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Trinity River Authority of Texas
Bardwell Reservoir, Joe Pool Reservoir and Navarro Mills Reservoir
Water Conservation Plan & Drought Contingency Plan

1. INTRODUCTION

The Trinity River Authority of Texas (Authority) is a governmental agency of the State of Texas created as a conservation and reclamation district under Article XVI, Section 59 of the Constitution pursuant to Chapter 518, Acts of the 54th Legislature of Texas, Regular Session, 1955, as amended. The Authority is empowered to construct, own and operate wholesale water supply, treatment, and distribution facilities and wholesale sewerage gathering, transmission, treatment, and disposal facilities, to charge for such services, and to make contracts in reference thereto with municipalities and others.

The Authority’s defined territory includes all of Dallas, Tarrant, Ellis, Navarro, Chambers Counties, and the principal watershed portions of Anderson, Freestone, Henderson, Houston, Kaufman, Leon, Madison, Polk, San Jacinto, Trinity, Walker, and Liberty Counties. The Authority is governed by a Board of 25 directors who are appointed by the Governor with the advice and consent of the Texas Senate. The first directors were appointed for staggered terms, and directors thereafter have served six-year terms. Three of the directors are appointed from the area-at-large; three directors are from Tarrant County; four are from Dallas County; and one director is from each of the other 15 counties.

This Water Conservation Plan and Drought Contingency Plan pertain to the use of water by the Authority's Contracting Parties of the Bardwell Reservoir, Joe Pool Reservoir and Navarro Mills Reservoir. The plans are intended to meet the requirements of the Texas Commission on Environmental Quality (TCEQ) and the Texas Water Development Board (TWDB).

2. WATER CONSERVATION PLAN

2.1 Introduction

The Authority currently provides wholesale raw water to:

• two Contracting Parties of the Bardwell Reservoir;
• four Contracting Parties of Joe Pool Reservoir; however only two currently utilize their contract entitlements; and
• four Contracting Parties of the Navarro Mills Reservoir; However only one current utilizes its contract entitlement.
As the contracting parties retail utility systems are separate from the Authority’s raw water system, the Authority does not have the ability to implement most of the water conservation measures discussed in this Program. The contracting parties will be able to implement these measures as a part of their respective retail water supply operations. The Authority's role in this program will include the administration and promotion of the Water Conservation Plan, public education and information, and investigations into wastewater reuse.

2.2 PLANNING AREA DESCRIPTION

2.2.1 Bardwell Reservoir

Bardwell Reservoir is located at river mile 5.0 on Waxahachie Creek within the Chambers Creek watershed of the Trinity River Basin. The Reservoir is in Ellis County, Texas, 5 miles south of Ennis and 15 miles southeast of Waxahachie. The Project was designed to control floodwaters and provide water for municipal, industrial and recreational uses.

The Authority currently holds Certificate of Adjudication No. 08-5021 for water stored in Bardwell Reservoir, the physical appurtenances of which are owned by the United States of America and operated by the U.S. Army Corps of Engineers. The Authority entered into contracts with the City of Ennis and the Ellis County Water Control Improvement District Number One (District) for the diversion and use of water stored in Bardwell Reservoir. The Certificate, as amended, authorizes the impoundment of 54,900 acre-feet and the diversion of water from the reservoir for municipal and industrial purposes not to exceed 9,600 acre-feet per year. It also allows for the diversions of an additional 3,696 acre-feet per annum for the City of Ennis and 5,128.5 acre-feet per annum for the District based upon wastewater discharges into Bardwell Reservoir.

The natural yield of the reservoir is divided between the two Authority customers with Ennis receiving 55 percent and the District receiving 45 percent. These two contracting parties separately own and operate surface water treatment plants. The Ennis plant is located on the southeast shore of Bardwell Reservoir. The District's treatment plant is located upstream at Lake Waxahachie. The District maintains a raw water pump station at Bardwell Reservoir to pump water into Lake Waxahachie. The Authority does not own any existing diversion points in the reservoir.

The planning area of the Bardwell Reservoir includes the following:

- The City of Ennis and its customer East Garrett Water Supply Corporation (located north of Ennis); and
- The District's service area.
2.2.2 Joe Pool Reservoir

The Authority is the local sponsor of Joe Pool Reservoir, which is located on Mountain Creek, a tributary of the West Fork of the Trinity River. In 1976, the Authority acquired the right to use the conservation storage space from the Corps of Engineers along with water right No. 08-3404 from the TCEQ to impound 176,900 acre-feet and divert 17,000 acre-feet of water from the reservoir per year. The authority in turn contracted with the cities of Cedar Hill, Midlothian, Grand Prairie and Duncanville for the yield of Joe Pool Lake.

The Contracts with the customers specify that each party is entitled to a percentage of the conservation yield as follows:

<table>
<thead>
<tr>
<th>City</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cedar Hill</td>
<td>43.21%</td>
</tr>
<tr>
<td>Midlothian</td>
<td>39.19%</td>
</tr>
<tr>
<td>Grand Prairie</td>
<td>10.56%</td>
</tr>
<tr>
<td>Duncanville</td>
<td>7.04%</td>
</tr>
</tbody>
</table>

The Authority owns an existing diversion point in the Reservoir; however, this diversion has been inactive since construction.

In 1985, the Authority entered into contracts with Cedar Hill, Duncanville and Grand Prairie to create the Lakeview Regional WSP to include a raw water intake structure and raw water pump station at Joe Pool Reservoir. The City of Midlothian through the Midlothian Water District made the decision to develop a separate raw-water pump station and treatment plant and did not participate in the regional system. As a result, the Authority issued contract revenue bonds to construct components of an intake structure that would be significantly more expensive to construct after the impoundment of water in the lake. The Authority will continue to plan and negotiate additional contracts with the three cities in order to implement a regional water treatment plant and distribution pipeline to deliver treated water to the three cities. At the present time, the Midlothian Water District is treating and using water from Joe Pool Reservoir for municipal water needs. The City of Grand Prairie is using a limited amount of raw water for irrigation purposes.

The planning area of the Joe Pool Reservoir includes the following:

- The City of Midlothian. The city supplies treated water to portions of the cities of Mountain Peak, Venus, and Sardis;
- The City of Cedar Hill;
- The City of Duncanville; and
- The City of Grand Prairie.
The cities of Cedar Hill, Duncanville and Grand Prairie currently have long-term water contracts with the City of Dallas, which mitigates immediate needs for those cities to use JPL as a water supply. However, Joe Pool Lake is planned as a future water supply for these parties.

### 2.2.3 Navarro Mills Reservoir

Navarro Mills Reservoir is located 16 miles southwest of Corsicana, Texas in the west central portion of Navarro County and in the southeastern portion of Hill County. The Reservoir was created by placing a dam on Richland Creek, a tributary to the Trinity River. Contract No. DA-41-443-CIVENG-59-671 between the United States of America and the Authority, granted the Authority the right to utilize all of the storage space in the Reservoir below the elevation 424.5 feet above mean sea level. Texas Water Commission Permit No. 1948 was issued to the Authority on January 13, 1960 and was amended on November 12, 1982 and December 12, 1996. The permit as amended authorizes the Authority to impound 63,300 acre-feet of water within Navarro Mills Reservoir and to divert 19,400 acre-feet per year from the reservoir. The Authority does not own any existing diversion points in the Reservoir.

The amount of contract of each of the wholesale customers are described below.

<table>
<thead>
<tr>
<th>Purchaser</th>
<th>Amount (Acre-Feet/Year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>City of Corsicana</td>
<td>17,460</td>
</tr>
<tr>
<td>ARCOSA</td>
<td>450</td>
</tr>
<tr>
<td>City of Dawson</td>
<td>368</td>
</tr>
<tr>
<td>Post Oak WSC</td>
<td>353</td>
</tr>
</tbody>
</table>

### 2.3 Conservation Goals

The Authority’s water conservation goals are to: (1) provide an adequate supply of suitable raw water to meet the needs of its wholesale customers; and to (2) encourage its wholesale customers to adopt and implement water conservation plans that will reduce per capita and peak use demands.

The Authority’s water conservation program is predicated on the fact that the implementation of conservation measures must occur largely at the local level. The Authority’s program is focused on encouraging and supporting initiatives by wholesale customers.

TCEQ regulations state that all municipal water right holders set per capita water consumption goals in gallons per capita per day (gpcd) along with goals for a maximum acceptable level of unaccounted-for water (i.e. water lost from the system). The gpcd calculation, as defined by TCEQ, is the total average daily amount of water diverted or pumped for treatment by potable uses divided by the population served.
In order to set a wholesale water supplier goal for municipal water conservation, baseline per capita water use must first be determined. It was determined to use the Year 2016 Water Use Data from the Texas Water Development Board Water User Group Entity Detailed gpcd Report as inputs for a system-wide calculation of municipal gpcd. Using these data, the gpcd for each project is summarized in the following table:

<table>
<thead>
<tr>
<th>TRA Project</th>
<th>Wholesale Customer</th>
<th>Estimated Population</th>
<th>Total Net Water Use (Gallons)</th>
<th>Total Net Water Use (AF)</th>
<th>GPCD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bardwell</td>
<td>Ennis</td>
<td>18,155</td>
<td>763,560,000</td>
<td>2,343</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Waxahachie (Ellis Count Water Control &amp; Improvement District #1)</td>
<td>31,843</td>
<td>1,718,861,929</td>
<td>5,275</td>
<td>136</td>
</tr>
<tr>
<td>Joe Pool</td>
<td>Cedar Hill</td>
<td>47,168</td>
<td>2,228,066,296</td>
<td>6,838</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Duncanville</td>
<td>39,256</td>
<td>1,351,255,850</td>
<td>4,147</td>
<td>116</td>
</tr>
<tr>
<td></td>
<td>Grand Prairie</td>
<td>200,289</td>
<td>8,444,658,018</td>
<td>25,916</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Midlothian</td>
<td>15,879</td>
<td>832,510,721</td>
<td>2,555</td>
<td></td>
</tr>
<tr>
<td>Navarro Mills</td>
<td>Corsicana</td>
<td>25,140</td>
<td>1,504,725,836</td>
<td>4,618</td>
<td>164</td>
</tr>
</tbody>
</table>


As shown in the table, City of Ennis and Ellis County Water Control and Improvement District #1 reported a total net water use of approximately 7,618 AF in the Year 2016. It is important to note that this value includes water used from other sources by these entities. Using population estimates for the same year from the TWDB, these entities had a combined population of approximately 49,998. The gpcd usage for Bardwell Reservoir municipal customers, using 2016 TWDB water use and population data is 136 gpcd, without deducting conservation savings. This water use rate has decreased significantly from 173 in 2011 to 136 in 2016, despite a slight increase in the population. **Projecting a five and ten-year per capita use goal forward from 2016 results in a 2024 goal and a 2029 goal of 140 respectively.** This was determined by cumulatively reducing the per capita use rate 1% per year until it reaches the TWDB goal of 140 gpcd.

