



AWWA Free Water Audit Software: Worksheet

FWAS v6.0

American Water Works Association.

Water Audit Report for: **VEOLIA - Center Square**

Audit Year: **2023** **Jan 01 2023 - Dec 31 2023** **2023**

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

To access definitions, click the [input name](#)

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

Water Supplied Error Adjustments

choose entry option:

WATER SUPPLIED

VOS Volume from Own Sources: 46.335 MG/Yr

WI Water Imported: MG/Yr

WE Water Exported: MG/Yr

 percent

VOSEA
WIEA
WEEA

WATER SUPPLIED: 46.335 MG/Yr

AUTHORIZED CONSUMPTION

BMAC Billed Metered: 31.160 MG/Yr

BUAC Billed Unmetered: MG/Yr

UMAC Unbilled Metered: MG/Yr

UUAC Unbilled Unmetered: 0.546 MG/Yr

choose entry option:

MG/Yr

AUTHORIZED CONSUMPTION: 31.706 MG/Yr

WATER LOSSES

14.629 MG/Yr

Apparent Losses

Default option selected for Systematic Data Handling Errors, with automatic data grading of 3

SDHE Systematic Data Handling Errors: 0.078 MG/Yr

CMI Customer Metering Inaccuracies: 0.311 MG/Yr

UC Unauthorized Consumption: 0.116 MG/Yr

choose entry option:

 MG/Yr

 MG/Yr

 MG/Yr

[under-registration](#)

Apparent Losses: 0.505 MG/Yr

Real Losses

Real Losses: 14.124 MG/Yr

WATER LOSSES: 14.629 MG/Yr

NON-REVENUE WATER

NON-REVENUE WATER: 15.175 MG/Yr

SYSTEM DATA

Lm Length of mains: 9.0 miles (including fire hydrant lead lengths)

Nc Number of service connections: 703 (active and inactive)

Service connection density: 78 conn./mile main

Are customer meters typically located at the curbstop/property line?

Lp Average length of (private) customer service line: 75.0 ft (average distance between property line and meter)

AOP Average Operating Pressure: 60.0 psi

COST DATA

CRUC Customer Retail Unit Charge: \$8.24 \$/1000 gallons (US)

VPC Variable Production Cost: \$588.30 \$/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: Customer Metering Inaccuracies (CMI)
- 3: Variable Production Cost (VPC)

KEY PERFORMANCE INDICATOR TARGETS:

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

Unit Total Losses: gal/conn/day

Unit Apparent Losses: gal/conn/day

Unit Real Losses^A: gal/conn/day

Unit Real Losses^B: gal/mile/day

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