



M-2021-3023555-AEL-5/5/21

# The York Water Company

April 30, 2021

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, 2020. This filing is in compliance with Docket Number M-2008-2062697.

Sincerely,

Joseph T. Hand  
President and Chief Executive Officer

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## AWWA Free Water Audit Software: Worksheet

FWAS v6.0  
American Water Works Association  
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Water Audit Report for: **THE YORK WATER COMPANY**  
 Audit Year: **2020** | **Jan 01 2020 - Dec 31 2020** | **CALENDAR**

Click 'n' to add notes | Click 'g' to determine data validity grade | To edit water system info: [go to start page](#)

To access definitions, click the **input name**

All volumes to be entered as: MILLION GALLONS (US) PER YEAR

[Water Supplied Error Adjustments](#)

### WATER SUPPLIED

choose entry option:

|     |                          |                                |                                |                                |           |       |                                |                                |                                      |  |  |
|-----|--------------------------|--------------------------------|--------------------------------|--------------------------------|-----------|-------|--------------------------------|--------------------------------|--------------------------------------|--|--|
| VOS | Volume from Own Sources: | <input type="text" value="n"/> | <input type="text" value="g"/> | <input type="text" value="6"/> | 7,296.000 | MG/Yr | <input type="text" value="n"/> | <input type="text" value="g"/> | <input type="text" value="percent"/> |  |  |
| WI  | Water Imported:          | <input type="text" value="n"/> | <input type="text" value="g"/> |                                | 0.000     | MG/Yr |                                |                                |                                      |  |  |
| WE  | Water Exported:          | <input type="text" value="n"/> | <input type="text" value="g"/> |                                | 0.000     | MG/Yr |                                |                                |                                      |  |  |

VOSEA  
WIEA  
WEEA

**WATER SUPPLIED:** 7,296.000 MG/Yr

### AUTHORIZED CONSUMPTION

choose entry option:

|      |                     |                                |                                |                                |           |       |  |  |  |  |  |
|------|---------------------|--------------------------------|--------------------------------|--------------------------------|-----------|-------|--|--|--|--|--|
| BMAC | Billed Metered:     | <input type="text" value="n"/> | <input type="text" value="g"/> | <input type="text" value="5"/> | 5,664.212 | MG/Yr |  |  |  |  |  |
| BUAC | Billed Unmetered:   | <input type="text" value="n"/> | <input type="text" value="g"/> |                                |           | MG/Yr |  |  |  |  |  |
| UMAC | Unbilled Metered:   | <input type="text" value="n"/> | <input type="text" value="g"/> | <input type="text" value="2"/> | 545.949   | MG/Yr |  |  |  |  |  |
| UUAC | Unbilled Unmetered: | <input type="text" value="n"/> | <input type="text" value="g"/> | <input type="text" value="3"/> | 14.161    | MG/Yr |  |  |  |  |  |

Default option selected for Unbilled Unmetered, with automatic data grading of 3

**AUTHORIZED CONSUMPTION:** 6,224.321 MG/Yr

### WATER LOSSES

1,071.679 MG/Yr

#### Apparent Losses

choose entry option:

|      |                                  |                                |                                |                                |        |       |  |  |  |  |  |
|------|----------------------------------|--------------------------------|--------------------------------|--------------------------------|--------|-------|--|--|--|--|--|
| SDHE | Systematic Data Handling Errors: | <input type="text" value="n"/> | <input type="text" value="g"/> | <input type="text" value="1"/> | 0.100  | MG/Yr |  |  |  |  |  |
| CMI  | Customer Metering Inaccuracies:  | <input type="text" value="n"/> | <input type="text" value="g"/> | <input type="text" value="2"/> | 62.729 | MG/Yr |  |  |  |  |  |
| UC   | Unauthorized Consumption:        | <input type="text" value="n"/> | <input type="text" value="g"/> | <input type="text" value="3"/> | 14.161 | MG/Yr |  |  |  |  |  |

Default option selected for Unauthorized Consumption, with automatic data grading of 3

**Apparent Losses:** 76.989 MG/Yr

#### Real Losses

**Real Losses:** 994.689 MG/Yr

**WATER LOSSES:** 1,071.679 MG/Yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** 1,631.788 MG/Yr

### SYSTEM DATA

|     |  |                                |                                |                                 |         |                 |  |  |  |  |  |
|-----|--|--------------------------------|--------------------------------|---------------------------------|---------|-----------------|--|--|--|--|--|
| Lm  | Length of mains:   | <input type="text" value="n"/> | <input type="text" value="g"/> | <input type="text" value="10"/> | 1,020.0 | miles           | (including fire hydrant lead lengths)              |  |  |  |  |
| Nc  | Number of service connections:                                       | <input type="text" value="n"/> | <input type="text" value="g"/> | <input type="text" value="5"/>  | 69,398  |                 | (active and inactive)                              |  |  |  |  |
|     | Service connection density:  |                                |                                |                                 | 68      | conn./mile main |  |  |  |  |  |
|     | Are customer meters typically located at the curbstop/property line? |                                |                                |                                 |         | No              |  |  |  |  |  |
| Lp  | Average length of (private) customer service line:                   | <input type="text" value="n"/> | <input type="text" value="g"/> | <input type="text" value="10"/> | 40.0    | ft              | (average distance between property line and meter) |  |  |  |  |
| AOP | Average Operating Pressure:  | <input type="text" value="n"/> | <input type="text" value="g"/> | <input type="text" value="7"/>  | 89.0    | psi             |  |  |  |  |  |

### COST DATA

|      |                              |                                |                                |                                |          |                      |  |  |  |  |  |
|------|------------------------------|--------------------------------|--------------------------------|--------------------------------|----------|----------------------|--|--|--|--|--|
| CRUC | Customer Retail Unit Charge: | <input type="text" value="n"/> | <input type="text" value="g"/> | <input type="text" value="7"/> | \$6.17   | \$/1000 gallons (US) |  |  |  |  |  |
| VPC  | Variable Production Cost:    | <input type="text" value="n"/> | <input type="text" value="g"/> | <input type="text" value="8"/> | \$431.46 | \$/Million gallons   |  |  |  |  |  |

**Total Annual Operating Cost**  \$/yr (optional input)

### WATER AUDIT DATA VALIDITY TIER:

**\*\*\* The Water Audit Data Validity Score is in Tier III (51-70). See Dashboard tab for additional outputs. \*\*\***

[go to dashboard](#)

A weighted scale for the components of supply, consumption and water loss is included in the calculation of the Water Audit Data Validity Score

#### PRIORITY AREAS FOR ATTENTION TO IMPROVE DATA VALIDITY:

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

- 1: Volume from Own Sources (VOS)
- 2: Billed Metered (BMAC)
- 3: Customer Metering Inaccuracies (CMI)

#### KEY PERFORMANCE INDICATOR TARGETS:

OPTIONAL: If targets exist for the operational performance indicators, they can be input below:

|                                 |                               |              |
|---------------------------------|-------------------------------|--------------|
| Unit Total Losses:              | <input type="text" value=""/> | gal/conn/day |
| Unit Apparent Losses:           | <input type="text" value=""/> | gal/conn/day |
| Unit Real Losses <sup>a</sup> : | <input type="text" value=""/> | gal/conn/day |
| Unit Real Losses <sup>b</sup> : | <input type="text" value=""/> | gal/mile/day |

If entered above by user, targets will display on KPI gauges (see Dashboard)