The Cities of Cedar Hill, Midlothian, Grand Prairie, and Duncanville reported a total net water use of approximately 39,455 AF in the Year 2016. It is important to note that this value is the total water use, not the water used from Joe Pool Reservoir by these four entities. Using population estimates for the same year from the TWDB, these four cities had a combined
population of 302,592 resulting in a water use rate of 116 gpcd. This water use rate has decreased significantly from 146 in 2011 to 116 in 2016 and is lower than the state goal of 140 gpcd. Accordingly, **the per capita goal for 2024 is 140 gpcd, and the goal for 2029 is 140 gpcd.**

The City of Corsicana reported a total water use of approximately 4,618 AF in the Year 2016. It is important to note that this value includes water used from other sources by this entity. Using population estimates for the same year from the TWDB, this city had a population of 25,140. The gpcd usage for Navarro Mills Reservoir customers, using 2016 TWDB water use and population data, is 164 gpcd. **The per capita goal for 2024 is 151 gpcd, and the goal for 2029 is 144 gpcd.** This was determined by cumulatively reducing the per capita use rate 1% per year.

The long-term goal for conservation is to increase water use efficiency and reduce the waste of water. However, the Authority only has limited control of water use, because it is a wholesale provider of those supplies. Achievement of significant water conservation savings can only occur if each retail water user sets and implements its own water conservation programs.

In addition to the per capita water use goal above, the Authority has set a maximum unaccounted-for water goal of 5% for the affected municipal systems. This goal was chosen as this value generally represents an acceptable level of unaccounted for water loss.

### 2.4 Metering Water Diverted from the Source of Supply

Water diverted from Bardwell Reservoir is metered by the two Contracting Parties. The City of Ennis measures raw water flow at their water treatment plant and the District measures raw water diverted at the raw water pump station.

Currently water diverted from Joe Pool Reservoir is metered at the City of Midlothian’s raw water pump station and at their existing water treatment plant. Irrigation water (raw) is metered at the point of delivery from the District’s existing raw water pipeline to the City of Grand Prairie’s golf course.

When the Authority’s Lakeview Regional Water Supply Project is developed further for the diversion and treatment of water from Joe Pool, measuring equipment that complies with the TCEQ “Design Criteria” will be installed.

Water diverted from Navarro Mills Reservoir is metered by the three Contracting Parties; the City of Corsicana operates a master meter at its Navarro Mills Water Treatment Plant, the City of Dawson operates one master meter at the intake structure and another at the water treatment plant, and ARCOSA operates a master meter at their pump on Richland Creek.
2.5 Monitoring and Record Management Program

Water diversion reports from the Contracting Parties are submitted to the Authority and maintained in the Authority's files.

Each year the Authority's records, including water sales, deliveries, and losses are audited by an independent auditor. In addition, flow records and reports are routinely audited by the Authority's internal auditor.

2.6 Metering/Leak Detection and Repair Program

The Contracting Parties shall meter all retail water uses and will be encouraged to provide a master meter as well as metering of all utility, city and other public facilities. The Contracting Parties will manage their ongoing leak detection, location and repair programs. Waterline leaks are detected by utility personnel while reading meters, maintaining their water and wastewater systems, and while performing other routine surveillance programs. Periodic water audits shall be utilized to determine if leaks exist which have gone undetected.

In addition, the Authority will monitor for leaks in any water storage, delivery, and distribution system components used to transport raw water prior to delivery to the wholesale customers. Any reported leaks will be repaired in a timely manner.

2.7 Water Supply Contracts

Every contract for the wholesale sale of water entered into, renewed, or extended by the Authority after the adoption of this water conservation and drought contingency plan will include a requirement that the wholesale customer and any wholesale customers of that wholesale customer develop and implement a water conservation plan meeting the requirements of Title 30, Part 1, Chapter 288, Subchapter A, Rule 288.2 of the Texas Administrative Code. This requirement will extend to each successive wholesale customer in the resale of water.

All customer plans must be reviewed and approved by the Authority before water sales contracts are signed.

2.8 Reservoir Operations Plan

Bardwell Reservoir, Joe Pool Reservoir and Navarro Mills Reservoir are not in common watersheds with other reservoirs operated by the Authority, and TCEQ requirements for coordinated operation of the reservoirs with others are not applicable.

2.9 Ordinance/Resolution and Implementation

Resolution No. R-1159-3 adopts the Water Conservation Plan for Bardwell Reservoir, Joe Pool Reservoir and Navarro Mills Reservoir by the Authority's Board of Directors. The
General Manager, or his/her designee, is authorized and directed to implement the applicable provisions of the Plan. The General Manager, or his/her designee, will act as the administrator of the plan, oversee the execution and implementation of the plan, and will be responsible for keeping adequate records for program verification.

2.10 Coordination with Regional Planning Groups

The water service areas of the three reservoirs are located within Region C and Region G, and the Authority will provide a copy of the Plan to Region C and Region G planning groups.

2.11 Education and Information Program

The Authority recognizes that water conservation significantly benefits individuals and communities in terms of long-term water availability and reduces costs. The most readily available and lowest cost method of promoting water conservation is to inform the retail water users about ways to save water in homes and businesses, in landscaping and lawn uses, and in recreational use.

2.12 Review and Update of Water Conservation Plan

As required by TCEQ rules, the Authority will review and update this water conservation plan by May 1, 2024, and every five years thereafter. The plan will be updated as appropriate based on new or updated information from contracting parties, and the Authority will be available to present water conservation programs to local schools, civic organizations, and other groups.

3. DROUGHT CONTINGENCY PLAN

3.1 Declaration of Policy, Purpose, and Intent

In order to conserve the available water supply and to 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 Authority adopts the following Drought Contingency Plan (the Plan).

3.2 Public Involvement

The Plan will be adopted under the open meetings requirement of the TCEQ during the April 24, 2019 Board of Directors meeting.
3.3 Wholesale Water Customer Education

The Authority will provide wholesale customers with information as appropriate 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 providing a copy of the Plan to each wholesale water customer.

3.4 Coordination with Regional Water Planning Groups

The water service areas of the three reservoirs are located within the Region C and Region G, and the Authority will provide a copy of the Plan to Region C and Region G planning groups.

3.5 Authorization

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

3.6 Application

The provisions of the Plan shall apply to all customers utilizing water provided by the Authority from Bardwell Reservoir, Joe Pool Reservoir and Navarro Mills Reservoir. The terms “person” and “customer” as used in the Plan include individuals, corporations, partnerships, associations, and all other legal entities.

3.7 Triggering Criteria for Initiation and Termination of Drought Response Stages

The General Manager, or his/her designee, shall monitor water supply and demand conditions on a periodic basis and shall determine when conditions warrant initiation or termination of each stage of the Plan. Customer notification of the initiation or termination of drought response stages will be made by email, mail or telephone. The news media will also be informed by the Authority.

The triggering criterion to be monitored for determining drought response stages is the water surface elevation of the individual reservoirs. The reservoir stages selected are based on the U.S. Army Corps of Engineers’ Drought Contingency Plan prepared in 1991.
(a) **Stage 1 – MILD Water Shortage Condition**

*Requirements for Initiation* - The Authority will recognize that a mild water shortage condition exists when the water surface elevation of each corresponding reservoir reaches the triggering criteria in the following table:

<table>
<thead>
<tr>
<th>TRA Project</th>
<th>Triggering Criterion for Stage 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bardwell Reservoir</td>
<td>water surface elevation of Bardwell Reservoir declines below 417.0 feet</td>
</tr>
<tr>
<td>Joe Pool Reservoir</td>
<td>water surface elevation of Joe Pool Reservoir declines below 516.0 feet</td>
</tr>
<tr>
<td>Navarro Mills Reservoir</td>
<td>water surface elevation of Navarro Mills Reservoir declines below 421.5 feet</td>
</tr>
</tbody>
</table>

*Requirements for Termination* - Stage 1 of the Plan may be rescinded when the conditions listed as triggering events have ceased to exist for a period of 15 consecutive days. The Authority will notify its wholesale customers and the media of the termination of Stage 1 in the same manner as the notification of initiation of Stage 1 of the Plan.

(b) **Stage 2 – MODERATE Water Shortage Condition**

*Requirements for Initiation* - The Authority will recognize that a moderate water shortage condition exists when the water surface elevation of each corresponding reservoir reaches the triggering criteria in the following table:

<table>
<thead>
<tr>
<th>TRA Project</th>
<th>Triggering Criterion for Stage 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bardwell Reservoir</td>
<td>water surface elevation of Bardwell Reservoir declines below 414.0 feet</td>
</tr>
<tr>
<td>Joe Pool Reservoir</td>
<td>water surface elevation of Joe Pool Reservoir declines below 511.0 feet</td>
</tr>
<tr>
<td>Navarro Mills Reservoir</td>
<td>water surface elevation of Navarro Mills Reservoir declines below 419.0 feet</td>
</tr>
</tbody>
</table>

*Requirements for Termination* - Stage 2 of the Plan may be rescinded when the conditions listed as triggering events have ceased to exist for a period of 15
consecutive days. Upon termination of Stage 2, Stage 1 becomes operative. The Authority will notify its wholesale customers and the media of the termination of Stage 2 in the same manner as the notification of initiation of Stage 1 of the Plan.

(c) **Stage 3 – SEVERE Water Shortage Condition**

**Requirements for Initiation** - The Authority will recognize that a severe water shortage condition exists when the water surface elevation of each corresponding reservoir reaches the triggering criteria in the following table:

<table>
<thead>
<tr>
<th>TRA Project</th>
<th>Triggering Criterion for Stage 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bardwell Reservoir</td>
<td>water surface elevation of Bardwell Reservoir declines below 408.0 feet</td>
</tr>
<tr>
<td>Joe Pool Reservoir</td>
<td>water surface elevation of Joe Pool Reservoir declines below 501.0 feet</td>
</tr>
<tr>
<td>Navarro Mills Reservoir</td>
<td>water surface elevation of Navarro Mills Reservoir declines below 414.5 feet</td>
</tr>
</tbody>
</table>

**Requirements for termination** - Stage 3 of the Plan may be rescinded when the conditions listed as triggering events have ceased to exist for a period of 15 consecutive days. Upon termination of Stage 3, Stage 2 becomes operative. The Authority will notify its wholesale customers and the media of the termination of Stage 3 in the same manner as the notification of initiation of Stage 1 of the Plan.

(d) **Emergency Water Shortage Condition**

**Requirements for Initiation** - The Authority will recognize that an emergency water shortage condition exists when any of the following occur in a particular reservoir:

- Natural or man-made contamination of the water supply source occurs; and
- Any condition exists which prevents or imminently threatens to prevent Authority customers from withdrawing sufficient water from each individual reservoir to meet demands.

**Requirements for Termination** - The emergency water shortage condition may be rescinded when the General Manager, or his/her designee, deems appropriate. The Authority will notify its wholesale customers and the media of the termination of emergency shortage condition in the same manner as the notification of initiation of Stage 1 of the Plan.
3.8 Drought Response Stages

The General Manager, or his/her designee, shall monitor water supply and demand conditions and, in accordance with the triggering criteria set forth in Section 3.7, shall determine that mild, moderate, or severe water shortage conditions exist or that an emergency condition exists and shall implement the following actions:

Stage 1 – Mild Water Shortage Conditions

**Target:** Achieve a voluntary 5 percent reduction in daily water demand for each retail utility utilizing a reservoir which has been recognized in Stage 1 drought.

