

# Water Conservation City of Willow Park 2025

*Prepared By:*

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## **ATTACHMENTS**

- Attachment 1* Ordinance Adopting Water Conservation Plan
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- Attachment 3* Letter to Regional Water Planning Group

## **WATER CONSERVATION PLAN**

### **1.1 General**

This Conservation Plan has been developed to meet the requirements of 30 TAC §288.2 for the City of Willow Park which is a retail public water supplier of treated water to residents located in Parker County.

### **1.2 Utility Profile**

See Attachment #2- Texas Water Development Board (TWDB) Utility Profile (Form --TWDB-1965)

The City of Willow Park currently provides water for a retail population of approximately 6,630. The municipal use public water supply utility profile for Willow Park is included in Attachment #2.

The City's treated water is stored in three elevated storage tanks, 625,000 gallons, and eleven ground storage tanks, 1,308,000 gallons. The City of Willow Park serves approximately 2,361 service connections.

### **1.3 Water Conservation Goals**

Five year (2025-2030) per capita water usage figures are shown in the table below for residential usage and overall usage. Five and ten-year reductions are also shown for both types. These 5- and 10-year goals are in line with the overall water conservation goals outlined by both the State of Texas and the Region C Planning Group.

	<b>5-yr. avg</b>	<b>5-year (2030) goal</b>	<b>10-year {2035}goal</b>
Residential (gpcd)	81	78	75
Total (gpcd)	137	134	131
Water Loss (gpcd)	22	19	17

### **1.4 Schedule for Implementing Plan to Achieve Targets and Goals**

The City will adhere to the following schedule, to achieve the targets and goals for water conservation:

1. Production meters on wells shall be tested annually
2. The City meter replacement program includes monitoring of the accuracy of existing meters annually and replacing meters as needed
3. Water audits shall be conducted annually:
  - Real water losses shall be identified and corrected

- Real water losses shall be minimized by replacement of deteriorating water mains and appurtenances by the City staff on an on-going basis
4. The City will make available for viewing at City Hall water conservation materials developed by the staff, materials obtained from the Texas Water Development Board, Texas Commission on Environmental Quality or other sources.

### **1.5 Tracking Targets and Goals**

The City's Designed Conservation Coordinator, the Public Works Director or his or her representative, shall track targets and goals by utilizing the following procedures:

- Logs shall be maintained for meter calibration, meter testing, and meter replacement programs
- Annual water audits shall be documented and kept in the Utility Department files
- Rates shall be tracked by means of ordinances adopted

### **1.6 Metering Devices**

All metering devices used by the City to meter water are accurate to within plus or minus 5%. The City repairs or replaces meters, which appear to have high or low water usage. Incorporated into the Water Conservation Plan, the City has set up the following meter testing schedule:

- Master Meters - calibrated once a year
- All distribution meters - monitored and tested when unusual flows are observed

The City has a computer billing system, which handles all the billing. The system compares meter readings monthly and notes dramatic changes.

### **1.7 Water Use/ Water Loss**

The City utilizes a record management program which includes water purchased, water sold, water loss and daily average water usage. In addition, the City separates water users and sales into categories of residential, commercial and industrial on the Excel Spread sheet that tracks monthly gallons of water for each category. The detailed record management can be found on both the City's Excel Spread sheet and Billing Software. The City's Designed Conservation Coordinator, the Public Works Director or his or her representative, visually inspects distribution lines for leaks on a daily basis and repairs reported and visually detected leaks in a timely manner.

### **1.8 Continuing Public Education Information**

At their main office, the City has posted information. As well as provided pre-printed brochures, etc. pertaining to water conservation, which water customers can view and pickup at their convenience. The City also holds monthly council meetings that are open to the public, where questions and comments can be discussed with the City's Designed Conservation Coordinator, the Public Works Director or his or her representative, pertaining to water conservation. The City periodically sends mail outs to its customers. The mail outs include information and educational tips pertaining to water conservation.

