

# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

## TCEQ WATER RIGHTS PERMITTING APPLICATION

### ADMINISTRATIVE INFORMATION CHECKLIST

Complete and submit this checklist for each application. See Instructions Page 5.

APPLICANT(S): Trinity River Authority of Texas

Indicate whether the following items are included in your application by writing either Y (for yes) or N (for no) next to each item (all items are not required for every application).

<input checked="" type="checkbox"/> Y/N	<input checked="" type="checkbox"/> Y	<b>Administrative Information Report</b>	<input checked="" type="checkbox"/> Y/N	<input checked="" type="checkbox"/> Y	<b>Worksheet 3.0</b>
<input type="checkbox"/> N	<input type="checkbox"/> N	Additional Co-Applicant Information	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> Y	Additional W.S. 3.0 for each Point
<input type="checkbox"/> N	<input type="checkbox"/> N	Additional Co-Applicant Signature Pages	<input type="checkbox"/> N	<input type="checkbox"/> N	Recorded Deeds for Diversion Points
<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> Y	Written Evidence of Signature Authority	<input type="checkbox"/> N	<input type="checkbox"/> N	Consent for Diversion Access
<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> Y	<b>Technical Information Report</b>	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> Y	<b>Worksheet 4.0</b>
<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	USGS Map (or equivalent)	<input type="checkbox"/> N	<input type="checkbox"/> N	TPDES Permit(s)
<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	Map Showing Project Details	<input type="checkbox"/> N	<input type="checkbox"/> N	WWTP Discharge Data
<input type="checkbox"/> N	<input type="checkbox"/> N	Original Photographs	<input type="checkbox"/> N	<input type="checkbox"/> N	Groundwater Well Permit
<input type="checkbox"/> N	<input type="checkbox"/> N	Water Availability Analysis	<input type="checkbox"/> N	<input type="checkbox"/> N	Signed Water Supply Contract
<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> Y	<b>Worksheet 1.0</b>	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> Y	<b>Worksheet 4.1</b>
<input type="checkbox"/> N	<input type="checkbox"/> Y	Recorded Deeds for Irrigated Land	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> Y	<b>Worksheet 5.0</b>
<input type="checkbox"/> N	<input type="checkbox"/> Y	Consent for Irrigated Land	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> Y	Addendum to Worksheet 5.0
<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> Y	<b>Worksheet 1.1</b>	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> Y	<b>Worksheet 6.0</b>
<input type="checkbox"/> N	<input type="checkbox"/> Y	Addendum to Worksheet 1.1	<input type="checkbox"/> Y	<input type="checkbox"/> Y	Water Conservation Plan(s)
<input checked="" type="checkbox"/> Y	<input type="checkbox"/> Y	<b>Worksheet 1.2</b>	<input type="checkbox"/> Y	<input type="checkbox"/> Y	Drought Contingency Plan(s)
<input checked="" type="checkbox"/> Y	<input type="checkbox"/> Y	<b>Worksheet 2.0</b>	<input type="checkbox"/> Y	<input type="checkbox"/> Y	Documentation of Adoption
<input type="checkbox"/> N	<input type="checkbox"/> Y	Additional W.S. 2.0 for Each Reservoir	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> Y	<b>Worksheet 7.0</b>
<input type="checkbox"/> N	<input type="checkbox"/> N	Dam Safety Documents	<input type="checkbox"/> N	<input type="checkbox"/> N	Accounting Plan
<input type="checkbox"/> N	<input type="checkbox"/> Y	Notice(s) to Governing Bodies	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> Y	<b>Worksheet 8.0</b>
<input type="checkbox"/> N	<input type="checkbox"/> Y	Recorded Deeds for Inundated Land	<input type="checkbox"/> Y	<input type="checkbox"/> Y	Fees
<input type="checkbox"/> N	<input type="checkbox"/> Y	Consent for Inundated Land	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> Y	Public Involvement Plan

**RECEIVED**  
FEB 26 2026  
Water Availability Division

# ADMINISTRATIVE INFORMATION REPORT

The following information is required for all new applications and amendments.

**\*\*\* Applicants are REQUIRED to schedule a pre-application meeting with TCEQ Staff to discuss Applicant's needs prior to submitting an application. Call the Water Rights Permitting Team to schedule a meeting at (512) 239-4600.**

## 1. TYPE OF APPLICATION (Instructions, Page. 6)

Indicate, by marking X, next to the following authorizations you are seeking.

- New Appropriation of State Water
- Amendment to a Water Right \*
- Bed and Banks

***\*If you are seeking an amendment to an existing water rights authorization, you must be the owner of record of the authorization. If the name of the Applicant in Section 2 does not match the name of the current owner(s) of record for the permit or certificate or if any of the co-owners is not included as an applicant in this amendment request, your application could be returned. If you or a co-applicant are a new owner, but ownership is not reflected in the records of the TCEQ, submit a change of ownership request (Form TCEQ-10204) prior to submitting the application for an amendment. See Instructions page. 6. Please note that an amendment application may be returned, and the Applicant may resubmit once the change of ownership is complete.***

Please summarize the authorizations or amendments you are seeking in the space below or attach a narrative description entitled "Summary of Request."

The Trinity River Authority of Texas (TRA) is the owner of the Certificate of Adjudication 08-2388, as amended in Amendment A and B. This includes 3,188 af/yr of natural yield available to be diverted from White Rock Creek for industrial use. Amendment A authorized an additional diversion point on the Trinity River, approximately 12 miles north of the Town of Fairfield for part or all of the authorized 3,188 acre feet. Amendment B added special conditions for diversions made at the authorized diversion point in Freestone County. Additionally, in 2020, TRA purchased the rights for the diversion of the authorized 3,188 af from White Rock Creek in Dallas county and the Trinity River in Freestone county from the Luminant Generation Company LLC.

TRA requests to establish a diversion reach beginning at the authorized upstream diversion point on White Rock Creek and ending at Lake Livingston dam, allowing diversion of the authorized 3,188 acre-feet natural yield from any point within this reach to include any previously authorized diversion points.

TRA also requests to expand the authorized use of the natural yield to include municipal and mining purposes.

In addition, TRA requests correction of the Amendment A diversion point coordinates, which are currently inaccurate.

**2. APPLICANT INFORMATION (Instructions, Page. 6 )**

**a. Applicant**

Indicate the number of Applicants/Co-Applicants 1  
(Include a copy of this section for each Co-Applicant, if any)

What is the Full Legal Name of the individual or entity (applicant) applying for this permit?

Trinity River Authority of Texas

*(If the Applicant is an entity, the legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal documents forming the entity.)*

If the applicant is currently a customer with the TCEQ, what is the Customer Number (CN)? You may search for your CN on the TCEQ website at

<http://www15.tceq.texas.gov/crpub/index.cfm?fuseaction=cust.CustSearch>

CN : CN601265945 ( leave blank if you do not yet have a CN).

What is the name and title of the person or persons signing the application? Unless an application is signed by an individual applicant, the person or persons must submit written evidence that they meet the signatory requirements in 30 TAC § 295.14.

First/Last Name: J. Kevin Ward

Title: General Manager

Have you provided written evidence meeting the signatory requirements in 30 TAC § 295.14, as an attachment to this application? Y/N Y

What is the applicant's mailing address as recognized by the US Postal Service (USPS)? You may verify the address on the USPS website at

<https://tools.usps.com/go/ZipLookupAction!input.action>.

Name: Trinity River Authority of Texas

Mailing Address: 5300 S. Collins

City: Arlington State: TX ZIP Code: 76018

Indicate an X next to the type of Applicant:

- |                                             |                                                       |
|---------------------------------------------|-------------------------------------------------------|
| <input type="checkbox"/> Individual         | <input type="checkbox"/> Sole Proprietorship-D.B.A.   |
| <input type="checkbox"/> Partnership        | <input type="checkbox"/> Corporation                  |
| <input type="checkbox"/> Trust              | <input type="checkbox"/> Estate                       |
| <input type="checkbox"/> Federal Government | <input type="checkbox"/> State Government             |
| <input type="checkbox"/> County Government  | <input type="checkbox"/> City Government              |
| <input type="checkbox"/> Other Government   | <input type="checkbox"/> Other <u>River Authority</u> |

For Corporations or Limited Partnerships, provide:

State Franchise Tax ID Number: na SOS Charter (filing) Number: na

### 3. APPLICATION CONTACT INFORMATION (Instructions, Page. 9)

If the TCEQ needs additional information during the review of the application, who should be contacted? Applicant may submit their own contact information if Applicant wishes to be the point of contact.

