



"That good York water"  
SINCE 1816

# The York Water Company

M-2015-2464293

March 19, 2015

Rosemary Chiavetta, Secretary  
Pennsylvania Public Utility Commission  
P. O. Box 3265  
North Office Building  
Harrisburg, PA 17105-3265

Re: Docket M-2008-2062697  
Water Audit Methodology

Dear Secretary:

Enclosed is the York Water Company's Water Audit summary for the year ended December 31, 2014. This filing is in compliance with Docket Number M-2008-2062697.

In addition to the print copy of the spreadsheet, we have enclosed a CD containing the Excel spreadsheet.

Sincerely,

Jeffrey R. Hines, P.E.  
President and Chief Executive Officer

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**AWWA WLCC Free Water Audit Software: Reporting Worksheet**

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WAS v4.2

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[?](#) Click to access definition

Water Audit Report for: **THE YORK WATER COMPANY**  
 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 (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**

**WATER SUPPLIED**

<< Enter grading in column 'E'

Volume from own sources:	<input type="text" value="9"/>	<input type="text" value="6,689.400"/>	Million gallons (US)/yr (MG/Yr)
Master meter error adjustment (enter positive value):	<input type="text" value="7"/>	<input type="text" value="0.000"/>	MG/Yr
Water imported:	<input type="text" value="10"/>	<input type="text" value="0.000"/>	MG/Yr
Water exported:	<input type="text" value="9"/>	<input type="text" value="254.300"/>	MG/Yr
<b>WATER SUPPLIED:</b>		<b>6,435.100</b>	MG/Yr

**AUTHORIZED CONSUMPTION**

Billed metered:	<input type="text" value="9"/>	<input type="text" value="5,548.300"/>	MG/Yr
Billed unmetered:	<input type="text" value="10"/>	<input type="text" value="0.000"/>	MG/Yr
Unbilled metered:	<input type="text" value="9"/>	<input type="text" value="102.645"/>	MG/Yr
Unbilled unmetered:	<input type="text" value="7"/>	<input type="text" value="80.439"/>	MG/Yr
Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed			
<b>AUTHORIZED CONSUMPTION:</b>		<b>5,731.384</b>	MG/Yr

Click here: [?](#) for help using option buttons below  
 Use buttons to select percentage of water supplied OR value

**WATER LOSSES (Water Supplied - Authorized Consumption)**

**703.716** MG/Yr

**Apparent Losses**

Unauthorized consumption:	<input type="text" value="7"/>	<input type="text" value="16.088"/>	MG/Yr
Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed			
Customer metering inaccuracies:	<input type="text" value="9"/>	<input type="text" value="0.000"/>	MG/Yr
Systematic data handling errors:	<input type="text" value="9"/>	<input type="text" value="0.200"/>	MG/Yr
<b>Apparent Losses:</b>		<b>16.288</b>	

Choose this option to enter a percentage of billed metered consumption. This is NOT a default value

**Real Losses (Current Annual Real Losses or CARL)**

Real Losses = Water Losses - Apparent Losses:	<input type="text" value="7"/>	<input type="text" value="687.428"/>	MG/Yr
<b>WATER LOSSES:</b>		<b>703.716</b>	MG/Yr

**NON-REVENUE WATER**

**NON-REVENUE WATER:**  **886.800** MG/Yr

= Total Water Loss + Unbilled Metered + Unbilled Unmetered

**SYSTEM DATA**

Length of mains:	<input type="text" value="8"/>	<input type="text" value="969.0"/>	miles
Number of active AND inactive service connections:	<input type="text" value="9"/>	<input type="text" value="64,465"/>	
Connection density:	<input type="text" value="8"/>	<input type="text" value="67"/>	conn./mile main
Average length of customer service line:	<input type="text" value="8"/>	<input type="text" value="40.0"/>	ft (pipe length between curbstop and customer meter or property boundary)
Average operating pressure:	<input type="text" value="8"/>	<input type="text" value="85.0"/>	psi

**COST DATA**

Total annual cost of operating water system:	<input type="text" value="10"/>	<input type="text" value="\$44,439,504"/>	\$/Year
Customer retail unit cost (applied to Apparent Losses):	<input type="text" value="9"/>	<input type="text" value="\$5.87"/>	\$/1000 gallons (US)
Variable production cost (applied to Real Losses):	<input type="text" value="9"/>	<input type="text" value="\$143.92"/>	\$/Million gallons

**PERFORMANCE INDICATORS**

**Financial Indicators**

Non-revenue water as percent by volume of Water Supplied:	<input text"="" type="text" value="\$95,609"/>
Annual cost of Real Losses:	<input type="text" value="\$98,935"/>

**Operational Efficiency Indicators**

Apparent Losses per service connection per day:	<input type="text" value="0.69"/>	gallons/connection/day
Real Losses per service connection per day*:	<input type="text" value="29.22"/>	gallons/connection/day
Real Losses per length of main per day*:	<input type="text" value="N/A"/>	
Real Losses per service connection per day per psi pressure:	<input type="text" value="0.34"/>	gallons/connection/day/psi
Unavoidable Annual Real Losses (UARL):	<input type="text" value="576.28"/>	million gallons/year
From Above, Real Losses - Current Annual Real Losses (CARL):	<input type="text" value="687.43"/>	million gallons/year
Infrastructure Leakage Index (ILI) [CARL/UARL]:	<input type="text" value="1.19"/>	

\* only the most applicable of these two indicators will be calculated

**WATER AUDIT DATA VALIDITY SCORE:**

**\*\*\* YOUR SCORE IS: 88 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:**

Based on the information provided, audit accuracy can be improved by addressing the following components:

1. Volume from own sources
2. Unauthorized consumption
3. Water exported

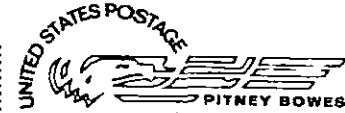
[For more information, click here to see the Grading Matrix worksheet](#)



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## The York Water Company

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