### 1.9 Non-Promotional Water Rate Structure

The City has adopted a non-promotional water rate structure as outlined below. With a water rate structure which includes a per thousand gallon charge, the City shifts the cost of supplying water to those customers who use water the most. The rates contained in this plan are subject to change as deemed appropriate and necessary by City Council.

Volumetric Charge	Residential	Residential Sr.	Res. Outside (ETJ)
0-9,000 gal	\$3.97	\$2.92	\$5.96
9,000-20,000 gal	\$4.97	\$4.97	\$7.46
20,001- 40,000 gal	\$6.20	\$6.20	\$9.30
40,000 + gal	\$7.75	\$7.75	\$11.63

Volumetric Charge	Commercial	Irrigation
0-25,000 gal	\$3.97	\$4.97
25,001-50,000 gal	\$4.97	\$6.20
50,001 + gal	\$6.20	\$7.75

### 1.10 Enforcement Procedure & Plan Adoption

This water conservation plan has been adopted by the City on and a copy of the Ordinance adopting the Plan is included in Attachment #1. The adopted Plan will be enforced by the City by providing water service only to customers complying with the Plan and discontinuing service to customers who do not pay their water bills or refuse to comply with the Plan.

### 1.11 Coordination with Region C Planning Group

The service area of the City of Willow Park is located within the Region C water planning area and the City has provided a copy of this water conservation plan to Region C Planning Group. A copy of the cover letter is provided in Attachment #3.

### 1.12 Plan Review and Update

The City will review and update this water conservation plan, as needed, based on new or updated information, such as adoption or revision of the regional water plan. The water conservation plan will be updated again before July 4, 2030 and every five (5) years thereafter.

# Attachment 1: Ordinance Adopting Water Conservation Plan

**ORDINANCE ADOPTION OF A  
PUBLIC WATER SUPPLIERS  
WATER CONSERVATION PLAN**

ORDINANCE NO. \_\_\_\_\_

**A REVISED AND UPDATED ORDINANCE OF THE CITY COUNCIL, ADOPTING A  
WATER CONSERVATION PLAN FOR THE CITY OF WILLOW PARK AND  
PROVIDING FOR DECLARATIONS OF POLICY EDUCATION; COORDINATION  
WITH REGIONAL PLANNING GROUPS; AUTHORIZATION; APPLICATIONS;  
DEFINITIONS; TRIGGERING CRITERIA FOR INITIATION AND TERMINATION  
OF DROUGHT RESPONSE STAGES; ENFORCEMENT; VARIANCES;  
SEVERABILITY'S PUBLICATION; AND AN EFFECTIVE DATE.**

WHEREAS, the City Council recognizes that the amount of water available to the City of WILLOW PARK and to its water customers is limited and subject to depletion during periods of extended drought;

WHEREAS, the City of WILLOW PARK recognizes that natural limitations due to drought conditions and other acts of God cannot guarantee an uninterrupted water supply for all purposes;

WHEREAS, as authorized under law, and in the best interest of customers of the City of WILLOW PARK, the City Council deems it expedient and necessary to establish certain rules and policies for the orderly and efficient management of limited water supplies during drought and other water supply emergencies;

NOW THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF WILLOW PARK:

SECTION 1. That the Water Conservation Plan attached hereto are hereby adopted as the official policy of the City of WILLOW PARK.

SECTION 2. That the City Secretary is hereby directed to implement, administer, and enforce the Water Conservation Plan.

SECTION 3. That this ordinance shall take effect \_\_\_\_\_ after publication per chapter 52.01 of the Local Government Code.

