



RESOLUTION NO. 2019-038

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF FARMERS BRANCH, TEXAS ADOPTING A WATER CONSERVATION PLAN; AND PROVIDING AN EFFECTIVE DATE

WHEREAS, Texas Water Code §13.146 requires the Texas Commission on Environmental Quality (“TCEQ”) to require retail public utilities that provide potable water service to 3,300 or more connections to submit to the Texas Water Development Board (“TWDB”) a water conservation plan based on specific targets and goals developed by the retail public utility and using appropriate best management practices, or other water conservation strategies; and

WHEREAS, Texas Water Code further requires that the City update and revise the Water Conservation Plan for the City of Farmers Branch every five years; and

WHEREAS, the City Staff has presented an updated Water Conservation Plan for the City of Farmers Branch prepared in accordance with the provisions of Title 30, Ch. 288, Subch. A of the Texas Administrative Code which sets forth the requirements for a water conservation plan; and

WHEREAS, the City Council of the City of Farmers Branch, finds it in the public interest to adopt the Water Conservation Plan that has been presented;

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF FARMERS BRANCH, TEXAS THAT:

SECTION 1. The Water Conservation Plan set forth in Exhibit “A”, attached hereto and incorporated herein by reference, is hereby adopted as the policy of the City of Farmers Branch and replaces in its entirety the Water Conservation Plan adopted pursuant to Resolution No. 2014-031.

SECTION 2. The City Manager and the Director of Public Works, and those to whom either may delegate such authority, are hereby authorized to take such action as is reasonable and necessary to implement and enforce the policies, programs, and goals set forth in the Water Conservation Plan adopted hereby.

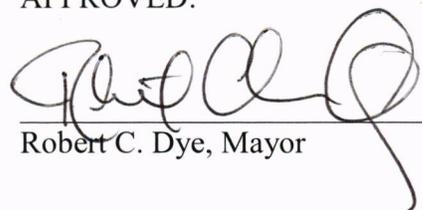
SECTION 3. This resolution shall be effective immediately upon passage.

PASSED AND APPROVED BY THE CITY COUNCIL OF THE CITY OF FARMERS BRANCH, TEXAS, THIS 21st DAY OF MAY 2019.

ATTEST:


Amy Piukana, TRMC, City Secretary

APPROVED:


Robert C. Dye, Mayor

APPROVED AS TO FORM:



Peter G. Smith, City Attorney
(kbl:4/5/19:107161)

EXHIBIT "A"
WATER CONSERVATION PLAN

WATER CONSERVATION PLAN CITY OF FARMERS BRANCH, TEXAS

1.0 INTRODUCTION

The City of Farmers Branch (“the City”) recognizes that water is an essential resource for sustaining the growth and vitality of the City, the region and the State of Texas. Conserving water and avoiding water waste are important for the long-term sustainability of the City. This document sets forth the Water Conservation Plan of the City of Farmers Branch (referred to hereafter as “the Plan” or “this Plan”) adopted in compliance with the requirements of the Texas Commission on Environmental Quality rules contained in Title 30, Chapter 288 of the Texas Administrative Code. The objective of this Plan is to reduce the unnecessary consumption of water, reduce the loss or waste of water from the City’s water system and by City’s water customers, and improve efficiency in the use of water within the City.

2.0 APPLICATION

The provisions of this Plan shall apply to all persons, customers and properties utilizing water provided by the City. The terms “person” and “customer” as used in this Plan include individuals, corporations, partnerships, associations, and all other legal entities. This Plan is adopted and placed into effect by the City Council of the City of Farmers Branch.

In addition to this Plan, the City also has a Drought Contingency Plan providing for enforcement and penalties. Copies of the Drought Contingency Plan are available from the City upon request and can be found in Chapter 86, Article II of the Code of Ordinances of the City of Farmers Branch, Texas.

3.0 WATER UTILITY PROFILE

Profile data for the City of Farmers Branch water and wastewater systems is provided in Appendix “A”. This information includes population and customer data, water use data, water supply system data, and wastewater system data.