First and Last Name: Anthony Rust

Title: Watershed Scientist II

Organization Name: Trinity River Authority of Texas

Mailing Address: 5300 S. Collins St.

City: Arlington State: TX ZIP Code: 76018

Phone Number: 817-467-4343

Fax Number: na

E-mail Address: [REDACTED]

**4. WATER RIGHT CONSOLIDATED CONTACT INFORMATION  
(Instructions, Page. 9)**

This section applies only if there are multiple Owners of the same authorization. Unless otherwise requested, Co-Owners will each receive future correspondence from the Commission regarding this water right (after a permit has been issued), such as notices and water use reports. Multiple copies will be sent to the same address if Co-Owners share the same address. Complete this section if there will be multiple owners and all owners agree to let one owner receive correspondence from the Commission. Leave this section blank if you would like all future notices to be sent to the address of each of the applicants listed in section 2 above.

I/We authorize all future notices be received on my/our behalf at the following:

First and Last Name: na

Title: na

Organization Name: na

Mailing Address: na

City: na State: na ZIP Code: na

Phone Number: na

Fax Number: na

E-mail Address: na

**5. MISCELLANEOUS INFORMATION (Instructions, Page. 9)**

a. The application will not be processed unless all delinquent fees and/or penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ are paid in accordance with the Delinquent Fee and Penalty Protocol by all applicants/co-applicants. If you need assistance determining whether you owe delinquent penalties or fees, please call the Water Rights Permitting Team at (512) 239-4600, prior to submitting your application.

1. Does Applicant or Co-Applicant owe any fees to the TCEQ? **Yes / No** No

If **yes**, provide the following information:

Account number: na Amount past due: na

2. Does Applicant or Co-Applicant owe any penalties to the TCEQ? **Yes / No** No

If **yes**, please provide the following information:

Enforcement order number: na Amount past due: na

b. If the Applicant is a taxable entity (corporation or limited partnership), the Applicant must be in good standing with the Comptroller or the right of the entity to transact business in the State may be forfeited. See Texas Tax Code, Subchapter F. Applicant's may check their status with the Comptroller at <https://mycpa.cpa.state.tx.us/coa/>

Is the Applicant or Co-Applicant in good standing with the Comptroller? **Yes / No** Yes

c. The commission will not grant an application for a water right unless the applicant has submitted all Texas Water Development Board (TWDB) surveys of groundwater and surface water use - if required. See TWC §16.012(m) and 30 TAC § 297.41(a)(5). Applicants should check survey status on the TWDB website prior to filing:

[https://www3.twdb.texas.gov/apps/reports/WU\\_REP/SurveyStatus\\_PriorThreeYears](https://www3.twdb.texas.gov/apps/reports/WU_REP/SurveyStatus_PriorThreeYears)

Applicant has submitted all required TWDB surveys of groundwater and surface water?

**Yes / No** Yes

TRA has submitted all required TWDB surveys. However, no survey has been submitted specifically for this water right because there has been no diversion or use under the right, and TRA has had no customers associated with this water since acquiring ownership.

**6. SIGNATURE PAGE (Instructions, Page. 11)**

Applicant:

I, J. Kevin Ward General Manager  
(Typed or printed name) (Title)

certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Article IV Sections 1 and 3(f) authorizes the General Manager to coordinate the Authority's project development functions. See attachment 1\_TRA\_Bylaws

I further certify that I am authorized under Title 30 Texas Administrative Code §295.14 to sign and submit this document and I have submitted written evidence of my signature authority.

Signature: J. Kevin Ward Date: 2/23/26  
(Use blue ink)

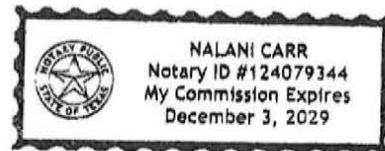
Subscribed and Sworn to before me by the said

on this 23<sup>rd</sup> day of February, 20 26.

My commission expires on the 3<sup>rd</sup> day of December, 20 29.

Nalani Carr  
Notary Public  
Tarrant County  
County, Texas

[SEAL]



***If the Application includes Co-Applicants, each Applicant and Co-Applicant must submit an original, separate signature page***

## TECHNICAL INFORMATION REPORT WATER RIGHTS PERMITTING

This Report is required for applications for new or amended water rights. Based on the Applicant's responses below, Applicants are directed to submit additional Worksheets (provided herein). A completed Administrative Information Report is also required for each application.

**Applicants are REQUIRED to schedule a pre-application meeting with TCEQ Permitting Staff to discuss Applicant's needs and to confirm information necessary for an application prior to submitting such application. Please contact the Water Availability Division at (512) 239-4600 or [WRPT@tceq.texas.gov](mailto:WRPT@tceq.texas.gov) to schedule a meeting.**

Date of pre-application meeting: 2/17/2026

### 1. New or Additional Appropriations of State Water. Texas Water Code (TWC) § 11.121 (Instructions, Page. 12)

**State Water is:** *The water of the ordinary flow, underflow, and tides of every flowing river, natural stream, and lake, and of every bay or arm of the Gulf of Mexico, and the storm water, floodwater, and rainwater of every river, natural stream, canyon, ravine, depression, and watershed in the state. TWC § 11.021.*

- a. Applicant requests a new appropriation (diversion or impoundment) of State Water? Y / N N
- b. Applicant requests an amendment to an existing water right requesting an increase in the appropriation of State Water or an increase of the overall or maximum combined diversion rate? Y / N N (If yes, indicate the Certificate or Permit number: NA)

*If Applicant answered yes to (a) or (b) above, does Applicant also wish to be considered for a term permit pursuant to TWC § 11.1381? Y / N NA*

- c. Applicant requests to extend an existing Term authorization or to make the right permanent? Y / N N (If yes, indicate the Term Certificate or Permit number: NA)

*If Applicant answered yes to (a), (b) or (c), the following worksheets and documents are required:*

- **Worksheet 1.0 - Quantity, Purpose, and Place of Use Information Worksheet**
- **Worksheet 2.0 - Impoundment/Dam Information Worksheet** (submit one worksheet for each impoundment or reservoir requested in the application)
- **Worksheet 3.0 - Diversion Point Information Worksheet** (submit one worksheet for each diversion point and/or one worksheet for the upstream limit and one worksheet for the downstream limit of each diversion reach requested in the application)
- **Worksheet 5.0 - Environmental Information Worksheet**
- **Worksheet 6.0 - Water Conservation Information Worksheet**
- **Worksheet 7.0 - Accounting Plan Information Worksheet**
- **Worksheet 8.0 - Calculation of Fees**
- **Fees calculated on Worksheet 8.0** - see instructions **Page. 34.**
- **Maps** - See instructions **Page. 15.**
- **Photographs** - See instructions **Page. 30.**

*Additionally, if Applicant wishes to submit an alternate source of water for the project/authorization, see Section 3, Page 3 for Bed and Banks Authorizations (Alternate sources may include groundwater, imported water, contract water or other sources).*

**Additional Documents and Worksheets may be required (see within).**

**2. Amendments to Water Rights. TWC § 11.122 (Instructions, Page. 12)**

This section should be completed if Applicant owns an existing water right and Applicant requests to amend the water right. *If Applicant is not currently the Owner of Record in the TCEQ Records, Applicant must submit a Change of Ownership Application (TCEQ-10204) prior to submitting the amendment Application or provide consent from the current owner to make the requested amendment. If the application does not contain consent from the current owner to make the requested amendment, TCEQ will not begin processing the amendment application until the Change of Ownership has been completed and will consider the Received Date for the application to be the date the Change of Ownership is completed. See instructions page. 6.*

Water Right (Certificate or Permit) number you are requesting to amend: 06-2388

Applicant requests to sever and combine existing water rights from one or more Permits or Certificates into another Permit or Certificate? **Y / N** N (if yes, complete chart below):

List of water rights to sever	Combine into this ONE water right
NA	NA

- a. Applicant requests an amendment to an existing water right to increase the amount of the appropriation of State Water (diversion and/or impoundment)? **Y / N** N

