Water Conservation Plan

City of Brackettville

November 14, 2025

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1. Introduction

Water supply has always been a key issue of development. Population growth and/or economic development can lead to increasing demand for water. Developing additional water supplies to meet higher demands can be expensive and challenging. It is important that we make efficient use of existing supplies to minimize the need for new resources.

Effective water conservation can postpone or reduce the strain on existing supplies and the need for developing new water sources, minimize associated environmental impacts, and lower the high costs of water supply development. Even with robust conservation measures, new sources of water will eventually be needed. Conservation alone is often not enough to offset projected population growth. Planning for new water resources is critical. The City of Brackettville (Brackettville) considers water conservation an integral part of this planning process and water supply development process. This Water Conservation Plan (WCP) will become a living document.

Brackettville will periodically evaluate the WCP elements and their effectiveness. Brackettville may amend the WCP to address changes in Brackettville's population, distribution system, water supply, or other factors that would have a significant effect on conservation planning. Brackettville will review and update the WCP every five years. At the time of review and update, the five-year and ten-year targets for water savings will be evaluated to determine the effectiveness of the water conservation activities and to establish new five- and ten-year targets.

Recognizing the need for efficient use of existing water supplies, the Texas Commission on Environmental Quality (TCEQ) has promulgated guidelines and requirements governing the development of Water Conservation Plans for public water suppliers. This WCP is consistent with the latest TCEQ requirements.

Water conservation is one critical element of a water supplier's effort to meet future water supply needs in an economical manner and without sacrificing quality of life standards. Brackettville supplies their own retail raw water and their WCP should be completely sustainable and consistent. The following are the central objectives of this WCP:

– Reduce water consumption.
– Reduce the loss and waste of water.
– Reduce inefficient use of water.
– Provide support to customers to maintain and continue sound conservation practices.
– To extend the life of current water supplies.

This is Brackettville's first WCP. Some data required to develop a complete WCP was not available. Upon adopting this WCP, Brackettville is committing to collect the data required for subsequent revisions of the WCP and to validate data collected as detailed within. This initial WCP will serve as a guide to assist Brackettville in identifying the data required for subsequent revisions. As a planning tool, this WCP will assist Brackettville with identifying areas to conserve water City wide and to reduce water loss, increasing revenue.

2. Utility Profile

2.1 Contact Information

This WCP has been adopted by Brackettville and is administered by the City Secretary.

Table 1 Contact Information and Water Conservation Coordinator Ratification

Facility Data	Facility Information
Name of Water Supplier	City of Brackettville
Address	119 West Spring Street, Brackettville, TX 78832
Telephone Number	830-563-2412
Water Right No.(s)	23-2679
Regional Water Planning Group	Texas Water Development Board Region J
Water Conservation Coordinator (or person responsible for implementing conservation program):	Name: Michael Ford Phone: 830-291-4456
Form Completed By	Michael Ford
Title	City Secretary
Signature	
Date	

2.2 Population and Customer Data

The State of Texas Senate Bill 181 requires that uniform consistent methodologies for calculating water use and conservation be developed and available to retail water providers and certain other water use sectors as a guide for preparation of water use reports, water conservation plans and reports, and water conservation efforts. A water system must provide the most detailed level of customer and water use data available to it. However, any new billing system purchased must be capable of reporting data for each of the sectors listed below. More guidance can be found at:

– **http://www.twdb.texas.gov/conservation/doc/SB181Guidance.pdf**

2.2.1 Service Area Map

A copy of Brackettville's service-area map is included as Appendix A - Brackettville Existing Water System Map. An overview of the service area is shown in Figure 1. A Certificate of Convenience and Necessity (CCN) is a permit issued by the Public Utility Commission of Texas (PUCT) granting a utility a geographic monopoly for providing the utility service. Brackettville holds PUCT CCN number 11020, included as Appendix B - Brackettville Certificate of Convenience and Necessity.