**Best Management Practices for Supply Management:**
- The Authority will coordinate with the U.S. Corps of Engineers to ensure that unnecessary releases of water from the Reservoir are minimized, including leakage from project gates;
- The Authority will encourage each wholesale water customer to utilize alternative water sources such as interconnections with another water system, temporary use of a non-municipal water supply, use of reclaimed water, etc.

**Water Use Restrictions for Reducing Demand:**
- The General Manager, or his/her designee(s), will contact wholesale water customers to discuss water supply and demand conditions and will request that wholesale water customers initiate voluntary measures to reduce water use (e.g. implement Stage 1 of the customer’s drought contingency plan); and
- The General Manager, or his/her designee(s), will provide a periodic report to the news media with information regarding current water supply and demand conditions, projected water supply and demand conditions if drought conditions persist, and consumer information on water conservation measures and practices.

Stage 2 – Moderate Water Shortage Conditions

**Target:** Achieve a 10 percent reduction in daily water demand for each retail utility utilizing a reservoir which has been recognized in Stage 2 drought.

**Best Management Practices for Supply Management:**
- The Authority will coordinate with the U.S. Corps of Engineers to limit or eliminate releases of water from the Reservoir for special events downstream of the Reservoir;
- The Authority will encourage each wholesale water customer to utilize alternative
water sources such as interconnections with another water system, temporary use of a non-municipal water supply, use of reclaimed water, etc.

**Water Use Restrictions for Reducing Demand:**

- The General Manager, or his/her designee(s), will initiate periodic contact with wholesale water customers to discuss water supply or demand conditions and the possibility of pro rata curtailment of water diversions and deliveries.
- The General Manager, or his/her designee(s), will request wholesale water customers to initiate mandatory measures to reduce non-essential water use (e.g. implement Stage 2 of the customer's drought contingency plan);
- The General Manager, or his/her designee(s), will initiate preparations for the implementation of pro rata curtailment of water diversions and deliveries by preparing a monthly water usage allocation baseline for each wholesale customer according to procedures specified in 3.9 of the Plan; and
- The General Manager, or his/her designee(s), will provide a periodic report to the news media with information regarding current water supply and demand conditions, projected water supply and demand conditions if drought conditions persist, and consumer information on water conservation measures and practices.

**Stage 3 – Severe Water Shortage Conditions**

**Target:** Achieve a 30 percent reduction in daily water demand for each retail utility utilizing a reservoir which has been recognized in Stage 3 drought.

**Best Management Practices for Supply Management:**

- The Authority will coordinate with the U.S. Corps of Engineers to make recommendations to the TCEQ, the Texas Parks and Wildlife Department, and the U.S. Fish and Wildlife Department and others as needed, for reducing or eliminating releases downstream; and
- The Authority will encourage each wholesale water customer to utilize alternative water sources such as interconnections with another water system, temporary use of a non-municipal water supply, use of reclaimed water, etc.
Water Use Restrictions for Reducing Demand:

• The General Manager, or his/her designee(s), will contact wholesale water customers to discuss water supply and demand conditions and will request that wholesale water customers initiate additional mandatory measures to reduce non-essential water use (e.g. implement Stage 3 of the customer’s drought contingency plan);

• The General Manager, or his/her designee(s), will initiate pro rata curtailment of water diversions and deliveries for each wholesale customer according to the procedures specified in Section 3.9 of the Plan; and

• The General Manager, or his/her designee(s), will provide a periodic report to the news media with information regarding current water supply and demand conditions, projected water supply and demand conditions if drought conditions persist, and consumer information on water conservation measures and practices.

Emergency Water Shortage Conditions

Whenever emergency water shortage conditions exist in a reservoir, as defined in Section 3.7 of the Plan, the General Manager, or his/her designee(s) shall:

• Assess the severity of the problem and identify the actions needed and the time required to solve the problem;

• Inform the utility director or other responsible official of each wholesale water customer and suggest actions, as appropriate to alleviate problems (e.g., notification of the public to reduce water use until service is restored);

• If appropriate, notify city, county, or state emergency response officials for assistance;

• Undertake necessary actions, including repairs or clean-up as needed; and

• Prepare a post-event assessment report on the incident including an evaluation of emergency response procedures and actions.
3.9 Pro Rata Water Allocation

In the event that the triggering criteria specified in Section 3.7 of the Plan for Stage 3 - Severe Water Shortage Conditions have been met, the General Manager, or his/her designee(s), is hereby authorized to initiate allocation of water supplies on a pro rata basis in accordance with Texas Water Code Section 11.039. A provision will be included in every wholesale water contract entered into or renewed after adoption of the plan, including contract extensions, that in case of a shortage of water resulting from drought, the water to be distributed shall be divided in accordance with Texas Water Code Section 11.039.

3.10 Enforcement

Mandatory water use restrictions may be imposed in Stage 3 droughts. These mandatory water use restrictions will be enforced by warnings and penalties as follows:

- On the first violation, the customer will be given a written warning that they have violated one or more of the mandatory water use restrictions;
- The Authority will require the customer to implement a more comprehensive public education and outreach program in a manner that increases the public’s awareness about mandatory water use restrictions and the current drought status; and
- After receiving a second notice of violation, the customer will be required to immediately submit documentation to the Authority of the steps it has taken to ensure compliance with this water conservation and drought contingency plan. In addition, the Authority will require the customer to implement additional public education and outreach program in a manner that increases the public’s awareness about mandatory water use restrictions and the current drought status.

The Authority may petition the Texas Commission on Environmental Quality to initiate formal enforcement action against customers that fail to comply with pro rata allocations consistent with Texas Water Code Section 11.039.

3.11 Variances

The General Manager, or his/her designee, may, in writing, grant a temporary variance to the pro rata water allocation policies provided by the Plan if it is determined that failure to grant such variance would cause an emergency condition adversely affecting the public health, welfare, or safety and if one or more of the following conditions are met:

1) Compliance with the Plan cannot be technically accomplished during the duration of this water supply shortage or other condition for which the Plan is in effect; and
2) Alternative methods can be implemented which will achieve the same level of reduction in water use.

Persons requesting an exemption from the provisions of the Plan shall file a petition for variance with the General Manager, or his/her designee, within 5 days after pro rata allocation has been invoked. All petitions for variances shall be reviewed by the Authority and shall include the following:

1) Name and address of the petitioner(s);
2) Detailed statement with supporting data and information as to how the pro rata allocation of water under the policies and procedures established in the Plan adversely affects the petitioner or what damage or harm will occur to the petitioner or others if petitioner complies with this Plan;
3) Description of the relief requested;
4) Period of time for which the variance is sought;
5) Alternative measures the petitioner is taking or will take to meet the intent of the Plan and the compliance date; and
6) Other pertinent information.

Variances granted by the Authority shall be subject to the following conditions, unless waived or modified by the Authority:

1) Variances granted shall include a timetable for compliance with allocation requirements; and
2) Variances granted shall expire when the Plan is no longer in effect, unless the petitioner has failed to meet specified requirements.

No variance shall be retroactive or otherwise justify any violation of the Plan occurring prior to the issuance of the variance.

3.12 Review and Update of Drought Contingency Plan

As required by TCEQ rules, the Authority will review and update this drought contingency plan in May 2024 and every five years thereafter. The plan will be updated as appropriate based on new or updated information.
3.13 Severability

It is hereby declared to be the intention of the Authority that the sections, paragraphs, sentences, clauses, and phrases of the Plan are severable and, if any phrase, clause, sentence, paragraph, or section of the Plan shall be declared unconstitutional by the valid judgment or decree of any court of competent jurisdiction, such unconstitutionality shall not affect any of the remaining phrases, clauses, sentences, paragraphs, and sections of the Plan, since the same would not have been enacted by the Authority without the incorporation into the Plan of any such unconstitutional phrase, clause, sentence, paragraph, or section.
Utility Profile and Water Conservation Plan
Requirements for Wholesale Public Water Suppliers
(Form 20162)

Bardwell Reservoir Project

Joe Pool Reservoir Project

Navarro Reservoir Project
### 2021 Regional Water Plan - Population Projections for 2020-2070

<table>
<thead>
<tr>
<th>WUG Name</th>
<th>County</th>
<th>2020</th>
<th>2030</th>
<th>2040</th>
<th>2050</th>
<th>2060</th>
<th>2070</th>
</tr>
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<tbody>
<tr>
<td>ENNIS</td>
<td>ELLIS</td>
<td>21,354</td>
<td>25,111</td>
<td>28,828</td>
<td>41,086</td>
<td>66,145</td>
<td>110,073</td>
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<tr>
<td>WAXAHACHIE</td>
<td>ELLIS</td>
<td>37,700</td>
<td>43,084</td>
<td>52,272</td>
<td>64,400</td>
<td>78,500</td>
<td>95,500</td>
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<tr>
<td>CEDAR HILL</td>
<td>DALLAS</td>
<td>53,244</td>
<td>65,133</td>
<td>76,989</td>
<td>83,579</td>
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<tr>
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<td>DALLAS</td>
<td>166,208</td>
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<td>231,491</td>
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<td>114</td>
<td>140</td>
<td>170</td>
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<td>51,864</td>
<td>51,864</td>
<td>51,864</td>
<td>51,864</td>
<td>51,864</td>
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<tr>
<td>MIDLOTHIAN</td>
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<td>36,836</td>
<td>40,689</td>
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<td>NAVARRO</td>
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<td>29,484</td>
<td>32,318</td>
<td>35,546</td>
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### 2021 Regional Water Plan - Water Demand Projections for 2020-2070 (in Acre-Feet)

<table>
<thead>
<tr>
<th>WUG Name</th>
<th>County</th>
<th>2020</th>
<th>2030</th>
<th>2040</th>
<th>2050</th>
<th>2060</th>
<th>2070</th>
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</thead>
<tbody>
<tr>
<td>ENNIS</td>
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<td>4,026</td>
<td>4,625</td>
<td>5,234</td>
<td>7,401</td>
<td>11,887</td>
<td>19,761</td>
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<tr>
<td>WAXAHACHIE</td>
<td>ELLIS</td>
<td>6,872</td>
<td>7,702</td>
<td>9,226</td>
<td>11,299</td>
<td>13,749</td>
<td>16,715</td>
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<tr>
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<td>DALLAS</td>
<td>10,660</td>
<td>12,810</td>
<td>14,994</td>
<td>16,201</td>
<td>16,186</td>
<td>16,184</td>
</tr>
<tr>
<td>CEDAR HILL</td>
<td>ELLIS</td>
<td>139</td>
<td>174</td>
<td>215</td>
<td>275</td>
<td>275</td>
<td>275</td>
</tr>
<tr>
<td>DUNCANVILLE</td>
<td>DALLAS</td>
<td>6,091</td>
<td>6,464</td>
<td>6,322</td>
<td>6,244</td>
<td>6,230</td>
<td>6,229</td>
</tr>
<tr>
<td>GRAND PRAIRIE</td>
<td>DALLAS</td>
<td>26,811</td>
<td>32,615</td>
<td>36,061</td>
<td>35,851</td>
<td>35,799</td>
<td>35,792</td>
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<td>GRAND PRAIRIE</td>
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<td>9</td>
<td>11</td>
<td>14</td>
<td>18</td>
<td>22</td>
<td>26</td>
</tr>
<tr>
<td>GRAND PRAIRIE</td>
<td>TARRANT</td>
<td>8,366</td>
<td>8,180</td>
<td>8,079</td>
<td>8,032</td>
<td>8,021</td>
<td>8,019</td>
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<tr>
<td>MIDLOTHIAN</td>
<td>ELLIS</td>
<td>4,811</td>
<td>7,094</td>
<td>7,408</td>
<td>7,839</td>
<td>8,359</td>
<td>9,231</td>
</tr>
<tr>
<td>CORSICANA</td>
<td>NAVARRO</td>
<td>6,104</td>
<td>6,582</td>
<td>7,101</td>
<td>7,750</td>
<td>8,472</td>
<td>9,253</td>
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</tbody>
</table>

http://www.twdb.texas.gov/waterplanning/data/projections/2022/demandproj.asp

A3
Description of Bardwell Reservoir Project

Bardwell Lake is a U.S. Army Corps of Engineers multi-purpose reservoir located in Ellis County, this project’s dependable water supply yield of 9,600 acre-feet was contractually purchased by TRA as the project’s local sponsor. TRA subsequently signed contracts for the sale of Bardwell Lake's water to Ennis and the Ellis County Water Control and Improvement District Number One (City of Waxahachie). With the revenue generated, TRA is repaying the federal government over a 50-year period for project development costs attributable to the water supply portion of the reservoir.
Description of Joe Pool Reservoir Project