*If yes, application is a new appropriation for the increased amount, complete Section 1 of this Report (PAGE. 1) regarding New or Additional Appropriations of State Water.*

- b. Applicant requests to amend existing Term authorization to extend the term or make the water right permanent (remove conditions restricting water right to a term of years)? **Y / N** N

*If yes, application is a new appropriation for the entire amount, complete Section 1 of this Report (PAGE. 1) regarding New or Additional Appropriations of State Water.*

- c. Applicant requests an amendment to change the purpose or place of use or to add an additional purpose or place of use to an existing Permit or Certificate? **Y / N** Y  
*If yes, submit:*

- **Worksheet 1.0 - Quantity, Purpose, and Place of Use Information Worksheet**
- **Worksheet 1.2 - Notice: "Marshall Criteria"**

- d. Applicant requests to change: diversion point(s); or reach(es); or diversion rate? **Y / N** Y  
*If yes, submit:*

- **Worksheet 3.0 - Diversion Point Information Worksheet** (submit one worksheet for each diversion point or one worksheet for the upstream limit and one worksheet for the downstream limit of each diversion reach)
- **Worksheet 5.0 - Environmental Information** (Required for any new diversion points that are not already authorized in a water right)

- e. Applicant requests amendment to add or modify an impoundment, reservoir, or dam? **Y / N** N

*If yes, submit: Worksheet 2.0 - Impoundment/Dam Information Worksheet* (submit one worksheet for each impoundment or reservoir)

- f. Other - Applicant requests to change any provision of an authorization not mentioned above? Y / N        *If yes, call the Water Availability Division at (512) 239-4600 to discuss.*

**Additionally, all amendments require:**

- **Worksheet 8.0 – Calculation of Fees; and Fees calculated – see instructions Page. 34**
- **Maps – See instructions Page. 15.**
- **Additional Documents and Worksheets may be required (see within).**

**3. Bed and Banks. TWC § 11.042 (Instructions, Page 13)**

- a. Pursuant to contract, Applicant requests authorization to convey, stored or conserved water to the place of use or diversion point of purchaser(s) using the bed and banks of a watercourse? TWC § 11.042(a). Y/N         
*If yes, submit a signed copy of the Water Supply Contract pursuant to 30 TAC §§ 295.101 and 297.101. Further, if the underlying Permit or Authorization upon which the Contract is based does not authorize Purchaser's requested Quantity, Purpose or Place of Use, or Purchaser's diversion point(s), then either:*
1. *Purchaser must submit the worksheets required under Section 1 above with the Contract Water identified as an alternate source; or*
  2. *Seller must amend its underlying water right under Section 2.*
- b. Applicant requests to convey water imported into the state from a source located wholly outside the state using the bed and banks of a watercourse? TWC § 11.042(a-1). Y / N         
*If yes, submit worksheets 1.0, 2.0, 3.0, 4.0, 5.0, 7.0, 8.0, Maps and fees from the list below.*
- c. Applicant requests to convey Applicant's own return flows derived from privately owned groundwater using the bed and banks of a watercourse? TWC § 11.042(b). Y / N         
*If yes, submit worksheets 1.0, 2.0, 3.0, 4.0, 5.0, 7.0, 8.0, Maps, and fees from the list below.*
- d. Applicant requests to convey Applicant's own return flows derived from surface water using the bed and banks of a watercourse? TWC § 11.042(c). Y / N         
*If yes, submit worksheets 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, Maps, and fees from the list below.*
- \*Please note, if Applicant requests the reuse of return flows belonging to others, the Applicant will need to submit the worksheets and documents under Section 1 above, as the application will be treated as a new appropriation subject to termination upon direct or indirect reuse by the return flow discharger/owner.***
- e. Applicant requests to convey water from any other source, other than (a)-(d) above, using the bed and banks of a watercourse? TWC § 11.042(c). Y / N         
*If yes, submit worksheets 1.0, 2.0, 3.0, 4.0, 5.0, 7.0, 8.0, Maps, and fees from the list below.*  
*Worksheets and information:*
- **Worksheet 1.0 – Quantity, Purpose, and Place of Use Information Worksheet**
  - **Worksheet 2.0 - Impoundment/Dam Information Worksheet** (submit one worksheet for each impoundment or reservoir owned by the applicant through which water will be conveyed or diverted)
  - **Worksheet 3.0 - Diversion Point Information Worksheet** (submit one worksheet for the downstream limit of each diversion reach for the proposed conveyances)

- **Worksheet 4.0 – Discharge Information Worksheet** (for each discharge point)
- **Worksheet 5.0 – Environmental Information Worksheet**
- **Worksheet 6.0 – Water Conservation Information Worksheet**
- **Worksheet 7.0 – Accounting Plan Information Worksheet**
- **Worksheet 8.0 – Calculation of Fees; and Fees calculated – see instructions Page. 34**
- **Maps – See instructions Page. 15.**
- **Additional Documents and Worksheets may be required (see within).**

#### 4. **General Information, Response Required for all Water Right Applications (Instructions, Page 15)**

- a. Provide information describing how this application addresses a water supply need in a manner that is consistent with the state water plan or the applicable approved regional water plan for any area in which the proposed appropriation is located or, in the alternative, describe conditions that warrant a waiver of this requirement (*not required for applications to use groundwater-based return flows*). Include citations or page numbers for the State and Regional Water Plans, if applicable. Provide the information in the space below or submit a supplemental sheet entitled “Addendum Regarding the State and Regional Water Plans”:

TRA is located within the Region C Regional Water Planning Area. This application is consistent with both the 2021 Region C Water Plan and the 2022 State Water Plan. Region C identifies TRA as a major wholesale water provider and emphasizes the need to more efficiently use and manage existing authorized supplies to meet long-term municipal and industrial demands. This application does not seek any increase in the authorized 3,188 acre-feet of natural yield from White Rock Creek. Instead, it improves the accessibility and operational flexibility of this existing supply by authorizing a diversion reach from the previously authorized diversion point on White Rock Creek, downstream the Trinity River to Lake Livingston Dam, and adding municipal and mining as allowable purposes of use. These changes enhance the management of an existing water source and are fully consistent with, and not in conflict with, the Region C and State Water Plans.

- b. Did the Applicant perform its own Water Availability Analysis? Y / N <sup>N</sup>\_\_\_\_\_

*If the Applicant performed its own Water Availability Analysis, provide electronic copies of any modeling files and reports.*

- c. Does the application include required Maps? (Instructions Page. 15) Y / N <sup>Y</sup>\_\_\_\_\_

# WORKSHEET 1.0

## Quantity, Purpose and Place of Use

### 1. New Authorizations (Instructions, Page. 16)

Submit the following information regarding quantity, purpose and place of use for requests for new or additional appropriations of State Water or Bed and Banks authorizations:

Quantity (acre- feet) <i>(Include losses for Bed and Banks)</i>	State Water Source (River Basin) or Alternate Source <i>*each alternate source (and new appropriation based on return flows of others) also requires completion of Worksheet 4.0</i>	Purpose(s) of Use	Place(s) of Use <i>*requests to move state water out of basin also require completion of Worksheet 1.1 Interbasin Transfer</i>
NA	NA	NA	NA

NA \_\_\_\_\_ Total amount of water (in acre-feet) to be used annually (*include losses for Bed and Banks applications*)

If the Purpose of Use is Agricultural/Irrigation for any amount of water, provide:

a. Location Information Regarding the Lands to be Irrigated

- i) Applicant proposes to irrigate a total of NA \_\_\_\_\_ acres in any one year. This acreage is all of or part of a larger tract(s) which is described in a supplement attached to this application and contains a total of NA \_\_\_\_\_ acres in NA \_\_\_\_\_ County, TX.
- ii) Location of land to be irrigated: In the NA \_\_\_\_\_ Original Survey No. NA \_\_\_\_\_, Abstract No. NA \_\_\_\_\_.

