



AWWA Free Water Audit Software: Worksheet

FWAS v6.0

American Water Works Association.

Water Audit Report for: **Roosevelt Borough Water System**
 Audit Year: **2020** | **Jan 01 2020 - Dec 31 2020** | **Calendar**

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:	<input type="text" value="n"/> <input type="text" value="g"/>	<input type="text" value="19.769"/>	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"/>	<input type="text" value="0.000"/>	MG/Yr		
WE	Water Exported:	<input type="text" value="n"/> <input type="text" value="g"/>	<input type="text" value="0.000"/>	MG/Yr		

VOSEA
WIEA
WEEA

WATER SUPPLIED: MG/Yr

AUTHORIZED CONSUMPTION

BMAC	Billed Metered:	<input type="text" value="n"/> <input type="text" value="g"/>	<input type="text" value="15.143"/>	MG/Yr		
BUAC	Billed Unmetered:	<input type="text" value="n"/> <input type="text" value="g"/>	<input type="text" value="0.000"/>	MG/Yr		
UMAC	Unbilled Metered:	<input type="text" value="n"/> <input type="text" value="g"/>	<input type="text" value="1.126"/>	MG/Yr		
UUAC	Unbilled Unmetered:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="3"/>	<input type="text" value="0.038"/>	MG/Yr	<input type="text" value="0.25%"/>	<input type="text" value="default"/>

choose entry option:

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

AUTHORIZED CONSUMPTION: MG/Yr

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:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="3"/>	<input type="text" value="0.038"/>	MG/Yr	<input type="text" value="0.25%"/>	<input type="text" value="default"/>
CMI	Customer Metering Inaccuracies:	<input type="text" value="n"/> <input type="text" value="g"/>	<input type="text" value="0.000"/>	MG/Yr	<input type="text" value="percent"/>	<input type="text" value="under-registration"/>
UC	Unauthorized Consumption:	<input type="text" value="n"/> <input type="text" value="g"/> <input type="text" value="3"/>	<input type="text" value="0.038"/>	MG/Yr	<input type="text" value="0.25%"/>	<input type="text" value="default"/>

choose entry option:

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

Apparent Losses: MG/Yr

Real Losses

Real Losses: MG/Yr

WATER LOSSES: MG/Yr

NON-REVENUE WATER

NON-REVENUE WATER: MG/Yr

SYSTEM DATA

Lm	Length of mains:	<input type="text" value="n"/> <input type="text" value="g"/>	<input type="text" value="4.8"/>	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="302"/>		(active and inactive)
	Service connection density:		<input type="text" value="63"/>	conn./mile main	
Lp	Are customer meters typically located at the curbstop/property line?	<input type="text" value="No"/>			
	Average length of (private) customer service line:	<input type="text" value="n"/> <input type="text" value="g"/>	<input type="text" value="60.0"/>	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="45.0"/>	psi	

COST DATA

CRUC	Customer Retail Unit Charge:	<input type="text" value="n"/> <input type="text" value="g"/>	<input type="text" value="\$6.96"/>	\$/1000 gallons (US)	<input type="text" value="Total Annual Operating Cost"/>
VPC	Variable Production Cost:	<input type="text" value="n"/> <input type="text" value="g"/>	<input type="text" value="\$3,392.00"/>	\$/Million gallons	\$/yr (optional input)

WATER AUDIT DATA VALIDITY TIER:

Click 'g' for 10 parameter(s), then complete all visible data grading questions to enable the Data Validity Score to calculate

[go to dashboard](#)

PRIORITY AREAS FOR ATTENTION TO IMPROVE DATA VALIDITY:

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

KEY PERFORMANCE INDICATOR TARGETS:

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

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

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