4.0 GOALS

As a result of that certain *Wholesale Treated Water Contract* effective August 1, 2010, between the City and the City of Dallas, the City has secured an ample water supply to provide for the projected present and future needs of the City’s customers. The City’s budget is structured such that operational and debt service needs depend upon revenues allocated from water sales. The City has an increasing block rate water structure that is intended to encourage water conservation and discourage excessive use and waste of water.

The City recognizes the state’s goals of water conservation and generally supports those goals. Therefore, the following goals are stated as guidelines for the City relative to achieving the conservation of water in conjunction with the operation of City’s water distribution system:

- 1) Encourage the conservation of water through a public education campaign utilizing the media, mail-outs and other avenues. Conservation messages will be conveyed at the times of the year when water use is expected to increase.
- 2) Continue to induce water conservation via rate structures.
- 3) Continue vigilance in preventive maintenance and active efforts to reduce water losses.
- 4) Maintain the City's ongoing meter testing and meter replacement programs.
- 5) Reduce the City's total per capita water consumption by up to one percent in five years, equating to a 2.6 gallon per capita per day (gpcd) reduction (2019 baseline goal annual gpcd of 262 multiplied by 1%), resulting in a 5-year goal of 259 gpcd in 2024, and by up to two percent in ten years, equating to a 5.2 gpcd reduction, resulting in a 10-year goal of 257 gpcd in 2029.
- 6) Reduce the City's residential per capita water consumption by up to one percent in five years, equating to a 1.0 gallon per capita per day (gpcd) reduction (2019 baseline goal annual gpcd of 101 multiplied by 1%), resulting in a 5-year goal of 100 gpcd in 2024, and by up to two percent in ten years, equating to a 2.0 gpcd reduction, resulting in a 10-year goal of 99 gpcd in 2029.
- 7) Reduce unaccounted for water from water production to the customers on the system by up to three percent in five years, equating to a 1.2 gpcd reduction (2019 baseline goal annual gpcd of 40 multiplied by 3%), resulting in a 5-year goal of 39 gpcd in 2024, and by up to five percent in ten years, equating to a 2.4 gpcd reduction, resulting in a 10-year goal of 38 gpcd in 2029.

The achievement of these goals assumes that customers will respond to conservation messages and population growth will occur to compensate for revenue losses.

5.0 REVIEW AND MODIFICATION OF PLAN

This Plan is subject to periodic review and modification as necessary.

6.0 SERVICE AREA DESCRIPTION

6.1 General

The City of Farmers Branch is an incorporated home rule municipality in the State of Texas whose City limits include approximately 12.1 square miles. The City provides water and sewer service to an approximate residential population of 31,590 people, and the City has an estimated daytime (combined residential and employment) population of 61,476 NCTCOG (Figures are based on the 2017 5-year ACS data from the US Census Bureau). All service provided by the City is within Dallas County, which is one of 16 counties that make up Regional Water Planning Group C as defined by the State of Texas and

administered by the Texas Water Development Board (TWDB) and the Texas Commission on Environmental Quality (TCEQ).

Population Data:

2018 – 31,590 (2018 NCTCOG Population Estimates City (2).csv)

Projected Population:

2020 – 31,846 (NCTCOG/interpolated)

2030 – 32,509 (TWDB)

2040 – 34,455 (TWDB)

2050 – 36,567 (TWDB)

2060 – 38,625 (TWDB)

2070 – 40,689 (TWDB)

6.2 Water

Water sources: Dallas Water Utilities (DWU)

Delivery Points:

Delivery Point 1:

Belt-Marsh Pump Station

Current DWU Rate of Flow Control Setting: 10.0 MGD

Maximum Delivery Capacity from DWU: 13.0 MGD
(from DWU and existing 18-inch ROFC)

Delivery Point 2:

Wicker Pump Station

Current DWU Rate of Flow Control Setting: 7.0 MGD

Maximum Delivery Capacity from DWU: 20.0 MGD
(from DWU and existing 20-inch ROFC)

Distribution System:

18,264 total retail metered connections in December of 2018 (includes all rate classes, active and inactive). System is 100% metered.