***A copy of the deed(s) or other acceptable instrument describing the overall tract(s) with the recording information from the county records must be submitted. Applicant's name must match deeds.***

***If the Applicant is not currently the sole owner of the lands to be irrigated, Applicant must submit documentation evidencing consent or other documentation supporting Applicant's right to use the land described.***

***Water Rights for Irrigation may be appurtenant to the land irrigated and convey with the land unless reserved in the conveyance. 30 TAC § 297.81.***

**2. Amendments - Purpose or Place of Use (Instructions, Page. 12)**

- a. Complete this section for each requested amendment changing, adding, or removing Purpose(s) or Place(s) of Use, complete the following:

Quantity (acre-feet)	Existing Purpose(s) of Use	Proposed Purpose(s) of Use*	Existing Place(s) of Use	Proposed Place(s) of Use**
3,188	Industrial	Industrial, Municipal, Mining	Dallas and Freestone counties	Dallas, Kaufman, Ellis, Henderson, Navarro, Freestone, Anderson, Leon, Houston, Madison, Walker, Trinity, San Jacinto, and Polk counties but only the part within the confines of the Trinity River Basin

*\*If the request is to add additional purpose(s) of use, include the existing and new purposes of use under "Proposed Purpose(s) of Use."*

*\*\*If the request is to add additional place(s) of use, include the existing and new places of use under "Proposed Place(s) of Use."*

*Changes to the purpose of use in the Rio Grande Basin may require conversion. 30 TAC § 303.43.*

- b. For any request which adds Agricultural purpose of use or changes the place of use for Agricultural rights, provide the following location information regarding the lands to be irrigated:
- i. Applicant proposes to irrigate a total of NA acres in any one year. This acreage is all of or part of a larger tract(s) which is described in a supplement attached to this application and contains a total of NA acres in NA County, TX.
  - ii. Location of land to be irrigated: In the NA Original Survey No. NA, Abstract No. NA.

***A copy of the deed(s) describing the overall tract(s) with the recording information from the county records must be submitted. Applicant's name must match deeds. If the Applicant is not currently the sole owner of the lands to be irrigated, Applicant must submit documentation evidencing consent or other legal right for Applicant to use the land described.***

***Water Rights for Irrigation may be appurtenant to the land irrigated and convey with the land unless reserved in the conveyance. 30 TAC § 297.81.***

- c. Submit Worksheet 1.1, Interbasin Transfers, for any request to change the place of use which moves State Water to another river basin.
- d. See Worksheet 1.2, Marshall Criteria, and submit if required.
- e. See Worksheet 6.0, Water Conservation/Drought Contingency, and submit if required.

## WORKSHEET 1.1 INTERBASIN TRANSFERS, TWC § 11.085

Submit this worksheet for an application for a new or amended water right which requests to transfer State Water from its river basin of origin to use in a different river basin. A river basin is defined and designated by the Texas Water Development Board by rule pursuant to TWC § 16.051.

Applicant requests to transfer State Water to another river basin within the State? Y / N N

### 1. Interbasin Transfer Request (Instructions, Page. 20)

- a. Provide the Basin of Origin. NA
- b. Provide the quantity of water to be transferred (acre-feet). NA
- c. Provide the Basin(s) and count(y/ies) where use will occur in the space below:  
NA

### 2. Exemptions (Instructions, Page. 20), TWC § 11.085(v)

Certain interbasin transfers are exempt from further requirements. Answer the following:

- a. The proposed transfer, which in combination with any existing transfers, totals less than 3,000 acre-feet of water per annum from the same water right. Y/N NA
- b. The proposed transfer is from a basin to an adjoining coastal basin? Y/N NA
- c. The proposed transfer from the part of the geographic area of a county or municipality, or the part of the retail service area of a retail public utility as defined by Section 13.002, that is within the basin of origin for use in that part of the geographic area of the county or municipality, or that contiguous part of the retail service area of the utility, not within the basin of origin? Y/N NA
- d. The proposed transfer is for water that is imported from a source located wholly outside the boundaries of Texas, except water that is imported from a source located in the United Mexican States? Y/N NA

### 3. Interbasin Transfer Requirements (Instructions, Page. 20)

For each Interbasin Transfer request that is not exempt under any of the exemptions listed above Section 2, provide the following information in a supplemental attachment titled "Addendum to Worksheet 1.1, Interbasin Transfer":

- a. the contract price of the water to be transferred (if applicable) (also include a copy of the contract or adopted rate for contract water);
- b. a statement of each general category of proposed use of the water to be transferred and a detailed description of the proposed uses and users under each category;
- c. the cost of diverting, conveying, distributing, and supplying the water to, and treating the water for, the proposed users (example - expert plans and/or reports documents may be provided to show the cost);

- d. describe the need for the water in the basin of origin and in the proposed receiving basin based on the period for which the water supply is requested, but not to exceed 50 years (the need can be identified in the most recently approved regional water plans. The state and regional water plans are available for download at this website: (<http://www.twdb.texas.gov/waterplanning/swp/index.asp>);
- e. address the factors identified in the applicable most recently approved regional water plans which address the following:
  - (i) the availability of feasible and practicable alternative supplies in the receiving basin to the water proposed for transfer;
  - (ii) the amount and purposes of use in the receiving basin for which water is needed;
  - (iii) proposed methods and efforts by the receiving basin to avoid waste and implement water conservation and drought contingency measures;
  - (iv) proposed methods and efforts by the receiving basin to put the water proposed for transfer to beneficial use;
  - (v) the projected economic impact that is reasonably expected to occur in each basin as a result of the transfer; and
  - (vi) the projected impacts of the proposed transfer that are reasonably expected to occur on existing water rights, instream uses, water quality, aquatic and riparian habitat, and bays and estuaries that must be assessed under Sections 11.147, 11.150, and 11.152 in each basin (*if applicable*). If the water sought to be transferred is currently authorized to be used under an existing permit, certified filing, or certificate of adjudication, such impacts shall only be considered in relation to that portion of the permit, certified filing, or certificate of adjudication proposed for transfer and shall be based on historical uses of the permit, certified filing, or certificate of adjudication for which amendment is sought;
- f. proposed mitigation or compensation, if any, to the basin of origin by the applicant; and
- g. the continued need to use the water for the purposes authorized under the existing Permit, Certified Filing, or Certificate of Adjudication, if an amendment to an existing water right is sought.

## Please see attachment 2\_Worksheet\_1.2\_Marhsall Criteria

### WORKSHEET 1.2 NOTICE. "THE MARSHALL CRITERIA"

This worksheet assists the Commission in determining notice required for certain **amendments** that do not already have a specific notice requirement in a rule for that type of amendment, and *that do not change the amount of water to be taken or the diversion rate*. The worksheet provides information that Applicant **is required** to submit for amendments such as certain amendments to special conditions or changes to off-channel storage. These criteria address whether the proposed amendment will impact other water right holders or the on- stream environment beyond and irrespective of the fact that the water right can be used to its full authorized amount.

*This worksheet is not required for Applications in the Rio Grande Basin requesting changes in the purpose of use, rate of diversion, point of diversion, and place of use for water rights held in and transferred within and between the mainstems of the Lower Rio Grande, Middle Rio Grande, and Amistad Reservoir. See 30 TAC § 303.42.*

*This worksheet is not required for amendments which are only changing or adding diversion points, or request only a bed and banks authorization or an IBT authorization. However, Applicants may wish to submit the Marshall Criteria to ensure that the administrative record includes information supporting each of these criteria*

#### 1. The "Marshall Criteria" (Instructions, Page. 21)

Submit responses on a supplemental attachment titled "Marshall Criteria" in a manner that conforms to the paragraphs (a) – (g) below:

- a. Administrative Requirements and Fees. Confirm whether application meets the administrative requirements for an amendment to a water use permit pursuant to TWC Chapter 11 and Title 30 Texas Administrative Code (TAC) Chapters 281, 295, and 297. An amendment application should include, but is not limited to, a sworn application, maps, completed conservation plan, fees, etc.
- b. Beneficial Use. Discuss how proposed amendment is a beneficial use of the water as defined in TWC § 11.002 and listed in TWC § 11.023. Identify the specific proposed use of the water (e.g., road construction, hydrostatic testing, etc.) for which the amendment is requested.
- c. Public Welfare. Explain how proposed amendment is not detrimental to the public welfare. Consider any public welfare matters that might be relevant to a decision on the application. Examples could include concerns related to the well-being of humans and the environment.
- d. Groundwater Effects. Discuss effects of proposed amendment on groundwater or groundwater recharge.