A contract with the US Army Corps of Engineers for the storage of Joe Pool Lake’s water was entered into by TRA as the local sponsor. TRA subsequently entered into contracts with the Cities of Cedar Hill, Duncanville, Grand Prairie, and Midlothian to provide up to 17,000 acre-feet per year of raw water.
Description of Navarro Reservoir Project

As local sponsor for this U.S. Army Corps of Engineers multi-purpose lake, TRA contractually purchased the total dependable water supply yield of 19,400 acre-feet. This water was then sold, at cost, to the cities of Corsicana and Dawson, the Post Oak Water Supply Corporation, and one industry. With the revenue generated by this sale, TRA repaid the federal government over a 50-year period for project costs attributable to water supply.
Utility Profile and Water Conservation Plan Requirements for Wholesale Public Water Suppliers

This form is provided to assist wholesale public water suppliers in water conservation plan development. If you need assistance in completing this form or in developing your plan, please contact the Conservation staff of the Resource Protection Team in the Water Availability Division at (512) 239-4691.

Water users can find best management practices (BMPs) at the Texas Water Development Board's website http://www.twdb.texas.gov/conservation/BMPs/index.asp. The practices are broken out into sectors such as Agriculture, Commercial and Institutional, Industrial, Municipal and Wholesale. BMPs are voluntary measures that water users use to develop the required components of Title 30, Texas Administrative Code, Chapter 288. BMPs can also be implemented in addition to the rule requirements to achieve water conservation goals.

Contact Information

<table>
<thead>
<tr>
<th>Name:</th>
<th>Trinity River Authority - Bardwell Reservoir</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address:</td>
<td>PO Box 60, Arlington TX 76004</td>
</tr>
<tr>
<td>Telephone Number:</td>
<td>(817)467-4343  Fax: (817) 417-0367</td>
</tr>
<tr>
<td>Water Right No.(s):</td>
<td>CA 08-5021</td>
</tr>
<tr>
<td>Regional Water Planning Group:</td>
<td>Region C</td>
</tr>
<tr>
<td>Person responsible for implementing conservation program:</td>
<td>Kevin Ward  Phone: (817) 467-4343</td>
</tr>
<tr>
<td>Form Completed By:</td>
<td>Glenn Clingenpeel</td>
</tr>
<tr>
<td>Title:</td>
<td>Planning and Environmental Services Manager</td>
</tr>
<tr>
<td>Signature:</td>
<td></td>
</tr>
</tbody>
</table>

A water conservation plan for wholesale public water suppliers must include the following requirements (as detailed in 30 TAC Section 288.5). If the plan does not provide information for each requirement, you must include in the plan an explanation of why the requirement is not applicable.
Utility Profile

I. WHOLESALE SERVICE AREA POPULATION AND CUSTOMER DATA

A. Population and Service Area Data:

1. Service area size (in square miles):

   (Please attach a copy of service-area map)

   75.3

2. Current population of service area:

   56,586

3. Current population served for:

   a. Water 56,586

   b. Wastewater na

4. Population served for previous five years:

<table>
<thead>
<tr>
<th>Year</th>
<th>Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>51,965</td>
</tr>
<tr>
<td>2015</td>
<td>52,736</td>
</tr>
<tr>
<td>2016</td>
<td>53,831</td>
</tr>
<tr>
<td>2017</td>
<td>55,104</td>
</tr>
<tr>
<td>2018</td>
<td>56,586</td>
</tr>
</tbody>
</table>

5. Projected population for service area in the following decades:

<table>
<thead>
<tr>
<th>Year</th>
<th>Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td>59,054</td>
</tr>
<tr>
<td>2030</td>
<td>68,195</td>
</tr>
<tr>
<td>2040</td>
<td>81,100</td>
</tr>
<tr>
<td>2050</td>
<td>105,486</td>
</tr>
<tr>
<td>2060</td>
<td>144,645</td>
</tr>
</tbody>
</table>

6. List source or method for the calculation of current and projected population size.

   Current population: TWDB historical municipal water survey data Region C for the City of Ennis and Waxahachie.

   Projected population: TWDB projected population from Region C for the City of Ennis and Waxahachie

B. Customer Data

List (or attach) the names of all wholesale customers, amount of annual contract, and amount of annual use for each customer for the previous year:

<table>
<thead>
<tr>
<th>Wholesale Customer</th>
<th>Contracted Amount (Acre-feet)</th>
<th>Previous Year Amount of Water Delivered (acre-feet)</th>
</tr>
</thead>
</table>
II. WATER USE DATA FOR SERVICE AREA

A. Water Delivery

Indicate if the water provided under wholesale contracts is treated or raw water and the annual amounts for the previous five years (in acre feet):

<table>
<thead>
<tr>
<th>Year</th>
<th>Treated Water</th>
<th>Raw Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>na</td>
<td>8,609</td>
</tr>
<tr>
<td>2015</td>
<td>na</td>
<td>8,131</td>
</tr>
<tr>
<td>2016</td>
<td>na</td>
<td>5,791</td>
</tr>
<tr>
<td>2017</td>
<td>na</td>
<td>7,343</td>
</tr>
<tr>
<td>2018</td>
<td>na</td>
<td>7,707</td>
</tr>
<tr>
<td>Totals</td>
<td>na</td>
<td>37,581</td>
</tr>
</tbody>
</table>

B. Water Accounting Data

1. Total amount of water diverted at the point of diversion(s) for the previous five years (in acre-feet) for all water uses:

<table>
<thead>
<tr>
<th>Month</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>787</td>
<td>921</td>
<td>324</td>
<td>716</td>
<td>1040</td>
</tr>
<tr>
<td>February</td>
<td>649</td>
<td>827</td>
<td>313</td>
<td>263</td>
<td>1041</td>
</tr>
<tr>
<td>March</td>
<td>823</td>
<td>681</td>
<td>288</td>
<td>296</td>
<td>339</td>
</tr>
<tr>
<td>April</td>
<td>807</td>
<td>347</td>
<td>334</td>
<td>277</td>
<td>302</td>
</tr>
<tr>
<td>May</td>
<td>544</td>
<td>385</td>
<td>401</td>
<td>324</td>
<td>393</td>
</tr>
<tr>
<td>June</td>
<td>425</td>
<td>379</td>
<td>418</td>
<td>387</td>
<td>711</td>
</tr>
<tr>
<td>July</td>
<td>650</td>
<td>518</td>
<td>500</td>
<td>464</td>
<td>1061</td>
</tr>
<tr>
<td>August</td>
<td>798</td>
<td>822</td>
<td>515</td>
<td>712</td>
<td>993</td>
</tr>
</tbody>
</table>
2. Wholesale population served and total amount of water diverted for municipal use for the previous five years (in acre-feet):

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Population Served</th>
<th>Total Annual Water Diverted for Municipal Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>51,965</td>
<td>11,495</td>
</tr>
<tr>
<td>2015</td>
<td>52,736</td>
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<td>2017</td>
<td>55,104</td>
<td>11,924</td>
</tr>
<tr>
<td>2018</td>
<td>56,586</td>
<td>13,452</td>
</tr>
</tbody>
</table>

C. Projected Water Demands

If applicable, project and attach water supply demands for the next ten years using information such as population trends, historical water use, and economic growth in the service area over the next ten years and any additional water supply requirements from such growth.

III. WATER SUPPLY SYSTEM DATA

A. Projected Water Demands

List all current water supply sources and the amounts authorized (in acre feet) with each.

<table>
<thead>
<tr>
<th>Water Type</th>
<th>Source</th>
<th>Amount Authorized</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Water</td>
<td>Bardwell Reservoir</td>
<td>9,600 AF (water right permit)</td>
</tr>
<tr>
<td>Groundwater</td>
<td>na</td>
<td>na</td>
</tr>
<tr>
<td>Other</td>
<td>Ennis and Waxahachie Wastewater Return Flows</td>
<td>8,824.5 AF (water right permit - reuse)</td>
</tr>
</tbody>
</table>

B. Treatment and Distribution System (if providing treated water)

1. Design daily capacity of system (MGD):
2. Storage capacity (MGD):
   a. Elevated na
   b. Ground na

3. Please attach a description of the water system. Include the number of treatment plants, wells, and storage tanks
   na

**IV. WASTEWATER SYSTEM DATA**

A. Wastewater System Data (if applicable)
   1. Design capacity of wastewater treatment plant(s) (MGD):
      na
   2. Briefly describe the wastewater system(s) of the area serviced by the wholesale public water supplier. Describe how treated wastewater is disposed. Where applicable, identify treatment plant(s) with the TCEQ name and number, the operator, owner, and the receiving stream if wastewater is discharged.
      na

B. Wastewater Data for Service Area (if applicable)
   1. Percent of water service area served by wastewater system: na%
   2. Monthly volume treated for previous five years (in 1,000 gallons):

<table>
<thead>
<tr>
<th>Year</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Month</td>
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TCEQ-20162 (Rev. 12/2018)
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<tr>
<td>Totals</td>
<td>na</td>
<td>na</td>
<td>na</td>
<td>na</td>
<td>na</td>
</tr>
</tbody>
</table>
Water Conservation Plan

In addition to the description of the wholesaler's service area (profile from above), a water conservation plan for a wholesale public water supplier must include, at a minimum, additional information as required by Title 30, Texas Administrative Code, Chapter 288.5. Note: If the water conservation plan does not provide information for each requirement an explanation must be included as to why the requirement is not applicable.

A. Specific, Quantified 5 & 10-Year Targets

The water conservation plan must include specific, quantified 5-year and 10-year targets for water savings including, where appropriate, target goals for municipal use in gallons per capita per day for the wholesaler's service area, maximum acceptable water loss, and the basis for the development of these goals. Note that the goals established by a wholesale water supplier under this subparagraph are not enforceable. These goals must be updated during the 5-year review and submittal.

B. Measuring and Accounting for Diversions

The water conservation plan must include a description as to which practice(s) and/or device(s) will be utilized to measure and account for the amount of water diverted from the source(s) of supply.

