?	Click to access definition

Water Audit Report for: Lake Arrowhead CSD
Reporting Year: 2011   7/2010 - 6/2011

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

All volumes to be entered as: ACRE-FEET PER YEAR

WATER SUPPLIED

<< Enter grading in column 'E'

Volume from own sources:	?	7	1,733.800	acre-ft/yr
Master meter error adjustment (enter positive value):	?	n/a	under-registered	acre-ft/yr
Water imported:	?	8	3.870	acre-ft/yr
Water exported:	?	n/a		acre-ft/yr
WATER SUPPLIED:			1,737.670	acre-ft/yr

AUTHORIZED CONSUMPTION

Click here: [?] for help using option buttons below

					Pcnt:	Value:
Billed metered:	?	9		acre-ft/yr		
Billed unmetered:	?	n/a		acre-ft/yr		
Unbilled metered:	?	10	4.310	acre-ft/yr		
Unbilled unmetered:	?		21.721	acre-ft/yr	1.25%	

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

AUTHORIZED CONSUMPTION:	?	26.031	acre-ft/yr

Use buttons to select percentage of water supplied

OR value

WATER LOSSES (Water Supplied - Authorized Consumption)

1,711.639 acre-ft/yr

Apparent Losses

					Pcnt:	Value:
Unauthorized consumption:	?		4.344	acre-ft/yr	0.25%	

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:	?	5	2.000	acre-ft/yr
Apparent Losses:	?		6.344	

Choose this option to enter a percentage of billed metered consumption. This is NOT a default value

[?]

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses:	?	1,705.295	acre-ft/yr
WATER LOSSES:		1,711.639	acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER:	?	1,737.670	acre-ft/yr

= Total Water Loss + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	?	10	125.0	miles
Number of active AND inactive service connections:	?	9	8,314	
Connection density:			67	conn./mile main
Average length of customer service line:	?	10		ft (pipe length between curbstop and customer meter or property boundary)
Average operating pressure:	?	8	89.5	psi

COST DATA

Total annual cost of operating water system:	?	10	$5,853,414	$/Year
Customer retail unit cost (applied to Apparent Losses):	?	7		$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	?	10		$/acre-ft/yr

PERFORMANCE INDICATORS

Financial Indicators

Non-revenue water as percent by volume of Water Supplied:	100.0%
Non-revenue water as percent by cost of operating system:	0.0%
Annual cost of Apparent Losses:	$0
Annual cost of Real Losses:	

Operational Efficiency Indicators

Apparent Losses per service connection per day:	0.68 gallons/connection/day
Real Losses per service connection per day*:	183.11 gallons/connection/day
Real Losses per length of main per day*:	N/A
Real Losses per service connection per day per psi pressure:	2.05 gallons/connection/day/psi
Unavoidable Annual Real Losses (UARL):	62.83 million gallons/year
From Above, Real Losses = Current Annual Real Losses (CARL):	1,705.29 million gallons/year
Infrastructure Leakage Index (ILI) [CARL/UARL]:	8.84

* only the most applicable of these two indicators will be calculated

WATER AUDIT DATA VALIDITY SCORE:

*** YOUR SCORE IS: 79 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: Volume from own sources

2: Unauthorized consumption

3: Systematic data handling errors

For more information, click here to see the Grading Matrix worksheet