

TEXAS WATER DEVELOPMENT BOARD

P.O. BOX 13231, CAPITOL STATION

AUSTIN, TX 78711-3231

2025 WATER AUDIT REPORT

General Information

A. Water Utility General Information

1. Water Utility Name: CITY OF GLENN HEIGHTS

1a. Regional Water Planning Area: C

☒ Having more than 3,300 connections

☐ Having received financial assistance from TWDB

☒ Every five years

1b. Address: 1938 S HAMPTON RD

GLENN HEIGHTS, TX 75154-8534

2. Contact Information

2a. Auditor Name: Emilio Reyna

Have you completed Water Loss Auditor Training?

2b. Telephone Number: (214) 878-4256

☒ Yes

2c. Email Address: emilio.reyna@glennheightstx.gov

☐ No

3. Reporting Period:

3a. Start Date: 01/01/2025

3b. End Date: 12/31/2025

4. Source Water Utilization:

4a. Surface Water: 100.00 %

4b. Ground Water: 0.00 %

5. Retail Population Served: 20,978

6. Length of Mains LM: 95.89 miles

7. Total Retail Metered Connections - Active and Inactive: 7,485

8. Service Connections SC: 7,513

9. Service Connection Density: 78.35 connections per mile

10. Average Operating Pressure AOP: 85.00 psi

11. Volume Units of Measure: Gallons

Input and Consumption

B. System Input Volume

12. Volume of Water Intake: 0 gallons

13. Volume Treated VT: 0 gallons

13a. Volume Treated Meter Accuracy VTMA: 0.00 %

13b. Corrected Volume Treated: 0 gallons

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14. Treated Purchased TP:	874,352,000	gallons
14a. Treated Purchased Meter Accuracy TPMA:	100.20	%
14b. Corrected Treated Purchased:	872,606,786	gallons
15. Treated Sales (Wholesale) TS:	0	gallons
15a. Treated Sales Meter Accuracy TSMA:	0.00	%
15b. Corrected Treated Sales:	0	gallons
15c. Percent of Treated Sales Transported through the Treated Distribution System:	0	%
16. Total System Input Volume: Line 13b + Line 14b - Line 15b	872,606,786	gallons

C. Authorized Consumption

17. Billed Metered BMAC:	711,936,000	gallons
18. Billed Unmetered BUAC:	0	gallons
19. Unbilled Metered UMAC:	2,075,390	gallons
20. Unbilled Unmetered UUAC:	1,779,840	gallons
21. Total Authorized Consumption:	715,791,230	gallons

D. Water Loss

22. Water Loss: Line 16 - Line 21	156,815,556	gallons
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E. Apparent Loss

23. Customer Meter Accuracy CMA:	98.00	%
24. Customer Meter Accuracy Loss:	14,529,306	gallons
25. Systematic Data Handling Errors SDHE:	1,779,840	gallons
26. Unauthorized Consumption UC:	1,779,840	gallons
27. Total Apparent Loss:	18,088,986	gallons

F. Real Loss

28. Reported Breaks and Leaks:	7,173,345	gallons
29. Unreported Loss:	131,553,225	gallons
30. Total Real Loss: Line 28 + Line 29	138,726,570	gallons
31. Total Water Loss: Line 27 + Line 30	156,815,556	gallons
32. Non-Revenue Water: Line 31 + Line 19 + Line 20	160,670,786	gallons

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Water Loss KPIs**G. Technical Performance Indicator for Apparent Loss**

33. Apparent Loss per Connection per Day:	6.60	gallons
Line 27 / Line 8 / 365		

H. Technical Performance Indicators for Real Loss

34. Total Real Loss:	138,726,570	gallons
Line 30		

35. Unavoidable Annual Real Loss (UARL):	51,058,305	gallons
(5.41 * Line 6 + (Line 8 * 0.15)) * 365 * Line 10		

36. Infrastructure Leakage Index (ILI):	2.72	gallons
Line 34 / Line 35		

37. Real Loss per Connection per Day:	50.59	gallons
Line 34 / Line 8 / 365		

38. Real Loss per Mile per Day:	0.00	gallons
Line 34 / Line 6 / 365		

I. Technical Performance Indicator for Water Loss

39. Total Water Loss per Connection per Day:	57.19	gallons
Line 22 / Line 8 / 365		

J. Financial Performance Indicators

40. Total Apparent Loss:	18,088,986	gallons
Line 27		

41. Retail Price of Water RPW:	0.00296	\$ per gallon

42. Cost of Apparent Loss:	\$53,543	
Line 40 x Line 41		

43. Total Real Loss:	138,726,570	gallons
Line 30		

44. Variable Production Cost VPC:	0.002375	\$ per gallon

45. Cost of Real Loss:	\$329,476	
Line 43 x Line 44		

46. Total Cost of Water Loss:	\$383,019	
Line 42 + Line 45		

K. Gallons per Capita per Day (GPCD) for Water Conservation Planning

47. GPCD Input:	114	
Line 16 / Line 5 / 365		

48. GPCD Loss:	20	

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Line 31 / Line 5 / 365

Comments

General Information:

Input & Consumption:

Water Loss:

Water Loss KPIs:

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Assessment Report

Length of Mains LM =	8
Service Connections SC =	5
Average Operating Pressure AOP =	6
Volume Treated VT =	0
Volume Treated Meter Accuracy VTMA =	0
Treated Purchased TP =	10
Treated Purchased Meter Accuracy TPMA =	3
Treated Sales TS =	0
Treated Sales Meter Accuracy TSMA =	0
Billed Metered Authorized Consumption BMAC =	8
Billed Unmetered Authorized Consumption BUAC =	0
Unbilled Metered Authorized Consumption UMAC =	4
Unbilled Unmetered Authorized Consumption UUAC =	3
Customer Meter Accuracy CMA =	3
Systematic Data Handling Errors SDHE =	3
Unauthorized Consumption UC =	3
Retail Price of Water RPW =	5
Variable Production Cost VPC =	8

Final Assessment Score =

74

PRIORITY AREAS FOR ATTENTION TO IMPROVE DATA VALIDITY

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