Water Conservation & Drought Contingency Plan

Prepared April 2019 for the

CITY OF BONHAM, TEXAS

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Bonham, TX 75418

Compiled by:

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## WATER CONSERVATION & DRAUGHT CONTINGENCY PLAN

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**ATTACHMENTS**

Attachment 1 Water Conservation Utility Profile
Attachment 2 Water Rate Schedule
Attachment 3 Regional Water Planning Group Notification
Attachment 4 Drought Contingency Plan
Attachment 5 Ordinance Adopting Water Conservation Plan
SECTION 1.0: WATER & WASTEWATER SYSTEM EVALUATION

The City of Bonham purchases treated water from North Texas Municipal Water District. The City provides retail water service to 3,439 residential, commercial, industrial, and institutional customers and it also provides water service to one wholesale water supply customer outside the city, Southbound Water Supply Corporation.

The City of Wolfe City's water distribution system includes pipe ranging in sizes from 1” to 18” in diameter, two (2) 500,000 gallon ground storage tanks, one (1) 100,000 gallon ground storage tank, a high service pumping facility containing three (3) 2,100 gpm pumps, a high service pumping facility containing four (4) 1,500 gpm pumps, two (2) 500,000 gallon elevated storage tanks, and one (1) 250,000 gallon elevated storage tank.

Wastewater is collected through a system of gravity lines and lift stations throughout the City. Ultimately, the wastewater is conveyed to the Bonham wastewater treatment plant, which has a permitted capacity of 2.5 MGD. After treatment, the wastewater is discharged to Pig Branch; thence to Bois d’Arc Creek; thence to the Red River below Lake Texoma in Segment No. 0202 of the Red River Basin.

This document represents the water conservation and drought contingency plans for the City of Bonham. This document has been developed, in part, to meet the Texas Water Development Board’s (TWDB) conditions for financial assistance.

In order to develop effective and efficient water conservation and drought contingency plans; the existing water and wastewater system conditions must be evaluated. The most vital and applicable information is provided in Attachment 1, Bonham’s Water Conservation Utility Profile.

SECTION 2.0: 5-YEAR & 10-YEAR TARGETS

The City of Bonham recognizes the importance of developing effective water conservation and drought contingency plans. Proper planning will allow all users of the system to conserve water and insure a supply during shortages due to system constraints or actual drought.

The City of Bonham is committed to water conservation to avoid waste, save costs, and conserve water. To this end, the City proposes to establish the following goals for its long-term water conservation and drought contingency plan:

1. Unaccounted for water in the system will be limited to a maximum of 15% of the water purchased from NTMWD.
2. A conservation oriented rate structure utilizing uniform rates will be maintained for all customers.
3. Education and information will be provided to all retail customers presenting non-wasteful uses of water and techniques that can be employed to conserve water.
4. The City of Bonham will encourage its wholesale customers to adopt and implement water conservation plans. These plans should be developed in accordance with the Texas Water Development Board’s guidelines. Previously adopted, the city has established a policy requiring a water conservation plan with any new, renewed, or extended wholesale contract.
5. The city will continue a program to determine daily per capita water consumption. The daily per capita consumption will be calculated, reviewed and compared to state and area averages annually. If the city determines that average per capita consumption is too high, the city will institute programs intended to reduce consumption. The objective of such programs will be to reduce city consumption closer to state and area averages.

Water Conservation Plan
5-Year & 10-Year Goals for Water Savings
Facility Name: City of Bonham
Water Conservation Plan Year: 2019

<table>
<thead>
<tr>
<th></th>
<th>Historic 5-YR Average</th>
<th>2018</th>
<th>5-YR Goal for Year 2024</th>
<th>10-YR Goal for Year 2029</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total (GPCD)</td>
<td>131</td>
<td>130</td>
<td>130</td>
<td>128</td>
</tr>
<tr>
<td>Residential (GPCD)</td>
<td>64</td>
<td>55</td>
<td>62</td>
<td>60</td>
</tr>
<tr>
<td>Water Loss (GPCD)</td>
<td>22</td>
<td>21</td>
<td>20.8</td>
<td>19.2</td>
</tr>
<tr>
<td>Water Loss (Percentage)</td>
<td>16.62</td>
<td>15.93</td>
<td>16.00</td>
<td>15.00</td>
</tr>
</tbody>
</table>

SECTION 3.0 : SCHEDULE FOR TARGETS

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

- Meters quantifying water from NTMWD will be tested and calibrated annually.
- The City will continue a schedule oriented maintenance program of meter testing and repair to address water loss problems.
- Water audits are conducted annually to identify water losses.
- Known water losses are corrected immediately and deteriorating water mains are replaced on an on-going basis.
- Educational materials will be mailed to all customers annually.
- Leak detection inspections are performed on an on-going basis.

SECTION 4.0 : METHOD FOR TRACKING IMPLEMENTATION

The City of Bonham will track the established targets and goals by utilizing the following procedures:

- Logs shall be maintained for meter calibration, meter testing, and the meter replacement program.
- Annual water audits shall be documented and kept in the utility department files. Water conservation annual reports shall be submitted to TWDB by May 1st each year.
- The number of educational material mailings shall be recorded and kept in the utility department files.
- Ordinances will document all changes in water rates.
• A record of the location of leaks repaired will be maintained in order to identify lines needing replacement.

SECTION 5.0 : MASTER METER

The City of Bonham uses meters to quantify the amount of water pumped from the North Texas Municipal Water District. The City will have these meters tested and calibrated annually to maintain accuracy to within plus or minus 5%.

SECTION 6.0 : PROGRAM OF UNIVERSAL METERING

All customer service connections, City connections, and City employee connections are currently metered. However, the City has established a plan to determine, calculate, and report unaccounted for water losses. These losses to the system will be calculated and reported on an annual basis. The following concepts are included in the water loss audit program:

1. A records management system has been established that separates the water sales and uses into residential, commercial, public/institutional, and industrial.

2. Individual meters will be installed for all instances where a single meter has a double connection, and meters shall be installed for customer and public uses of water.

3. Metering Devices will have an accuracy of plus or minus 5.0% in order to measure and account for the amount of water diverted from the source of supply.

4. The City will continue a maintenance program of meter testing and repair to address problems as they develop. To insure that problems are detected in a timely manner all meters owned by the City will be tested according to the following schedule:
   • Wholesale customer meters – test annually.
   • Customer meters (2" and above) – test every fifteen years.
   • Customer meters (smaller than 2") – test as readings indicate problems with meter accuracy or replace every fifteen years.

5. Monthly meter readings will be checked versus previous readings to determine if there is a dramatic change in water use. A large variation would indicate that the meter is not operating properly and will be investigated further.

SECTION 7.0 : MEASURES TO DETERMINE & CONTROL WATER LOSS

Several methods are used to find and control unaccounted for uses of water. City personnel continuously survey along distribution lines for leaks, abandoned services, and illegal connections. A periodic review of water produced versus water sold to customers is also performed to monitor for excessive losses. Further, the City strives to estimate the amount of unmetered water used for flushing or firefighting as accurately as possible.

SECTION 8.0 : CONTINUOUS WATER LOSS CONTROL PROGRAM

A leak detection, location, and repair program is an important part of reducing water losses in a water system. A monthly accounting of the water received from North Texas Municipal Water District versus
the water metered to customers is currently being maintained. Detected losses greater than 15% will serve as a warning sign of a possible leak. These leaks will be located and repaired to limit the amount of water that must be pumped and treated by the city.

SECTION 9.0 : PROGRAM OF CONTINUING EDUCATION

Through education and information dissemination, the City will continue to inform its water customers of the benefits of water conservation. The City will accomplish this by implementing the following steps:

1. Annual Educational Water Conservation Activity

   The city will provide an annual water conservation and drought contingency education forum at a meeting of the City Council. At this meeting, information will be presented regarding water conservation and public comment will be accepted at that time. Notification of this meeting will be made as a part of the regular City Council meeting notice as is currently used to announce the agenda for City Council meetings.

2. Water Conservation Literature for Customers

   Annually, the City will mail out material developed by the staff, materials obtained from the Texas Water Development Board, Texas Commission on Environmental Quality, or other sources to all customers. All customers will receive conservation messages included on monthly bills. The City will also supply pamphlets and other water conservation literature to new customers upon applying for water service. At all times, these materials are to be accessible to the public at City Hall.