DULY PASSED BY THE CITY COUNCIL OF THE CITY OF WILLOW PARK, ON

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**APPROVED:**

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**MAYOR**

**ATTESTED TO:**

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**CITY SECRETARY**

**APPROVED AS TO FORM:**

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**City Attorney**

Attachment 2:  
Public Water Supply Utility Profile,  
Water Loss Audit, Goal Table

## UTILITY PROFILE FOR RETAIL WATER SUPPLIER

### CONTACT INFORMATION

Name of Utility: CITY OF WILLOW PARK

Public Water Supply Identification Number (PWS ID): TX1840027

Certificate of Convenience and Necessity (CCN) Number: 11814

Surface Water Right ID Number: \_\_\_\_\_

Wastewater ID Number: 20773

Contact: First Name: Christine Last Name: Guelker  
 Title: Public Works Director

Address: 120 El Chico, Suite A City: WILLOW PARK State: TX

Zip Code: 76087 Zip+4: 0 Email: mguelker@willowpark.org

Telephone Number: 8174417708 Date: 4/24/2024

Is this person the designated Conservation Coordinator?  Yes  No

Regional Water Planning Group: C

Groundwater Conservation District: \_\_\_\_\_

Our records indicate that you:

- Received financial assistance of \$500,000 or more from TWDB
- Have 3,300 or more retail connections
- Have a surface water right with TCEQ

**A. Population and Service Area Data**

1. Current service area size in square miles: \_\_\_\_\_

Attached file(s):

File Name	File Description
WP_WATER_GRID_200(002).pdf	Water Map

## UTILITY PROFILE FOR RETAIL WATER SUPPLIER

2. Historical service area population for the previous five years, starting with the most current year.

Year	Historical Population Served By Retail Water Service	Historical Population Served By Wholesale Water Service	Historical Population Served By Wastewater Water Service
2023	5,670	0	1,012
2022	5,585	0	952
2021	7,500	0	870
2020	7,500	0	810
2019	5,500	0	810

3. Projected service area population for the following decades.

Year	Projected Population Served By Retail Water Service	Projected Population Served By Wholesale Water Service	Projected Population Served By Wastewater Water Service
2030	8,080	0	2,990
2040	9,714	0	3,886
2050	11,560	0	5,202
2060	13,501	0	6,251
2070	15,638	0	8,601

4. Described source(s)/method(s) for estimating current and projected populations.

TWDB Adopted Projected Population.

## UTILITY PROFILE FOR RETAIL WATER SUPPLIER

### B. System Input

System input data for the previous five years.

Total System Input = Self-supplied + Imported – Exported

Year	Water Produced in Gallons	Purchased/Imported Water in Gallons	Exported Water in Gallons	Total System Input	Total GPCD
2023	231,643,630	125,159,073	0	356,802,703	172
2022	239,076,717	97,853,750	0	336,930,467	165
2021	268,112,159	32,087,783	0	300,199,942	110
2020	279,739,452	794,179	0	280,533,631	102
2019	268,768,552	0	0	268,768,552	134
<b>Historic Average</b>	257,468,102	51,178,957	0	308,647,059	137

### C. Water Supply System

1. Designed daily capacity of system in gallons	5,000,000
2. Storage Capacity	
2a. Elevated storage in gallons:	625,000
2b. Ground storage in gallons:	1,308,000

## UTILITY PROFILE FOR RETAIL WATER SUPPLIER

### D. Projected Demands

1. The estimated water supply requirements for the next ten years using population trends, historical water use, economic growth, etc.

Year	Population	Water Demand (gallons)
2025	6,160	770,000
2026	6,460	807,500
2027	6,817	852,125
2028	7,203	900,375
2029	7,610	951,250
2030	8,080	1,010,000
2031	8,280	1,035,000
2032	8,530	1,066,250
2033	8,790	1,098,750
2034	9,060	1,132,500

2. Description of source data and how projected water demands were determined.

TWDB Projections interpolation to year.