209 miles of pipe in the system:

Pipe sizes range from 4” to 24”

Elevated storage tanks:
One (1) 2 Million Gallon Elevated Tank
Three (3) 1.5 Million Gallon Elevated Tanks

Ground storage tanks:
Two (2) 5 Million Gallon Storage Tanks
Two (2) 1 Million Gallon Storage Tanks (one is for emergency use only)

6.3 Wastewater

The City currently maintains five (5) lift stations and force mains. These facilities transfer collected wastewater to existing gravity flow lines connecting into the Trinity River Authority (TRA) collection system, which in turn discharges to the TRA Central Wastewater Treatment Plant.

7.0 MEASUREMENT AND ACCOUNTING FOR WATER DELIVERIES

7.1 Master Meters

The Belt-Marsh Pump Station and Wicker Street Pump Station master meters measure the water pumped into the City's distribution system from Dallas Water Utilities' system. The meters are owned and monitored by Dallas Water Utilities. Calibration is performed quarterly by Dallas Water Utilities. Each meter is maintained to perform with commercial accuracy (+/- 2%).

7.2 Universal Meters

Water usage for all customers of the City of Farmers Branch, including public and governmental users, is metered. Meters range in size from 3/4" to 8". All meters are designed to provide accurate flows to within 5%. The City has the following programs for meter testing, meter maintenance and meter replacement:

- 1) 3/4 inch to 2 inch meters: If the City notices anomalies in readings, meters are checked and replaced as needed. Meter replacements average approximately 300 per year. Meters are also replaced as the City's Automated Meter Reading (AMR) program is phased in.
- 2) 3 inch to 8 inch meters: The large meter testing program tests a certain number of meters annually. The City also conducts an annual large-meter replacement program that allows for the necessary repair of parts or the replacement of meters in their entirety. Furthermore, AMR endpoints are added to large meters as they are tested, repaired and replaced.

8.0 PUBLIC EDUCATION AND INFORMATION

Pursuant to an established program, the City will periodically provide the public with information about water conservation measures including information about the conditions under which conservation measures are to be employed. Means of public notice could include, but not be limited to, direct mailings, the City's cable TV channel, the City's website, the City's newsletter, email, and social media. The City holds several well-attended gardening classes each year and includes information on the utilization of drought-tolerant plants and water conservation.

Promotional and educational materials include material developed by the City as well as material obtained from Dallas Water Utilities. Materials may also include those developed by the American Water Works Association, TWDB, TCEQ, and other sources. The City currently gives out low-flow showerheads and sink aerator replacements to the public.

Other water conservation incentive programs may be enacted in the future. Such programs could include:

- 1) Low-flow toilet replacement and rebate programs
- 2) Rebates for rain/freeze sensors on irrigation systems
- 3) Implementation of seasonal or peaking water rates

9.0 WATER RATES

The City has established a tiered water rate structure for various monthly consumption levels and different water meter sizes. When a customer reaches a specified consumption, the rate increases for all water use above the specified gallonage. The City's water rate structure is as follows:

- Monthly rate minimum (first 2,000 gallons of water or less, all meter sizes): \$20.94 per unit, plus any applicable oversize meter charges.
- 2,001 – 10,000 gallons: minimum rate plus \$5.72 per 1,000 gallons.
- 10,001 – 20,000 gallons: minimum rate plus \$6.41 per 1,000 gallons.
- 20,001 gallons and over: minimum rate plus \$7.36 per 1,000 gallons.

Oversize Meter Rates

- $\frac{5}{8}$ – $\frac{3}{4}$ -inch meter: no additional charge
- 1-inch meter: \$8.37 per meter per month
- 1 $\frac{1}{2}$ -inch meter: \$16.75 per meter per month
- 2-inch meter: \$39.70 per meter per month
- 3-inch meter: \$209.03 per meter per month
- 4-inch meter: \$271.73 per meter per month
- 6-inch meter: \$418.01 per meter per month
- 8-inch meter: \$585.23 per meter per month

10.0 LEAK DETECTION AND REPAIR

City crews and personnel regularly look for and report evidence of leaks in the water distribution system. Repairs are made in a timely manner. Areas of the water distribution system in which numerous leaks and line breaks occur are targeted for replacement as funds become available.