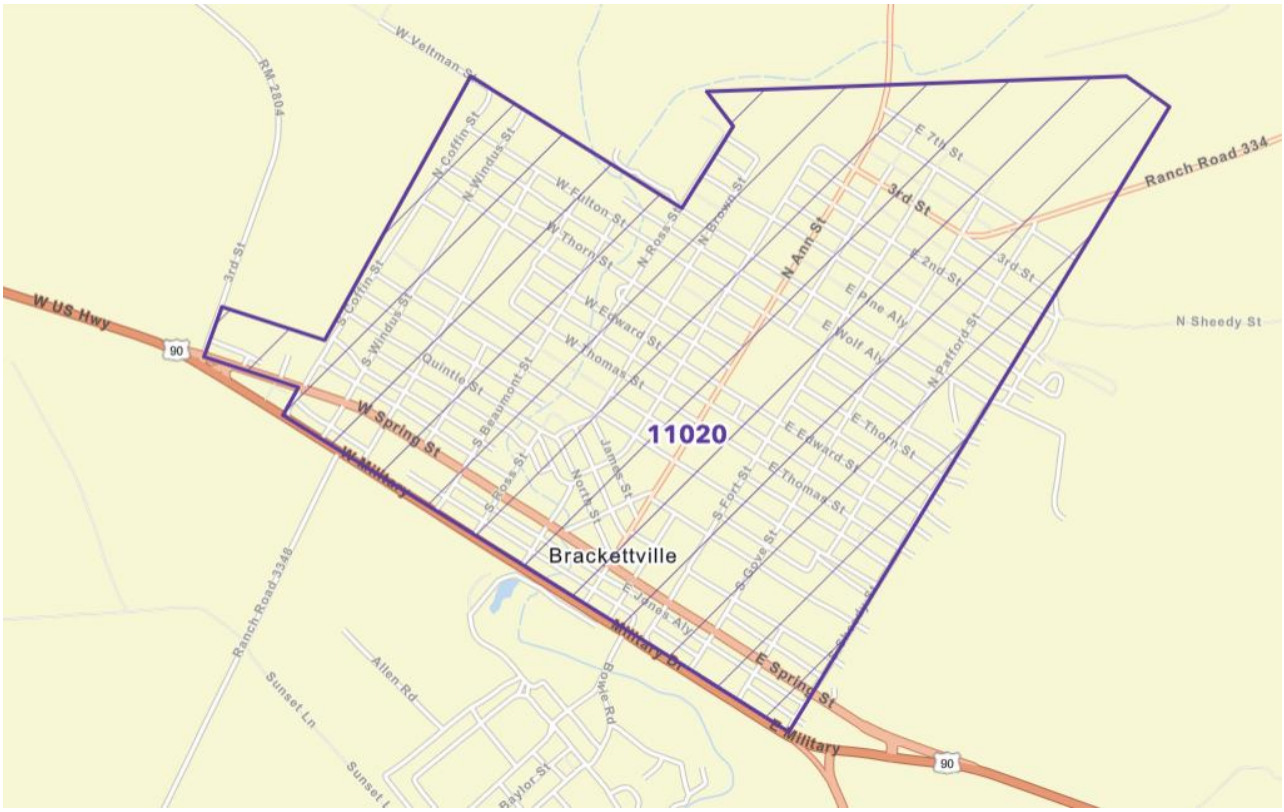

Figure 1 *City of Brackettville Service Area*

2.2.2 Population and Service Area Data

Table 2 *Service Area and Population Data*

Criteria	Value
Service Area Size (in square miles)	1
Current Population of Service Area	1300
Current Population Served for Water System	1300
Current Population Served for Wastewater System*	~1298

*Wastewater system operated by Fort Clark Municipal Utility District (MUD) and serves Fort Clark MUD and the City of Brackettville. 99.87% of Brackettville water system customers are connected to the Fort Clark MUD wastewater system.

2.2.3 Population Served for the Previous 5 Years

Table 3 *Population Served for Previous 5 Years*

Year	2024	2023	2022	2021	2020
Population	1340	1334	1334	1331	1341

2.2.4 Projected Service Area Population Growth

Data collected for projected population growth was sourced from the 2026 Draft Region J Water Plan.

Table 4 Projected Population Growth

Year	Projected Population
2020	1,341
2030	1,077
2040	1,020
2050	983
2060	960

2.2.5 Quantified 5-year and 10-year Goals for Water Savings

Table 5 Quantified 5-year Goals for Water Savings

Calculated Values	*Historic 5-year Average*	*Baseline**	*5-year goal for year 2029*	*10-year goal for year 2034*
Total GPCD	164.39	160	140	120
Residential GPCD	111.68	120	110	95
Water Loss GPCD	581.58	120	50	30
Water Loss Percentage	353.78%	70%	30%	15%

*Total and residential GPCD baselines are from 2024 values. Water loss GPCD and Water Loss Percentage baselines are from 2023 values.