- e. State Water Plan. Describe how proposed amendment addresses a water supply need in a manner that is consistent with the state water plan or the applicable approved regional water plan for any area in which the proposed appropriation is located or, in the alternative, describe conditions that warrant a waiver of this requirement. The state and regional water plans are available for download at:  
<http://www.twdb.texas.gov/waterplanning/swp/index.asp>.
- f. Waste Avoidance. Provide evidence that reasonable diligence will be used to avoid waste and achieve water conservation as defined in TWC § 11.002. Examples of evidence could include, but are not limited to, a water conservation plan or, if required, a drought contingency plan, meeting the requirements of 30 TAC Chapter 288.
- g. Impacts on Water Rights or On-stream Environment. Explain how the proposed amendment will not impact other water right holders or the on-stream environment beyond and irrespective of the fact that the water right can be used to its full authorized amount.

## WORKSHEET 2.0 Impoundment/Dam Information

This worksheet is **required** for any impoundment, reservoir and/or dam. Submit an additional Worksheet 2.0 for each impoundment or reservoir requested in this application.

*If there is more than one structure, the numbering/naming of structures should be consistent throughout the application and on any supplemental documents (e.g., maps).*

### 1. Storage Information (Instructions, Page. 21)

- a. Official USGS name of reservoir, if applicable: NA
- b. Provide amount of water (in acre-feet) impounded by structure at normal maximum operating level: NA.
- c. The impoundment is on-channel NA or off-channel NA (mark one)
  - i. Applicant has verified on-channel or off-channel determination by contacting Surface Water Availability Team at (512) 239-4600? Y / N<sup>NA</sup>
  - ii. If on-channel, will the structure have the ability to pass all State Water inflows that Applicant does not have authorization to impound? Y / N<sup>NNA</sup>
- d. Is the impoundment structure already constructed? Y / N<sup>NA</sup>
  - i. For already constructed **on-channel** structures:
    1. Date of Construction: NA
    2. Was it constructed to be an exempt structure under TWC § 11.142? Y / N<sup>NA</sup>
      - a. If Yes, is Applicant requesting to proceed under TWC § 11.143? Y / N<sup>NA</sup>
      - b. If No, has the structure been issued a notice of violation by TCEQ? Y / N<sup>NA</sup>
    3. Is it a U.S. Natural Resources Conservation Service (NRCS) (formerly Soil Conservation Service (SCS)) floodwater-retarding structure? Y / N<sup>NNA</sup>
      - a. If yes, provide the Site No. NA and watershed project name NA;
      - b. Authorization to close "ports" in the service spillway requested? Y / N<sup>NA</sup>
  - ii. For **any** proposed new structures or modifications to structures:
    1. Applicant **must** contact TCEQ Dam Safety Section at (512) 239-0326, *prior to submitting an Application*. Applicant has contacted the TCEQ Dam Safety Section regarding the submission requirements of 30 TAC, Ch. 299? Y / N<sup>NA</sup>  
Provide the date and the name of the Staff Person NA
    2. As a result of Applicant's consultation with the TCEQ Dam Safety Section, TCEQ has confirmed that:
      - a. No additional dam safety documents required with the Application. Y / N<sup>NA</sup>
      - b. Plans (with engineer's seal) for the structure required. Y / N<sup>NA</sup>
      - c. Engineer's signed and sealed hazard classification required. Y / N<sup>NA</sup>
      - d. Engineer's statement that structure complies with 30 TAC, Ch. 299 Rules required. Y / N<sup>NNA</sup>

3. Applicants **shall** give notice by certified mail to each member of the governing body of each county and municipality in which the reservoir, or any part of the reservoir to be constructed, will be located. (30 TAC § 295.42). Applicant must submit a copy of all the notices and certified mailing cards with this Application. Notices and cards are included? Y / N NA

iii. Additional information required for **on-channel** storage:

1. Surface area (in acres) of on-channel reservoir at normal maximum operating level: NA.

2. Based on the Application information provided, Staff will calculate the drainage area above the on-channel dam or reservoir. If Applicant wishes to also calculate the drainage area they may do so at their option. Applicant has calculated the drainage area. Y/N NA  
If yes, the drainage area is NA sq. miles.  
(If assistance is needed, call the Surface Water Availability Team prior to submitting the application, (512) 239-4600).

## 2. Structure Location (Instructions, Page. 23)

a. On Watercourse (if on-channel) (USGS name): NA

b. Zip Code: NA

c. In the NA Original Survey No. NA, Abstract No. NA,  
NA County, Texas.

***\* A copy of the deed(s) with the recording information from the county records must be submitted describing the tract(s) that include the structure and all lands to be inundated.***

***\*\*If the Applicant is not currently the sole owner of the land on which the structure is or will be built and sole owner of all lands to be inundated, Applicant must submit documentation evidencing consent or other documentation supporting Applicant's right to use the land described.***

d. A point on the centerline of the dam (on-channel) or anywhere within the impoundment (off-channel) is:

Latitude NA °N, Longitude NA °W.

***\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***

- i. Indicate the method used to calculate the location (examples: Handheld GPS Device, GIS, Mapping Program): NA
- ii. Map submitted which clearly identifies the Impoundment, dam (where applicable), and the lands to be inundated. See instructions Page. 15. Y / N NA

## WORKSHEET 3.0 DIVERSION POINT (OR DIVERSION REACH) INFORMATION

This worksheet is **required** for each diversion point or diversion reach. Submit one Worksheet 3.0 for **each** diversion point and two Worksheets for **each** diversion reach (one for the upstream limit and one for the downstream limit of each diversion reach).

*The numbering of any points or reach limits should be consistent throughout the application and on supplemental documents (e.g., maps).*

### 1 Diversion Information (Instructions, Page. 24)

a. This Worksheet is to add new (select 1 of 3 below):

1.  Diversion Point No.
2.  Upstream Limit of Diversion Reach No. 1
3.  Downstream Limit of Diversion Reach No.

b. Maximum Rate of Diversion for **this new point** 44.56 cfs (cubic feet per second)  
or                      gpm (gallons per minute)

c. Does this point share a diversion rate with other points? Y / N Y  
*If yes, submit Maximum **Combined** Rate of Diversion for all points/reaches* 44.56 cfs or                      gpm

d. For amendments, is Applicant seeking to increase combined diversion rate? Y / N N

*\*\* An increase in diversion rate is considered a new appropriation and would require completion of Section 1, New or Additional Appropriation of State Water.*

e. Check (✓) the appropriate box to indicate diversion location and indicate whether the diversion location is existing or proposed):

Check one		Write: Existing or Proposed
<input checked="" type="checkbox"/>	Directly from stream	Proposed
<input type="checkbox"/>	From an on-channel reservoir	
<input type="checkbox"/>	From a stream to an on-channel reservoir	
<input type="checkbox"/>	Other method (explain fully, use additional sheets if necessary)	

f. Based on the Application information provided, Staff will calculate the drainage area above the diversion point (or reach limit). If Applicant wishes to also calculate the drainage area, you may do so at their option.

Applicant has calculated the drainage area. Y / N Y

If yes, the drainage area is 113.96 sq. miles.

*(If assistance is needed, call the Surface Water Availability Team at (512) 239-4600, prior to submitting application)*

## 2. Diversion Location (Instructions, Page 25)

- a. On watercourse (USGS name): Trinity River
- b. Zip Code: 75210
- c. Location of point: In the T. Lagow Original Survey No. 22, Abstract No. 759, Dallas County, Texas.

***A copy of the deed(s) with the recording information from the county records must be submitted describing tract(s) that include the diversion structure.***

***For diversion reaches, the Commission cannot grant an Applicant access to property that the Applicant does not own or have consent or a legal right to access, the Applicant will be required to provide deeds, or consent, or other documents supporting a legal right to use the specific points when specific diversion points within the reach are utilized. Other documents may include, but are not limited to a recorded easement, a land lease, a contract, or a citation to the Applicant's right to exercise eminent domain to acquire access.***

- d. Point is at: Latitude 32.775508 °N, Longitude -96.728903 °W.  
***Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places***
- e. Indicate the method used to calculate the location (examples: Handheld GPS Device, GIS, Mapping Program): GIS
- f. Map submitted must clearly identify each diversion point and/or reach. See instructions Page. 15.  
***Please see attachments 4\_Map\_Total\_Diversion\_Reach and 4\_Map\_Diversoin\_Reach\_Upstream\_limit***
- g. If the Plan of Diversion is complicated and not readily discernable from looking at the map, attach additional sheets that fully explain the plan of diversion.