SECTION 10.0 : WATER RATE STRUCTURE

The City of Bonham will continue to use an inclining/inverted block rate structure in which unit prices are increased with increased consumption. This rate structure has been chosen to encourage water conservation.

See Attachment 2 for the water rate schedule.

SECTION 11.0 : MEANS OF IMPLEMENTATION AND ENFORCEMENT

To implement and enforce this plan the City will rely on public education and city ordinances. Education will be provided by means of a community newsletter, news releases, and an annual status report on the water utility. When necessary, the City Council will utilize ordinances to enforce the policies adopted.

SECTION 12.0 : OTHER SUPPLYING ENTITIES

All water supply contracts entered into, renewed, or extended after official adoption of this water conservation plan shall include the requirement that all wholesale entities must develop and implement their own water conservation plans. These plans must conform to the board’s requirement and each entity will also be required to submit their plans to the Water Development Board for review.
SECTION 13.0 : DOCUMENTATION OF REGIONAL WATER PLANNING GROUP NOTIFICATION

See Attachment 3 for documentation of regional water planning group notification.

SECTION 14.0 : DROUGHT CONTINGENCY PLAN

See Attachment 4 for the Drought Contingency Plan.

SECTION 15.0 : ADOPTION

The City Council of the City of Bonham will adopt these plans and the subsequent plan elements discussed in this document by ordinance. (See attached ordinance, Attachment 5).

SECTION 16.0 : REPORTING REQUIREMENT

The City will report annually to the executive administrator of the TWDB on the progress in implementing each of the minimum requirements in this water conservation plan and the status of any of its customers’ water conservation plans. The following forms will be used for reporting: Water Conservation Plan Annual Report, TWDB-1966 for retail water suppliers, TWDB-1967 for non-water suppliers, and TWDB-1969 for wholesale water suppliers. The Director of Public Utilities will be responsible for completing the City’s annual report.
ATTACHMENT 1

Water Conservation Utility Profile
UTILITY PROFILE FOR RETAIL WATER SUPPLIER

CONTACT INFORMATION

Name of Utility: City of Bonham
Public Water Supply Identification Number (PWS ID): TX0740001
Certificate of Convenience and Necessity (CCN) Number: 11186
Surface Water Right ID Number: 4825
Wastewater ID Number: 20460

Contact: First Name: Lance Last Name: Capehart
Title: Director of Utilities
Address: 514 Chestnut City: Bonham State: TX
Zip Code: 75418 Zip+4: 9035837555
Telephone Number: 9035837555 Date: 2/21/2019

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: 11

Attached file(s):

<table>
<thead>
<tr>
<th>File Name</th>
<th>File Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WATER MAP 2017 (FULL).pdf</td>
<td></td>
</tr>
</tbody>
</table>
UTILITY PROFILE FOR RETAIL WATER SUPPLIER

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

<table>
<thead>
<tr>
<th>Year</th>
<th>Historical Population Served By Retail Water Service</th>
<th>Historical Population Served By Wholesale Water Service</th>
<th>Historical Population Served By Wastewater Water Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>10,193</td>
<td>87</td>
<td>9,215</td>
</tr>
<tr>
<td>2017</td>
<td>10,123</td>
<td>87</td>
<td>9,127</td>
</tr>
<tr>
<td>2016</td>
<td>10,058</td>
<td>87</td>
<td>9,077</td>
</tr>
<tr>
<td>2015</td>
<td>10,058</td>
<td>87</td>
<td>9,104</td>
</tr>
<tr>
<td>2014</td>
<td>10,005</td>
<td>87</td>
<td>9,189</td>
</tr>
</tbody>
</table>

3. Projected service area population for the following decades.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td>12,603</td>
<td>87</td>
<td>11,405</td>
</tr>
<tr>
<td>2030</td>
<td>16,000</td>
<td>87</td>
<td>14,480</td>
</tr>
<tr>
<td>2040</td>
<td>22,000</td>
<td>87</td>
<td>19,910</td>
</tr>
<tr>
<td>2050</td>
<td>30,000</td>
<td>87</td>
<td>27,150</td>
</tr>
<tr>
<td>2060</td>
<td>37,000</td>
<td>87</td>
<td>33,485</td>
</tr>
</tbody>
</table>

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

Population Growth is based on TWDB 2016 Regional Water Plan Population Projections
UTILITY PROFILE FOR RETAIL WATER SUPPLIER

E. High Volume Customers

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

<table>
<thead>
<tr>
<th>Customer</th>
<th>Water Use Category</th>
<th>Annual Water Use</th>
<th>Treated or Raw</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDCJ Moore Unit</td>
<td>Institutional</td>
<td>46,964,398</td>
<td>Treated</td>
</tr>
<tr>
<td>Bonham V.A. Hospital</td>
<td>Institutional</td>
<td>26,344,880</td>
<td>Treated</td>
</tr>
<tr>
<td>TDCJ Buster Cole Unit</td>
<td>Institutional</td>
<td>17,846,111</td>
<td>Treated</td>
</tr>
<tr>
<td>Fannin County Educational Center</td>
<td>Institutional</td>
<td>17,429,734</td>
<td>Treated</td>
</tr>
<tr>
<td>Clyde Cosper V.A. Hospital</td>
<td>Institutional</td>
<td>7,083,353</td>
<td>Treated</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Customer</th>
<th>Water Use Category</th>
<th>Annual Water Use</th>
<th>Treated or Raw</th>
</tr>
</thead>
<tbody>
<tr>
<td>South Bound Water Supply</td>
<td>Municipal</td>
<td>1,273,781</td>
<td>Treated</td>
</tr>
</tbody>
</table>

F. Utility Data Comment Section

Additional comments about utility data.

   Gathered from water billing program.

Section II: System Data

A. Retail Water Supplier Connections

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

<table>
<thead>
<tr>
<th>Water Use Category Type</th>
<th>Total Retail Connections (Active + Inactive)</th>
<th>Percent of Total Connections</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residential - Single Family</td>
<td>2,955</td>
<td>85.93 %</td>
</tr>
<tr>
<td>Residential - Multi-Family</td>
<td>19</td>
<td>0.55 %</td>
</tr>
<tr>
<td>Industrial</td>
<td>10</td>
<td>0.29 %</td>
</tr>
<tr>
<td>Commercial</td>
<td>443</td>
<td>12.88 %</td>
</tr>
<tr>
<td>Institutional</td>
<td>12</td>
<td>0.35 %</td>
</tr>
<tr>
<td>Agricultural</td>
<td>0</td>
<td>0.00 %</td>
</tr>
<tr>
<td>Total</td>
<td>3,439</td>
<td>100.00 %</td>
</tr>
</tbody>
</table>
2. Net number of new retail connections by water use category for the previous five years.

<table>
<thead>
<tr>
<th>Year</th>
<th>Residential - Single Family</th>
<th>Residential - Multi-Family</th>
<th>Industrial</th>
<th>Commercial</th>
<th>Institutional</th>
<th>Agricultural</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td></td>
<td></td>
<td></td>
<td>36</td>
<td>1</td>
<td></td>
<td>37</td>
</tr>
<tr>
<td>2017</td>
<td>19</td>
<td></td>
<td>1</td>
<td></td>
<td>1</td>
<td></td>
<td>21</td>
</tr>
<tr>
<td>2016</td>
<td>53</td>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td>56</td>
</tr>
<tr>
<td>2015</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>2014</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

B. Accounting Data

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

<table>
<thead>
<tr>
<th>Year</th>
<th>Residential - Single Family</th>
<th>Residential - Multi-Family</th>
<th>Industrial</th>
<th>Commercial</th>
<th>Institutional</th>
<th>Agricultural</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>168,730,235</td>
<td>10,502,375</td>
<td>844,664</td>
<td>77,759,275</td>
<td>128,087,385</td>
<td>0</td>
<td>385,923,934</td>
</tr>
<tr>
<td>2017</td>
<td>154,859,710</td>
<td>11,173,753</td>
<td>708,869</td>
<td>62,956,733</td>
<td>121,935,648</td>
<td>0</td>
<td>351,634,713</td>
</tr>
<tr>
<td>2016</td>
<td>164,062,439</td>
<td>12,295,531</td>
<td>1,223,705</td>
<td>67,084,145</td>
<td>130,239,715</td>
<td>0</td>
<td>374,905,535</td>
</tr>
<tr>
<td>2015</td>
<td>158,529,503</td>
<td>11,386,244</td>
<td>1,242,135</td>
<td>67,181,995</td>
<td>131,360,641</td>
<td>0</td>
<td>369,700,518</td>
</tr>
<tr>
<td>2014</td>
<td>160,040,419</td>
<td>13,202,187</td>
<td>1,523,090</td>
<td>109,020,151</td>
<td>109,219,408</td>
<td>0</td>
<td>393,005,255</td>
</tr>
</tbody>
</table>