11.0 WATER ACCOUNTING

The City does monthly auditing comparing the amount of water pumped from Dallas Water Utilities (DWU) with the amount of water distributed through metered sales. A report is prepared outlining the monthly variance in percentage of water loss. The City also performs an annual audit comparing the same data on a calendar year basis. Periodic visual inspections along distribution lines and other preventative maintenance measures will also determine and control water loss.

12.0 PLUMBING CODES OR RULES ON WATER-CONSERVING FIXTURES

The State of Texas has required water-conserving fixtures in new construction and renovations since 1992. State (and similar federal) standards, including the 2015 International Residential Code (2015 IRC), adopted by the City, call for flows of no more than 2.2 gallons per minute (gpm) for faucets, 2.5 gpm for showerheads, and 1.6 gallons per flush for toilets (ref. Sec. P2903.2 2015 IRC). These state and federal standards assure that all new construction and renovations in the City will use water-conserving fixtures. Additionally, all new irrigation systems must be in compliance with state design and installation regulations.

13.0 REPORTING AND PERIODIC EVALUATION

The City, through adoption of this Plan, commits to report annually to the Executive Administrator of the Texas Water Development Board on the implementation, status and effectiveness of the Plan. The Director of Public Works of the City of Farmers Branch will periodically evaluate the Plan and prepare an annual report to the TWDB including the following information:

- 1) Progress in the Water Conservation Plan implementation.
- 2) Quantitative effectiveness in regard to:
 - a) Five and ten year goals for reducing total per capita water consumption.
 - b) Five and ten year goals for reducing unaccounted for water from water production to the customers on the system.
- 3) Public Education and Information Program

The City, through adoption of this Plan, commits to implement a record management system in order to record water pumped, and water sales for each of the following user classes:

- 1) Residential Single Family
- 2) Residential Multi-family
- 3) Commercial/Institutional/Industrial
- 4) Municipal

If the City chooses to utilize project financing by the TWDB to furnish water or wastewater services to another entity that will furnish services to end-users, the requirements for the Plan shall be met through contractual agreement between the entities at the earliest of the original execution, renewal or substantial amendment of the contract. The entity or entities furnishing end-user services would develop and adopt a Water Conservation Plan consistent with the requirements as described for the City.

14.0 AUTHORIZATION, IMPLEMENTATION, ENFORCEMENT AND TRACKING EFFECTIVENESS OF THE PLAN

Authorization for the establishment, implementation and enforcement of the Water Conservation Plan of the City of Farmers Branch is by City Resolution. A copy of the adopting resolution is provided in Appendix "B". The City Manager, or his or her designee, is authorized and directed to implement and enforce this Water Conservation Plan. The City of Farmers Branch Public Works Department and Finance Department administer and implement various components of the Water Conservation Plan within the City of Farmers Branch. The enforcement of the water rate structure is ongoing and automatic. Water use restrictions are implemented by the City Manager under the authorization of and in accordance with the City's Drought Contingency Plan. The Drought Contingency Plan was adopted by Ordinance and can be found in Chapter 86, Article II of the Code of Ordinances of the City of Farmers Branch, Texas. The effectiveness of the Water Conservation Plan will be monitored on an ongoing basis by City staff. The City determines the extent of water conservation by compiling implementation data, monitoring water consumption, modeling water demand and tracking water conservation costs. The Water Conservation Plan Annual Report, as outlined in Section 13.0 of this Plan, and required to be filed with the TWDB, will be submitted May 1 of each year.

15.0 COORDINATION WITH REGIONAL WATER PLANNING GROUP

The water service area of the City of Farmers Branch is located within the Region C Regional Water Planning Group area and a copy of the Plan was provided to the Region C Regional Water Planning Group (RWPG) upon adoption. A copy of the letter accompanying the Water Conservation Plan delivered to the RWPG is provided in Appendix "C".

