

Aqua Pennsylvania, Inc. 762 W. Lancaster Avenue Bryn Mawr, PA 19010 www.aquaamerica.com

March 31, 2015

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PA PUBLIC UTILITY COMMISSION SECRETARY'S BUREAU

VIA FEDERAL EXPRESS

Rosemary Chiavetta, Secretary Pennsylvania Public Utility Commission Two North Keystone Commonwealth Keystone Building 400 North Street Harrisburg, PA 17120

RE: Aqua Pennsylvania, Inc.'s 2014 Water Audit Reports

Docket M-2008-2062697 M-2015-2464293

Dear Secretary Chiavetta:

Enclosed are Aqua Pennsylvania, Inc.'s 2014 Water Audit Reports for the Water Audit Pilot Project.

If you have any questions regarding this filing, please contact either Kim Joyce, Regulatory Counsel at (610) 645-1077 or myself at (610) 645-1136.

Sincerely,

William C. Packer

Regional Controller – PA/NJ

William C. Towker

/lf

Attachments

cc: Brennan T. Kelly, P.E. (<u>btkelly@aquaamerica.com</u>) Kimberly Joyce, Esq. (<u>kajoyce@aquaamerica.com</u>)

AWWA Free Water Audit Software:								criston	W , American Water Wo Copyright (2014) Ali R	AS v5 0 rks Associatio ights Reserva
Click to access definition	Water Audit Report for: Aqua Pe	mnsı	ivania						¬	
Click to add a comment	Reporting Year: 2014		1/2014 - 12/2014]						
Please enter data in the white cells below. Where available, metered values should be used; if metered values are unavailable please estimate a value. Indicate your confidence in the accuracy of the input data by grading each component (n/a or 1-10) using the drop-down list to the left of the input cell. Hover the mouse over the cell to obtain a description of the grades										
All volumes to be entered as: MILLION GALLONS (US) PER YEAR To select the correct data grading for each input, determine the highest grade where										
	correct data grading for each input, determine tillity meets or exceeds all criteria for that grading					Mas	ter Mete	r and Sup	ply Error Adjustme	ents
WATER SUPPLIED		<	Enter grading	in colun	nn 'E' and 'J' ———		Pont:		Value:	
	Volume from own sources:	9	41,744.000		· ?	7	1.009	-		MG/Yr MG/Yr
	Water imported:	9	2,707.000 896.000		• ?	7	1,009			MG/Yr
							-		alue for under-regis	
	WATER SUPPLIED:		43,123.762	MG/Yr		Ente	r positiv	e % or va	lue for over-registr	ation —
AUTHORIZED CONSUMPTION		· —							Click here:	
	Billed metered: 22 22 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	8 8	33,523.000 16,700	MG/Yr MG/Yr					for help using option buttons below	
	Unbilled metered:	6	33.178	MG/Yr			Pont:		Value:	
	Unbilled unmetered:	_	539,047	MG/Yr			1.25%	. ® 0		MG/Yr
Default	option selected for Unbilled unmetered -	a gr	ading of 5 is applied b	ut not c	displayed			A		
	AUTHORIZED CONSUMPTION: 2		34,111.925	MG/Yr					Use buttons to selec percentage of water	
\									supplied OR	
WATER LOSSES (Water Supplied -	Authorized Consumption)		9,011.837	MG/Yr	<u> </u>			ľ	value	
Apparent Losses	Addition of the state of the st						Pont:	1	Value:	
Apparona 20000	Unauthorized consumption:		107.809	MG/Yr			0.25%	. 📵 🔾		MG/Yr
Default optio	n selected for unauthorized consumption	- a g	rading of 5 is applied	but not	t displayed			-		
	Customer metering inaccuracies:	7	860.415	MG/Yr			2.50%	® 0		MG/Yr
	Systematic data handling errors:	_	83.808				0.25%	<u> </u>)	MG/Yr
Default op	otion selected for Systematic data handlin	g en			d but not displayed					
	Apparent Losses:		1,052.032	MG/Yr						
B11	CARLY									
Real Losses (Current Annual Real I Real Losses = W	Losses of CARLI later Losses - Apparent Losses:	i	7,959.806	MG/Yr						
	WATER LOSSES:		9,011.837	MG/Yr						
	WHICH EDODES.		0,017,007							_
NON-REVENUE WATER	NON-REVENUE WATER:		9.584.062	MGAY						
= Water Losses + Unbilled Metered + Unl	HOW THE PROPERTY OF THE PARTY O			IVICA 11						
SYSTEM DATA										_
	Length of mains:	8	5,772.0	miles						
Number of active.	AND inactive service connections:	8	447,595							
	Service connection density:		78	conn./m	ile main					
Are customer meters typically locate	d at the curbstop or property line?		No		(length of service line	. bevo	nd the or	operty		
	ge tength of customer service line:	6	25.0	ft	boundary, that is the					
	Average operating pressure:	8	60.0	nsi						
	Average operating pressure.			pai						
COST DATA					·					
		7	\$249,002,555	\$/Year						
	al cost of operating water system:				gallons (US)		- 1		٦	
	lion cost (applied to Real Losses):		\$560.00			stomer	Retail Uni	Cost to vai	ue real losses	
										_
WATER AUDIT DATA VALIDITY SCORE:									_	
*** YOUR SCORE IS: 76 out of 100 ***										
A weighted scale for the components of consumption and water loss is included in the calculation of the Water Audit Data Validity Score									_	
PRIORITY AREAS FOR ATTENTION:										
			a companente:							
Based on the information provided, audit accuracy can be improved by addressing the following components:										
1: Volume from own sources										
2: Unbilled metered										
3: Unauthorized consumption										