### E. High Volume Customers

1. The annual water use for the five highest volume **RETAIL** customers.

Customer	Water Use Category	Annual Water Use	Treated or Raw
WHATABURGER	Agricultural	10,594,600	Treated
GATES AT MEADOW PLACE	Residential	7,989,470	Treated
OLYMPUS	Residential	6,610,590	Treated
CANVAS	Residential	6,306,530	Treated
CANVAS	Agricultural	4,530,560	Treated

2. The annual water use for the five highest volume **WHOLESALE** customers.

Customer	Water Use Category	Annual Water Use	Treated or Raw
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## UTILITY PROFILE FOR RETAIL WATER SUPPLIER

### F. Utility Data Comment Section

Additional comments about utility data.

Attached file(s):

File Name	File Description
Consumption Summary Report.xlsx	

### Section II: System Data

#### A. Retail Water Supplier Connections

1. List of active retail connections by major water use category.

Water Use Category Type	Total Retail Connections (Active + Inactive)	Percent of Total Connections
Residential - Single Family	2,065	81.78 %
Residential - Multi-Family	261	10.34 %
Industrial	0	0.00 %
Commercial	108	4.28 %
Institutional	29	1.15 %
Agricultural	62	2.46 %
<b>Total</b>	2,525	100.00 %

2. Net number of new retail connections by water use category for the previous five years.

Net Number of New Retail Connections							
Year	Residential - Single Family	Residential - Multi-Family	Industrial	Commercial	Institutional	Agricultural	Total
<b>2023</b>	2,065	7		108	29	62	2,271
<b>2022</b>	2,042	6		152	28	10	2,238
<b>2021</b>	1,974			164		11	2,149
<b>2020</b>	1,913			140		8	2,061
<b>2019</b>	1,893			128	16		2,037

## UTILITY PROFILE FOR RETAIL WATER SUPPLIER

### B. Accounting Data

The previous five years' gallons of RETAIL water provided in each major water use category.

Year	Residential - Single Family	Residential - Multi-Family	Industrial	Commercial	Institutional	Agricultural	Total
2023	203,019,496	26,655,439	0	31,409,865	12,193,782	51,434,716	324,713,298
2022	208,546,534	15,278,630	0	31,584,535	13,432,251	37,905,333	306,747,283
2021	101,105,382	62,893,851	0	54,442,378	11,572,599	10,217,445	240,231,655
2020	132,684,157	9,365,493	0	39,793,858	14,834,249	8,025,495	204,703,252
2019	142,854,614	0	0	45,502,193	5,646,595	0	194,003,402

### C. Residential Water Use

The previous five years residential GPCD for single family and multi-family units.

Year	Total Residential GPCD
2023	113
2022	110
2021	60
2020	52
2019	71
Historic Average	81

## UTILITY PROFILE FOR RETAIL WATER SUPPLIER

### D. Annual and Seasonal Water Use

1. The previous five years' gallons of treated water provided to RETAIL customers.

Month	Total Gallons of Treated Water				
	2023	2022	2021	2020	2019
January	21,794,411	18,995,334	17,831,000	16,808,349	16,250,909
February	21,317,082	19,406,105	17,610,932	16,922,354	14,984,635
March	19,519,592	17,251,240	19,674,984	18,141,469	17,625,051
April	27,101,062	25,833,731	22,997,059	20,281,748	19,397,939
May	32,640,953	31,615,561	19,733,277	23,614,477	19,278,879
June	33,192,231	36,389,767	20,081,448	29,874,493	21,546,168
July	45,120,953	42,924,365	32,672,771	34,703,964	29,504,534
August	51,007,972	42,559,117	42,152,953	34,414,585	33,393,867
September	42,621,695	30,444,463	32,750,055	23,076,823	31,058,448
October	24,524,093	24,063,999	24,022,473	23,763,947	23,256,333
November	20,328,015	24,311,044	221,961,182	20,071,307	18,893,835
December	15,545,107	23,135,741	19,508,938	18,065,936	18,202,583
<b>Total</b>	354,713,166	336,930,467	490,997,072	279,739,452	263,393,181