APPENDIX "A"
TEXAS WATER DEVELOPMENT BOARD UTILITY PROFILE
FOR THE CITY OF FARMERS BRANCH, TEXAS

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

CONTACT INFORMATION

Name of Utility: City of Farmers Branch

Public Water Supply Identification Number (PWS ID): TX0570047

Certificate of Convenience and Necessity (CCN) Number: P0637

Surface Water Right ID Number: _____

Wastewater ID Number: _____

Contact: First Name: John Last Name: Roach

Title: Special Projects Manager

Address: 13000 William Dodson Pkwy. City: Farmers Branch State: TX

Zip Code: 75234 Zip+4: _____ Email: john.roach@farmersbranchtx.gov

Telephone Number: 9729192597 Date: _____

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: 12

Attached file(s):

File Name	File Description
City of Farmers Branch Service Area 2019 - StreetIndexMap.pdf	City of Farmers Branch Service Area 2019

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
2018	31,590	0	31,590
2017	31,560	0	31,560
2016	30,480	0	30,480
2015	30,530	0	30,530
2014	29,368	0	29,368

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
2020	31,846	0	31,846
2030	32,509	0	32,509
2040	34,455	0	34,455
2050	36,567	0	36,567
2060	38,625	0	38,625

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

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

Sources for Population Estimates:

2. Population for the Previous Five Years:

NCTCOG

<http://data-nctcoggis.opendata.arcgis.com/datasets/4bd25e2c02f84364af69132459f6f132>

3. Population for the Following Decades:

2020 interpolated from 2019 (NTCCOG).

Others from 2016 Regional Water Plan - Population Projections for 2020-2070
 City Summary
 Texas Water Development Board

http://www2.twdb.texas.gov/ReportServerExt/Pages/ReportViewer.aspx?%2fProjections%2fpop_City&rs:Command=Render

Note that the City of Farmers Branch has an Estimated Daytime Population of 61,476.

From NCTCOG (Figures are based on the 2017 5-year ACS data from the US Census Bureau).
<https://data-nctcoggis.opendata.arcgis.com/datasets/2017-daytime-population-5-year-acs>

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
2018	0	2,860,746,000	0	2,860,746,000	
2017	0	2,607,897,487	0	2,607,897,487	
2016	0	2,850,097,980	17,732,292	2,832,365,688	
2015	0	2,943,911,111	29,608,333	2,914,302,778	
2014	0	2,813,784,000	22,787,000	2,790,997,000	
Historic Average	0	2,815,287,316	14,025,525	2,801,261,791	

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

C. Water Supply System

1. Designed daily capacity of system in gallons	42,390,000
2. Storage Capacity	
2a. Elevated storage in gallons:	6,500,000
2b. Ground storage in gallons:	11,000,000

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)
2020	31,846	2,882,724,607
2021	31,913	2,888,723,615
2022	31,979	2,894,722,622
2023	32,045	2,900,721,629
2024	32,111	2,906,720,636
2025	32,178	2,912,719,644
2026	32,244	2,918,718,651
2027	32,310	2,924,717,658
2028	32,376	2,930,716,655
2029	32,443	2,936,715,673

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

Started with 2019 (NCTCOG), and then took projected population for 2030 (TWDB) and interpolated other points. Used average Total GPCD for 2018 of 248 multiplied by the projected populations.

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

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
Qorvo Texas LLC	Industrial	40,208,000	Treated
Boxer F2 LP	Commercial	31,448,000	Treated
Dallas County Community College District	Commercial	24,370,000	Treated
Brookhaven Country Club	Commercial	23,410,000	Treated
Fenton Mercer Crossing Holdco (Multi-Family)	Residential	21,154,000	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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F. Utility Data Comment Section

Additional comments about utility data.

All City of Farmers Branch water is purchased from and supplied by Dallas Water Utilities, City of Dallas.

