



AWWA Free Water Audit Software: Reporting Worksheet

WAS v5.0
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Water Audit Report for: **Orange County Utilities Department (348-4132,348-1546;348-4119)**
Reporting Year: **2013** **1/2013 - 12/2013**

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 (US) 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: 21,589.786 MG/Yr
Water imported: 114.004 MG/Yr
Water exported: 0.000 MG/Yr

Master Meter Error Adjustments

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

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

WATER SUPPLIED: **21,608.504** MG/Yr

AUTHORIZED CONSUMPTION

Billed metered: 19,463.757 MG/Yr
Billed unmetered: 0.000 MG/Yr
Unbilled metered: 85.905 MG/Yr
Unbilled unmetered: 26.317 MG/Yr

AUTHORIZED CONSUMPTION: **19,575.979** MG/Yr

WATER LOSSES (Water Supplied - Authorized Consumption)

2,032.525 MG/Yr

Apparent Losses

Unauthorized consumption: **54.021** MG/Yr

Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

Customer metering inaccuracies: 104.165 MG/Yr
Systematic data handling errors: 32.920 MG/Yr

Apparent Losses: **191.107** MG/Yr

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: **1,841.418** MG/Yr

WATER LOSSES: **2,032.525** MG/Yr

NON-REVENUE WATER

NON-REVENUE WATER: **2,144.747** MG/Yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains: 1,745.5 miles
Number of active AND inactive service connections: 90,402
Service connection density: 52 conn./mile main

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

Average length of customer service line: (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: 66.3 psi

COST DATA

Total annual cost of operating water system: \$27,255,643 \$/Year
Customer retail unit cost (applied to Apparent Losses): \$5.20 \$/1000 gallons (US)
Variable production cost (applied to Real Losses): \$275.90 \$/Million gallons ☐ Use Customer Retail Unit Cost to value real losses

WATER AUDIT DATA VALIDITY SCORE:

***** YOUR SCORE IS: 87 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:

#N/A

2: Unauthorized consumption

3: Variable production cost (applied to Real Losses)