Calculations:

- Total GPCD = (Total Gallons in System ÷ Permanent Population) ÷ 365
- Residential GPCD = (Gallons Used for Residential Use ÷ Residential Population) ÷ 365
- Water Loss GPCD = (Total Water Loss ÷ Permanent Population) ÷ 365
- Water Loss Percentage = (Total Water Loss ÷ Total Gallons in System) x 100; or (Water Loss GPCD ÷ Total GPCD) x 100

Water loss percentages reported in Table 5 are subject to Brackettville's records as explained in Section 2.3.3.

2.2.6 Current Number of Active Connections

All residential service connections are single-family and counted as residential connections in subsequent tables.

Table 6 Current Number of Active Connections

Treated Water Users	Metered	Non-Metered	Totals
Residential	654	0	654
Single-Family	654	0	654
Multi-Family	0	0	0
Commercial	123	0	123
Industrial/Mining	2	0	2
Institutional	0	0	0
Agriculture	3	0	3
Other/Wholesale	1	0	1

2.2.7 New Connections

At the time of preparation of this WCP, Brackettville does not have records of new connections and types. Brackettville will begin keeping records of new connection types and dates, to be determined (TBD) and included in subsequent updates to this WCP in accordance with Table 7.

Table 7 Number of New Connections per Year (Past Three Years)

Treated Water Users	2029	2028	2027
Residential	TBD	TBD	TBD
Single-Family	TBD	TBD	TBD
Multi-Family	TBD	TBD	TBD
Commercial	TBD	TBD	TBD
Industrial/Mining	TBD	TBD	TBD
Institutional	TBD	TBD	TBD
Agriculture	TBD	TBD	TBD
Other/Wholesale	TBD	TBD	TBD

2.2.8 Highest Volume Customers

Table 8 Five Highest Water Consumers

Customer	Use (in 1,000 gallons/year)	Treated or Raw Water
Brackettville Independent School District (BISD)	4,766	Treated
City of Spofford	4,359	Treated
BISD Football Field	3,387	Treated
BISD Track	3,201	Treated
Rio Grande Electric	504	Treated

2.3 Water Use Data for Service Area

2.3.1 Previous Five-Year Water Use (in 1,000 gallons)

Water volumes listed in Table 9 are representative of treated water delivered and were determined from daily meter readings by Brackettville operations personnel.

Table 9 Previous Five-Year Water Use (in 1,000 gallons)

Month	2024	2023	2022	2021	2020
January	5,229	5,902	5,913	5,675	5,264
February	4,583	4,980	6,054	5,160	12,437
March	5,304	5,074	5,640	4,292	4,359
April	5,476	9,116	6,795	4,494	5,749
May	5,829	6,675	5,521	6,352	4,927
June	4,782	8,033	6,279	7,046	6,697

Month	2024	2023	2022	2021	2020
July	8,563	9,148	7,430	9,209	7,504
August	9,677	9,931	8,372	10,901	11,059
September	8,593	5,455	8,757	8,494	9,918
October	6,548	6,651	6,451	6,240	8,426
November	5,431	4,478	5,357	6,089	5,853
December	5,780	4,627	5,150	5,197	5,901
Totals	75,795	80,070	77,719	79,149	88,094

Water use values should be based on the gallons pumped through the treatment system.

2.3.2 Water Use by Account Type

Table 10 Water Use by Account Type for Previous Five Years (in 1,000 gallons)

Treated Water User	2024	2023	2022	2021	2020
Residential*	56,838	48,300	53,041	55,860	58,246
Single-Family	-	-	-	-	-
Multi-Family	-	-	-	-	-
Commercial	23,976	25,642	24,940	19,160	18,608
Industrial/Mining	518	888	647	1,179	935
Institutional	-	-	-	-	-
Agriculture	0	0	0	0	0
Flushing / Fire Department	-	-	-	-	-
Other/Wholesale	1,131	969	1,422	1,526	1,370

*All residential connections are single family connections.

2.3.3 Water Loss Records for the Previous Five Years

Water loss records for the previous five years are erroneous at times. For instance, 2020 data indicate that the water system gained 66,177,950 gallons while 2021 and 2023 data indicate over 680,000,000 gallons were lost. The five-year average water loss indicates over three (3) times the water generated was lost. It is likely that these values are influenced by inaccurate flow meters. By following the requirements of this WCP (e.g., water meter maintenance and recordkeeping as described in Sections 5, 6, and 7), Brackettville aims to achieve a more accurate assessment of water loss in future WCP revisions.