C. Residential Water Use

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

<table>
<thead>
<tr>
<th>Year</th>
<th>Residential - Single Family</th>
<th>Residential - Multi-Family</th>
<th>Total Residential</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>52</td>
<td>3</td>
<td>55</td>
</tr>
<tr>
<td>2017</td>
<td>60</td>
<td>4</td>
<td>64</td>
</tr>
<tr>
<td>2016</td>
<td>63</td>
<td>5</td>
<td>68</td>
</tr>
<tr>
<td>2015</td>
<td>61</td>
<td>4</td>
<td>65</td>
</tr>
<tr>
<td>2014</td>
<td>62</td>
<td>5</td>
<td>67</td>
</tr>
<tr>
<td>Historic Average</td>
<td>60</td>
<td>4</td>
<td>64</td>
</tr>
</tbody>
</table>
UTILITY PROFILE FOR RETAIL WATER SUPPLIER

B. System Input

System input data for the previous five years.
Total System Input = Self-supplied + Imported – Exported

<table>
<thead>
<tr>
<th>Year</th>
<th>Water Produced in Gallons</th>
<th>Purchased/Imported Water in Gallons</th>
<th>Exported Water in Gallons</th>
<th>Total System Input</th>
<th>Total GPCD</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>0</td>
<td>490,605,102</td>
<td>1,299,777</td>
<td>489,305,325</td>
<td>130</td>
</tr>
<tr>
<td>2017</td>
<td>0</td>
<td>484,889,796</td>
<td>1,249,000</td>
<td>483,640,796</td>
<td>130</td>
</tr>
<tr>
<td>2016</td>
<td>0</td>
<td>505,405,102</td>
<td>1,257,122</td>
<td>504,147,980</td>
<td>136</td>
</tr>
<tr>
<td>2015</td>
<td>0</td>
<td>495,263,265</td>
<td>1,345,146</td>
<td>493,918,119</td>
<td>133</td>
</tr>
<tr>
<td>2014</td>
<td>0</td>
<td>469,555,000</td>
<td>1,334,712</td>
<td>468,220,288</td>
<td>127</td>
</tr>
<tr>
<td>Historic 5-year Average</td>
<td>0</td>
<td>489,143,653</td>
<td>1,297,151</td>
<td>487,846,502</td>
<td>131</td>
</tr>
</tbody>
</table>

C. Water Supply System

1. Designed daily capacity of system in gallons: 6,600,000

2. Storage Capacity

2a. Elevated storage in gallons: 1,250,000

2b. Ground storage in gallons: 1,100,000
D. Projected Demands

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

<table>
<thead>
<tr>
<th>Year</th>
<th>Population</th>
<th>Water Demand (gallons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td>12,603</td>
<td>659,522,424</td>
</tr>
<tr>
<td>2021</td>
<td>12,907</td>
<td>667,097,685</td>
</tr>
<tr>
<td>2022</td>
<td>13,219</td>
<td>683,208,094</td>
</tr>
<tr>
<td>2023</td>
<td>13,538</td>
<td>699,707,569</td>
</tr>
<tr>
<td>2024</td>
<td>13,865</td>
<td>716,805,507</td>
</tr>
<tr>
<td>2025</td>
<td>14,200</td>
<td>733,911,530</td>
</tr>
<tr>
<td>2026</td>
<td>14,543</td>
<td>751,635,494</td>
</tr>
<tr>
<td>2027</td>
<td>14,894</td>
<td>769,787,491</td>
</tr>
<tr>
<td>2028</td>
<td>15,254</td>
<td>788,377,859</td>
</tr>
<tr>
<td>2029</td>
<td>15,622</td>
<td>807,417,184</td>
</tr>
</tbody>
</table>

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

Used TWDB projections, projected growth rate formula, and an average of TWDB water consumption

Attached file(s):

<table>
<thead>
<tr>
<th>File Name</th>
<th>File Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bonham Projected Usage.JPG</td>
<td></td>
</tr>
</tbody>
</table>
D. Annual and Seasonal Water Use

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

<table>
<thead>
<tr>
<th>Month</th>
<th>2018</th>
<th>2017</th>
<th>2016</th>
<th>2015</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>36,383,000</td>
<td>35,784,000</td>
<td>36,984,000</td>
<td>36,047,000</td>
<td>38,661,000</td>
</tr>
<tr>
<td>February</td>
<td>30,979,000</td>
<td>31,532,000</td>
<td>32,966,000</td>
<td>30,401,000</td>
<td>33,231,000</td>
</tr>
<tr>
<td>March</td>
<td>39,316,000</td>
<td>37,540,000</td>
<td>35,243,000</td>
<td>35,182,000</td>
<td>36,111,000</td>
</tr>
<tr>
<td>April</td>
<td>34,264,000</td>
<td>35,689,000</td>
<td>35,330,000</td>
<td>32,912,000</td>
<td>35,751,000</td>
</tr>
<tr>
<td>May</td>
<td>40,422,000</td>
<td>40,711,000</td>
<td>37,424,000</td>
<td>33,887,000</td>
<td>39,175,000</td>
</tr>
<tr>
<td>June</td>
<td>45,818,000</td>
<td>40,739,000</td>
<td>41,101,000</td>
<td>37,049,000</td>
<td>41,270,000</td>
</tr>
<tr>
<td>July</td>
<td>52,718,000</td>
<td>44,779,000</td>
<td>55,451,000</td>
<td>47,839,000</td>
<td>50,453,000</td>
</tr>
<tr>
<td>August</td>
<td>49,829,000</td>
<td>46,404,000</td>
<td>53,831,000</td>
<td>57,979,000</td>
<td>46,886,000</td>
</tr>
<tr>
<td>September</td>
<td>39,807,000</td>
<td>47,594,000</td>
<td>45,201,000</td>
<td>51,212,000</td>
<td>42,359,000</td>
</tr>
<tr>
<td>October</td>
<td>38,800,000</td>
<td>42,196,000</td>
<td>45,001,000</td>
<td>49,840,000</td>
<td>37,855,000</td>
</tr>
<tr>
<td>November</td>
<td>3,551,000</td>
<td>35,516,000</td>
<td>39,091,000</td>
<td>36,045,000</td>
<td>33,675,000</td>
</tr>
<tr>
<td>December</td>
<td>36,906,000</td>
<td>36,708,000</td>
<td>37,674,000</td>
<td>36,965,000</td>
<td>34,128,000</td>
</tr>
<tr>
<td>Total</td>
<td>448,793,000</td>
<td>475,192,000</td>
<td>495,297,000</td>
<td>485,358,000</td>
<td>469,555,000</td>
</tr>
</tbody>
</table>
2. The previous five years' gallons of raw water provided to RETAIL customers.

<table>
<thead>
<tr>
<th>Month</th>
<th>2018</th>
<th>2017</th>
<th>2016</th>
<th>2015</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>February</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>March</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>April</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>May</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>June</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>July</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>August</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>September</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>October</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>November</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>December</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

3. Summary of seasonal and annual water use.

<table>
<thead>
<tr>
<th>Year</th>
<th>Summer RETAIL (Treated + Raw)</th>
<th>Total RETAIL (Treated + Raw)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>148,365,000</td>
<td>448,793,000</td>
</tr>
<tr>
<td>2017</td>
<td>131,922,000</td>
<td>475,192,000</td>
</tr>
<tr>
<td>2016</td>
<td>150,383,000</td>
<td>495,297,000</td>
</tr>
<tr>
<td>2015</td>
<td>142,867,000</td>
<td>485,358,000</td>
</tr>
<tr>
<td>2014</td>
<td>138,609,000</td>
<td>469,555,000</td>
</tr>
<tr>
<td><strong>Average in Gallons</strong></td>
<td>5,934,550.00</td>
<td>19,784,958.33</td>
</tr>
</tbody>
</table>
UTILITY PROFILE FOR RETAIL WATER SUPPLIER

E. Water Loss

Water Loss data for the previous five years.

