

M-2008-2062697



*"Superior Water Company  
is an equal opportunity employer"*

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SECRETARY'S BUREAU

March 23, 2015

Rosemary Chiavetta, Secretary  
Pennsylvania Public Utility Commission  
Commonwealth Keystone Building  
400 North Street, 2nd Floor North  
P.O. Box 3265  
Harrisburg, PA 17105-3265

**RE: SUPERIOR WATER COMPANY, INC.; 2014 Water Audit; Docket No. M-2008-2062697**

Dear Secretary Chiavetta:

Enclosed for filing with the Commission is the 2014 Water Audit; Docket No. M-2008-2062697 of Superior Water Company, Inc. d/b/a Superior Water Company.

Thank you for your attention to this matter. Please do not hesitate to call me if you have any questions.

Sincerely,

A handwritten signature in cursive script that reads "Louise A. Knight".

Louise A. Knight, C.O.O.  
SUPERIOR WATER COMPANY

LAK/drb  
Enc.

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: **Superior 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="8"/>	<input type="text" value="245,534,400.000"/>	Million gallons (US)/yr (MG/Yr)
Master meter error adjustment (enter positive value):	<input type="text" value="7"/>	<input type="text" value="5.000"/>	under-registered MG/Yr
Water imported:	<input type="text" value="n/a"/>	<input type="text" value="0.000"/>	MG/Yr
Water exported:	<input type="text" value="n/a"/>	<input type="text" value="0.000"/>	MG/Yr
<b>WATER SUPPLIED:</b>		<b>245,534,405.000</b>	MG/Yr

**AUTHORIZED CONSUMPTION**

Billed metered:	<input type="text" value="8"/>	<input type="text" value="201,974,369.000"/>	MG/Yr
Billed unmetered:	<input type="text" value="n/a"/>	<input type="text" value=""/>	MG/Yr
Unbilled metered:	<input type="text" value="7"/>	<input type="text" value="1.500"/>	MG/Yr
Unbilled unmetered:	<input type="text" value="6"/>	<input type="text" value="30.000"/>	MG/Yr

Click here: [\[?\]](#) for help using option buttons below

Pcnt:  Value:

Use buttons to select percentage of water supplied OR value

**AUTHORIZED CONSUMPTION:**  MG/Yr

**WATER LOSSES (Water Supplied - Authorized Consumption)**  MG/Yr

**Apparent Losses**

Unauthorized consumption:	<input type="text" value="4"/>	<input type="text" value="5.500"/>	MG/Yr
Customer metering inaccuracies:	<input type="text" value="8"/>	<input type="text" value="2.500"/>	MG/Yr
Systematic data handling errors:	<input type="text" value="3"/>	<input type="text" value="2.000"/>	MG/Yr
<b>Apparent Losses:</b>		<b>10.000</b>	

Pcnt:  Value:

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:  MG/Yr

**WATER LOSSES:**  MG/Yr

**NON-REVENUE WATER**

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

= Total Water Loss + Unbilled Metered + Unbilled Unmetered

**SYSTEM DATA**

Length of mains:	<input type="text" value="6"/>	<input type="text" value="18.0"/>	miles
Number of active AND inactive service connections:	<input type="text" value="7"/>	<input type="text" value="3,717"/>	
Connection density:		<input type="text" value="207"/>	conn./mile main
Average length of customer service line:	<input type="text" value="6"/>	<input type="text" value="15.0"/>	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="8"/>	<input type="text" value="\$2,285,023"/>	\$/Year
Customer retail unit cost (applied to Apparent Losses):	<input type="text" value="10"/>	<input type="text" value="\$9.53"/>	\$/1000 gallons (US)
Variable production cost (applied to Real Losses):	<input type="text" value="7"/>	<input type="text" value="\$929.14"/>	\$/million gallons

**PERFORMANCE INDICATORS**

**Financial Indicators**

Non-revenue water as percent by volume of Water Supplied:	<input type="text" value="17.78"/>
Non-revenue water as percent by cost of operating system:	<input type="text" value="1771249.58"/>
Annual cost of Apparent Losses:	<input type="text" value="\$95,300"/>
Annual cost of Real Losses:	<input type="text" value="\$40,473,333,290"/>

**Operational Efficiency Indicators**

Apparent Losses per service connection per day:	<input type="text" value="7.37"/>	gallons/connection/day
Real Losses per service connection per day*:	<input type="text" value="32,107,196.85"/>	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="377,731.73"/>	gallons/connection/day/psi
<input type="text" value="8"/> Unavoidable Annual Real Losses (UARL):	<input type="text" value="22.78"/>	million gallons/year
From Above, Real Losses = Current Annual Real Losses (CARL):	<input type="text" value="43,559,994.50"/>	million gallons/year
<input type="text" value="8"/> Infrastructure Leakage Index (ILI) [CARL/UARL]:	<input type="text" value="1,912,513.75"/>	

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

**WATER AUDIT DATA VALIDITY SCORE:**

\*\*\* YOUR SCORE IS: 75 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: Master meter error adjustment
- 3: Unauthorized consumption

For more information, click here to see the Grading Matrix worksheet

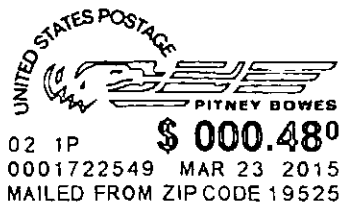
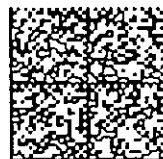
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