

Appendix D

AWWA Water Audit Reporting Worksheet



AWWA Free Water Audit Software: Reporting Worksheet

WAS v5.0
American Water Works Association.
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?	Click to access definition
+	Click to add a comment

Water Audit Report for: **Antelope Valley-East Kern Water Agency**
 Reporting Year: **2015** **1/2015 - 12/2015**

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: ACRE-FEET 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

<----- Enter grading in column 'E' and 'J' ----->

Volume from own sources:	+ ?	5	17,066.300	acre-ft/yr
Water imported:	+ ?	5	13,298.000	acre-ft/yr
Water exported:	+ ?			acre-ft/yr

Master Meter and Supply Error Adjustments

Pcnt:	Value:			acre-ft/yr
+ ?	4	<input checked="" type="radio"/>	<input type="radio"/>	
+ ?	4	<input checked="" type="radio"/>	<input type="radio"/>	
+ ?		<input checked="" type="radio"/>	<input type="radio"/>	

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

WATER SUPPLIED: 30,364.300 acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	+ ?	7	28,774.450	acre-ft/yr
Billed unmetered:	+ ?	n/a		acre-ft/yr
Unbilled metered:	+ ?	10		acre-ft/yr
Unbilled unmetered:	+ ?		379.554	acre-ft/yr

Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed

AUTHORIZED CONSUMPTION: 29,154.004 acre-ft/yr

Click here: ?
for help using option buttons below

Pcnt:	Value:			acre-ft/yr
1.25%	<input checked="" type="radio"/>	<input type="radio"/>		

Use buttons to select percentage of water supplied
OR value

Pcnt:	Value:			acre-ft/yr
0.25%	<input checked="" type="radio"/>	<input type="radio"/>		

0.25%	<input checked="" type="radio"/>	<input type="radio"/>		acre-ft/yr
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WATER LOSSES (Water Supplied - Authorized Consumption)

1,210.296 acre-ft/yr

Apparent Losses

Unauthorized consumption: + ? **75.911** acre-ft/yr

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

Customer metering inaccuracies:	+ ?	7	0.000	acre-ft/yr
Systematic data handling errors:	+ ?		71.936	acre-ft/yr

Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed

Apparent Losses: 147.847 acre-ft/yr

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: ? **1,062.449** acre-ft/yr

WATER LOSSES: 1,210.296 acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: 1,589.850 acre-ft/yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

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

Are customer meters typically located at the curbside or property line? (length of service line, beyond the property boundary, that is the responsibility of the utility)

Average operating pressure: + ? psi

COST DATA

Total annual cost of operating water system:	+ ?			\$/Year
Customer retail unit cost (applied to Apparent Losses):	+ ?			
Variable production cost (applied to Real Losses):	+ ?			\$/acre-ft

Use Customer Retail Unit Cost to value real losses

WATER AUDIT DATA VALIDITY SCORE:

Add a grading value for 7 parameter(s) to enable an audit score to be calculated

PRIORITY AREAS FOR ATTENTION:

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

1: Volume from own sources

2: Total annual cost of operating water system

3: Customer retail unit cost (applied to Apparent Losses)