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	8,874	48.59 %
Residential - Multi-Family	6,712	36.75 %
Industrial	18	0.10 %
Commercial	2,398	13.13 %
Institutional	262	1.43 %
Agricultural	0	0.00 %
Total	18,264	100.00 %

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

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
2018	1,182	0	0	37	0	0	1,219
2017	0	1,174	0	6	0	0	1,180
2016	0	212	1	285	0	0	498
2015	0	0	34	25	1	0	60
2014	0	852	12	74	295	0	1,233

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	
2018	712,707,000	316,491,000	56,664,000	888,230,000	69,176,000	0	2,
2017	684,447,000	319,308,000	62,905,000	884,804,000	73,452,000	0	2,
2016	684,949,000	302,547,000	105,179,000	884,393,000	82,188,000	0	2,
2015	754,665,000	305,637,000	116,113,000	895,674,000	99,635,000	0	2,
2014	788,076,000	297,798,000	127,937,000	889,360,000	83,481,000	0	2,

C. Residential Water Use

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

Year	Total Residential GPCD
2018	89
2017	87
2016	89
2015	95
2014	101
Historic Average	92

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				
	2018	2017	2016	2015	2014
January	132,201,000	126,892,000	124,018,000	131,437,000	121,337,000
February	110,726,000	117,969,000	118,479,000	106,541,000	113,597,000
March	110,975,000	119,803,000	129,070,000	111,877,000	128,467,000
April	123,577,000	140,157,000	144,592,000	103,912,000	132,576,000
May	141,336,000	152,370,000	150,582,000	143,028,000	167,669,000
June	193,691,000	179,760,000	149,575,000	150,012,000	162,678,000
July	252,366,000	204,302,000	188,136,000	172,168,000	241,342,000
August	283,565,000	211,995,000	249,454,000	267,792,000	219,992,000
September	245,707,000	212,235,000	249,526,000	343,006,000	280,697,000
October	183,036,000	218,851,000	213,836,000	266,030,000	264,714,000
November	139,713,000	185,033,000	190,868,000	231,943,000	205,181,000
December	126,375,000	155,539,000	151,120,000	143,978,000	148,312,000
Total	2,043,268,000	2,024,906,000	2,059,256,000	2,171,724,000	2,186,562,000

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				
	2018	2017	2016	2015	2014
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	0	0	0	0	0
May	0	0	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	0	0	0	0	0
October	0	0	0	0	0
November	0	0	0	0	0
December	0	0	0	0	0
Total	0	0	0	0	0

3. Summary of seasonal and annual water use.

	Summer RETAIL (Treated + Raw)	Total RETAIL (Treated + Raw)
2018	729,622,000	2,043,268,000
2017	596,057,000	2,024,906,000
2016	587,165,000	2,059,256,000
2015	589,972,000	2,171,724,000
2014	624,012,000	2,186,562,000
Average in Gallons	625,365,600.00	2,097,143,200.00

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
2018	455,902,000	40	15.94 %
2017	236,106,769	21	9.05 %
2016	392,461,431	35	13.86 %
2015	400,245,890	36	13.73 %
2014	339,085,020	32	12.15 %
Average	364,760,222	33	12.95 %

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)
2018	5,597,994	7930673	1.4167
2017	5,547,687	6478880	1.1679
2016	5,641,797	6382228	1.1312
2015	5,949,928	6412739	1.0778
2014	5,990,580	6782739	1.1322

G. Summary of Historic Water Use

Water Use Category	Historic Average	Percent of Connections	Percent of Water Use
Residential - Single Family	724,968,800	48.59 %	34.57 %
Residential - Multi-Family	308,356,200	36.75 %	14.70 %
Industrial	93,759,600	0.10 %	4.47 %
Commercial	888,492,200	13.13 %	42.37 %
Institutional	81,586,400	1.43 %	3.89 %
Agricultural	0	0.00 %	0.00 %

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

H. System Data Comment Section

A.2. Net Number of New Retail Connections includes inactive as well as active accounts, thus will differ from Utility Billing Reports. Chart will not accept negative numbers, in these cases a zero is entered. Other differences from other reports may be due to the definition for a given category changing over time.