## WORKSHEET 3.0 DIVERSION POINT (OR DIVERSION REACH) INFORMATION

This worksheet is **required** for each diversion point or diversion reach. Submit one Worksheet 3.0 for **each** diversion point and two Worksheets for **each** diversion reach (one for the upstream limit and one for the downstream limit of each diversion reach).

*The numbering of any points or reach limits should be consistent throughout the application and on supplemental documents (e.g., maps).*

### 1. Diversion Information (Instructions, Page. 24)

a. This Worksheet is to add new (select 1 of 3 below):

1.  Diversion Point No.
2.  Upstream Limit of Diversion Reach No.
3.  Downstream Limit of Diversion Reach No. 1

b. Maximum Rate of Diversion for **this new point** 44.56 cfs (cubic feet per second)  
or                      gpm (gallons per minute)

c. Does this point share a diversion rate with other points? Y / N N  
*If yes, submit Maximum **Combined** Rate of Diversion for all points/reaches 44.56 cfs or                      gpm*

d. For amendments, is Applicant seeking to increase combined diversion rate? Y / N N

*\*\* An increase in diversion rate is considered a new appropriation and would require completion of Section 1, New or Additional Appropriation of State Water.*

e. Check (✓) the appropriate box to indicate diversion location and indicate whether the diversion location is existing or proposed):

Check one		Write: Existing or Proposed
<input checked="" type="checkbox"/>	Directly from stream	Proposed
<input type="checkbox"/>	From an on-channel reservoir	
<input type="checkbox"/>	From a stream to an on-channel reservoir	
<input type="checkbox"/>	Other method (explain fully, use additional sheets if necessary)	

f. Based on the Application information provided, Staff will calculate the drainage area above the diversion point (or reach limit). If Applicant wishes to also calculate the drainage area, you may do so at their option.

Applicant has calculated the drainage area. Y / N Y

If yes, the drainage area is 16,600 sq. miles  
*(If assistance is needed, call the Surface Water Availability Team at (512) 239-4600, prior to submitting application)*

**2. Diversion Location (Instructions, Page 25)**

- a. On watercourse (USGS name): Trinity River
- b. Zip Code: 75833
- c. Location of point: In the J. Musquiz Original Survey No. na, Abstract No. 10, Leon County, Texas.

*A copy of the deed(s) with the recording information from the county records must be submitted describing tract(s) that include the diversion structure.*

*For diversion reaches, the Commission cannot grant an Applicant access to property that the Applicant does not own or have consent or a legal right to access, the Applicant will be required to provide deeds, or consent, or other documents supporting a legal right to use the specific points when specific diversion points within the reach are utilized. Other documents may include, but are not limited to a recorded easement, a land lease, a contract, or a citation to the Applicant's right to exercise eminent domain to acquire access.*

- d. Point is at: Latitude 30.632487 °N, Longitude -95.012093 °W.  
*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- e. Indicate the method used to calculate the location (examples: Handheld GPS Device, GIS, Mapping Program): GIS
- f. Map submitted must clearly identify each diversion point and/or reach. See instructions Page. 15.
- g. If the Plan of Diversion is complicated and not readily discernable from looking at the map, attach additional sheets that fully explain the plan of diversion.

**Please see attachment 4\_Map\_Total\_Diversion\_Reach and 4\_Map\_Diversion\_Reach\_Downstream\_Limit**

## WORKSHEET 3.0 DIVERSION POINT (OR DIVERSION REACH) INFORMATION

This worksheet is **required** for each diversion point or diversion reach. Submit one Worksheet 3.0 for **each** diversion point and two Worksheets for **each** diversion reach (one for the upstream limit and one for the downstream limit of each diversion reach).

*The numbering of any points or reach limits should be consistent throughout the application and on supplemental documents (e.g., maps).*

### 1. Diversion Information (Instructions, Page. 24)

- a. This Worksheet is to add new (select 1 of 3 below): **Existing Diversion Point that needs correcting of coordinates**
1.  Diversion Point No. 1
  2.  Upstream Limit of Diversion Reach No.
  3.  Downstream Limit of Diversion Reach No.
- b. Maximum Rate of Diversion for **this new point** 44.56 cfs (cubic feet per second) or \_\_\_\_\_ gpm (gallons per minute)
- c. Does this point share a diversion rate with other points? Y / N N  
*If yes, submit Maximum Combined Rate of Diversion for all points/reaches* 44.56 cfs or \_\_\_\_\_ gpm
- d. For amendments, is Applicant seeking to increase combined diversion rate? Y / N N

*\*\* An increase in diversion rate is considered a new appropriation and would require completion of Section 1, New or Additional Appropriation of State Water.*

- e. Check (✓) the appropriate box to indicate diversion location and indicate whether the diversion location is existing or proposed):

Check one		Write: Existing or Proposed
<input checked="" type="checkbox"/>	Directly from stream	Existing
<input type="checkbox"/>	From an on-channel reservoir	
<input type="checkbox"/>	From a stream to an on-channel reservoir	
<input type="checkbox"/>	Other method (explain fully, use additional sheets if necessary)	

- f. Based on the Application information provided, Staff will calculate the drainage area above the diversion point (or reach limit). If Applicant wishes to also calculate the drainage area, you may do so at their option.

Applicant has calculated the drainage area. Y / N Y

If yes, the drainage area is 4.15 sq. miles.

*(If assistance is needed, call the Surface Water Availability Team at (512) 239-4600, prior to submitting application)*

## 2. Diversion Location (Instructions, Page 25)

- a. On watercourse (USGS name): Trinity River
- b. Zip Code: 75840
- c. Location of point: In the M.R. Palacios Original Survey No. na, Abstract No. 20, Freestone County, Texas.

*A copy of the deed(s) with the recording information from the county records must be submitted describing tract(s) that include the diversion structure.*

*For diversion reaches, the Commission cannot grant an Applicant access to property that the Applicant does not own or have consent or a legal right to access, the Applicant will be required to provide deeds, or consent, or other documents supporting a legal right to use the specific points when specific diversion points within the reach are utilized. Other documents may include, but are not limited to a recorded easement, a land lease, a contract, or a citation to the Applicant's right to exercise eminent domain to acquire access.*

- d. Point is at: Latitude 31.789287 °N, Longitude -95.983832 °W.  
*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- e. Indicate the method used to calculate the location (examples: Handheld GPS Device, GIS, Mapping Program): GIS
- f. Map submitted must clearly identify each diversion point and/or reach. See instructions Page. 15.
- g. If the Plan of Diversion is complicated and not readily discernable from looking at the map, attach additional sheets that fully explain the plan of diversion.

**Please see attachment 4\_Map\_Total\_Diveresion\_Reach and 4\_Map\_Corrected\_Diveresion\_Point**

## WORKSHEET 4.0 DISCHARGE INFORMATION

This worksheet required for any requested authorization to discharge water into a State Watercourse for conveyance and later withdrawal or in-place use. Worksheet 4.1 is also required for each Discharge point location requested. **Instructions Page. 26. Applicant is responsible for obtaining any separate water quality authorizations which may be required and for insuring compliance with TWC, Chapter 26 or any other applicable law.**

- a. The purpose of use for the water being discharged will be NA.
- b. Provide the amount of water that will be lost to transportation, evaporation, seepage, channel or other associated carriage losses NA (% or amount) and explain the method of calculation: NA
- c. Is the source of the discharged water return flows? **Y / N** NA If yes, provide the following information:
  1. The TPDES Permit Number(s) NA (attach a copy of the **current** TPDES permit(s))
  2. Applicant is the owner/holder of each TPDES permit listed above? **Y / N** NA

*PLEASE NOTE: If Applicant is not the discharger of the return flows, or the Applicant is not the water right owner of the underlying surface water right, or the Applicant does not have a contract with the discharger, the application should be submitted under Section 1, New or Additional Appropriation of State Water, as a request for a new appropriation of state water. If Applicant is the discharger, the surface water right holder, or the contract holder, then the application should be submitted under Section 3, Bed and Banks.*

3. Monthly WWTP discharge data for the past 5 years in electronic format. (Attach and label as "Supplement to Worksheet 4.0").
  4. The percentage of return flows from groundwater NA, surface water NA?
  5. If any percentage is surface water, provide the base water right number(s) NA.
- d. Is the source of the water being discharged groundwater? **Y / N** NA If yes, provide the following information:
1. Source aquifer(s) from which water will be pumped: NA
  2. If the well has not been constructed, provide production information for wells in the same aquifer in the area of the application. See <http://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp>. Additionally, provide well numbers or identifiers NA.
  3. Indicate how the groundwater will be conveyed to the stream or reservoir.  

