



# AWWA Free Water Audit Software: Reporting Worksheet

WAS v5.0

American Water Works Association.  
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Water Audit Report for: **Greater Cincinnati Water Works**Reporting Year: **2015** **7/2014 - 6/2015**

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: MG/YR (US) PER YEAR**

To select the correct data grading for each input, determine the highest grade where the utility meets or exceeds all criteria for that grade and all grades below it.

&lt;----- Enter grading in column 'E' and 'J' -----&gt;

Master Meter and Supply Error Adjustments

**WATER SUPPLIED**

Volume from own sources:	<div><div>+</div><div>?</div></div>	<div><div>7</div></div>	<div>43,025.000</div>	MG/Yr	<div><div>+</div><div>?</div></div>	<div><div>7</div></div>	<div>-0.56%</div>			MG/Yr
Water imported:	<div><div>+</div><div>?</div></div>	<div><div>n/a</div></div>	<div>0.000</div>	MG/Yr	<div><div>+</div><div>?</div></div>	<div><div>7</div></div>				MG/Yr
Water exported:	<div><div>+</div><div>?</div></div>	<div><div>7</div></div>	<div>9,088.000</div>	MG/Yr	<div><div>+</div><div>?</div></div>	<div><div>5</div></div>	<div>-0.50%</div>			MG/Yr

Enter negative % or value for under-registration  
Enter positive % or value for over-registration

**WATER SUPPLIED:** **34,133.629** MG/Yr**AUTHORIZED CONSUMPTION**

Billed metered:	<div><div>+</div><div>?</div></div>	<div><div>9</div></div>	<div>26,014.000</div>	MG/Yr
Billed unmetered:	<div><div>+</div><div>?</div></div>	<div><div>10</div></div>	<div>28.100</div>	MG/Yr
Unbilled metered:	<div><div>+</div><div>?</div></div>	<div><div>10</div></div>	<div>501.900</div>	MG/Yr
Unbilled unmetered:	<div><div>+</div><div>?</div></div>	<div><div>6</div></div>	<div>330.700</div>	MG/Yr

**AUTHORIZED CONSUMPTION:** **26,874.700** MG/Yr

Click here: 

?

  
for help using option  
buttons below

Pcnt: 

0

 Value: 

330.700

 MG/Yr

Use buttons to select  
percentage of water  
supplied  
OR  
value

Pcnt: 

0.25%

 Value:  MG/Yr

1.00%

0.25%

0

0

 MG/Yr

**WATER LOSSES (Water Supplied - Authorized Consumption)****Apparent Losses**Unauthorized consumption: 

+

?

85.334

 MG/Yr

Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

Customer metering inaccuracies:	<div><div>+</div><div>?</div></div>	<div><div>9</div></div>	<div>267.837</div>	MG/Yr
Systematic data handling errors:	<div><div>+</div><div>?</div></div>	<div><div>9</div></div>	<div>65.035</div>	MG/Yr

Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed

**Apparent Losses:** **418.206** MG/Yr**Real Losses (Current Annual Real Losses or CARL)**Real Losses = Water Losses - Apparent Losses: 

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6,840.722

 MG/Yr☐ Use Customer Retail Unit Cost to**WATER LOSSES:** **7,258.929** MG/Yr**NON-REVENUE WATER****NON-REVENUE WATER:** **8,091.529** MG/Yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

**SYSTEM DATA**

Length of mains:	<div><div>+</div><div>?</div></div>	<div><div>10</div></div>	<div>3,153.0</div>	miles
Number of active AND inactive service connections:	<div><div>+</div><div>?</div></div>	<div><div>10</div></div>	<div>248,559</div>	
Service connection density:	<div><div>?</div></div>	<div><div>79</div></div>	<div>79</div>	conn./mile main

Are customer meters typically located at the curbside or property line? 

No

 (length of service line, beyond the property boundary, that is the responsibility of the utility)

Average length of customer service line: 

+

?

9

27.0

 ft

Average operating pressure: 

+

?

9

93.8

 psi**COST DATA**

Total annual cost of operating water system:	<div><div>+</div><div>?</div></div>	<div><div>10</div></div>	<div>\$86,286.000</div>	\$/Year
Customer retail unit cost (applied to Apparent Losses):	<div><div>+</div><div>?</div></div>	<div><div>9</div></div>	<div>\$4.21</div>	\$/1000 gallons (US)
Variable production cost (applied to Real Losses):	<div><div>+</div><div>?</div></div>	<div><div>10</div></div>	<div>\$600.00</div>	\$/Million gallons

**WATER AUDIT DATA VALIDITY SCORE:****\*\*\* YOUR SCORE IS: 82 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: Systematic data handling errors**