



## AWWA Free Water Audit Software: Worksheet

FWAA v6.0

American Water Works Association.

Water Audit Report for: **VEOLIA - Brown Manor**  
 Audit Year: **2023** | **Jan 01 2023 - Dec 31 2023** | **2023**

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](#)

choose entry option:

### WATER SUPPLIED

VOS Volume from Own Sources:     MG/Yr  
 WI Water Imported:    MG/Yr  
 WE Water Exported:    MG/Yr

VOSEA  
WIEA  
WEEA

**WATER SUPPLIED:**  MG/Yr

### AUTHORIZED CONSUMPTION

BMAC Billed Metered:     MG/Yr  
 BUAC Billed Unmetered:    MG/Yr  
 UMAC Unbilled Metered:    MG/Yr  
 UUAC Unbilled Unmetered:     MG/Yr

choose entry option:

MG/Yr

**AUTHORIZED CONSUMPTION:**  MG/Yr

**Check input values; WATER SUPPLIED should be greater than AUTHORIZED CONSUMPTION**

### WATER LOSSES

MG/Yr

### Apparent Losses

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

SDHE Systematic Data Handling Errors:     MG/Yr  
 CMI Customer Metering Inaccuracies:     MG/Yr  
 UC Unauthorized Consumption:     MG/Yr

choose entry option:

MG/Yr  
  MG/Yr  
  MG/Yr

[under-registration](#)

Enter a positive value, otherwise a default of 0.25% x (BMAC+BUAC) is applied with grading of 3

**Apparent Losses:**  MG/Yr

**Check input values; APPARENT LOSSES should be less than WATER LOSSES**

### Real Losses

**Real Losses:**  MG/Yr

**WATER LOSSES:**  MG/Yr

### NON-REVENUE WATER

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

### SYSTEM DATA

Lm Length of mains:     miles (including fire hydrant lead lengths)  
 Nc Number of service connections:     (active and inactive)  
 Service connection density:  conn./mile main

Lp Are customer meters typically located at the curbstop/property line?   
 Average length of (private) customer service line:     ft (average distance between property line and meter)

AOP Average Operating Pressure:     psi

### COST DATA

CRUC Customer Retail Unit Charge:     \$/1000 gallons (US) **Total Annual Operating Cost**  
 VPC Variable Production Cost:     \$/Million gallons  \$/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<sup>A</sup>:  gal/conn/day  
 Unit Real Losses<sup>B</sup>:  gal/mile/day

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