C. Record Management Program

The water conservation plan must include a monitoring and record management program for determining water deliveries, sales, and losses.

D. Metering/Leak-Detection and Repair Program

The water conservation plan must include a program of metering and leak detection and repair for the wholesaler's water storage, delivery, and distribution system.

E. Contract Requirements for Successive Customer Conservation

The water conservation plan must include a requirement in every water supply contract entered into or renewed after official adoption of the water conservation plan, and including any contract extension, that each successive wholesale customer develop and implement a water conservation plan or water conservation measures using the applicable elements of Title 30 TAC Chapter 288. If the customer intends to resell the water, then the contract between the initial supplier and customer must provide that the contract for the resale of the water must have water conservation requirements so that each successive customer in the resale of the water will be required to implement water conservation measures in accordance with the provisions of this chapter.

F. Reservoir Systems Operations Plan

The water conservation plan must include a reservoir systems operations plan, if applicable, providing for the coordinated operation of reservoirs owned by the applicant within a common watershed or river basin. The reservoir systems operations plan shall include optimization of water supplies as one of the significant goals of the plan.

G. Enforcement Procedure and Official Adoption
The water conservation plan must include a means for implementation and enforcement, which shall be evidenced by a copy of the ordinance, rule, resolution, or tariff, indicating official adoption of the water conservation plan by the water supplier; and a description of the authority by which the water supplier will implement and enforce the conservation plan.

**H. Coordination with the Regional Water Planning Group(s)**

The water conservation plan must include documentation of coordination with the regional water planning groups for the service area of the wholesale water supplier in order to ensure consistency with the appropriate approved regional water plans.

Example statement to be included within the water conservation plan:

_The service area of the _____________ (name of water supplier) is located within the ___________ (name of regional water planning area or areas) and ___________ (name of water supplier) has provided a copy of this water conservation plan to the ____________ (name of regional water planning group or groups)._ 

**I. Plan Review and Update**

A wholesale water supplier shall review and update its water conservation plan, as appropriate based on an assessment of previous 5-year and 10-year targets and any other new or updated information. A wholesale water supplier shall review and update the next revision of its water conservation plan no later than May 1, 2009, and every five years after that date to coincide with the regional water planning group. The revised plan must also include an implementation report.

**V. ADDITIONAL CONSERVATION STRATEGIES**

Any combination of the following strategies shall be selected by the water wholesaler, in addition to the minimum requirements of 30 TAC §288.5(1), if they are necessary in order to achieve the stated water conservation goals of the plan. The commission may require by commission order that any of the following strategies be implemented by the water supplier if the commission determines that the strategies are necessary in order for the conservation plan to be achieved:

1. 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;

2. A program to assist agricultural customers in the development of conservation, pollution prevention and abatement plans;

3. A program for reuse and/or recycling of wastewater and/or graywater;

4. Any other water conservation practice, method, or technique which the wholesaler shows to be appropriate for achieving the stated goal or goals of the water conservation plan.

**VI. WATER CONSERVATION PLANS SUBMITTED WITH A WATER RIGHT APPLICATION FOR NEW OR ADDITIONAL STATE WATER**

Water Conservation Plans submitted with a water right application for New or Additional State Water must include data and information which:
1. support the applicant’s proposed use of water with consideration of the water conservation goals of the water conservation plan;

2. evaluates conservation as an alternative to the proposed appropriation; and

3. evaluates any other feasible alternative to new water development including, but not limited to, waste prevention, recycling and reuse, water transfer and marketing, regionalization, and optimum water management practices and procedures.

Additionally, it shall be the burden of proof of the applicant to demonstrate that no feasible alternative to the proposed appropriation exists and that the requested amount of appropriation is necessary and reasonable for the proposed use.
Utility Profile and Water Conservation Plan Requirements for Wholesale Public Water Suppliers

This form is provided to assist wholesale public water suppliers in water conservation plan development. If you need assistance in completing this form or in developing your plan, please contact the Conservation staff of the Resource Protection Team in the Water Availability Division at (512) 239-4691.

*Water users can find best management practices (BMPs) at the Texas Water Development Board's website [http://www.twdb.texas.gov/conservation/BMPs/index.asp](http://www.twdb.texas.gov/conservation/BMPs/index.asp). The practices are broken out into sectors such as Agriculture, Commercial and Institutional, Industrial, Municipal and Wholesale. BMPs are voluntary measures that water users use to develop the required components of Title 30, Texas Administrative Code, Chapter 288. BMPs can also be implemented in addition to the rule requirements to achieve water conservation goals.*

**Contact Information**

Name: Trinity River Authority - Joe Pool Reservoir  
Address: PO Box 60, Arlington TX 76004  
Telephone Number: (817)467-4343  
Water Right No.(s): CA 08-3404  
Regional Water Planning Group: Region C

Person responsible for implementing conservation program: Kevin Ward  
Form Completed By: Glenn Clingenpeel  
Title: Planning and Environmental Services Manager  
Signature:  
Date: 4-18-2019

A water conservation plan for *wholesale* public water suppliers must include the following requirements (as detailed in 30 TAC Section 288.5). If the plan does not provide information for each requirement, you must include in the plan an explanation of why the requirement is not applicable.
Utility Profile

I. WHOLESALE SERVICE AREA POPULATION AND CUSTOMER DATA

A. Population and Service Area Data:

1. Service area size (in square miles):
   
   (Please attach a copy of service-area map)
   
   168.91

2. Current population of service area:
   
   296,718

3. Current population served for:
   
   a. Water 296,718
   
   b. Wastewater na

4. Population served for previous five years:

<table>
<thead>
<tr>
<th>Year</th>
<th>Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>282,107</td>
</tr>
<tr>
<td>2015</td>
<td>287,860</td>
</tr>
<tr>
<td>2016</td>
<td>290,174</td>
</tr>
<tr>
<td>2017</td>
<td>299,444</td>
</tr>
<tr>
<td>2018</td>
<td>296,718</td>
</tr>
</tbody>
</table>

5. Projected population for service area in the following decades:

<table>
<thead>
<tr>
<th>Year</th>
<th>Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td>335,835</td>
</tr>
<tr>
<td>2030</td>
<td>402,935</td>
</tr>
<tr>
<td>2040</td>
<td>441,342</td>
</tr>
<tr>
<td>2050</td>
<td>450,276</td>
</tr>
<tr>
<td>2060</td>
<td>452,638</td>
</tr>
</tbody>
</table>

6. List source or method for the calculation of current and projected population size.

   Current population: TWDB historical municipal water survey data from 4 WUG: Cedar Hill, Duncanville, Grand Prairie and Midlothian.

   Projected population: TWDB projected population from 4 WUG: Cedar Hill, Duncanville, Grand Prairie and Midlothian from Region C.

B. Customer Data

List (or attach) the names of all wholesale customers, amount of annual contract, and amount of annual use for each customer for the previous year:

<table>
<thead>
<tr>
<th>Wholesale Customer</th>
<th>Contracted Amount (Acre-feet)</th>
<th>Previous Year Amount of Water Delivered (acre-feet)</th>
</tr>
</thead>
</table>
II. WATER USE DATA FOR SERVICE AREA

A. Water Delivery

Indicate if the water provided under wholesale contracts is treated or raw water and the annual amounts for the previous five years (in acre feet):

<table>
<thead>
<tr>
<th>Year</th>
<th>Treated Water</th>
<th>Raw Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>na</td>
<td>5,840</td>
</tr>
<tr>
<td>2015</td>
<td>na</td>
<td>5,827</td>
</tr>
<tr>
<td>2016</td>
<td>na</td>
<td>6,181</td>
</tr>
<tr>
<td>2017</td>
<td>na</td>
<td>6,799</td>
</tr>
<tr>
<td>2018</td>
<td>na</td>
<td>7,239</td>
</tr>
<tr>
<td>Totals</td>
<td>na</td>
<td>31,886</td>
</tr>
</tbody>
</table>

B. Water Accounting Data

1. Total amount of water diverted at the point of diversion(s) for the previous five years (in acre-feet) for all water uses:

<table>
<thead>
<tr>
<th>Year</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Month</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>502</td>
<td>497</td>
<td>319</td>
<td>599</td>
<td>488</td>
</tr>
<tr>
<td>February</td>
<td>348</td>
<td>315</td>
<td>229</td>
<td>558</td>
<td>474</td>
</tr>
<tr>
<td>March</td>
<td>351</td>
<td>255</td>
<td>326</td>
<td>583</td>
<td>549</td>
</tr>
<tr>
<td>April</td>
<td>443</td>
<td>413</td>
<td>401</td>
<td>562</td>
<td>650</td>
</tr>
<tr>
<td>May</td>
<td>525</td>
<td>408</td>
<td>408</td>
<td>687</td>
<td>718</td>
</tr>
<tr>
<td>June</td>
<td>571</td>
<td>446</td>
<td>534</td>
<td>585</td>
<td>831</td>
</tr>
<tr>
<td>July</td>
<td>529</td>
<td>758</td>
<td>788</td>
<td>554</td>
<td>911</td>
</tr>
<tr>
<td>August</td>
<td>627</td>
<td>779</td>
<td>759</td>
<td>599</td>
<td>815</td>
</tr>
</tbody>
</table>
2. Wholesale population served and total amount of water diverted for municipal use for the previous five years (in acre-feet):

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Population Served</th>
<th>Total Annual Water Diverted for Municipal Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>282,107</td>
<td>44,538</td>
</tr>
<tr>
<td>2015</td>
<td>287,860</td>
<td>45,230</td>
</tr>
<tr>
<td>2016</td>
<td>290,174</td>
<td>45,814</td>
</tr>
<tr>
<td>2017</td>
<td>299,444</td>
<td>47,565</td>
</tr>
<tr>
<td>2018</td>
<td>296,718</td>
<td>48,732</td>
</tr>
</tbody>
</table>

C. Projected Water Demands

If applicable, project and attach water supply demands for the next ten years using information such as population trends, historical water use, and economic growth in the service area over the next ten years and any additional water supply requirements from such growth.

III. WATER SUPPLY SYSTEM DATA

A. Projected Water Demands

List all current water supply sources and the amounts authorized (in acre feet) with each.