NA
----
  4. A copy of the groundwater well permit if it is located in a Groundwater Conservation District (GCD) or evidence that a groundwater well permit is not required.
- di. Is the source of the water being discharged a surface water supply contract? **Y / N** NA  
If yes, provide the signed contract(s).
- dii. Identify any other source of the water NA

## WORKSHEET 4.1 DISCHARGE POINT INFORMATION

This worksheet is required for **each** discharge point. Submit one Worksheet 4.1 for each discharge point. If there is more than one discharge point, the numbering of the points should be consistent throughout the application and on any supplemental documents (e.g., maps).  
**Instructions, Page 27.**

**For water discharged at this location provide:**

- a. The amount of water that will be discharged at this point is NA acre-feet per year. The discharged amount should include the amount needed for use and to compensate for any losses.
- b. Water will be discharged at this point at a maximum rate of NA cfs or NA gpm.
- c. Name of Watercourse as shown on Official USGS maps: NA
- d. Zip Code NA
- e. Location of point: In the NA Original Survey No. NA, Abstract No. NA, \_\_\_\_\_ County, Texas.
- f. Point is at:  
Latitude NA °N, Longitude NA °W.  
*\*Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places*
- g. Indicate the method used to calculate the discharge point location (examples: Handheld GPS Device, GIS, Mapping Program): NA

**Map submitted must clearly identify each discharge point. See instructions Page. 15.**

## WORKSHEET 5.0 ENVIRONMENTAL INFORMATION

### 1. Impingement and Entrainment

**This section is required for any new diversion point that is not already authorized.** Indicate the measures the applicant will take to avoid impingement and entrainment of aquatic organisms (ex. Screens on any new diversion structure that is not already authorized in a water right). **Instructions, Page 28.**

While the Authority is proposing a new diversion reach, there are no new diversion points at this time. Should a new diversion structure be constructed, the Authority will implement reasonable and appropriate measures to avoid impingement and entrainment of aquatic organisms, consistent with applicable regulatory requirements.

### 2. New Appropriations of Water (Canadian, Red, Sulphur, and Cypress Creek Basins only) and Changes in Diversion Point(s)

This section is required for new appropriations of water in the Canadian, Red, Sulphur, and Cypress Creek Basins and in all basins for requests to change a diversion point. **Instructions, Page 30.**

Description of the Water Body at each Diversion Point or Dam Location. (Provide an Environmental Information Sheet for each location),

a. Identify the appropriate description of the water body.

Stream

Reservoir

Average depth of the entire water body, in feet: NA

Other, specify: NA

b. Flow characteristics

If a stream, was checked above, provide the following. For new diversion locations, check one of the following that best characterize the area downstream of the diversion (check one).

Intermittent - dry for at least one week during most years

Intermittent with Perennial Pools - enduring pools

Perennial - normally flowing

Check the method used to characterize the area downstream of the new diversion location.

USGS flow records

Historical observation by adjacent landowners

Personal observation

Other, specify: \_\_\_\_\_

c. Waterbody aesthetics

Check one of the following that best describes the aesthetics of the stream segments affected by the application and the area surrounding those stream segments.

- Wilderness: outstanding natural beauty; usually wooded or unpastured area; water clarity exceptional
- Natural Area: trees and/or native vegetation common; some development evident (from fields, pastures, dwellings); water clarity discolored
- Common Setting: not offensive; developed but uncluttered; water may be colored or turbid
- Offensive: stream does not enhance aesthetics; cluttered; highly developed; dumping areas; water discolored

d. Waterbody Recreational Uses

Are there any known recreational uses of the stream segments affected by the application?

- Primary contact recreation (swimming or direct contact with water)
- Secondary contact recreation (fishing, canoeing, or limited contact with water)
- Non-contact recreation

e. Submit the following information in a Supplemental Attachment, labeled Addendum to Worksheet 5.0:

1. Photographs of the stream at the diversion point or dam location. Photographs should be in color and show the proposed point or reservoir and upstream and downstream views of the stream, including riparian vegetation along the banks. Include a description of each photograph and reference the photograph to the maps submitted with the application indicating the location of the photograph and the direction of the shot.
2. If the application includes a proposed reservoir, also include:
  - i. A brief description of the area that will be inundated by the reservoir.
  - ii. If a United States Army Corps of Engineers (USACE) 404 permit is required, provide the project number and USACE project manager.
  - iii. A description of how any impacts to wetland habitat, if any, will be mitigated if the reservoir is greater than 5,000 acre-feet.

**Addendum to Worksheet 5.0: There are no current new diversion points associated with this amendment.**

### 3. Alternate Sources of Water and/or Bed and Banks Applications

This section is required for applications using an alternate source of water and bed and banks applications in any basins. **Instructions, page 31.**

- a. For all bed and banks applications: NA
  - i. Submit an assessment of the adequacy of the quantity and quality of flows remaining after the proposed diversion to meet instream uses and bay and estuary freshwater inflow requirements.
  
- b. For all alternate source applications:
  - i. If the alternate source is treated return flows, provide the TPDES permit number NA
  
  - ii. If groundwater is the alternate source, or groundwater or other surface water will be discharged into a watercourse provide:  
 Reasonably current water chemistry information including but not limited to the following parameters in the table below. Additional parameters may be requested if there is a specific water quality concern associated with the aquifer from which water is withdrawn. If data for onsite wells are unavailable; historical data collected from similar sized wells drawing water from the same aquifer may be provided. However, onsite data may still be required when it becomes available. Provide the well number or well identifier. Complete the information below for each well and provide the Well Number or identifier.

Parameter	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Sulfate, mg/L					
Chloride, mg/L					
Total Dissolved Solids, mg/L					
pH, standard units					
Temperature*, degrees Celsius					

\* Temperature must be measured onsite at the time the groundwater sample is collected.

- iii. If groundwater will be used, provide the depth of the well NA and the name of the aquifer from which water is withdrawn NA.

# WORKSHEET 6.0

## Water Conservation/Drought Contingency Plans

This form is intended to assist applicants in determining whether a Water Conservation Plan and/or Drought Contingency Plans is required and to specify the requirements for plans. **Instructions, Page 31.**

*The TCEQ has developed guidance and model plans to help applicants prepare plans. Applicants may use the model plan with pertinent information filled in. For assistance submitting a plan call the Resource Protection Team (Water Conservation staff) at 512-239-4600, or e-mail [wras@tceq.texas.gov](mailto:wras@tceq.texas.gov). The model plans can also be downloaded from the TCEQ webpage. Please use the most up-to-date plan documents available on the webpage.*

### 1. Water Conservation Plans

a. The following applications must include a completed Water Conservation Plan (30 TAC § 295.9) for each use specified in 30 TAC, Chapter 288 (municipal, industrial or mining, agriculture - including irrigation, wholesale):

1. Request for a new appropriation or use of State Water.
2. Request to amend water right to increase appropriation of State Water.
3. Request to amend water right to extend a term.
4. Request to amend water right to change a place of use.  
*\*does not apply to a request to expand irrigation acreage to adjacent tracts.*
5. Request to amend water right to change the purpose of use.  
*\*applicant need only address new uses.*
6. Request for bed and banks under TWC § 11.042(c), when the source water is State Water.  
*\*including return flows, contract water, or other State Water.*

b. If Applicant is requesting any authorization in section (1)(a) above, indicate each use for which Applicant is submitting a Water Conservation Plan as an attachment:

1.  Municipal Use. See 30 TAC § 288.2. \*\* See attachments  
3\_2024\_TRA\_NR\_WCDC\_Plan and  
3\_2024\_TRA\_SR\_WCDC\_Plan
2.  Industrial or Mining Use. See 30 TAC § 288.3.
3.  Agricultural Use, including irrigation. See 30 TAC § 288.4.
4.  Wholesale Water Suppliers. See 30 TAC § 288.5. \*\*

\*\*If Applicant is a water supplier, Applicant must also submit documentation of adoption of the plan. Documentation may include an ordinance, resolution, or tariff, etc. See 30 TAC §§ 288.2(a)(1)(J)(i) and 288.5(1)(H). Applicant has submitted such documentation with each water conservation plan? Y / N  **See attachment 3\_WS6.1.B\_WS6.2.B.R-1159-4**

c. Water conservation plans submitted with an application must also include data and information which: supports applicant's proposed use with consideration of the plan's water conservation goals; evaluates conservation as an alternative to the proposed

appropriation; and evaluates any other feasible alternative to new water development. See 30 TAC § 288.7.

