
APPENDIX A

EXAMPLE SCHEDULES

Schedule of Unaccounted for Water

The following format is effective for reports submitted through December 31, 2012. For reports submitted January 1, 2013 and later, the American Water Works Association (AWWA) water loss reporting model must be used. For more information regarding the AWWA model you can access the water audit software at:

<http://www.awwa.org/Resources/WaterLossControl.cfm?ItemNumber=48511&navItemNumber=48158>

Town/Utility District of Anywhere
Schedule of Unaccounted For Water
June 30, 20X2

(All amounts in gallons)

A	Water Treated and Purchased:		
B	Water Pumped (potable)	2,000,000	
C	Water Purchased	500,000	
D	Total Water Treated and Purchased		2,500,000
	(Sum Lines B and C)		
E	Accounted for Water:		
F	Water Sold	1,800,000	
G	Metered for Consumption (in house usage)	200,000	
H	Fire Department(s) Usage	50,000	
I	Flushing	10,000	
J	Tank Cleaning/Filling	7,200	
K	Street Cleaning	0	
L	Bulk Sales	0	
M	Water Bill Adjustments /plus or (minus)	2,000	
N	Total Accounted for Water		2,069,200
	(Sum Lines F thru M)		
O	Unaccounted for Water		430,800
	(Line D minus Line N)		
P	Percent Unaccounted for Water		17.232 %
	(Line O divided by Line D times 100)		
Q	Other (explain)		See Below

Explain Other:

Used in Horticulture 150,000

All amounts included in this schedule are supported by documentation on file at the water system. If no support is on file for a line item or if the line item is not applicable, a "0" is shown.

AWWA WLCC Free Water Audit Software: Reporting Worksheet		Back to Instructions
Copyright © 2010, American Water Works Association. All Rights Reserved. WAS v4.2		
? Click to access definition	Water Audit Report for: XYZ Government Reporting Year: 2012 / 7/2011 - 6/2012	
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 (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		
PLEASE CHOOSE REPORTING UNITS FROM THE INSTRUCTIONS SHEET BEFORE ENTERING DATA		
<< Enter grading in column 'E'		
WATER SUPPLIED		
Volume from own sources:	<input type="text"/>	<input type="text"/>
Master meter error adjustment (enter positive value):	<input type="text"/>	<input type="text"/>
Water imported:	<input type="text"/>	<input type="text"/>
Water exported:	<input type="text"/>	<input type="text"/>
WATER SUPPLIED:	0.000	
AUTHORIZED CONSUMPTION		
Billed metered:	<input type="text"/>	<input type="text"/>
Billed unmetered:	<input type="text"/>	<input type="text"/>
Unbilled metered:	<input type="text"/>	<input type="text"/>
Unbilled unmetered:	<input type="text"/>	<input type="text"/>
Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed		
AUTHORIZED CONSUMPTION:	0.000	
Pcnt: <input type="text" value="1.25%"/> Value: <input type="text"/> Use buttons to select percentage of water supplied OR value		
WATER LOSSES (Water Supplied - Authorized Consumption)		
	0.000	
Apparent Losses		
Unauthorized consumption:	<input type="text"/>	<input type="text"/>
Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed		
Customer metering inaccuracies:	<input type="text"/>	<input type="text"/>
Systematic data handling errors:	<input type="text"/>	<input type="text"/>
Apparent Losses:	<input type="text"/>	<input type="text"/>
Real Losses (Current Annual Real Losses or CARL)		
Real Losses = Water Losses - Apparent Losses:	<input type="text"/>	<input type="text"/>
WATER LOSSES:	0.000	
NON-REVENUE WATER		
NON-REVENUE WATER:	<input type="text"/>	<input type="text"/>
= Total Water Loss + Unbilled Metered + Unbilled Unmetered		
SYSTEM DATA		
Length of mains:	<input type="text"/>	<input type="text"/>
Number of active AND inactive service connections:	<input type="text"/>	<input type="text"/>
Connection density:	<input type="text"/>	<input type="text"/>
Average length of customer service line:	<input type="text"/>	<input type="text"/>
Average operating pressure:	<input type="text"/>	<input type="text"/>
(pipe length between curbstop and customer meter or property boundary)		
COST DATA		
Total annual cost of operating water system:	<input type="text"/>	\$/Year
Customer retail unit cost (applied to Apparent Losses):	<input type="text"/>	
Variable production cost (applied to Real Losses):	<input type="text"/>	\$/
PERFORMANCE INDICATORS		
Financial Indicators		
Non-revenue water as percent by volume of Water Supplied:	<input type="text"/>	
Non-revenue water as percent by cost of operating system:	<input type="text"/>	
Annual cost of Apparent Losses:	<input type="text"/>	
Annual cost of Real Losses:	<input type="text"/>	
Operational Efficiency Indicators		
Apparent Losses per service connection per day:	<input type="text"/>	
Real Losses per service connection per day*:	<input type="text"/>	
Real Losses per length of main per day*:	<input type="text"/>	
Real Losses per service connection per day per meter (head) pressure:	<input type="text"/>	
<input type="text"/> Unavoidable Annual Real Losses (UARL):	<input type="text"/>	
From Above, Real Losses = Current Annual Real Losses (CARL):	<input type="text"/>	
<input type="text"/> Infrastructure Leakage Index (ILI) [CARL/UARL]:	<input type="text"/>	
* only the most applicable of these two indicators will be calculated		
WATER AUDIT DATA VALIDITY SCORE:		
Add a grading value for 9 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: Billed metered		
2: Customer metering inaccuracies		
3: Total annual cost of operating water system		
For more information, click here to see the Grading Matrix worksheet		