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Water Loss in Gallons</th>
<th>Water Loss in GPCD</th>
<th>Water Loss as a Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>77,939,866</td>
<td>21</td>
<td>15.93 %</td>
</tr>
<tr>
<td>2017</td>
<td>97,433,224</td>
<td>26</td>
<td>20.15 %</td>
</tr>
<tr>
<td>2016</td>
<td>96,512,203</td>
<td>26</td>
<td>19.14 %</td>
</tr>
<tr>
<td>2015</td>
<td>91,499,175</td>
<td>25</td>
<td>18.53 %</td>
</tr>
<tr>
<td>2014</td>
<td>43,803,825</td>
<td>12</td>
<td>9.36 %</td>
</tr>
<tr>
<td>Average</td>
<td>81,437,659</td>
<td>22</td>
<td>16.62 %</td>
</tr>
</tbody>
</table>

F. Peak Day Use

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

<table>
<thead>
<tr>
<th>Year</th>
<th>Average Daily Use (gal)</th>
<th>Peak Day Use (gal)</th>
<th>Ratio (peak/avg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>1,286,452</td>
<td>1506619</td>
<td>1.1711</td>
</tr>
<tr>
<td>2015</td>
<td>1,329,747</td>
<td>1552902</td>
<td>1.1678</td>
</tr>
<tr>
<td>2016</td>
<td>1,356,978</td>
<td>1634597</td>
<td>1.2046</td>
</tr>
<tr>
<td>2017</td>
<td>1,301,895</td>
<td>1433934</td>
<td>1.1014</td>
</tr>
<tr>
<td>2018</td>
<td>1,229,659</td>
<td>1612663</td>
<td>1.3116</td>
</tr>
</tbody>
</table>

G. Summary of Historic Water Use

<table>
<thead>
<tr>
<th>Water Use Category</th>
<th>Historic Average</th>
<th>Percent of Connections</th>
<th>Percent of Water Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residential - Single Family</td>
<td>161,244,461</td>
<td>85.93 %</td>
<td>42.99 %</td>
</tr>
<tr>
<td>Residential - Multi-Family</td>
<td>11,712,018</td>
<td>0.55 %</td>
<td>3.12 %</td>
</tr>
<tr>
<td>Industrial</td>
<td>1,108,492</td>
<td>0.29 %</td>
<td>0.30 %</td>
</tr>
<tr>
<td>Commercial</td>
<td>76,800,459</td>
<td>12.88 %</td>
<td>20.48 %</td>
</tr>
<tr>
<td>Institutional</td>
<td>124,168,559</td>
<td>0.35 %</td>
<td>33.11 %</td>
</tr>
<tr>
<td>Agricultural</td>
<td>0</td>
<td>0.00 %</td>
<td>0.00 %</td>
</tr>
</tbody>
</table>
UTILITY PROFILE FOR RETAIL WATER SUPPLIER

H. System Data Comment Section

Gathered from water billing program and North Texas Municipal Water District Monthly operating report.

Section III: Wastewater System Data

A. Wastewater System Data

1. Design capacity of wastewater treatment plant(s) in gallons per day: 2,500,000

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

<table>
<thead>
<tr>
<th>Water Use Category</th>
<th>Metered</th>
<th>Unmetered</th>
<th>Total Connections</th>
<th>Percent of Total Connections</th>
</tr>
</thead>
<tbody>
<tr>
<td>Municipal</td>
<td>2,974</td>
<td>2,974</td>
<td>86.48 %</td>
<td></td>
</tr>
<tr>
<td>Industrial</td>
<td>10</td>
<td>10</td>
<td>0.29 %</td>
<td></td>
</tr>
<tr>
<td>Commercial</td>
<td>443</td>
<td>443</td>
<td>12.88 %</td>
<td></td>
</tr>
<tr>
<td>Institutional</td>
<td>12</td>
<td>12</td>
<td>0.35 %</td>
<td></td>
</tr>
<tr>
<td>Agricultural</td>
<td>0</td>
<td>0</td>
<td>0.00 %</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>3,439</td>
<td>3,439</td>
<td>100.00 %</td>
<td></td>
</tr>
</tbody>
</table>

3. Percentage of water serviced by the wastewater system: 77.00 %
UTILITY PROFILE FOR RETAIL WATER SUPPLIER

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

<table>
<thead>
<tr>
<th>Month</th>
<th>2018</th>
<th>2017</th>
<th>2016</th>
<th>2015</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>24,876,000</td>
<td>26,929,000</td>
<td>32,424,000</td>
<td>32,598,000</td>
<td>28,140,000</td>
</tr>
<tr>
<td>February</td>
<td>32,696,000</td>
<td>23,131,000</td>
<td>32,045,000</td>
<td>28,653,000</td>
<td>24,390,000</td>
</tr>
<tr>
<td>March</td>
<td>41,220,000</td>
<td>22,876,000</td>
<td>46,682,000</td>
<td>46,812,000</td>
<td>26,853,000</td>
</tr>
<tr>
<td>April</td>
<td>29,111,000</td>
<td>26,057,000</td>
<td>43,577,000</td>
<td>38,617,000</td>
<td>27,961,000</td>
</tr>
<tr>
<td>May</td>
<td>31,886,000</td>
<td>24,210,000</td>
<td>49,772,000</td>
<td>69,789,000</td>
<td>27,872,000</td>
</tr>
<tr>
<td>June</td>
<td>25,222,000</td>
<td>26,977,000</td>
<td>47,313,000</td>
<td>42,782,000</td>
<td>28,133,000</td>
</tr>
<tr>
<td>July</td>
<td>27,887,000</td>
<td>37,739,000</td>
<td>28,803,000</td>
<td>24,541,000</td>
<td>30,433,000</td>
</tr>
<tr>
<td>August</td>
<td>29,787,000</td>
<td>48,274,000</td>
<td>31,570,000</td>
<td>22,219,000</td>
<td>25,250,000</td>
</tr>
<tr>
<td>September</td>
<td>40,903,000</td>
<td>31,163,000</td>
<td>23,239,000</td>
<td>20,995,000</td>
<td>24,927,000</td>
</tr>
<tr>
<td>October</td>
<td>63,783,000</td>
<td>34,830,000</td>
<td>22,896,000</td>
<td>28,270,000</td>
<td>26,987,000</td>
</tr>
<tr>
<td>November</td>
<td>38,285,000</td>
<td>35,767,000</td>
<td>23,268,000</td>
<td>44,846,000</td>
<td>26,075,000</td>
</tr>
<tr>
<td>December</td>
<td>56,690,000</td>
<td>26,624,000</td>
<td>26,181,000</td>
<td>44,375,000</td>
<td>28,951,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>442,346,000</strong></td>
<td><strong>364,577,000</strong></td>
<td><strong>407,770,000</strong></td>
<td><strong>444,497,000</strong></td>
<td><strong>325,972,000</strong></td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Type of Reuse</th>
<th>Total Annual Volume (in gallons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>On-site Irrigation</td>
<td></td>
</tr>
<tr>
<td>Plant wash down</td>
<td>78,000,000</td>
</tr>
<tr>
<td>Chlorination/de-chlorination</td>
<td></td>
</tr>
<tr>
<td>Industrial</td>
<td></td>
</tr>
<tr>
<td>Landscape irrigation (park, golf courses)</td>
<td>0</td>
</tr>
<tr>
<td>Agricultural</td>
<td></td>
</tr>
<tr>
<td>Discharge to surface water</td>
<td></td>
</tr>
<tr>
<td>Evaporation Pond</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>78,000,000</strong></td>
</tr>
</tbody>
</table>
C. Wastewater System Data Comment

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

Information provided by wastewater treatment plant operator.
ATTACHMENT 2

Water Rate Schedule
Sec. 13.03.044  Monthly rates for water service

(a) The monthly rates or charges for water service for all users or customers including, but not limited to, residential, multifamily, nonprofit, religious, educational, institutional, governmental, commercial, industrial, and/or health-care related customers of the city are listed for FY 2016 through FY 2020 in below. Rates become effective on October 1st for each upcoming fiscal year. For example, FY 2016 rates become effective October 1, 2015.

