



November 29, 2016

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

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RE: Dk 4618: Bristol County Water Authority; Set 4

Dear Mrs. Massaro:

Enclosed please find an original and nine copies of Providence Water's responses to the fourth set of data requests from Bristol County.

If you have any questions I can be reached extension 7217.

Sincerely,

Mary L. Deignan-White
Senior Manager of Regulatory

cc: service list(via email)

MEMBER

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552 Academy Avenue
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PROVIDENCE WATER SUPPLY BOARD

Docket No. 4618

Data Requests of the
Bristol County Water Authority - Set 4
November 8, 2016

BCWA 4-1: In Schedule HJS-15, Mr. Smith calculated an amount for Unaccounted For Water in the rate year (3,537,360). This schedule also includes amounts for Unaccounted For Water for Fiscal Years 2012, 2013, 2014 and 2015:

- a. Please confirm that Providence's Unaccounted For Water calculation for the rate year is based on a four year average, rather than a three year average.
- b. Please provide the source of the amounts for Unaccounted For Water in Fiscal Years 2012, 2013, 2014 and 2015 as set forth in Schedule HJS-15, including any and all documents and work papers that support these amounts.

To the extent that any of the amounts for Unaccounted For Water in Fiscal Years 2012, 2013, 2014 and 2015 set forth in Schedule HJS-15 vary from the amounts reported to the Rhode Island Water Resources Board for those years, please explain the variance.

Response:

- a) The Unaccounted for Water calculation for the rate year is based on a four year average.
- b) The source of the amounts for Unaccounted For Water in FY 2012, 2013, 2014, and 2015 as shown on Schedule HJS-15 is from the spreadsheet in Exhibit 2, Item 2.9 (n) "PROVIDENCE WATER SUPPLY BOARD, NON-ACCOUNTED FOR WATER, Hundred Cubic Feet (HCF)" (see attached referenced spreadsheet).

The figures shown on the above referenced spreadsheet are obtained from metered plant effluent data, metered retail and wholesale consumption data, and the Non-Metered Water Usage Estimates from the RI Water Resources Board – WSSMP Annual Reporting worksheets submitted with response to data request BCWA 3-1. Please note, the figures shown on Schedule HJS-15 are in HCF units while the figures shown on the WSSMP Annual Report are in gallons units.

There are some minor variances for Unaccounted for Water shown in Schedule HJS-15 versus the RI WRB WSSMP report data as follows:

FY 2012: The difference in Unaccounted for water figures is approximately 130 million gallons. The Total Metered Sales figures have a difference of 30 million gallons. At the time when the FY 2012 WSSMP report was submitted the annual figure was rounded to the closest 100 million gallons, (ie. 19,700 MG vs 19,670 MG). In addition, the Schedule HJS-15 (Water used by Company) did not take into account the 100 million gallons estimated for Fire Fighting usage shown on the WSSMP report (see updated Exhibit 2, Item 2.9 (n) attached).

FY 2013: The difference in Unaccounted for water figures is approximately 263 million gallons. The Total Metered Sales figures have a difference of 157 million gallons (ie. 19,259 MG vs 19,102 MG). At the time when the FY 2013 WSSMP report was submitted there was a minor discrepancy with the reported Total Metered annual figure (ie 19,259 MG). The correct Metered Sales annual figure for FY 2013 is 19,102 MG (see updated FY2013 WSSMP Report worksheet attached). In addition, the Schedule HJS-15 (Water used by Company) did not take into account the 100 million gallons estimated for Fire Fighting usage or the 5.5 million gallons Main Flushing usage shown on the WSSMP report (see updated Exhibit 2, Item 2.9 (n) attached).

PROVIDENCE WATER SUPPLY BOARD

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FY 2014: The difference in Unaccounted for water figures is approximately 15 million gallons. The Totaled Metered Sales figures have a difference of approximately 15 million gallons. At the time when the FY 2014 WSSMP report was submitted the Totaled Metered Sales annual figure was rounded to the closest 10 million gallons (ie. 19,330 MG vs 19,345 MG). This equates to approximately 0.07% variance in Unaccounted for water.

FY 2015: The difference in Unaccounted for water figures is approximately 133 million gallons. The Totaled Quantity of Water/Water Produced figures have a difference of approximately 133 million gallons for the year (ie. 22,549 MG vs 22,416 MG). At the time when the FY 2015 WSSMP report was submitted there was a minor discrepancy with the reported Total Water Produced annual figure. The correct Total Water Produced annual figure for FY 2015 is 22,416 MG (see updated FY2015 WSSMP Report worksheet attached).

BCWA 4-1(B)
updated

RI Water Resources Board - WSSMP Annual Report FY 2013
"Non-Metered Water Use Estimates Worksheet"

SECTION #7: Current Non-Revenue & Non-Metered Water Use Estimates (MG) (Worksheet #26) (July 1, 2012 through June 30, 2013)	
	FY 2013
Total Water Produced/Purchased (Gallons) - PLANT EFFLUENT	22,211
Total Metered (Sold) Water (Gallons)	19,102
Total Non-Metered (Not sold) Water Use (Gallons)	3,004
% Non-Metered Water (Total Non- Metered/Total Water)	13.5%

Water Loss/Non-Metered Water (MG) Complete this section if the information is available	
Fire Fighting Allowance	100
Main Flushing/System Maintenance	5.5
Storm Drain Flushing	
Sewer Cleaning	
Street Cleaning	
Schools and Other Public Buildings	
Landscaping in Public Areas	
Swimming Pools	
Construction Sites	
Water Quality and Other Testing	
Process Water at Treatment Plants	
Other Unmetered Uses	
Leakage	
Total	105.5

BCWA 4-1(B)
 update of

RI Water Resources Board - WSSMP Annual Report FY 2015
 "Non-Metered Water Use Estimates Worksheet"

SECTION #7: Current Non-Revenue & Non-Metered Water Use Estimates (Gallons) (July 1, 2014 through June 30, 2015)	
	FY 2015
Total Water Produced/Purchased (Gallons) - PLANT INFLUENT	23,516,200,000
Total Metered (Sold) Water (Gallons)	19,780,535,844
Total Non-Metered (Not sold) Water Use (Gallons)	2,334,664,156
% Non-Metered Water (Total Non-Metered/Total Water)	10%

Water Loss/Non-Metered Water (Gallons) Complete this section if the information is available	
Fire Fighting Allowance	100,000,000
Main Flushing/System Maintenance	16,000,000
Storm Drain Flushing	
Sewer Cleaning	
Street Cleaning	
Schools and Other Public Buildings	
Landscaping in Public Areas	
Swimming Pools	
Construction Sites	
Water Quality and Other Testing	85,000,000
Process Water at Treatment Plants	1,100,000,000
Other Unmetered Uses	
Leakage	100,000,000
Total	1,401,000,000

BCWA 4-1(c)

PROVIDENCE WATER SUPPLY BOARD
 NON-ACCOUNTED FOR WATER
 Hundred Cubic Feet (HCF)

	<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	30,445,721 29,966,150 ok
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	133,690	141,043	152,663	402,498
Non-accounted for Water	3,380,059	3,825,119 3,691,429	4,158,147 4,017,104	3,046,994	3,119,179
% of Total Water Pumped	11.22%	12.70% 12.2% ✓	14.00% 13.5 ✓	10.48% ✓	10.41% ✓