	AWWA Free Water Audit So System/Attributes/andiPerforman	American Marco Allera, American Allera, American American A						
	Water Audit Report for: Aqua Pennsylvania Reporting Year: 2014 1/2014 - 12/2014							
	*** YOUR WATER AUDIT DATA VALIDITY SCORE IS: 76 out of 100 ***							
System Attributes:	Apparent Losses:	1,052.032 MG/Yr						
	+ Real Losses: Water Losses:	7,959.806 MG/Yr 9,011.837 MG/Yr						
	Unavoidable Annual Real Losses (UARL): [2,502:30]MG/Yr						
	Annual cost of Apparent Losses: [Annual cost of Real Losses: [\$15,044,054 \$4,457,491 Valued at Variable Production Cost						
Performance Indicators:		Return to Reporting Worksheet to change this assumption						
Financial:	Non-revenue water as percent by volume of Water Supplied:	22.2%						
	Non-revenue water as percent by cost of operating system:	8.0% Real Losses valued at Variable Production Cost						
ſ	Apparent Losses per service connection per day:	6.44 gallons/connection/day						
Operational Efficiency:	Real Losses per service connection per day: Real Losses per length of main per day*:	48.72 gallons/connection/day N/A						
	Real Losses per service connection per day per psi pressure:	0.81 gallons/connection/day/psi						
	From Above, Real Losses = Current Annual Real Losses (CARL):	7,959.81 million gallons/year						
	Infrastructure Leakage Index (ILI) [CARL/UARL]:	3.18						
* This performance indicator applies	for systems with a low service connection density of less than 32 service of	connections/mile of pipeline						

4.27

Ship Date: 31MAR15

CAD: 100061330/INET3610

Delivery Address Bar Code

ActWat: 1.0 LB

From: (610) 645-1128 Lora Fracek Aqua America, Inc. 762 West Lancaster Avenue

Bryn Mawr, PA 19010

Origin ID: WAYA





SHIP TO: (717) 787-8009

BILL SENDER

Rosemary Chiavetta, Secretary **PA Public Utility Commission 400 NORTH ST** Two North Keystone HARRISBURG, PA 17120

Ref# Invoice #

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PA PUBLIC UTILITY COMMISSION SECRETARY'S BUREAU

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