(1) Minimum bill:

<table>
<thead>
<tr>
<th></th>
<th>FY 2016</th>
<th>FY 2017</th>
<th>FY 2018</th>
<th>FY 2019</th>
<th>FY 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot; or less</td>
<td>$27.95</td>
<td>$30.86</td>
<td>$33.72</td>
<td>$36.54</td>
<td>$39.34</td>
</tr>
<tr>
<td>1&quot;</td>
<td>$55.90</td>
<td>$61.72</td>
<td>$67.44</td>
<td>$73.08</td>
<td>$78.68</td>
</tr>
<tr>
<td>1.5&quot;</td>
<td>$106.21</td>
<td>$117.27</td>
<td>$128.14</td>
<td>$138.85</td>
<td>$149.49</td>
</tr>
<tr>
<td>2&quot;</td>
<td>$173.29</td>
<td>$191.33</td>
<td>$209.06</td>
<td>$226.55</td>
<td>$243.91</td>
</tr>
<tr>
<td>3&quot;</td>
<td>$357.76</td>
<td>$395.01</td>
<td>$431.62</td>
<td>$467.71</td>
<td>$503.55</td>
</tr>
<tr>
<td>4&quot;</td>
<td>$480.74</td>
<td>$530.79</td>
<td>$579.98</td>
<td>$628.49</td>
<td>$676.65</td>
</tr>
<tr>
<td>6&quot;</td>
<td>$1,308.06</td>
<td>$1,444.25</td>
<td>$1,578.10</td>
<td>$1,710.07</td>
<td>$1,841.11</td>
</tr>
<tr>
<td>8&quot;</td>
<td>$3,801.20</td>
<td>$4,196.96</td>
<td>$4,585.92</td>
<td>$4,969.44</td>
<td>$5,350.24</td>
</tr>
</tbody>
</table>

(2) Volumetric rate (1,000 gallons)

<table>
<thead>
<tr>
<th></th>
<th>FY 2016</th>
<th>FY 2017</th>
<th>FY 2018</th>
<th>FY 2019</th>
<th>FY 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residential</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0–1,496 gal.</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>1,496–15,000 gal.</td>
<td>$4.91</td>
<td>$5.43</td>
<td>$5.95</td>
<td>$6.47</td>
<td>$6.99</td>
</tr>
<tr>
<td>15,001+ gal.</td>
<td>$5.65</td>
<td>$6.24</td>
<td>$6.84</td>
<td>$7.44</td>
<td>$8.04</td>
</tr>
<tr>
<td>Commercial</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0–1,496 gal.</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>1,496–15,000 gal.</td>
<td>$6.60</td>
<td>$7.30</td>
<td>$8.00</td>
<td>$8.70</td>
<td>$9.40</td>
</tr>
<tr>
<td></td>
<td>FY 2016</td>
<td>FY 2017</td>
<td>FY 2018</td>
<td>FY 2019</td>
<td>FY 2020</td>
</tr>
<tr>
<td>----------------</td>
<td>---------</td>
<td>---------</td>
<td>---------</td>
<td>---------</td>
<td>---------</td>
</tr>
<tr>
<td>15,001+ gal.</td>
<td>$7.59</td>
<td>$8.40</td>
<td>$9.20</td>
<td>$10.01</td>
<td>$10.81</td>
</tr>
<tr>
<td>Governmental</td>
<td>FY 2016</td>
<td>FY 2017</td>
<td>FY 2018</td>
<td>FY 2019</td>
<td>FY 2020</td>
</tr>
<tr>
<td>0−1,496 gal.</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>1,496+ gal.</td>
<td>$7.75</td>
<td>$8.57</td>
<td>$9.39</td>
<td>$10.21</td>
<td>$11.04</td>
</tr>
</tbody>
</table>

(3) Volumetric rate (100 cubic feet):

<table>
<thead>
<tr>
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<th>FY 2018</th>
<th>FY 2019</th>
<th>FY 2020</th>
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<td>Residential</td>
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<td>0−200 cu. ft</td>
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<td>200−2,005 cu. ft</td>
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<td>$6.41</td>
<td>$7.03</td>
<td>$7.64</td>
<td>$8.25</td>
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(b) **Customer inside city limits.** The monthly rates or charges for water service for residential users or customers outside the city limits are calculated at 1.15 the inside the city rates.

(c) **Agreement for annexation.** Prior to delivery of city water to any part of any property lying beyond the corporate limits of the city or partly within and partly without the corporate limits or to any water line, water main or related facility, it is mandatory that a contract of annexation between the city and all owners of such property and of any easement or right-of-way required by the city connecting to such property, including the terms and conditions for extension and maintenance of water service, be
executed by all parties for the annexation to the city of all such property. Every such executed contract shall be filed with the city secretary and later the county clerk’s office prior to delivery of water or the treatment of wastewater by the city.

(d) Water service to areas outside the city limits may be provided from mains existing as of November 9, 2015, to property platted as of that date. No other water/sewer service will be provided outside the city limits after that date except in compliance with this section.

ATTACHMENT 3

Regional Water Planning Group Notification
May 1, 2019

North Texas Municipal Water District  
501 E. Brown Street, PO Box 2408  
Wylie, TX 75098

Re: Water Conservation Plan Transmittal Letter  
City of Bonham, TX

To Whom It May Concern:

The purpose of this letter is to provide the NTMWD Region C Planning Group with one (1) copy of the Water Conservation Plan and Drought Contingency Plan for the City of Bonham, Texas.

Engineering Firm: KSA Engineers, Inc.  
8866 Synergy Drive  
McKinney, TX 75070

Design Engineer: Matthew Armstrong, P.E.  
Phone: (972) 542-2995  
Fax: (972) 542-6750

Owner/Operator: City of Bonham, Texas

If you have any questions regarding this project, please contact me.

Sincerely,

KSA Engineers, Inc.  
TBPE Firm No. 1356

Matthew Armstrong, P.E.  
Design Engineer

enclosures

Cc: Roy V. Floyd, Mayor, City of Bonham  
File: BO-014 & BO-017
May 1, 2019

Texas Commission on Environmental Quality
Resource Protection Team, MC-160
PO Box 13087
Austin, TX 78711-3087

Re: Water Conservation Plan Transmittal Letter
City of Bonham, TX

via UPS Ground

To Whom It May Concern:

The purpose of this letter is to provide the TCEQ with one (1) copy of the Water Conservation Plan and Drought Contingency Plan for the City of Bonham, Texas.

Engineering Firm: KSA Engineers, Inc.
8866 Synergy Drive
McKinney, TX 75070

Design Engineer: Matthew Armstrong, P.E.
Phone: (972) 542-2995       Fax: (972) 542-6750

Owner/Operator: City of Bonham, Texas

If you have any questions regarding this project, please contact me.

Sincerely,

KSA Engineers, Inc.
TBPE Firm No. 1356

Matthew Armstrong, P.E.
Design Engineer

enclosures

Cc: Roy V. Floyd, Mayor, City of Bonham
File: BO-014 & BO-017
May 1, 2019

Texas Water Development Board
1700 North Congress Avenue, PO Box 13231
Austin, TX 78711-3231

Re: Water Conservation Plan Transmittal Letter
City of Bonham, TX

To Whom It May Concern:

The purpose of this letter is to provide the TWDB with one (1) copy of the Water Conservation Plan and Drought Contingency Plan for the City of Bonham, Texas.

Engineering Firm: KSA Engineers, Inc.
8866 Synergy Drive
McKinney, TX 75070

Design Engineer: Matthew Armstrong, P.E.
Phone: (972) 542-2995 Fax: (972) 542-6750

Owner/Operator: City of Bonham, Texas

If you have any questions regarding this project, please contact me.

Sincerely,

KSA Engineers, Inc.
TBPE Firm No. 1356

Matthew Armstrong, P.E.
Design Engineer

enclosures

Pc: Roy V. Floyd, Mayor, City of Bonham
File: BO-014 & BO-017

ksaeng.com
ATTACHMENT 4

Drought Contingency Plan
Drought Contingency Plan
for a Retail Public Water Supplier
Texas Commission on Environmental Quality

Drought Contingency Plans must be formally adopted by the governing body of the water provider and documentation of adoption must be submitted with the plan.

