

TEXAS WATER DEVELOPMENT BOARD

P.O. BOX 13231, CAPITOL STATION

AUSTIN, TX 78711-3231

WATER AUDIT REPORTING FORM 2010

Texas Water Development Board Water Audit Worksheet

A. Water Utility General Information

- 1. Water Utility Name: _____
- 2. Contact:
 - 2a. Name _____
 - 2b. Telephone # _____
 - 2c. Email Address _____
- 3. Reporting Period: From _____ / _____ / _____ to _____ / _____ / _____
- 4. Source Water Utilization, percentage: Surface Water _____% Groundwater _____%

5. Population Served:

5a. Retail Population Served _____ **Assessment Scale**

5b. Wholesale Population Served _____

6. Utilities Length of Main Lines in Miles _____

7. Number of Wholesale Connections Served _____

8. Number of Retail Service Connections Served _____

9. Service Connection Density _____
(Number of retail service connections/Miles of main lines)

10. Average Yearly System Operating Pressure (psi) _____

11. Volume Units of Measure (check one):
_____ acre-ft _____ million gallons _____ thousand gallons _____ gallons

B. System Input Volume

12. Produced Water _____

13. Production Meter Accuracy (enter percentage) _____%

14. Corrected Input Volume _____

15. Water Imported _____

16. Water Exported _____

17. **System Input Volume** _____

C. Authorized Consumption

**Assessment
Scale**

18. Billed Metered	_____	_____
19. Billed Unmetered	_____	_____
20. Unbilled Metered	_____	_____
21. Unbilled Unmetered (Please see instructions for this subcategory)	_____	_____
22. Total Authorized Consumption	_____	

D. Water Losses

23. Water Losses (*Line 17 minus Line 22*) _____

E. Apparent Losses

24. Average Customer Meter Accuracy (<i>Enter percentage</i>)	_____ %	_____
25. Customer Meter Accuracy Loss	_____	
26. Systematic Data Handling Discrepancy	_____	_____
27. Unauthorized Consumption (Please see instructions for this subcategory)	_____	_____
28. Total Apparent Losses	_____	

F. Real Losses

29. Reported Breaks and Leaks (<i>Estimated volume of leaks and breaks repaired during the audit period</i>)	_____	_____
30. Unreported Loss (<i>Includes all unknown water loss</i>)	_____	_____
31. Total Real Losses (<i>Line 29, plus Line 30</i>)	_____	
32. Total Water loss (<i>Apparent + Real</i>) (<i>Line 28 plus Line 31</i>) = <i>Line 23</i>	_____	
33. Non-revenue Water (Water Losses + Unbilled Authorized Consumption) (<i>Line 32, plus Line 20, plus Line 21</i>) (<i>Corrected input volume, plus imported water, minus exported water</i>)	_____	

G. Technical Performance Indicator for Apparent Loss

34. Apparent Losses Normalized _____

H. Technical Performance Indicator for Real Loss

35. Real Loss Volume (*Line 31*) _____

36. Unavoidable Annual Real Losses, volume (calculated) _____

UARL calculation only applies if you have greater than 3000 total connections

37. Infrastructure Leakage Index _____

ILI calculation only applies if you have greater than 3000 total connections

38. Real Losses Normalized _____

(Real Loss Volume/# of Service Connections/365)

(This indicator applies if service connection density is greater than 32/mile)

39 Real Losses Normalized (Real Loss Volume/Miles of Main Lines/365) _____

(This indicator applies if service connection density is less than 32/mile)

I. Financial Performance Indicators

40. Total Apparent Losses (*Line 28*) _____

41. Retail Price of Water _____

42. Cost of Apparent Losses _____

(Apparent loss volume multiplied by retail cost of water, Line 40 x Line 41)

43. Total Real Losses (*Line 31*) _____

44. Variable Production Cost of Water* _____

*(*Note: In case of water shortage, real losses might be valued at the retail price of water instead of the variable production cost.)*

45. Cost of Real Losses _____

(Real loss multiplied by variable production cost of water, Line 43 x Line 44)

46. Total Assessment Score _____

47. Total Cost Impact of Apparent and Real Losses _____