Table 11 Water Loss Records for Previous Five Years

Year	Amount (gallons)	Percent %
2024	697,369,550	89.39
2023	56,287,870	42.55
2022	47,552,340	38.97
2021	682,979,360	89.75
2020	-66,177,950	-433.35

2.3.4 Projected Water Demands

The projected water supply plans were obtained from the Texas Water Development Board Region J Water Planning Group. They are included as Appendix C - 2021 Region J Regional Water Plan and Appendix D - 2026 Draft Region J Water Plan.

2.4 Water Supply System Data

2.4.1 Water Supply Sources

The Brackettville public water system sources groundwater from two wells that draw groundwater from the Edwards Aquifer.

2.4.2 System Capacity

The Brackettville public water supply's current maximum daily demand is 0.567 million gallons per day (MGD). Brackettville's single well production rate is 0.979-1.008 MGD (680-700 gallons per minute) per well.

2.4.3 Storage Capacity

Brackettville has 175,000 gallons of elevated storage capacity and 500,000 gallons of ground storage capacity. These storage volumes are provided by:

– One (1) 175,000-gallon elevated tank.
– One (1) 250,000-gallon standpipe storage tank.
– One (1) 250,000-gallon ground storage tank.

2.5 Wastewater System Data

2.5.1 Wastewater System Data

Brackettville utilizes a lagoon style wastewater treatment plant (WWTP) permitted to discharge a maximum of 0.07 MGD located approximately 2.3 miles south of the intersection of State Highway 131 and U.S. Highway 90 and 0.75 mile west of State Highway 131, in Kinney County, Texas 78832. The WWTP is referred to as the City of Brackettville WWTP by the TCEQ and operates under the requirements of Texas Pollutant Discharge Elimination System (TPDES) permit number WQ0010194002 which permits Brackettville to discharge treated wastewater to Las Moras Creek, thence to the Rio Grande Below Amistad Reservoir in Segment No. 2304 of the Rio Grande Basin. Brackettville reuses most of the treated effluent generated by the wastewater treatment plant to irrigate a nearby golf course.

2.5.2 Wastewater Data for Service Area

99.87% of the drinking water service area is served by Brackettville's wastewater system. The wastewater treatment system treats wastewater generated by the Brackettville Public Water Supply customers and the Fort Clark Municipal Utility District Public Water Supply customers. Wastewater entering the shared wastewater treatment plant is not metered. Wastewater effluent from the shared wastewater treatment plant is recorded daily on Wastewater Activity Logs. Effluent from the wastewater treatment plant is either sent to a golf course for irrigation or discharged to a nearby creek, with the majority being used for irrigation. The values reported in Table 12 are sourced from the Wastewater Activity Logs and show the volumes used for irrigation and discharged to the creek for each month, combined. Brackettville was unable to locate the Wastewater Activity Log for July 2020.

Table 12 Monthly Volume Treated for Previous Five Years by Wastewater System (in 1,000 gallons)

Month	2024	2023	2022	2021	2020
January	9,050	4,000	3,960	1,410	6,373
February	0	770	3,231	2,070	3,590
March	0	5,000	4,940	5,870	3,370
April	36,760	4,097	4,420	4,910	4,540
May	45,165	3,649	3,750	3,410	3,610
June	33,800	30,244	3,380	4,090	5,670
July	61,070	60,070	1,310	5,350	Not Available
August	2,022	37,710	1,500	4,400	4,280
September	2,835	0	4,060	3,480	1,800
October	5,170	31,650	3,150	2,500	4,540
November	5,548	18,060	1,980	3,530	4,290
December	3,686	20,660	210	1,160	2,560
Totals	205,106	215,910	35,891	42,180	44,623

3. Record Management System

The WCP must include a record management system which allows for the classification of water sales and uses to the most detailed level of water use data currently available to it including, if possible, the following sectors: residential (single and multi-family), commercial.

Brackettville uses RVS Utility billing software (RVS) to record water sales. The readings from meters are recorded manually and then transferred to RVS digitally. Records of water use and sales are documented and stored using this software at City Hall.

4. Specific, Quantified 5- and 10-Year Targets

The WCP must include specific, quantified five-year and ten-year targets for water savings to include goals for water loss programs and goals for municipal use in gallons per capita per day. Note that the goals established by a public water supplier under this subparagraph are not enforceable. These goals must be updated during the five-year review and submittal.