<table>
<thead>
<tr>
<th>Water Type</th>
<th>Source</th>
<th>Amount Authorized</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Water</td>
<td>Joe Pool Reservoir</td>
<td>17,000 AF (water right permit)</td>
</tr>
<tr>
<td>Groundwater</td>
<td>na</td>
<td>na</td>
</tr>
<tr>
<td>Other</td>
<td>Return Flows from Mountain Creek Regional Wastewater Treatment Plant</td>
<td>4,368 AF (water right permit - reuse)</td>
</tr>
</tbody>
</table>

B. Treatment and Distribution System (if providing treated water)

1. Design daily capacity of system (MGD):
2. Storage capacity (MGD):
   a. Elevated na
   b. Ground na

3. Please attach a description of the water system. Include the number of treatment plants, wells, and storage tanks
   na

IV. WASTEWATER SYSTEM DATA

   A. Wastewater System Data (if applicable)

      1. Design capacity of wastewater treatment plant(s) (MGD):
         na

      2. Briefly describe the wastewater system(s) of the area serviced by the wholesale public water supplier. Describe how treated wastewater is disposed. Where applicable, identify treatment plant(s) with the TCEQ name and number, the operator, owner, and the receiving stream if wastewater is discharged.
         na

   B. Wastewater Data for Service Area (if applicable)

      1. Percent of water service area served by wastewater system: na%

      2. Monthly volume treated for previous five years (in 1,000 gallons):

<pre><code>     | Year  | na | na | na | na | na |
     |-------|----|----|----|----|----|
     | Month |    |    |    |    |    |
     | January | na | na | na | na | na |
     | February | na | na | na | na | na |
     | March | na | na | na | na | na |
     | April | na | na | na | na | na |
     | May | na | na | na | na | na |
     | June | na | na | na | na | na |
     | July | na | na | na | na | na |
     | August | na | na | na | na | na |
     | September | na | na | na | na | na |
     | October | na | na | na | na | na |
</code></pre>
<table>
<thead>
<tr>
<th></th>
<th>na</th>
<th>na</th>
<th>na</th>
<th>na</th>
<th>na</th>
</tr>
</thead>
<tbody>
<tr>
<td>November</td>
<td>na</td>
<td>na</td>
<td>na</td>
<td>na</td>
<td>na</td>
</tr>
<tr>
<td>December</td>
<td>na</td>
<td>na</td>
<td>na</td>
<td>na</td>
<td>na</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>na</td>
<td>na</td>
<td>na</td>
<td>na</td>
<td>na</td>
</tr>
</tbody>
</table>
Water Conservation Plan

In addition to the description of the wholesaler's service area (profile from above), a water conservation plan for a wholesale public water supplier must include, at a minimum, additional information as required by Title 30, Texas Administrative Code, Chapter 288.5. Note: If the water conservation plan does not provide information for each requirement an explanation must be included as to why the requirement is not applicable.

A. Specific, Quantified 5 & 10-Year Targets

The water conservation plan must include specific, quantified 5-year and 10-year targets for water savings including, where appropriate, target goals for municipal use in gallons per capita per day for the wholesaler’s service area, maximum acceptable water loss, and the basis for the development of these goals. Note that the goals established by a wholesale water supplier under this subparagraph are not enforceable. These goals must be updated during the 5-year review and submittal.

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The water conservation plan must include a description as to which practice(s) and/or device(s) will be utilized to measure and account for the amount of water diverted from the source(s) of supply.

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The water conservation plan must include documentation of coordination with the regional water planning groups for the service area of the wholesale water supplier in order to ensure consistency with the appropriate approved regional water plans.

Example statement to be included within the water conservation plan:

The service area of the _____________ (name of water supplier) is located within the ___________ (name of regional water planning area or areas) and ___________ (name of water supplier) has provided a copy of this water conservation plan to the ____________ (name of regional water planning group or groups).

I. Plan Review and Update

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V. ADDITIONAL CONSERVATION STRATEGIES

Any combination of the following strategies shall be selected by the water wholesaler, in addition to the minimum requirements of 30 TAC §288.5(1), if they are necessary in order to achieve the stated water conservation goals of the plan. The commission may require by commission order that any of the following strategies be implemented by the water supplier if the commission determines that the strategies are necessary in order for the conservation plan to be achieved:

1. 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;

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VI. WATER CONSERVATION PLANS SUBMITTED WITH A WATER RIGHT APPLICATION FOR NEW OR ADDITIONAL STATE WATER

Water Conservation Plans submitted with a water right application for New or Additional State Water must include data and information which:
1. support the applicant’s proposed use of water with consideration of the water conservation goals of the water conservation plan;

2. evaluates conservation as an alternative to the proposed appropriation; and

3. evaluates any other feasible alternative to new water development including, but not limited to, waste prevention, recycling and reuse, water transfer and marketing, regionalization, and optimum water management practices and procedures.

Additionally, it shall be the burden of proof of the applicant to demonstrate that no feasible alternative to the proposed appropriation exists and that the requested amount of appropriation is necessary and reasonable for the proposed use.
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Contact Information

Name: Trinity River Authority - Navarro Mills Reservoir
Address: PO Box 60, Arlington TX 76004
Telephone Number: (817) 467-4343 Fax: (817) 417-0367
Water Right No.(s): CA 08-4992
Regional Water Planning Group: Region C
Person responsible for implementing conservation program: Kevin Ward Phone: (817) 467-4343
Form Completed By: Glenn Clingenpeel
Title: Planning and Environmental Services Manager
Signature: [Redacted] Date: 1/18/2019

A water conservation plan for wholesale public water suppliers must include the following requirements (as detailed in 30 TAC Section 288.5). If the plan does not provide information for each requirement, you must include in the plan an explanation of why the requirement is not applicable.
Utility Profile

I. WHOLESALE SERVICE AREA POPULATION AND CUSTOMER DATA

A. Population and Service Area Data:

1. Service area size (in square miles):
   (Please attach a copy of service-area map)
   317

2. Current population of service area:
   27,124

3. Current population served for:
   a. Water 27,124
   b. Wastewater na

4. Population served for previous five years:

   Year | Population 
   -----|-----------
   2014 | 25,475
   2015 | 25,875
   2016 | 25,877
   2017 | 26,347
   2018 | 27,124

5. Projected population for service area in the following decades:

   Year | Population 
   -----|-----------
   2020 | 27,632
   2030 | 30,418
   2040 | 33,293
   2050 | 36,562
   2060 | 39,978

6. List source or method for the calculation of current and projected population size.
   Current population: TWDB historical municipal water survey data for the Cities of Corsicana and Dawson for 2 WUG.
   Project Population: 2021 TWDB projected population for the Cities of Corsicana and Dawson from WUG Region C

B. Customer Data

List (or attach) the names of all wholesale customers, amount of annual contract, and amount of annual use for each customer for the previous year:

<table>
<thead>
<tr>
<th>Wholesale Customer</th>
<th>Contracted Amount (Acre-feet)</th>
<th>Previous Year Amount of Water Delivered (acre-feet)</th>
</tr>
</thead>
</table>

Corsicana 17,460 6,767
Texas Industries (now ARCOSA) 450 0
City of Dawson 368 0
Post Oak WSC 353 0

II. WATER USE DATA FOR SERVICE AREA

A. Water Delivery

Indicate if the water provided under wholesale contracts is treated or raw water and the annual amounts for the previous five years (in acre feet):

<table>
<thead>
<tr>
<th>Year</th>
<th>Treated Water</th>
<th>Raw Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>na</td>
<td>6733</td>
</tr>
<tr>
<td>2015</td>
<td>na</td>
<td>6244</td>
</tr>
<tr>
<td>2016</td>
<td>na</td>
<td>6283</td>
</tr>
<tr>
<td>2017</td>
<td>na</td>
<td>6971</td>
</tr>
<tr>
<td>2018</td>
<td>na</td>
<td>6767</td>
</tr>
<tr>
<td>Totals</td>
<td>na</td>
<td>32998</td>
</tr>
</tbody>
</table>

B. Water Accounting Data

1. Total amount of water diverted at the point of diversion(s) for the previous five years (in acre-feet) for all water uses:

<table>
<thead>
<tr>
<th>Year</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Month</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>541</td>
<td>508</td>
<td>456</td>
<td>547</td>
<td>603</td>
</tr>
<tr>
<td>February</td>
<td>485</td>
<td>403</td>
<td>421</td>
<td>499</td>
<td>399</td>
</tr>
<tr>
<td>March</td>
<td>521</td>
<td>482</td>
<td>425</td>
<td>512</td>
<td>451</td>
</tr>
<tr>
<td>April</td>
<td>530</td>
<td>447</td>
<td>470</td>
<td>530</td>
<td>468</td>
</tr>
<tr>
<td>May</td>
<td>550</td>
<td>459</td>
<td>443</td>
<td>633</td>
<td>578</td>
</tr>
<tr>
<td>June</td>
<td>513</td>
<td>508</td>
<td>516</td>
<td>559</td>
<td>656</td>
</tr>
<tr>
<td>July</td>
<td>655</td>
<td>666</td>
<td>637</td>
<td>637</td>
<td>774</td>
</tr>
</tbody>
</table>
2. Wholesale population served and total amount of water diverted for municipal use for the previous five years (in acre-feet):

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Population Served</th>
<th>Total Annual Water Diverted for Municipal Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>25,475</td>
<td>9,710</td>
</tr>
<tr>
<td>2015</td>
<td>25,875</td>
<td>8,953</td>
</tr>
<tr>
<td>2016</td>
<td>25,877</td>
<td>8,542</td>
</tr>
<tr>
<td>2017</td>
<td>26,347</td>
<td>9,782</td>
</tr>
<tr>
<td>2018</td>
<td>27,124</td>
<td>10,207</td>
</tr>
</tbody>
</table>

C. Projected Water Demands

If applicable, project and attach water supply demands for the next ten years using information such as population trends, historical water use, and economic growth in the service area over the next ten years and any additional water supply requirements from such growth.

III. WATER SUPPLY SYSTEM DATA

A. Projected Water Demands

List all current water supply sources and the amounts authorized (in acre feet) with each.

<table>
<thead>
<tr>
<th>Water Type</th>
<th>Source</th>
<th>Amount Authorized</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Water</td>
<td>Navarro Mills Reservoir</td>
<td>19,400 AF (water right permit)</td>
</tr>
<tr>
<td>Groundwater</td>
<td>na</td>
<td>na</td>
</tr>
<tr>
<td>Other</td>
<td>na</td>
<td>na</td>
</tr>
</tbody>
</table>

B. Treatment and Distribution System (if providing treated water)

1. Design daily capacity of system (MGD):
2. Storage capacity (MGD):
   a. Elevated na
   b. Ground na

3. Please attach a description of the water system. Include the number of treatment plants, wells, and storage tanks
   na

IV. WASTEWATER SYSTEM DATA

A. Wastewater System Data (if applicable)

1. Design capacity of wastewater treatment plant(s) (MGD):
   na

2. Briefly describe the wastewater system(s) of the area serviced by the wholesale public water supplier. Describe how treated wastewater is disposed. Where applicable, identify treatment plant(s) with the TCEQ name and number, the operator, owner, and the receiving stream if wastewater is discharged.
   na

B. Wastewater Data for Service Area (if applicable)

1. Percent of water service area served by wastewater system: na%

2. Monthly volume treated for previous five years (in 1,000 gallons):

<table>
<thead>
<tr>
<th>Year</th>
<th>January</th>
<th>February</th>
<th>March</th>
<th>April</th>
<th>May</th>
<th>June</th>
<th>July</th>
<th>August</th>
<th>September</th>
<th>October</th>
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</thead>
<tbody>
<tr>
<td>Month</td>
<td>na</td>
<td>na</td>
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<td>December</td>
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<td></td>
<td></td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>na</td>
<td>na</td>
<td>na</td>
<td>na</td>
<td>na</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
Water Conservation Plan

In addition to the description of the wholesaler's service area (profile from above), a water conservation plan for a wholesale public water supplier must include, at a minimum, additional information as required by Title 30, Texas Administrative Code, Chapter 288.5. Note: If the water conservation plan does not provide information for each requirement an explanation must be included as to why the requirement is not applicable.