## UTILITY PROFILE FOR RETAIL WATER SUPPLIER

2. The previous five years' gallons of raw water provided to RETAIL customers.

Month	Total Gallons of Raw Water				
	2023	2022	2021	2020	2019
January					
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					
<b>Total</b>					

3. Summary of seasonal and annual water use.

	Summer RETAIL (Treated + Raw)	Total RETAIL (Treated + Raw)
2023	129,321,156	354,713,166
2022	121,873,249	336,930,467
2021	94,907,172	490,997,072
2020	98,993,042	279,739,452
2019	84,444,569	263,393,181
<b>Average in Gallons</b>	105,907,837.60	345,154,667.60

## UTILITY PROFILE FOR RETAIL WATER SUPPLIER

### E. Water Loss

Water Loss data for the previous five years.

Year	Total Water Loss in Gallons	Water Loss in GPCD	Water Loss as a Percentage
2023	31,277,622	15	8.19 %
2022	23,033,875	11	6.66 %
2021	56,074,808	20	18.18 %
2020	70,893,714	26	25.49 %
2019	71,405,543	36	26.86 %
<b>Average</b>	50,537,112	22	17.08 %

### F. Peak Day Use

Average Daily Water Use and Peak Day Water Use for the previous five years.

Year	Average Daily Use (gal)	Peak Day Use (gal)	Ratio (peak/avg)
2023	971,816	1405664	1.4464
2022	923,097	1324709	1.4351
2021	1,345,197	1031599	0.7669
2020	766,409	1076011	1.4040
2019	721,625	917875	1.2720

### G. Summary of Historic Water Use

Water Use Category	Historic Average	Percent of Connections	Percent of Water Use
<b>Residential - Single Family</b>	157,642,036	81.78 %	62.04 %
<b>Residential - Multi-Family</b>	22,838,682	10.34 %	8.99 %
<b>Industrial</b>	0	0.00 %	0.00 %
<b>Commercial</b>	40,546,565	4.28 %	15.96 %
<b>Institutional</b>	11,535,895	1.15 %	4.54 %
<b>Agricultural</b>	21,516,597	2.46 %	8.47 %

## UTILITY PROFILE FOR RETAIL WATER SUPPLIER

### H. System Data Comment Section

I don't have any data for 2019 that is reliable. I came to the City in July of 2020, but any data prior to that point was incomplete. TWDB did assist by providing me with information from 2019 submissions.

### Section III: Wastewater System Data

#### A. Wastewater System Data

Attached file(s):

File Name	File Description
WP_MAP_SEWER SYSTEM_06-24-2019.pdf	

1. Design capacity of wastewater treatment plant(s) in gallons per day: 500,000

2. List of active wastewater connections by major water use category.

Water Use Category	Metered	Unmetered	Total Connections	Percent of Total Connections
<b>Municipal</b>	1,001		1,001	89.94 %
<b>Industrial</b>	5		5	0.45 %
<b>Commercial</b>	0		0	0.00 %
<b>Institutional</b>	100		100	8.98 %
<b>Agricultural</b>	7		7	0.63 %
<b>Total</b>	1,113		1,113	100.00 %