– Initiate a program to replace 50 percent of existing high-water-using toilets and faucets in industrial, commercial, and institutional facilities within 5 years.
– Consider initiating a seasonal irrigation schedule to curtail water use during peak months within next year. Permanent irrigation restrictions may prevent the need for emergency drought measures.
– Consider developing or adopting a rebate or incentive program for the replacement of toilets, showerheads, clothes washers, and faucets to more efficient models within one year. Various programs are already available to Texas residents.
– Achieve the 5-year average total per capita water use below specified amount in Section 2.2.5.

- Develop a program of universal metering and meter replacement and repair as discussed in Section 6.
- Brackettville will consider adopting higher-tiered water rates for higher volume usage to encourage water conservation. Water rates should be reviewed on an annual basis.
- Raise public awareness of water conservation and encourage responsible public behavior by a public education and information program as discussed in Section 8.
- Consider updating rate structure inclusive of reducing minimum water charge to 2,000 gallons. Decreasing the minimum water use rate to 2,000-gallons would encourage users to conserve water and increase revenue for Brackettville.
- Increasing the number of block rates and decreasing the volume groupings of water use amounts in each of the block rates will also aid water conservation.

5. Measuring and Accounting for Diversions

Brackettville will ensure that metering devices will be maintained measuring well source water within an accuracy of plus or minus 5% of the actual flow in order to measure and accurately account for water being delivered from the source. Water meters will be calibrated every three years and checked once annually. Meters will be calibrated, repaired, or replaced if they are inaccurate by more than 5% of the reading.

6. Universal Metering

All active service connections are equipped with water meters. Water meters are used to monitor water use and collect monthly readings for billing purposes. All meters with 8 years or more of service will be evaluated for accuracy. One-inch meters should be replaced after 15 years of service. Meters that are 1 to 4 inches should be tested every 10 years and calibrated, repaired, or replaced as necessary. Any meters with questionable readings will be tested and repaired or replaced to restore functionality. Any meters that are not reading water flow properly will be replaced. Brackettville will require metering of all new and existing connections.

7. Measures to Determine and Control Water Loss

Water loss is the difference between the amount of water pumped from the wells and the amount sold. Water loss includes authorized but unmetered uses such as firefighting and flushing of water mains. Brackettville uses multiple methods to determine and control water loss. Careful tracking of water use is essential to minimizing water loss. Plant operators check the master meter daily for abnormal water use. Any use of over 800,000 gallons per day indicates that a leak may be present. This would cause Brackettville operations personnel to conduct a visual inspection of the service area to locate and repair potential leaks. In addition, Brackettville employees are trained to monitor the service area as monthly meter readings are conducted. All employees are instructed to look for possible leaks or misuses of water while performing daily tasks. Any leaks found are repaired as quickly as possible. Brackettville will maintain a meter replacement program as discussed in Section 6 and monitor accurate source water metering, as discussed in Section 5, to help control water loss.

8. Continuing Public Education and Information

Brackettville will raise public awareness of water conservation through a coordinated public education and information program. Brackettville will periodically provide water customers with information concerning water conservation to encourage responsible water use and conservation. This information will be provided by means of public events; notices posted on Brackettville's website, press releases, or utility bill inserts. Brackettville will consider other options of public education such as updates to any social media platforms and making water conservation brochures or materials available in City Hall.

9. Non-Promotional Water Rate Structure

Brackettville's rate structure is cost-based. Commercial rates apply to any property zoned commercial or local retail. The current residential, commercial, industrial/mining, and agriculture rate structures are listed in this Section.

9.1 Water Rates

Table 13 Residential Water Rate Structure

Monthly Water Use	Rate
0 to 3,000 gallons	$17.25
Charge for every additional 1,000 gallons	$3.50

Table 14 Commercial Water Rate Structure

Monthly Water Use	Rate
0 to 3,000 gallons	$30
Charge for every additional 1,000 gallons	$3.50

Table 15 Industrial / Mining Water Rate Structure

Charging Mechanism	Rate
Monthly Surcharge	$77
Charge per one (1) gallon	$0.10

Table 16 Agriculture

Charging Mechanism	Rate
Monthly Surcharge	$25
Charge per one (1) gallon	$0.10

9.2 Wastewater Rates

Customers are charged a flat monthly rate for sewer services. Residential customers are charged $18.75 per month, and commercial customers are charged $25.60 per month.

10. Reservoir Systems Operations Plan

This is not applicable to Brackettville because they do not own or operate any reservoirs or use surface water.

