

City of Eureka Springs

Public Works Department
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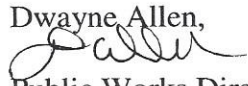
April 4, 2019

Office of the Mayor, Butch Berry
44 South Main Street
Eureka Springs, Arkansas 72632

Re: Departmental Report Water Loss

Mr. Mayor:

I have attached the water loss work sheet for the first quarter of 2019. The percentage is only slightly improved from the last quarter of 2018. The fact that water sales during the first quarter of every year are below yearly averages and water purchases are running fifty percent below this period last year makes this a positive report and proves we have not lost the reductions we achieved last year. I will soon request funding for my plan to continue reducing and monitoring our water loss during 2019.

Dwayne Allen,

Public Works Director

City of Eureka Springs Water Audit

Jan-Mar-2019	Purchased	Water Losses	% of Loss	
Water Loss	32,845,000	12,481,100	38	



AWWA Free Water Audit Software Reporting Worksheet

v5.0

AWWA Free Water Audit Software
Reporting Worksheet

Click to access definition
 Click to add a comment

Water Audit Report for: **City of Eureka Springs (075)**
Reporting Year: **2019** **1/2019 - 3/2019**

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: MILLION GALLONS (MG) 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.

WATER SUPPLIED

Volume from own sources: 8 MG/Yr
Water imported: 8 MG/Yr
Water exported: 8 MG/Yr

Master Meter and Supply Error Adjustments

Pcnt: 8 Value: MG/Yr
 8 MG/Yr
 8 MG/Yr

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

WATER SUPPLIED: 8 MG/Yr

AUTHORIZED CONSUMPTION

Billed metered: 9 MG/Yr
Billed unmetered: 9 MG/Yr
Unbilled metered: 8 MG/Yr
Unbilled unmetered: 8 MG/Yr

Unbilled Unmetered volume entered is greater than the recommended default value

AUTHORIZED CONSUMPTION: 8 MG/Yr

Click here: for help using option buttons below

Pcnt: 8 Value: MG/Yr

Use buttons to select percentage of water supplied OR value

Pcnt: 8 Value: MG/Yr

8 MG/Yr
 8 MG/Yr

WATER LOSSES (Water Supplied - Authorized Consumption)

Apparent Losses

Unauthorized consumption: 7 MG/Yr

Unauthorized consumption volume entered is greater than the recommended default value

Customer metering inaccuracies: 5 MG/Yr
Systematic data handling errors: 5 MG/Yr

Apparent Losses: 7 MG/Yr

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: 8 MG/Yr

WATER LOSSES: 8 MG/Yr

NON-REVENUE WATER

NON-REVENUE WATER: 8 MG/Yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains: 7 miles
Number of active AND inactive service connections: 7
Service connection density: 7 conn./mile main

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

Average length of customer service line: 8 (length of service line, beyond the property boundary, that is the responsibility of the utility)

Average length of customer service line has been set to zero and a data grading score of 10 has been applied

Average operating pressure: 8 psi

COST DATA

Total annual cost of operating water system: 8 \$/Year
Customer retail unit cost (applied to Apparent Losses): 8 8 <-Enter units
Variable production cost (applied to Real Losses): 5 \$/Million gallons ☐ Use Customer Retail Unit Cost to value real losses

WATER AUDIT DATA VALIDITY SCORE:

*** YOUR SCORE IS: 74 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: Water imported

2: Customer metering inaccuracies

3: Variable production cost (applied to Real Losses)