



July 30, 2015

The Hon. Jorge O. Elorza
Mayor
Ricky Caruolo
General Manager

Mrs. Luly Massaro
Commission Clerk
RI Public Utilities Commission
89 Jefferson Boulevard
Warwick, RI 02888

RE: Docket 4571- Filing Requirements

BOARD OF DIRECTORS

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Secretary
- William E. O'Gara, Esq.
Legal Advisor

Dear Mrs. Massaro:

Enclosed for filing are an original and nine copies of the following items required under R.I.G.L § 39-3-12.1 for Docket 4571.

- Table A-Status of Physical Plant
- Table B-Maintenance Policy
- Table C-Water Treatment Methods and Chemicals Used
- Table D-Policy Relating to Expansion and Renovation
- Table E-Non-Accounted Water

If you have any questions I can be reached at 521-6300, extension 7217.

Sincerely,



 Mary L. Deignan-White
 Senior Manager of Regulatory

cc: Dk 4571 Service List
File

MEMBER

- Rhode Island Water Works Assn.
- New England Water Works Assn.
- American Water Works Assn.
- Water Research Foundation

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**TABLE A
STATUS OF FISCAL PLANT**

The physical plant of the Providence Water Supply Board consists of five (5) feeder reservoirs (Ponagansett, Moswansicut, Barden, Westconnaug, and Regulating) and the main Scituate Reservoir, a 100% surface water supply with a total storage capacity of 41,268 million gallons; a filtration plant with associated sedimentation basins, and chemical storage and feeding equipment, and a filtration capacity of 144 million gallons per day; a transmission and distribution system, consisting of more than 1,000 miles of transmission and distribution mains, which vary in size from 6 inches to 102 inches, and consisting primarily of pipe constructed of cast and ductile iron, asbestos-cement and concrete; four (4) completely enclosed distribution reservoirs with a total capacity of 115.3 million gallons; one (1) prestressed concrete cylindrical tank with a total capacity of 3.5 million gallons; four (4) distribution system pumping stations; one (1) raw water booster pumping station; six (6) pressure boosting pumping stations; eleven (11) emergency power systems, eight (8) driven by diesel engines and three (3) driven by gas engines; and administrative and maintenance garage facilities.

**TABLE B
MAINTENANCE POLICY**

It is the policy of the Water Supply Board to maintain its system in proper operating condition in accordance with all accepted standards. Leaks and damaged valves, hydrants and other appurtenances of the distribution system are repaired and/or replaced expeditiously. Physical plant maintenance is performed in a planned manner by permanent crews when possible. Outside contractors are used to supplement forces when needed. Distribution pipes (most recent main extensions) were installed through fiscal reporting year ending June 30, 2015. Total pipe installed (and or replaced/relined) in the last ten (10) year period is as follows:

<u>Year</u>	<u>Feet</u>	<u>Miles</u>
2006	13,388	2.54
2007	8,122	1.54
2008	7,868	1.49
2009	8,176	1.55
2010	7,873	1.49
2011	44,489	8.43
2012	19,499	3.69
2013	35,725	6.68
2014	45,553	8.63
2015	<u>52,155</u>	<u>9.88</u>
Total	242,848	45.92

**TABLE C
WATER TREATMENT METHODS AND CHEMICALS USED**

During the last fiscal reporting period, (July 2014 through the end of June 2015), Providence Water utilized the following four (4) chemicals during the treatment process, as follows:

1. Ferric Sulfate- Used to coagulate and settle out micro-organisms and particles that cause color and turbidity,
2. Lime- Used to adjust PH
3. Chlorine-Used as a disinfectant
4. Fluoride- Used to prevent dental cavities

The quantities and costs of the chemicals used based on purification plant reporting data for dosing of specified water are as follows:

<u>Chemical</u>	<u>Quantity Used</u>	<u>Unit Cost</u>	<u>Total Cost*</u>
Ferric Sulfate	816,578 gals	\$ 1.32	\$ 1,077,883
Lime	2,120.6 tons	\$ 214.16	\$ 450,521
Chlorine	170.0 tons	\$ 800.00	\$ 136,000
Fluoride	55,311.2 gals	\$ 2.90	\$ 160,402
		Total	\$ 1,824,806

*Total Cost is calculated from the quantity used times the known unit cost of the chemical

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TABLE D
POLICY RELATING TO EXPANSION AND RENOVATION

It is the policy of the Board to assure that the system will continue to provide service to all existing customers. Technical evaluations are made to determine future needs so that required expansion can proceed in a timely manner in order to assure that new customers can be provided with the same level of service without any degradation of service to existing customers. Providence Water has an Infrastructure Replacement Program that addresses the renovation or replacement of major system components. A Capital Improvement Program is also in place to address the implementation of new capital assets. Funding has been provided through rates established by the Public Utilities Commission. The programs are administered through restricted funds for which semi-annual reports are provided to the Commission.

In fiscal year ending June 30, 2015, Providence Water invested approximately \$24.0 million into the infrastructure replacements and capital improvements to the system.

**TABLE E
PROVIDENCE WATER SUPPLY BOARD
NON-ACCOUNTED FOR WATER
Hundred Cubic Feet**

	<u>FYE 2011</u>	<u>FYE 2012</u>	<u>FYE 2013</u>	<u>FYE 2014</u>	<u>FYE 2015</u>
Total Quantity of Water Pumped	30,126,778	30,120,067	29,693,757	29,061,658	30,304,706
Sales to Ultimate Consumers	13,221,050	13,081,259	13,095,186	12,716,656	12,750,249
Sales for Resale	<u>13,525,669</u>	<u>13,213,689</u>	<u>12,440,424</u>	<u>13,145,345</u>	<u>13,694,224</u>
Sub-total Sales	26,746,719	26,294,948	25,535,610	25,862,001	26,444,473
Water used by Company*	0	0	0	152,663	148,510
Non-accounted for Water	3,380,059	3,825,119	4,158,147	3,046,994	3,711,723
% of Total Water Pumped	11.22%	12.70%	14.00%	10.48%	12.25%