A. Specific, Quantified 5 & 10-Year Targets

The water conservation plan must include specific, quantified 5-year and 10-year targets for water savings including, where appropriate, target goals for municipal use in gallons per capita per day for the wholesaler's service area, maximum acceptable water loss, and the basis for the development of these goals. Note that the goals established by a wholesale water supplier under this subparagraph are not enforceable. These goals must be updated during the 5-year review and submittal.

B. Measuring and Accounting for Diversions

The water conservation plan must include a description as to which practice(s) and/or device(s) will be utilized to measure and account for the amount of water diverted from the source(s) of supply.

C. Record Management Program

The water conservation plan must include a monitoring and record management program for determining water deliveries, sales, and losses.

D. Metering/Leak-Detection and Repair Program

The water conservation plan must include a program of metering and leak detection and repair for the wholesaler's water storage, delivery, and distribution system.

E. Contract Requirements for Successive Customer Conservation

The water conservation plan must include a requirement in every water supply contract entered into or renewed after official adoption of the water conservation plan, and including any contract extension, that each successive wholesale customer develop and implement a water conservation plan or water conservation measures using the applicable elements of Title 30 TAC Chapter 288. If the customer intends to resell the water, then the contract between the initial supplier and customer must provide that the contract for the resale of the water must have water conservation requirements so that each successive customer in the resale of the water will be required to implement water conservation measures in accordance with the provisions of this chapter.

F. Reservoir Systems Operations Plan

The water conservation plan must include a reservoir systems operations plan, if applicable, providing for the coordinated operation of reservoirs owned by the applicant within a common watershed or river basin. The reservoir systems operations plan shall include optimization of water supplies as one of the significant goals of the plan.

G. Enforcement Procedure and Official Adoption
The water conservation plan must include a means for implementation and enforcement, which shall be evidenced by a copy of the ordinance, rule, resolution, or tariff, indicating official adoption of the water conservation plan by the water supplier; and a description of the authority by which the water supplier will implement and enforce the conservation plan.

**H. Coordination with the Regional Water Planning Group(s)**

The water conservation plan must include documentation of coordination with the regional water planning groups for the service area of the wholesale water supplier in order to ensure consistency with the appropriate approved regional water plans.

Example statement to be included within the water conservation plan:

*The service area of the _____________ (name of water supplier) is located within the ___________ (name of regional water planning area or areas) and ___________ (name of water supplier) has provided a copy of this water conservation plan to the ____________ (name of regional water planning group or groups).*

**I. Plan Review and Update**

A wholesale water supplier shall review and update its water conservation plan, as appropriate based on an assessment of previous 5-year and 10-year targets and any other new or updated information. A wholesale water supplier shall review and update the next revision of its water conservation plan no later than May 1, 2009, and every five years after that date to coincide with the regional water planning group. The revised plan must also include an implementation report.

**V. ADDITIONAL CONSERVATION STRATEGIES**

Any combination of the following strategies shall be selected by the water wholesaler, in addition to the minimum requirements of 30 TAC §288.5(1), if they are necessary in order to achieve the stated water conservation goals of the plan. The commission may require by commission order that any of the following strategies be implemented by the water supplier if the commission determines that the strategies are necessary in order for the conservation plan to be achieved:

1. 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;
2. A program to assist agricultural customers in the development of conservation, pollution prevention and abatement plans;
3. A program for reuse and/or recycling of wastewater and/or graywater;
4. Any other water conservation practice, method, or technique which the wholesaler shows to be appropriate for achieving the stated goal or goals of the water conservation plan.

**VI. WATER CONSERVATION PLANS SUBMITTED WITH A WATER RIGHT APPLICATION FOR NEW OR ADDITIONAL STATE WATER**

Water Conservation Plans submitted with a water right application for New or Additional State Water must include data and information which:
1. support the applicant’s proposed use of water with consideration of the water conservation goals of the water conservation plan;

2. evaluates conservation as an alternative to the proposed appropriation; and

3. evaluates any other feasible alternative to new water development including, but not limited to, waste prevention, recycling and reuse, water transfer and marketing, regionalization, and optimum water management practices and procedures.

Additionally, it shall be the burden of proof of the applicant to demonstrate that no feasible alternative to the proposed appropriation exists and that the requested amount of appropriation is necessary and reasonable for the proposed use.
APPENDIX B

Water Conservation Implementation Report
Form and Summary of Updates/Revisions to Water Conservation Plan
(Form 20645)

Bardwell Reservoir Project

Joe Pool Reservoir Project

Navarro Reservoir Project
WATER CONSERVATION IMPLEMENTATION REPORT
FORM AND SUMMARY OF UPDATES/REVISIONS TO
WATER CONSERVATION PLAN
(Texas Water Code §11.1271(b) and Title 30 Texas Administrative Code §288.30(1) to (4))

Please note, this form replaces the following forms: TCEQ-20645 (Non-Public Water Suppliers) and TCEQ-20646 (Public Water Suppliers)

This Form is applicable to the following entities:
1. Water Right Holders of 1,000 acre-feet or more for municipal, industrial, and other non-irrigation uses.
2. Water Right Holders of 10,000 acre-feet or more for irrigation uses.

The above noted entities are required by rule to submit updates to their water conservation plan(s) and water conservation implementation report(s) every five years. The most current five-year submittal deadline is May 1st, 2019. See 30 Texas Administrative Code (TAC) §288.30(1) to (4). Entities must also submit any revisions to their water conservation plan within 90 days of adoption when the plans are revised in between the five-year submittal deadlines. This form may be used for the five-year submittal or when revisions are made to the water conservation plans in the interim periods between five-year submittals. Please complete the form as directed below.

1. Water Right Holder Name: Trinity River Authority - Bardwell Reservoir
2. Water Right Permit or Certificate Nos. CA 08-5021

3. Please Indicate by placing an 'X' next to all that Apply to your Entity:
   Water Right Holder of 1,000 acre-feet or more for non-irrigation uses
   ______Municipal Water Use by Public Water Supplier
   X ______Wholesale Public Water Supplier
   ______Industrial Use
   ______Mining Use
   ______Agriculture Non-Irrigation

Water Right Holder of 10,000 acre-feet or more for irrigation uses
   ______Individually-Operated Irrigation System
   ______Agricultural Water Suppliers Providing Water to More Than One User

Water Conservation Implementation Reports/Annual Reports
4. Water Conservation Annual Reports for the previous five years were submitted to the Texas Water Development Board (TWDB) for each of the uses indicated above as required by 30 TAC §288.30(10)(C)? Yes X No

TCEQ no longer requires submittal of the information contained in the detailed implementation report previously required in Forms TCEQ-20645 (Non-Public Water Suppliers) and TCEQ-20646 (Public Water Suppliers). However, the Entity must be up-to-date on its Annual Report Submittals to the TWDB.
5. Water Conservation Plans

For the five-year submittal (or for revisions between the five-year submittals), attach your updated or revised Water Conservation Plan for each of the uses indicated in Section 3, above. Every updated or revised water conservation plan submitted must contain each of the minimum requirements found in the TCEQ rules and must be duly adopted by the entity submitting the water conservation plan. Please include evidence that each water conservation plan submitted has been adopted.

- Rules on minimum requirements for Water Conservation Plans can be found in 30 TAC 288.
- Forms which include the minimum requirements and other useful information are also available to assist you. Visit the TCEQ webpage for Water Conservation Plans and Reports. https://www.tceq.texas.gov/permitting/water_rights/wr_technical-resources/conserve.html

Call 512-239-4691 or email to wcp@tceq.texas.gov for assistance with the requirements for your water conservation plan(s) and report(s).

6. For each Water Conservation Plan submitted, state whether the five and ten-year targets for water savings and water loss were met in your previous water conservation plan.
   Yes X  No ______
   If the targets were not met, please provide an explanation.

7. For each five-year submittal, does each water conservation plan submitted contain updated five and ten-year targets for water savings and water loss?
   Yes X  No ______
   If yes, please identify where in the water conservation plan the updated targets are located (page, section).

TCEQ-Form 20645 (revised 10/2018)
8. In the box below (or in an attachment titled “Summary of Updates or Revisions to Water Conservation Plans”), please identify any other revisions/updates made to each water conservation plan that is being updated or revised. Please specify the water conservation plan being updated and the location within the plan of the newly adopted updates or revisions.

1. Calculated GPCD and projected goals for 2024 and 2029 (Section 2.3)
2. Updated Form 20162 (Appendix A)
3. Updated Projected Populations and Water Demands for 2020-2070 (Appendix A)
4. Updated Form 20645 (Appendix B)

9. Form Completed by (Point of Contact): Glenn Clingenpeel
(If different than name listed above, owner and contact may be different individual(s)/entities)

Contact Person Title/Position: Planning and Environmental Services Manager
Contact Address: PO Box 60, Arlington TX 76004
Contact Phone Number: 8174935117 Contact Email Address: ClingenpeelG@trinityra.org

Signature: [Redacted] Date: [Redacted]
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
Water Availability Division - MC-160, P.O. Box 13087 Austin, Texas 78711-3087
Telephone (512) 239-4691, FAX (512) 239-2214

WATER CONSERVATION IMPLEMENTATION REPORT
FORM AND SUMMARY OF UPDATES/REVISIONS TO
WATER CONSERVATION PLAN
(Texas Water Code §11.1271(b) and Title 30 Texas Administrative Code §288.30(1) to (4))

Please note, this form replaces the following forms: TCEQ-20645 (Non-Public Water Suppliers) and TCEQ-20646 (Public Water Suppliers)

This Form is applicable to the following entities:
1. Water Right Holders of 1,000 acre-feet or more for municipal, industrial, and other non-irrigation uses.
2. Water Right Holders of 10,000 acre-feet or more for irrigation uses.

The above noted entities are required by rule to submit updates to their water conservation plan(s) and water conservation implementation report(s) every five years. The most current five-year submittal deadline is May 1*, 2019. See 30 Texas Administrative Code (TAC) §288.30(1) to (4). Entities must also submit any revisions to their water conservation plan within 90 days of adoption when the plans are revised in between the five-year submittal deadlines. This form may be used for the five-year submittal or when revisions are made to the water conservation plans in the interim periods between five-year submittals. Please complete the form as directed below.

1. Water Right Holder Name: Trinity River Authority - Joe Pool Lake
2. Water Right Permit or Certificate Nos. CA 08-3404

3. Please Indicate by placing an 'X' next to all that Apply to your Entity:
Water Right Holder of 1,000 acre-feet or more for non-irrigation uses
   _____Municipal Water Use by Public Water Supplier
   X _____Wholesale Public Water Supplier
   _____Industrial Use
   _____Mining Use
   _____Agriculture Non-Irrigation

Water Right Holder of 10,000 acre-feet or more for irrigation uses
   _____Individually-Operated Irrigation System
   _____Agricultural Water Suppliers Providing Water to More Than One User

Water Conservation Implementation Reports/Annual Reports
4. Water Conservation Annual Reports for the previous five years were submitted to the Texas Water Development Board (TWDB) for each of the uses indicated above as required by 30 TAC §288.30(10)(C)? Yes X No 

TCEQ no longer requires submittal of the information contained in the detailed implementation report previously required in Forms TCEQ-20645 (Non-Public Water Suppliers) and TCEQ-20646 (Public Water Suppliers). However, the Entity must be up-to-date on its Annual Report Submittals to the TWDB.