Name: City of Bonham
Address: 514 Chestnut Street, Bonham, TX 75418
Telephone Number: (903) 583-7555 Fax: (903) 583-5761
Water Right ID Number: 4925
Regional Water Planning Group: Group C
CCN Number: 11186
PWS Number: 0740001
Form Completed by: Sean Pate
Title: City Manager

Water Conservation Coordinator responsible for implementation: Sean Pate Phone: (903) 583-7555

Signature: Date: / /

Section I: Declaration of Policy, Purpose, and Intent
In order to conserve the available water supply and protect the integrity of water supply facilities, with particular regard for domestic water use, sanitation, and fire protection, and to protect and preserve public health, welfare, and safety and minimize the adverse impacts of water supply shortage or other water supply emergency conditions, the City of Bonham hereby adopts the following regulations and restrictions on the delivery and consumption of water.

Water uses regulated or prohibited under this Drought Contingency Plan (the Plan) are considered to be non-essential and continuation of such uses during times of water shortage or other emergency water supply condition are deemed to constitute a waste of water which subjects the offender(s) to penalties as defined in Section X of this Plan.

Section II: Public Involvement
Opportunity for the public to provide input into the preparation of the Plan was provided by the City of Bonham by means of news releases, public notices, and a public hearing to hear comments on the proposed plan.
Section III: Public Education
The City of Bonham will periodically provide the public with information about the Plan, including information about the conditions under which each stage of the Plan is to be initiated or terminated and the drought response measures to be implemented in each stage. This information will be provided by means of a community newsletter, news releases, and an annual status report on the water utility.

Section IV: Coordination with Regional Water Planning Groups
The service area of the City of Bonham is located within the Region C Planning Area and the City of Bonham has provided a copy of this Plan to the Region C Planning Group.

Section V: Authorization
The city manager or his/her designee is hereby authorized and directed to implement the applicable provisions of this Plan upon determination that such implementation is necessary to protect public health, safety, and welfare. The city manager or his/her designee shall have the authority to initiate or terminate drought or other water supply emergency response measures as described in this Plan.

Section VI: Application
The provisions of this Plan shall apply to all persons, customers, and property utilizing water provided by the City of Bonham. The terms “person” and “customer” as used in the Plan include individuals, corporations, partnerships, associations, and all other legal entities.

Section VII: Definitions
For the purposes of this Plan, the following definitions shall apply:

Aesthetic water use: water use for ornamental or decorative purposes such as fountains, reflecting pools, and water gardens.

Commercial and institutional water use: water use which is integral to the operations of commercial and non-profit establishments and governmental entities such as retail establishments, hotels and motels, restaurants, and office buildings.

Conservation: those practices, techniques, and technologies that reduce the consumption of water, reduce the loss or waste of water, improve the efficiency in the use of water or increase the recycling and reuse of water so that a supply is conserved and made available for future or alternative uses.

Customer: any person, company, or organization using water supplied by the City of Bonham.

Domestic water use: water use for personal needs or for household or sanitary purposes such as drinking, bathing, heating, cooking, sanitation, or for cleaning a residence, business, industry, or institution.

Even number address: street addresses, box numbers, or rural postal route numbers ending in 0, 2, 4, 6, or 8 and locations without addresses.
**Industrial water use:** the use of water in processes designed to convert materials of lower value into forms having greater usability and value.

**Landscape irrigation use:** water used for the irrigation and maintenance of landscaped areas, whether publicly or privately owned, including residential and commercial lawns, gardens, golf courses, parks, and rights-of-way and medians.

**Non-essential water use:** water uses that are not essential nor required for the protection of public, health, safety, and welfare, including:

(a) irrigation of landscape areas, including parks, athletic fields, and golf courses, except otherwise provided under this Plan;
(b) use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle;
(c) use of water to wash down any sidewalks, walkways, driveways, parking lots, tennis courts, or other hard-surfaced areas;
(d) use of water to wash down buildings or structures for purposes other than immediate fire protection;
(e) flushing gutters or permitting water to run or accumulate in any gutter or street;
(f) use of water to fill, refill, or add to any indoor or outdoor swimming pools or Jacuzzi-type pools;
(g) use of water in a fountain or pond for aesthetic or scenic purposes except where necessary to support aquatic life;
(h) failure to repair a controllable leak(s) within a reasonable period after having been given notice directing the repair of such leak(s); and
(i) use of water from hydrants for construction purposes or any other purposes other than firefighting.

**Odd numbered address:** street addresses, box numbers, or rural postal route numbers ending in 1, 3, 5, 7, or 9.
Section VIII: Criteria for Initiation and Termination of Drought Response Stages

The city manager or his/her designee shall monitor water supply and/or demand conditions on a routine basis and shall determine when conditions warrant initiation or termination of each stage of the Plan, that is, when the specified “triggers” are reached.

The triggering criteria described below are based on known system capacity limits.

Stage 1 Triggers – MILD Water Shortage Conditions

Requirements for initiation
Customers shall be requested to voluntarily conserve water and adhere to the prescribed restrictions on certain water uses, defined in Section VII Definitions, when:

1. Daily water demand equals or exceeds 2.5 million gallons for 7 consecutive days or 3.0 million gallons on a single day.

2. Continually falling treated water reservoir levels which do not refill above 100 percent overnight.

3. Short or long term equipment failure or failure to maintain 35 psi at up to 250 service locations or up to ten hydrants in a localized area.

4. Combined storage falls below 90% of total capacity at the beginning of a 24-hour demand period.

Requirements for termination
Stage 1 of the Plan may be rescinded when all of the conditions listed as triggering events have ceased to exist for a period of 3 consecutive days.

Stage 2 Triggers – MODERATE Water Shortage Conditions

Requirements for initiation
Customers shall be required to comply with the requirements and restrictions on certain non-essential water uses provided in Section IX of this Plan when one or more of the following occurs:

1. If Stage 1 measures fail to alleviate the continued triggering conditions.

2. Daily water demand equals or exceeds 2.5 million gallons for 14 consecutive days or 3.0 million gallons on a single day.

3. Continually falling treated water reservoir levels which do not refill above 100 percent overnight.

4. Short or long term equipment failure or failure to maintain 35 psi at up to 500 service locations or up to fifteen hydrants in a localized area.
5. Combined storage falls below 80% of total capacity at the beginning of a 24-hour demand period.

Requirements for termination
Stage 2 of the Plan may be rescinded when all of the conditions listed as triggering events have ceased to exist for a period of 3 consecutive days. Upon termination of Stage 2, Stage 1 becomes operative.

Stage 3 Triggers – SEVERE Water Shortage Conditions

Requirements for initiation
Customers shall be required to comply with the requirements and restrictions on certain non-essential water uses for Stage 3 of this Plan when one or more of the following occurs:

1. If Stage 2 measures fail to alleviate the continued triggering conditions.

2. Daily water demand equals or exceeds 3.0 million gallons for 14 consecutive days or 3.5 million gallons on a single day.

3. Continually falling treated water reservoir levels which do not refill above 95 percent overnight.

4. Combined storage falls below 70% of total capacity at the beginning of a 24-hour demand period.

Requirements for termination
Stage 3 of the Plan may be rescinded when all of the conditions listed as triggering events have ceased to exist for a period of 3 consecutive days. Upon termination of Stage 3, Stage 2 becomes operative.

Stage 4 Triggers – CRITICAL Water Shortage Conditions

Requirements for initiation
Customers shall be required to comply with the requirements and restrictions on certain non-essential water uses for Stage 4 of this Plan when one or more of the following occurs:

1. If Stage 3 measures fail to alleviate the continued triggering conditions.

2. Daily water demand equals or exceeds 3.5 million gallons for 4 consecutive days or 4.0 million gallons on a single day.

3. Continually falling treated water reservoir levels which do not refill above 90 percent overnight.

4. Combined storage falls below 65% of total capacity at the beginning of a 24-hour demand period.
Requirements for termination
Stage 4 of the Plan may be rescinded when all of the conditions listed as triggering events have ceased to exist for a period of 3 consecutive days. Upon termination of Stage 4, Stage 3 becomes operative.