11. Enforcement Procedure and Plan Adoption

Brackettville is responsible for protecting the community's health, safety and welfare through effective enforcement of codes and ordinances. The goal of the Code Compliance Division is to provide information to all interested parties and to enforce the Brackettville Codes and Ordinances fairly and efficiently.

Ordinances for Brackettville are available on the City's website. This is a new water conservation plan for Brackettville. Brackettville's City Secretary will prepare an ordinance for water conservation and demand management actions for approval by the Mayor and City Council. Any variance requests will be reviewed by the Water Utility Superintendent.

The City Manager will be responsible for implementing the water conservation policies adopted. The Code Enforcement Division helps to protect the public's well-being and enhance the quality of life by enforcing the health, safety, zoning and sanitation codes.

12. Coordination with the Regional Water Planning Group(s)

Brackettville's service area is located within the Texas Water Development Board (TWDB) Plateau J water planning area and Brackettville must provide a copy of this WCP to the Region J planning group. Documentation that the Brazos J planning group has been notified of the applicant's updated WCP must be sent and can be a copy of the letter, email, or fax cover page.

13. Plan Review and Update

Brackettville shall review and update its WCP, as appropriate, based on an assessment of previous five-year and ten-year targets and any other new or updated information. Brackettville shall review and update the next revision of its water conservation plan not later than August 1, 2030, and every five years after that date to coincide with the regional water planning group. The revised plan must also include an implementation report.

14. Additional Conservation Strategies

Any combination of the following strategies shall be selected by Brackettville, in addition to the minimum requirements of 30 Texas Administrative Code (TAC) §288.2(1) if they are necessary to achieve the stated water conservation goals of the WCP. The commission may require by commission order that any of the following strategies be implemented by Brackettville if the commission determines that the strategies are necessary for the conservation plan to be achieved:

– Conservation-oriented water rates and water rate structures such as uniform or increasing block rate schedules, and/or seasonal rates, but not flat rate or decreasing block rates.

- Adoption of ordinances, plumbing codes, and/or rules requiring water conserving plumbing fixtures to be installed in new structures and existing structures undergoing substantial modification or addition.
- A program for the replacement or retrofit of water-conserving plumbing fixtures in existing structures.
- A program for reuse and/or recycling of wastewater and/or graywater.
- A program for pressure control and/or reduction in the distribution system and/or for customer connections.
- A program and/or ordinance(s) for landscape water management.
- A method for monitoring the effectiveness and efficiency of the water conservation plan; and
- Any other water conservation practice, method, or technique which the water supplier shows to be appropriate for achieving the stated goal or goals of the water conservation plan.

Appendices

Appendix A

Brackettville Existing Water System Map

Appendix B

Brackettville Certificate of Convenience and Necessity

Appendix C

2021 Region J Regional Water Plan

Appendix D

2026 Draft Region J Water Plan

MINUTES
CITY OF BRACKETTVILLE
CITY COUNCIL WORKSHOP
January 28, 2026
119 W. Spring St.
BRACKETTVILLE, TEXAS 78832
6:00 P.M.

1. Invocation Led by **Councilman Steven Lowrance**

2. Pledge of Allegiance **Led by Mike Agurrie**

3. Call to order by **Mayor Mike Agurrie**

4. Roll Call and Establishment of Quorum

   Mayor Mike Agurrie- present
   Councilman Refugio Martinez- present
   Councilman Steven Lowrance- present
   Councilman Antonio Zamora-present
   Councilwoman Fransica Hernandez-present
   Councilman Isauro Rivas -absent
   Also present:
   Grant writer Alma Gutierez
   Grant writer Candy Hobbs
   City Administrator Brigitte Villa
   City Secretary Michael Ford

5. Citizens Communications **None**

WORKSHOP

6. Review and discussion of Texas Water Development Board Water Utilities Technical Assistance (WUTAP) report. **A motion by Councilwoman Francisca Hernandez to approve the WUTAP, water conservation section. Second by Councilman Antonio Zamora. All in favor. The motion passes.**

7. Discussion regarding development of Emergency Operations Plan for the City of Brackettville. **No Action**

8. Adjournment. **A motion by Councilwoman Fransica Hernandez to adjourn the meeting. Second by Councilman Steven Lowrance. All in favor. Motion passes Time 6:42 p.m.**

Approved , and passed on February 24, 2026

Attest

Mike Aguirre
Mayor

Michael Ford
Mike Ford
City Secretary