TCEQ-Form 20645 (revised 10/2018)
Water Conservation Plans

5. For the five-year submittal (or for revisions between the five-year submittals), attach your updated or revised Water Conservation Plan for each of the uses indicated in Section 3, above. Every updated or revised water conservation plan submitted must contain each of the minimum requirements found in the TCEQ rules and must be duly adopted by the entity submitting the water conservation plan. Please include evidence that each water conservation plan submitted has been adopted.

- Rules on minimum requirements for Water Conservation Plans can be found in 30 TAC 288.
- Forms which include the minimum requirements and other useful information are also available to assist you. Visit the TCEQ webpage for Water Conservation Plans and Reports. https://www.tceq.texas.gov/permitting/water_rights/wr_technical-resources/conserve.html

Call 512-239-4691 or email to wcp@tceq.texas.gov for assistance with the requirements for your water conservation plan(s) and report(s).

6. For each Water Conservation Plan submitted, state whether the five and ten-year targets for water savings and water loss were met in your previous water conservation plan.
   Yes X No

   If the targets were not met, please provide an explanation.

7. For each five-year submittal, does each water conservation plan submitted contain updated five and ten-year targets for water savings and water loss?
   Yes X No

   If yes, please identify where in the water conservation plan the updated targets are located (page, section).

Page 8 Section 2.3 Conservation Goals
8. In the box below (or in an attachment titled “Summary of Updates or Revisions to Water Conservation Plans), please identify any other revisions/updates made to each water conservation plan that is being updated or revised. Please specify the water conservation plan being updated and the location within the plan of the newly adopted updates or revisions.

1. Calculated GPCD and projected goals for 2024 and 2029 (Section 2.3)
2. Updated Form 20162 (Appendix A)
3. Updated Projected Populations and Water Demands for 2020-2070 (Appendix A)
4. Updated Form 20645 (Appendix B)

9. Form Completed by (Point of Contact): Glenn Clingenpeel
(If different than name listed above, owner and contact may be different individual(s)/entities)

Contact Person Title/Position: Planning and Environmental Services Manager
Contact Address: PO Box 60, Arlington TX 76004
Contact Phone Number: 8174935117 Contact Email Address: ClingenpeelG@trinityra.org

Signature: [Signature] Date: 5/24/2019
This Form is applicable to the following entities:
1. Water Right Holders of 1,000 acre-feet or more for municipal, industrial, and other non-irrigation uses.
2. Water Right Holders of 10,000 acre-feet or more for irrigation uses.

The above noted entities are required by rule to submit updates to their water conservation plan(s) and water conservation implementation report(s) every five years. The most current five-year submittal deadline is May 1*, 2019. See 30 Texas Administrative Code (TAC) §288.30(1) to (4). Entities must also submit any revisions to their water conservation plan within 90 days of adoption when the plans are revised in between the five-year submittal deadlines. This form may be used for the five-year submittal or when revisions are made to the water conservation plans in the interim periods between five-year submittals. Please complete the form as directed below.

1. Water Right Holder Name: Trinity River Authority - Navarro Mills Reservoir
2. Water Right Permit or Certificate Nos. CA 08-4992

3. Please Indicate by placing an 'X' next to all that Apply to your Entity:
   Water Right Holder of 1,000 acre-feet or more for non-irrigation uses
   ______ Municipal Water Use by Public Water Supplier
   X ______ Wholesale Public Water Supplier
   ______ Industrial Use
   ______ Mining Use
   ______ Agriculture Non-Irrigation

   Water Right Holder of 10,000 acre-feet or more for irrigation uses
   ______ Individually-Operated Irrigation System
   ______ Agricultural Water Suppliers Providing Water to More Than One User

Water Conservation Implementation Reports/Annual Reports

4. Water Conservation Annual Reports for the previous five years were submitted to the Texas Water Development Board (TWDB) for each of the uses indicated above as required by 30 TAC §288.30(10)(C)? Yes X ______ No ______

TCEQ no longer requires submittal of the information contained in the detailed implementation report previously required in Forms TCEQ-20645 (Non-Public Water Suppliers) and TCEQ-20646 (Public Water Suppliers). However, the Entity must be up-to-date on its Annual Report Submittals to the TWDB.
Water Conservation Plans

5. For the five-year submittal (or for revisions between the five-year submittals), attach your updated or revised Water Conservation Plan for each of the uses indicated in Section 3, above. Every updated or revised water conservation plan submitted must contain each of the minimum requirements found in the TCEQ rules and must be duly adopted by the entity submitting the water conservation plan. Please include evidence that each water conservation plan submitted has been adopted.

- Rules on minimum requirements for Water Conservation Plans can be found in 30 TAC 288. [Link](http://texreg.sos.state.tx.us/public/readtac%24ext.ViewTAC?tac_view=4&ti=30&pt=1&ch=288)
- Forms which include the minimum requirements and other useful information are also available to assist you. Visit the TCEQ webpage for Water Conservation Plans and Reports. [https://www.tceq.texas.gov/permitting/water_rights/wr_technical-resources/conserve.html](https://www.tceq.texas.gov/permitting/water_rights/wr_technical-resources/conserve.html)

Call 512-239-4691 or email to wcp@tceq.texas.gov for assistance with the requirements for your water conservation plan(s) and report(s).

6. For each Water Conservation Plan submitted, state whether the five and ten-year targets for water savings and water loss were met in your previous water conservation plan.

Yes\(\checkmark\)____ No_______

If the targets were not met, please provide an explanation.

7. For each five-year submittal, does each water conservation plan submitted contain updated five and ten-year targets for water savings and water loss?

Yes\(\checkmark\)____ No_______

If yes, please identify where in the water conservation plan the updated targets are located (page, section).

Page 8 Section 2.3 Conservation Goals
8. In the box below (or in an attachment titled “Summary of Updates or Revisions to Water Conservation Plans), please identify any other revisions/updates made to each water conservation plan that is being updated or revised. Please specify the water conservation plan being updated and the location within the plan of the newly adopted updates or revisions.

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<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>Updated wholesale customers (under Section 2.2)</td>
</tr>
<tr>
<td>2.</td>
<td>Calculated GPCD and projected goals for 2024 and 2029 (Section 2.3)</td>
</tr>
<tr>
<td>3.</td>
<td>Updated Form 20162 (Appendix A)</td>
</tr>
<tr>
<td>4.</td>
<td>Updated Projected Populations and Water Demands for 2020-2070 (Appendix A)</td>
</tr>
<tr>
<td>5.</td>
<td>Updated Form 20645 (Appendix B)</td>
</tr>
</tbody>
</table>

9. Form Completed by (Point of Contact): Glenn Clingenpeel  
   (If different than name listed above, owner and contact may be different individual(s)/entities)

   Contact Person Title/Position: Planning and Environmental Services Manager

   Contact Address: PO Box 60, Arlington TX 76004

   Contact Phone Number: 8174935117  Contact Email Address: ClingenpeelG@trinityra.org

   Signature: ____________________________  Date: 4-24-2019
RESOLUTION NO. R-1159-3

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE TRINITY RIVER AUTHORITY OF TEXAS ADOPTING WATER CONSERVATION AND DROUGHT CONTINGENCY PLANS FOR NAVARRO MILLS, BARDWELL AND JOE POOL RESERVOIRS AND RESCINDING RESOLUTION NO. R-1159-2

WHEREAS, the Trinity River Authority (Authority) recognizes that the amount of water available to its water customers is limited; and

WHEREAS, the Authority recognizes that due to natural limitations and drought conditions, the Authority cannot guarantee an uninterrupted water supply for all purposes at all times; and

WHEREAS, the Texas Water Code and the regulations of the Texas Commission on Environmental Quality (TCEQ) require that the Authority adopt water conservation and drought contingency plans; and

WHEREAS, the Board of Directors of the Authority desires to adopt the revised Water Conservation and Drought Contingency Plans for Navarro Mills, Bardwell and Joe Pool Lake Reservoirs; and

WHEREAS, on June 24, 2009, the Board of Directors of the Authority adopted Resolution No. R-1159-1 captioned as follows:

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE TRINITY RIVER AUTHORITY OF TEXAS ADOPTING A WATER CONSERVATION PLAN AND DROUGHT CONTINGENCY PLAN FOR NAVARRO MILLS RESERVOIR AND RESCINDING RESOLUTION NO. R-1159; and

WHEREAS, on June 24, 2009, the Board of Directors of the Authority adopted Resolution No. R-1160-1 captioned as follows:

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE TRINITY RIVER AUTHORITY OF TEXAS ADOPTING A WATER CONSERVATION PLAN AND DROUGHT CONTINGENCY PLAN FOR BARDWELL RESERVOIR AND RESCINDING RESOLUTION NO. R-1160; and

WHEREAS, on June 24, 2009, the Board of Directors of the Authority adopted Resolution No. R-1161-1 captioned as follows:

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE TRINITY RIVER AUTHORITY OF TEXAS ADOPTING A WATER CONSERVATION PLAN AND DROUGHT CONTINGENCY PLAN FOR JOE POOL RESERVOIR AND RESCINDING RESOLUTION NO. R-1161; and

WHEREAS, on April 23, 2014, the Board of Directors of the Authority adopted Resolution No. R-1159-2 captioned as follows:
A RESOLUTION OF THE BOARD OF DIRECTORS OF THE TRINITY RIVER AUTHORITY OF TEXAS ADOPTING WATER CONSERVATION AND DROUGHT CONTINGENCY PLANS FOR NAVARRO MILLS, BARDWELL AND JOE POOL RESERVOIRS AND RESCINDING RESOLUTION NOS. R-1159-1, R-1160-1 AND R-1161-1

WHEREAS, it is in the public interest that Resolution No. R-1159-2 be rescinded.

NOW THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE TRINITY RIVER AUTHORITY THAT:

(1) That Resolution No. R-1159-2 adopted by the Board of Directors of the Authority on April 23, 2014 is hereby rescinded;

(2) That the Board of Directors hereby adopts Resolution No. R-1159-3 approving and adopting the revised Water Conservation and Drought Contingency Plan for Navarro Mills, Bardwell and Joe Pool Reservoirs, in substantially the form presented, and that the Authority commits to implement the requirements and procedures set forth in the adopted Plan;

(3) That the Board of Directors does hereby find and declare that sufficient written notice of the date, hour, place, and subject of the meeting adopting this Resolution was posted at a designated place convenient to the public for the time required by law preceding the meeting, that such place of posting was readily accessible at all times to the general public, and that all of the foregoing was done as required by law at all times during which this Resolution and the subject matter thereof has been discussed, considered and formally acted upon;

(4) That the General Manager or his designee is hereby directed to file a copy of the Plan and this Resolution with TCEQ and the Texas Water Development Board in accordance with Title 30, Chapter 288 of the Texas Administrative Code and with the Region C Water Planning Group; and

(5) That should any paragraph, sentence, clause, phrase, or word of this Resolution be declared unconstitutional or invalid for any reason, the remainder of this Resolution shall not be affected.

ADMITTED this ______ day of ______, 2019.

Kevin Makwell, Acting President
Board of Directors
Trinity River Authority of Texas

ATTEST:

HOWARD S. SLOBODIN, Secretary