3. Percentage of water serviced by the wastewater system: 0.33 %

## UTILITY PROFILE FOR RETAIL WATER SUPPLIER

4. Number of gallons of wastewater that was treated by the utility for the previous five years.

Month	Total Gallons of Treated Water				
	2023	2022	2021	2020	2019
January	8,527,005	7,135,184	7,765,353	8,653,830	9,501,976
February	9,709,570	6,960,083	7,411,200	9,113,816	6,708,863
March	10,140,840	7,243,460	8,509,841	13,726,237	8,028,702
April	8,344,618	6,161,275	8,384,669	8,071,981	9,632,743
May	9,449,086	8,035,216	14,499,752	8,811,623	13,788,082
June	8,046,239	12,195,981	12,195,981	8,231,189	9,250,222
July	8,048,881	7,498,161	8,459,768	7,083,115	6,410,167
August	7,720,837	8,235,984	8,523,196	6,389,134	6,319,310
September	7,600,889	7,469,256	7,677,467	7,444,120	5,954,088
October	9,901,816	7,801,478	7,749,780	6,423,306	6,806,242
November	9,365,589	7,219,759	7,219,759	6,368,985	7,150,224
December	9,770,458	7,422,503	7,422,503	6,703,369	6,996,458
<b>Total</b>	106,625,828	93,378,340	105,819,269	97,020,705	96,547,077

5. Could treated wastewater be substituted for potable water?

Yes
  No

### B. Reuse Data

1. Data by type of recycling and reuse activities implemented during the current reporting period.

Type of Reuse	Total Annual Volume (in gallons)
On-site Irrigation	
Plant wash down	
Chlorination/de-chlorination	
Industrial	
Landscape irrigation (park, golf courses)	0
Agricultural	
Discharge to surface water	0
Evaporation Pond	0
Other	
<b>Total</b>	0

## UTILITY PROFILE FOR RETAIL WATER SUPPLIER

### C. Wastewater System Data Comment

Additional comments and files to support or explain wastewater system data listed below.

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**TEXAS WATER DEVELOPMENT BOARD**  
P.O. BOX 13231, CAPITOL STATION  
AUSTIN, TX 78711-3231  
**2024 WATER AUDIT REPORT**

**A. Water Utility General Information**

1. Water Utility Name	<u>CITY OF WILLOW PARK</u>		
1a. Regional Water Planning Area	<u>C</u>		
1b. Address	<u>516 RANCH HOUSE RD</u>		
	<u>WILLOW PARK, TX 76087-7626</u>		
2. Contact Information			
2a. Name	<u>Christine Guelker</u>	Have you completed Water Loss Auditor Training?	
2b. Telephone Number	<u>(817) 441-7708</u>	<input checked="" type="radio"/> Yes	
2c. Email Address	<u>mguelker@willowpark.org</u>	<input type="radio"/> No	
3. Reporting Period			
3a. Start Date	<u>12/16/2023</u>		
3b. End Date	<u>12/15/2024</u>		
4. Source Water Utilization			
4a. Surface Water	<u>42.00</u>	%	
4b. Ground Water	<u>58.00</u>	%	
5. Population Served			
5a. Retail Population Served	<u>6,630</u>		Assessment Scale
5b. Wholesale Population Served	<u>0</u>		
6. Utility's Length of Main Lines	<u>57.00</u>	miles	<u>4.5</u>
7. Total Retail Metered Connections - Active and Inactive	<u>2,299</u>		
7b. Service Connections	<u>2,361</u>		<u>4</u>
8. Number of Wholesale Connections Served	<u>0</u>		
9. Service Connection Density	<u>41.42</u>	connections per mile	
10. Average Yearly System Operating Pressure	<u>72.64</u>	psi	<u>3.5</u>
11. Volume Units of Measure	<u>Gallons</u>		

**B. System Input Volume**

12. Volume of Water Intake	<u>201,711,527</u>	gallons	
13. Produced Water	<u>201,711,527</u>	gallons	<u>3.5</u>
13a. Production Meter Accuracy	<u>99.34</u>	%	<u>1.5</u>
13b. Corrected Input Volume	<u>203,051,668</u>	gallons	
14. Total Treated Purchased Water	<u>162,292,269</u>	gallons	<u>5</u>
14a. Treated Purchased Water Meter Accuracy	<u>101.00</u>	%	<u>4.5</u>

**TEXAS WATER DEVELOPMENT BOARD**  
P.O. BOX 13231, CAPITOL STATION  
AUSTIN, TX 78711-3231  
**2024 WATER AUDIT REPORT**