Section III: Wastewater System Data

A. Wastewater System Data

1. Design capacity of wastewater treatment plant(s) in gallons per day: 0

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

Water Use Category	Metered	Unmetered	Total Connections	Percent of Total Connections
Municipal	0	0	0	0.00 %
Industrial	0	0	0	0.00 %
Commercial	0	0	0	0.00 %
Institutional	0	0	0	0.00 %
Agricultural	0	0	0	0.00 %
Total	0	0	0	100.00 %

3. Percentage of water serviced by the wastewater system: 0.00 %

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				
	2018	2017	2016	2015	2014
January	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	0	0	0	0	0
May	0	0	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	0	0	0	0	0
October	0	0	0	0	0
November	0	0	0	0	0
December	0	0	0	0	0
Total	0	0	0	0	0

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	
Total	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.

The City of Farmers Branch does not treat any wastewater. All wastewater is treated under contract by the Trinity River Authority (TRA).

APPENDIX "B"
COPY OF CITY OF FARMERS BRANCH, TEXAS
RESOLUTION NO. 2019-038
ADOPTED MAY 21, 2019



RESOLUTION NO. 2019-038

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF FARMERS BRANCH, TEXAS ADOPTING A WATER CONSERVATION PLAN; AND PROVIDING AN EFFECTIVE DATE

WHEREAS, Texas Water Code §13.146 requires the Texas Commission on Environmental Quality (“TCEQ”) to require retail public utilities that provide potable water service to 3,300 or more connections to submit to the Texas Water Development Board (“TWDB”) a water conservation plan based on specific targets and goals developed by the retail public utility and using appropriate best management practices, or other water conservation strategies; and

WHEREAS, Texas Water Code further requires that the City update and revise the Water Conservation Plan for the City of Farmers Branch every five years; and

WHEREAS, the City Staff has presented an updated Water Conservation Plan for the City of Farmers Branch prepared in accordance with the provisions of Title 30, Ch. 288, Subch. A of the Texas Administrative Code which sets forth the requirements for a water conservation plan; and

WHEREAS, the City Council of the City of Farmers Branch, finds it in the public interest to adopt the Water Conservation Plan that has been presented;

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF FARMERS BRANCH, TEXAS THAT:

SECTION 1. The Water Conservation Plan set forth in Exhibit “A”, attached hereto and incorporated herein by reference, is hereby adopted as the policy of the City of Farmers Branch and replaces in its entirety the Water Conservation Plan adopted pursuant to Resolution No. 2014-031.

SECTION 2. The City Manager and the Director of Public Works, and those to whom either may delegate such authority, are hereby authorized to take such action as is reasonable and necessary to implement and enforce the policies, programs, and goals set forth in the Water Conservation Plan adopted hereby.

SECTION 3. This resolution shall be effective immediately upon passage.

PASSED AND APPROVED BY THE CITY COUNCIL OF THE CITY OF FARMERS BRANCH, TEXAS, THIS 21st DAY OF MAY 2019.

ATTEST:

APPROVED:

Amy Piukana, TRMC, City Secretary

Robert C. Dye, Mayor

APPROVED AS TO FORM:

Peter G. Smith, City Attorney
(kbl:4/5/19:107161)

APPENDIX "C"
LETTER DATED MAY 21, 2019,
TO REGION C REGIONAL WATER PLANNING GROUP



**FARMERS
BRANCH**

City of Farmers Branch
13000 William Dodson Parkway
Farmers Branch, Texas 75234

May 21, 2019

Ms. Amy Kaarlela
adk@freese.com
Lead Consultant
Region C Water Planning Group
4055 International Plaza, Suite 200
Fort Worth, TX 76109

Subject: Water Conservation Plan Submission to the Region C Water Planning Group

Dear Ms. Kaarlela:

Enclosed is a copy of the Water Conservation Plan for the City of Farmers Branch, Texas which was adopted by the City Council on May 21, 2019. We are submitting this copy of the plan to the Region C Water Planning Group in accordance with the Texas Commission on Environmental Quality (TCEQ) rules.

If you have any questions or need further information, please feel free to contact our Public Works Department at (972) 919-2597.

Sincerely,

Charles S. Cox
City Manager

Enclosure