Stage 5 Triggers – EMERGENCY Water Shortage Conditions

Requirements for initiation
Customers shall be required to comply with the requirements and restrictions for Stage 5 of this Plan when the city manager, or his/her designee, determines that a water supply emergency exists based on:

1. Major water line breaks, or pump or system failures occur, which cause unprecedented loss of capability to provide water service;
2. Natural or man-made contamination of the water supply sources.
3. Power failure, which prevents the delivery of water to the water system.
4. A major equipment malfunction at the raw water pump station or at the treatment plant, which prevents the delivery of water to the water system.
5. Any other unanticipated situation that limits the distribution of treated water.

Requirements for termination
Stage 5 of the Plan may be rescinded when all of the conditions listed as triggering events have ceased to exist for a period of 3 consecutive days.

Section IX: Drought Response Stages
The city manager, or his/her designee, shall monitor water supply and/or demand conditions on a daily basis and, in accordance with the triggering criteria set forth in Section VIII of this Plan, shall determine that a mild, moderate, severe, critical, emergency or water shortage condition exists and shall implement the following notification procedures:

Notification
Notification of the Public:
The city manager or his/her designee shall notify the public by means of:

- Notice in newspaper
- General news release to print, electronic, television, and radio media
- Public service announcements
- Public notice postings
- Take home school fliers
Additional Notification:
The city manager or his/her designee shall notify directly, or cause to be notified directly, the following individuals and entities:

- Mayor and Members of the Governing Body
- Fire Chief
- City and County Emergency Management Coordinators
- County Judge and Commissioners Court
- State Department of Emergency Management
- TCEQ
- Major water users
- Wholesale water customers
- Hospitals, Prisons
- Department of Public Utilities

Stage 1 Response – MILD Water Shortage Conditions

**Target:** Achieve a 10 percent reduction in daily water demand.

**Best Management Practices for Supply Management:**

(a) City manager will inform customers that a mild trigger condition has been reached and request that all municipal water customers voluntarily seek ways to reduce water use.

(b) Discuss the situation with the local news media.

(c) Accelerate public information efforts to teach voluntary water use reductions.

**Voluntary Water Use Restrictions for Reducing Demand:**

(a) Water customers are requested to voluntarily limit the irrigation of landscaped areas to Sundays and Thursdays for customers with a street address ending in an even number (0, 2, 4, 6 or 8), and Saturdays and Wednesdays for water customers with a street address ending in an odd number (1, 3, 5, 7 or 9), and to irrigate landscapes only between the hours of midnight and 10:00 a.m. and 8:00 p.m. to midnight on designated watering days.

(b) All operations of the City of Bonham shall adhere to water use restrictions prescribed for Stage 2 of the Plan.

(c) Water customers are requested to practice water conservation and to minimize or discontinue water use for non-essential purposes.
Stage 2 Response – MODERATE Water Shortage Conditions

**Target:** Achieve a 15 percent reduction in daily water demand.

Best Management Practices for Supply Management:

(a) City manager will inform customers that a moderate trigger condition has been reached and request that all municipal water customers eliminate non-essential, outside water use and advertise a voluntary lawn-watering schedule during non-peak hours.

(b) Continue to discuss the severity of the situation with the local news media.

(c) Communicate to customers on methods that can reduce the quantity of water needed for drinking, cooking, bathing, and laundry.

Water Use Restrictions for Demand Reduction:
Under threat of penalty for violation, the following water use restrictions shall apply to all persons:

(a) Irrigation of landscaped areas with hose-end sprinklers or automatic irrigation systems shall be limited to Sundays and Thursdays for customers with a street address ending in an even number (0, 2, 4, 6 or 8), and Saturdays and Wednesdays for water customers with a street address ending in an odd number (1, 3, 5, 7 or 9), and irrigation of landscaped areas is further limited to the hours of 12:00 midnight until 10:00 a.m. and between 8:00 p.m. and 12:00 midnight on designated watering days. However, irrigation of landscaped areas is permitted at any time if it is by means of a hand-held hose, a faucet filled bucket or watering can of five (5) gallons or less, or drip irrigation system.

(b) Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle is prohibited except on designated watering days between the hours of 12:00 midnight and 10:00 a.m. and between 8:00 p.m. and 12:00 midnight. Such washing, when allowed, shall be done with a hand-held bucket or a hand-held hose equipped with a positive shutoff nozzle for quick rises. Vehicle washing may be done at any time on the immediate premises of a commercial car wash or commercial service station. Further, such washing may be exempted from these regulations if the health, safety, and welfare of the public is contingent upon frequent vehicle cleansing, such as garbage trucks and vehicles used to transport food and perishables.

(c) Use of water to fill, refill, or add to any indoor or outdoor swimming pools, wading pools, or Jacuzzi-type pools is prohibited except on designated watering days between the hours of 12:00 midnight and 10:00 a.m. and between 8 p.m. and 12:00 midnight.

(d) Operation of any ornamental fountain or pond for aesthetic or scenic purposes is
prohibited except where necessary to support aquatic life or where such fountains or ponds are equipped with a recirculation system.

(e) Use of water from hydrants shall be limited to firefighting, related activities, or other activities necessary to maintain public health, safety, and welfare, except that use of water from designated fire hydrants for construction purposes may be allowed under special permit from the City of Bonham.

(f) Use of water for the irrigation of golf course greens, tees, and fairways is prohibited except on designated watering days between the hours 12:00 midnight and 10:00 a.m. and between 8 p.m. and 12:00 midnight. However, if the golf course utilizes a water source other than that provided by the City of Bonham, the facility shall not be subject to these regulations.

(g) All restaurants are prohibited from serving water to patrons except upon request of the patron.

(h) The following uses of water are defined as non-essential and are prohibited:

1. wash down of any sidewalks, walkways, driveways, parking lots, tennis courts, or other hard-surfaced areas;
2. use of water to wash down buildings or structures for purposes other than immediate fire protection;
3. use of water for dust control;
4. flushing gutters or permitting water to run or accumulate in any gutter or street; and
5. failure to repair a controllable leak(s) within a reasonable period after having been given notice directing the repair of such leak(s).

Stage 3 Response – SEVERE Water Shortage Conditions

**Target:** Achieve a 20 percent reduction in daily water demand.

**Best Management Practices for Supply Management:**

(a) City manager will inform customers that a severe trigger condition has been reached and issue a mandatory outside watering use schedule.

(b) Continue to discuss the severity of the situation with the local news media.

(c) Notification of mandatory restrictions to be sent to Southbound Water Supply.

(d) Continue all other measures from previous stages that are not contradictory.

**Water Use Restrictions for Demand Reduction:**
All requirements of Stage 2 shall remain in effect during Stage 3 except:
(a) Irrigation of landscaped areas shall be limited to designated watering days between the hours of 12:00 midnight and 10:00 a.m. and between 8 p.m. and 12:00 midnight and shall be by means of hand-held hoses, hand-held buckets, drip irrigation, or permanently installed automatic sprinkler system only. The use of hose-end sprinklers is prohibited at all times.

(b) The watering of golf course tees is prohibited unless the golf course utilizes a water source other than that provided by the City of Bonham.

(c) The use of water for construction purposes from designated fire hydrants under special permit is to be discontinued.

Stage 4 Response – CRITICAL Water Shortage Conditions

Target: Achieve a 30 percent reduction in daily water demand.

Best Management Practices for Supply Management:

(a) City manager will inform customers that a critical trigger condition has been reached and issue a revised mandatory outside watering use schedule.

(b) Continue to discuss the severity of the situation with the local news media.

(c) Notification of revised mandatory restrictions to be sent to Southbound Water Supply.

(d) Continue all other measures from previous stages that are not contradictory.

Water Use Restrictions for Reducing Demand: All requirements of Stage 2 and 3 shall remain in effect during Stage 4 except:

(a) Irrigation of landscaped areas shall be limited to designated watering days between the hours of 6:00 a.m. and 10:00 a.m. and between 8:00 p.m. and 12:00 midnight and shall be by means of hand-held hoses, hand-held buckets, or drip irrigation only. The use of hose-end sprinklers or permanently installed automatic sprinkler systems are prohibited at all times.

(b) Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle not occurring on the premises of a commercial car wash and commercial service stations and not in the immediate interest of public health, safety, and welfare is prohibited. Further, such vehicle washing at commercial car washes and commercial service stations shall occur only between the hours of 6:00 a.m. and 10:00 a.m. and between 6:00 p.m. and 10 p.m.