14b. Corrected Treated Purchased Water Volume	160,685,415	gallons	
15. Total Treated Wholesale Water Sales	0	gallons	N/A
15a. Treated Wholesale Water Meter Accuracy	0.00	%	N/A
15b. Corrected Treated Wholesale Water Sales Volume	0	gallons	
<b>16. Total System Input Volume</b> Line 13b + Line 14b - Line 15b	<b>363,737,083</b>	gallons	
			Assessment Scale
<b>C. Authorized Consumption</b>			
17. Billed Metered	315,035,244	gallons	4
18. Billed Unmetered	0	gallons	5
19. Unbilled Metered	0	gallons	5
20. Unbilled Unmetered	787,588	gallons	1.5
<b>21. Total Authorized Consumption</b>	<b>315,822,832</b>	gallons	
<b>D. Water Losses</b>			
<b>22. Water Losses</b> Line 16 - Line 21	<b>47,914,251</b>	gallons	
<b>E. Apparent Losses</b>			
23. Average Customer Meter Accuracy	98.00	%	2
24. Customer Meter Accuracy Loss	6,429,291	gallons	
25. Systematic Data Handling Discrepancy	787,588	gallons	4.5
26. Unauthorized Consumption	787,588	gallons	3.5
<b>27. Total Apparent Losses</b>	<b>8,004,467</b>	gallons	
<b>F. Real Losses</b>			
28. Reported Breaks and Leaks	7,081,500	gallons	2.5
29. Unreported Loss	32,828,284	gallons	1.5
<b>30. Total Real Losses</b> Line 28 + Line 29	<b>39,909,784</b>	gallons	
<b>31. Total Water Losses</b> Line 27 + Line 30	<b>47,914,251</b>	gallons	
32. Non-Revenue Water Line 31 + Line 19 + Line 20	48,701,839	gallons	
<b>G. Technical Performance Indicator for Apparent Loss</b>			
33. Apparent Losses Normalized Line 27 / Line 7b / 365	9.29	gallons lost per connection per day	

**TEXAS WATER DEVELOPMENT BOARD**  
P.O. BOX 13231, CAPITOL STATION  
AUSTIN, TX 78711-3231  
**2024 WATER AUDIT REPORT**

**H. Technical Performance Indicators for Real Loss**

34. Real Loss Volume Line 30	<u>39,909,784</u>	gallons
35. Unavoidable Annual Real Losses Volume (5.41 * Line 6 + (Line 7b * 0.15 )) * 365 * Line 10	<u>0</u>	gallons
36. Infrastructure Leakage Index Line 34 / Line 35	<u>0.00</u>	I.L.I
37. Real Losses Normalized - Service Connections Line 34 / Line 7b / 365	<u>46.31</u>	gallons lost per connection per day
38. Real Losses Normalized - Main Lines Line 34 / Line 6 / 365	<u>0.00</u>	gallons lost per mile per day

**I. Financial Performance Indicators**

Assessment  
Scale

39. Total Apparent Losses Line 27	<u>8,004,467</u>	gallons
40. Retail Price of Water	<u>0.00635</u>	\$/gallons <span style="float: right; border-bottom: 1px solid black;">4</span>
41. Cost of Apparent Losses Line 39 x Line 40	<u>\$50,828</u>	
42. Total Real Losses Line 30	<u>39,909,784</u>	gallons
43. Variable Production Cost of Water	<u>0.001800</u>	\$/gallons <span style="float: right; border-bottom: 1px solid black;">4</span>
44. Cost of Real Losses Line 42 x Line 43	<u>\$71,838</u>	
45. Total Cost Impact of Apparent and Real Losses Line 41 + Line 44	<u>\$122,666</u>	
46. Total Assessment Score	<u>74</u>	

