprap protection along the upstream slope; a system of articulated concrete blocks on the crest and downstream embankment of the dam; and an armor stone riprap system for the Dexter Street southern embankment. This reconstructed dam facility permits PWSB personnel greater flexibility in controlling both the upstream and downstream water levels in the reservoir complex during normal and potential emergency (drought or flood) conditions.

Transmission and Distribution Facility Operations Center: In 2013, the PWSB relocated its T&D Facility to a new facility which was constructed at 239 Grotto Avenue in Pawtucket. This new facility consists of two (2) 10,000 square foot building structures which significantly enhances operations, staging and storage for the PWSB field personnel responsible for the day-to-day operations and maintenance of the transmission and distribution water system as well as the maintenance of the PWSB vehicle and construction equipment fleet.

Well Field Electrical Transmission System Upgrade: In 2020, the PWSB upgraded the electric power distribution supply to the lower well field which includes four well stations. The existing power supply system was over 50 years in age and had become unreliable with occurrences of numerous outages and power interruptions. The project included upgrading and relocation of the primary electric service and switchgear, abandonment of the overhead power distribution lines, installation of underground cable distribution lines and dry transformers at the well stations.

Five (5) million Gallon Water Storage Tank Improvements: The project was completed in 2022 and included a substantial rehabilitation of the interior and exterior of the PWSB's five (5) million-gallon concrete water storage tank. This included cleaning and recoating of the interior and exterior surfaces; installation of safety devices on the tank exterior; cleaning and recoating of the interior fill / draw line and overflow.

Transmission and Distribution System Improvements: The PWSB is intent on completing its entire system wide transmission and distribution system upgrade. Currently less than 2% of the total mains (approximately 4 miles of the 273 total miles) in the PWSB system are constructed of unlined cast iron pipes. The remainder are constructed of cast iron lined pipe, have been replaced with ductile iron lined pipe, or have been cleaned and lined.

In the past several years, the PWSB has also implemented a replacement program whereby previously lined cast iron water mains are being selectively replaced. These replacements are being conducted on pipe segments within the distribution system that have exhibited a high break history and those segments which are undersized and create a "bottleneck" in flow capacity.

By 2026, all the previously unlined cast iron mains will have either been replaced and/or lined with a cement mortar lining. This program will continue beyond 2026 in a reduced capacity whereby some of the more “aged” and undersized lined cast iron water mains will be upgraded with replacement ductile iron water mains.

Ongoing Improvements: Additional capital improvement projects will be implemented and the most significant of which include improvements to the dam and impoundments at the reservoirs; renovations to the remaining distribution storage tanks and improvements to the well pump station structures.