(c) The filling, refilling, or adding of water to swimming pools, wading pools, and
Jacuzzi-type pools is prohibited.

(d) Operation of any ornamental fountain or pond for aesthetic or scenic purposes is prohibited except where necessary to support aquatic life or where such fountains or ponds are equipped with a recirculation system.

(e) No application for new, additional, expanded, or increased-in-size water service connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind shall be approved, and time limits for approval of such applications are hereby suspended for such time as this drought response stage or a higher-numbered stage shall be in effect.

Stage 5 Response – EMERGENCY Water Shortage Conditions

Target: Achieve a 35 percent reduction in daily water demand.

Best Management Practices for Supply Management:

(a) City manager will inform customers that a critical trigger condition has been reached and issue a revised mandatory outside watering use schedule.

(b) Continue to discuss the severity of the situation with the local news media.

(c) Notification of revised mandatory restrictions to be sent to Southbound Water Supply.

(d) Continue all other measures from previous stages that are not contradictory.

(e) The City of Bonham is interconnected with Bois d' Arc M.U.D. In an emergency water shortage, if necessary, Bois d' Arc M.U.D. can supply water to the City.

Water Use Restrictions for Reducing Demand. All requirements of Stage 2, 3, and 4 shall remain in effect during Stage 5 except:

(a) Irrigation of landscaped areas is absolutely prohibited.

(b) Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle is absolutely prohibited.
Section X: Enforcement

(a) No person shall knowingly or intentionally allow the use of water from the City of Bonham for residential, commercial, industrial, agricultural, governmental, or any other purpose in a manner contrary to any provision of this Plan, or in an amount in excess of that permitted by the drought response stage in effect at the time pursuant to action taken by the city manager, or his/her designee, in accordance with provisions of this Plan.

(b) Any person who violates this Plan is guilty of a misdemeanor and, upon conviction shall be punished by a fine of not more than five hundred dollars ($500). Each day that one or more of the provisions in this Plan is violated shall constitute a separate offense. If a person is convicted of three or more distinct violations of this Plan, the city manager shall, upon due notice to the customer, be authorized to discontinue water service to the premises where such violations occur. Services discontinued under such circumstances shall be restored only upon payment of a re-connection charge, hereby established at $12.00 if the reconnection is requested before 4:00 PM on a weekday and $24.00 if the reconnection is requested after 4:00 PM on a weekday, and any other costs incurred by the City of Bonham in discontinuing service. In addition, suitable assurance must be given to the city manager that the same action shall not be repeated while the Plan is in effect. Compliance with this plan may also be sought through injunctive relief in the district court.

(c) Any person, including a person classified as a water customer of the City of Bonham, in apparent control of the property where a violation occurs or originates shall be presumed to be the violator, and proof that the violation occurred on the person’s property shall constitute a rebuttable presumption that the person in apparent control of the property committed the violation, but any such person shall have the right to show that he/she did not commit the violation. Parents shall be presumed to be responsible for violations of their minor children and proof that a violation, committed by a child, occurred on property within the parents’ control shall constitute a rebuttable presumption that the parent committed the violation, but any such parent may be excused if he/she proves that he/she had previously directed the child not to use the water as it was used in violation of this Plan and that the parent could not have reasonably known of the violation.

(d) Any employee of the City of Bonham, police officer, or other employee designated by the city manager, may issue a citation to a person he/she reasonably believes to be in violation of this Ordinance. The citation shall be prepared in duplicate and shall contain the name and address of the alleged violator, if known, the offense charged, and shall direct him/her to appear in the municipal court on the date shown on the citation for which the date shall not be less than 3 days nor more than 5 days from the date the citation was issued. The alleged violator shall be served a copy of the citation. Service of the citation shall be complete upon delivery of the citation to the alleged violator, to an agent or employee of a violator, or to a person over 14 years of age who is a member of the violator’s immediate family or is a resident of the violator’s residence. The alleged violator shall appear in municipal court to enter a plea of guilty or not guilty for the violation of this Plan. If the alleged violator fails to appear in the municipal court, a warrant for his/her arrest may be issued. A summons to appear may be issued in lieu of an arrest warrant. These cases shall be expedited and given preferential setting in the municipal court before all other cases.
Section XI: Variances
The city manager or his/her designee, may, in writing, grant temporary variance for existing water uses otherwise prohibited under this Plan if it is determined that failure to grant such variance would cause an emergency condition adversely affecting the health, sanitation, or fire protection for the public or the person requesting such variance and if one or more of the following conditions are met:

(a) Compliance with this Plan cannot be technically accomplished during the duration of the water supply shortage or other condition for which the Plan is in effect.

(b) Alternative methods can be implemented which will achieve the same level of reduction in water use.

Persons requesting an exemption from the provisions of this Ordinance shall file a petition for variance with the City of Bonham within 5 days after the Plan or a particular drought response stage has been invoked. All petitions for variances shall be reviewed by the city manager, or his/her designee, and shall include the following:

(a) Name and address of the petitioner(s).

(b) Purpose of water use.

(c) Specific provision(s) of the Plan from which the petitioner is requesting relief.

(d) Detailed statement as to how the specific provision of the Plan adversely affects the petitioner or what damage or harm will occur to the petitioner or others if petitioner complies with this Ordinance.

(e) Description of the relief requested.

(f) Period of time for which the variance is sought.

(g) Alternative water use restrictions or other measures the petitioner is taking or proposes to take to meet the intent of this Plan and the compliance date.

(h) Other pertinent information.
ATTACHMENT 5

Ordinance Adopting Water Conservation Plan
Adoption of Water Conservation & Drought Contingency Plans

ORDINANCE NO. 1377

AN ORDINANCE ADOPTING A REVISED WATER CONSERVATION AND DROUGHT CONTINGENCY PLANS FOR THE CITY OF BONHAM TO PROMOTE RESPONSIBLE USE OF WATER AND ESTABLISHING CRITERIA FOR THE INITIATION AND TERMINATION OF DROUGHT RESPONSE STAGES INCLUDING RESTRICTIONS AND PROVIDING FOR PENALTIES AND/OR SEVERABILITY AND AN EFFECTIVE DATE.

WHEREAS, the City of Bonham, Texas (City), recognizes that the amount of water available to its citizens and customers is limited; and

WHEREAS, the City recognizes that drought, system failure and other acts of God may occur and that the City cannot guarantee an uninterrupted water supply for all purposes at all times; and

WHEREAS, the City desires to conserve water resources and prepare for drought; and

WHEREAS, the City desires to comply with Section 11.1271 of the Texas Water Code and applicable rules of the Texas Commission on Environmental Quality which require these plans for all public water supply systems; and

WHEREAS, the City desires to comply with the rules of the Texas Water Development Board should it decide to avail itself of various financial assistance programs found in Title 31, Texas Administrative Code Chapter 363; and

WHEREAS, pursuant to Chapter 54 of the Local Government Code and in the best interests of its citizens, the City is authorized to adopt Ordinances it deems are necessary and expedient to preserve and conserve its water resources and to prepare for drought;

NOW THEREFORE, BE IT RESOLVED AND ORDAINED BY THE CITY COUNCIL OF THE CITY OF BONHAM, TEXAS THAT:

Section 1. The City Council does hereby find and declare that sufficient and timely written notice of place and subject matter of this meeting adopting this Ordinance was posted. The City Council further ratifies, approves and confirms such written notice and the posting thereof.

Section 2. The City Council adopts the Revised Water Conservation & Drought Contingency Plans attached to this ordinance. All ordinances that are in conflict with the provisions of this Ordinance are hereby repealed.
Section 3. Should any paragraph, sentence, clause, phrase or word of this Ordinance be declared unconstitutional or invalid for any reason, the remainder of this Ordinance shall not be affected.

Section 4. The City Secretary is hereby authorized and directed to publish this Ordinance.

Section 5. The Mayor or his designee is hereby directed to file a copy of the Plan and this Ordinance with the Texas Water Development Board in accordance with Title 31, Chapter 363 of the Texas Administrative Code.

Section 6. This Ordinance shall take effect after passage and publication.

Passed and Approved by the City council on this 10 day of June, 2019.

[Signature]
Roy V. Floyd, Mayor

Attest:

[Signature]
Heather Stockton, City Secretary