**J. System Losses and Gallons Per Capita per Day (GPCD)**

47. Total Water Loss per Connection per Day Line 22 / Line 7b / 365	<u>55.60</u>	gallons
	<u>150</u>	
48. GPCD Input Line 16 / Line 5a / 365	<u>20</u>	
49. GPCD Loss Line 31 / Line 5a / 365		

**K. Wholesale Factor Adjustments**

50. Percent of Treated Wholesale Water Traveling through General Distribution System	<u>100.00</u>	%
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51. Volume of Treated Wholesale Water Traveling through General Distribution System (Line 50/100) * Line 15b	<u>0</u>	gallons
52. Wholesale Factor Line 15b / (Line 13b + Line 14b)	<u>0.00</u>	
53. Adjusted Real Loss Volume ((1 - Line 52) x (Line 30 * Line 50 / 100)) + (Line 30 - (Line 30 * Line 50/100))	<u>39,909,784</u>	gallons
54. Adjusted Cost of Real Losses ((1 - Line 52) x (Line 44 * Line 50 / 100)) + (Line 44 - (Line 44 * Line 50/100))	<u>\$71,838</u>	
55. Adjusted Total Water Loss Volume ((1 - Line 52) x (Line 31 * Line 50 / 100)) + (Line 31 - (Line 31 * Line 50/100))	<u>47,914,251</u>	gallons
56. Adjusted Total Cost Impact of Apparent and Real Losses ((1 - Line 52) x (Line 45 * Line 50 / 100)) + (Line 45 - (Line 45 * Line 50/100))	<u>\$122,666</u>	
57. Adjusted Real Loss Per Connection ((1 - Line 52) x (Line 37 * Line 50 / 100)) + (Line 37 - (Line 37 * Line 50/100))	<u>46.31</u>	gallons lost per connection per day
58. Adjusted Real Loss Per Mile ((1 - Line 52) x (Line 38 * Line 50 / 100)) + (Line 38 - (Line 38 * Line 50/100))	<u>0.00</u>	gallons lost per mile per day
59. Adjusted Infrastructure Leakage Index ((1 - Line 52) x (Line 36 * Line 50 / 100)) + (Line 36 - (Line 36 * Line 50/100))	<u>0.00</u>	I.L.I
60. Adjusted Total Water Loss Per Connection Per Day (((1 - Line 52) x (Line 37 * Line 50 / 100)) + (Line 37 - (Line 37 * Line 50/100))) + Line 33	<u>55.60</u>	gallons
61. Adjusted GPCD Loss (Line 49 - (Line 49 * Line 50/100)) + (1 - Line 52) x (Line 49 * Line 50 / 100)	<u>20</u>	

**Comments**

## WATER CONSERVATION PLAN 5- AND 10-YR GOALS FOR WATER SAVINGS

Facility Name: City of Willow Park

Water Conservation Plan Year: 2024

	<b>Historic 5yr Average</b>	<b>Baseline</b>	<b>5-yr Goal for year <u>2029</u></b>	<b>10-yr Goal for year <u>2034</u></b>
Total GPCD <sup>1</sup>	137	137	134	129
Residential GPCD <sup>2</sup>	81	81	78	75
Water Loss (GPCD) <sup>3</sup>	22	22	19	17

1. Total GPCD = (Total Gallons in System ÷ Permanent Population) ÷ 365
2. Residential GPCD = (Gallons Used for Residential Use ÷ Residential Population) ÷ 365
3. Water Loss GPCD = (Total Water Loss ÷ Permanent Population) ÷ 365

# Attachment 3: Letter to Regional Water Planning Group

Date:

Mr. Kevin Smith

Team Lead

Regional Water Planner

5300 S. Collins, Arlington, TX 76018

Dear Mr. Smith:

This letter is to notify you that the City of Willow Park recently adopted a water conservation and drought contingency plan, this notice is in accordance with the Texas Water Development Board and Texas Commission on Environmental Quality rules.

Sincerely,

C. Michelle Guelker

Assistant City Manager of Operations