Applicant has included this information in each applicable plan? Y / N N

## 2. Drought Contingency Plans

- a. A drought contingency plan is also required for the following entities if Applicant is requesting any of the authorizations in section (1) (a) above – indicate each that applies:
1.      Municipal Uses by public water suppliers. See 30 TAC § 288.20.
  2.      Irrigation Use/ Irrigation water suppliers. See 30 TAC § 288.21.
  3. X Wholesale Water Suppliers. See 30 TAC § 288.22.
- b. If Applicant must submit a plan under section 2(a) above, Applicant has also submitted documentation of adoption of drought contingency plan (*ordinance, resolution, or tariff, etc. See 30 TAC § 288.30*) Y / N Y

See attachments 3\_2024\_TRA\_NR\_WCDC\_Plan and 3\_2024\_SR\_WCDC\_Plan and 3\_WS6.1.B\_WS6.2.b\_R-1159-4

**PLEASE NOTE:** Currently, there are no customers associated with the authorized diversion quantity under this water right and amendments. When such associations are established, the Authority will draft the necessary modifications to previously approved Water Conservation and Drought Contingency Plans and submit them to the Texas Water Development Board (TWDB) in accordance with the approved procedures prior to any diversion being made under this amendment. Please refer to the attached documents, 3\_2024\_TRA\_NR\_WCDC\_Plan and 3\_2024\_TRA\_SR\_WCDC\_Plan, for the currently authorized WCDC plans of the Authority. Any future amendments to these plans will be prepared in the authorized format and submitted to the appropriate parties for review and approval. In addition, once a contract that falls under mining use is enacted, the wholesale plan will be updated appropriately.

# WORKSHEET 7.0

## ACCOUNTING PLAN INFORMATION WORKSHEET

The following information provides guidance on when an Accounting Plan may be required for certain applications and if so, what information should be provided. An accounting plan can either be very simple such as keeping records of gage flows, discharges, and diversions; or, more complex depending on the requests in the application. Contact the Surface Water Availability Team at 512-239-4600 for information about accounting plan requirements, if any, for your application. **Instructions, Page 34.**

### 1. Is Accounting Plan Required

Accounting Plans are generally required:

- For applications that request authorization to divert large amounts of water from a single point where multiple diversion rates, priority dates, and water rights can also divert from that point;
- For applications for new major water supply reservoirs;
- For applications that amend a water right where an accounting plan is already required, if the amendment would require changes to the accounting plan;
- For applications with complex environmental flow requirements;
- For applications with an alternate source of water where the water is conveyed and diverted; and
- For reuse applications.

### 2. Accounting Plan Requirements

- a. A **text file** that includes:
  1. an introduction explaining the water rights and what they authorize;
  2. an explanation of the fields in the accounting plan spreadsheet including how they are calculated and the source of the data;
  3. for accounting plans that include multiple priority dates and authorizations, a section that discusses how water is accounted for by priority date and which water is subject to a priority call by whom; and
  4. Should provide a summary of all sources of water.
  
- b. A **spreadsheet** that includes:
  1. Basic daily data such as diversions, deliveries, compliance with any instream flow requirements, return flows discharged and diverted and reservoir content;
  2. Method for accounting for inflows if needed;
  3. Reporting of all water use from all authorizations, both existing and proposed;
  4. An accounting for all sources of water;
  5. An accounting of water by priority date;
  6. For bed and banks applications, the accounting plan must track the discharged water from the point of delivery to the final point of diversion;
  7. Accounting for conveyance losses;
  8. Evaporation losses if the water will be stored in or transported through a reservoir. Include changes in evaporation losses and a method for measuring reservoir content resulting from the discharge of additional water into the reservoir;
  9. An accounting for spills of other water added to the reservoir; and
  10. Calculation of the amount of drawdown resulting from diversion by junior rights or diversions of other water discharged into and then stored in the reservoir.

## WORKSHEET 8.0 CALCULATION OF FEES

This worksheet is for calculating required application fees. Applications are not Administratively Complete until all required fees are received. **Instructions, Page. 34**

### 1. NEW APPROPRIATION

	Description	Amount (\$)
<b>Filing Fee</b>	Circle fee correlating to the total amount of water* requested for any new appropriation and/or impoundment. Amount should match total on Worksheet 1, Section 1. Enter corresponding fee under <b>Amount (\$)</b> . <u>In Acre-Feet</u> a. Less than 100                      \$100.00 b. 100 - 5,000                         \$250.00 c. 5,001 - 10,000                     \$500.00 d. 10,001 - 250,000                 \$1,000.00 e. More than 250,000                \$2,000.00	
<b>Recording Fee</b>		\$25.00
<b>Agriculture Use Fee</b>	<i>Only for those with an Irrigation Use.</i> Multiply 50¢ x _____ Number of acres that will be irrigated with State Water. **	
<b>Use Fee</b>	<i>Required for all Use Types, excluding Irrigation Use.</i> Multiply \$1.00 x _____ Maximum annual diversion of State Water in acre-feet. **	
<b>Recreational Storage Fee</b>	<i>Only for those with Recreational Storage.</i> Multiply \$1.00 x _____ acre-feet of in-place Recreational Use State Water to be stored at normal max operating level.	
<b>Storage Fee</b>	<i>Only for those with Storage, excluding Recreational Storage.</i> Multiply 50¢ x _____ acre-feet of State Water to be stored at normal max operating level.	
<b>Mailed Notice</b>	Cost of mailed notice to all water rights in the basin. Contact Staff to determine the amount (512) 239-4600.	
<b>TOTAL</b>		\$

### 2. AMENDMENT OR SEVER AND COMBINE

	Description	Amount (\$)
<b>Filing Fee</b>	Amendment: \$100 OR Sever and Combine: \$100 x ___ of water rights to combine	\$100.00
<b>Recording Fee</b>		\$12.50
<b>Mailed Notice</b>	Additional notice fee to be determined once application is submitted.	\$104.34
<b>TOTAL INCLUDED</b>		\$ \$216.84

### 3. BED AND BANKS

	Description	Amount (\$)
<b>Filing Fee</b>		
<b>Recording Fee</b>		
<b>Mailed Notice</b>	Additional notice fee to be determined once application is submitted.	
<b>TOTAL INCLUDED</b>		\$



Texas Commission on Environmental Quality

## Public Involvement Plan Form for Permit and Registration Applications

The Public Involvement Plan is intended to provide applicants and the agency with information about how public outreach will be accomplished for certain types of applications in certain geographical areas of the state. It is intended to apply to new activities; major changes at existing plants, facilities, and processes; and to activities which are likely to have significant interest from the public. This preliminary screening is designed to identify applications that will benefit from an initial assessment of the need for enhanced public outreach.

All applicable sections of this form should be completed and submitted with the permit or registration application. For instructions on how to complete this form, see TCEQ-20960-inst.

### Section 1. Preliminary Screening

- New Permit or Registration Application  
 New Activity - modification, registration, amendment, facility, etc. (see instructions)

**If neither of the above boxes are checked, completion of the form is not required and does not need to be submitted.**

### Section 2. Secondary Screening

- Requires public notice,  
 Considered to have significant public interest, and  
 Located within any of the following geographical locations:
- Austin
  - Dallas
  - Fort Worth
  - Houston
  - San Antonio
  - West Texas
  - Texas Panhandle
  - Along the Texas/Mexico Border
  - Other geographical locations should be decided on a case-by-case basis

**If all the above boxes are not checked, a Public Involvement Plan is not necessary.  
Stop after Section 2 and submit the form.**

- Public Involvement Plan not applicable to this application. Provide brief explanation.

There are no impacts on downstream, senior water right holders or impact on public interests.

### Section 3. Application Information

Type of Application (check all that apply):

Air  Initial  Federal  Amendment  Standard Permit  Title V

Waste  Municipal Solid Waste  Industrial and Hazardous Waste  Scrap Tire  
 Radioactive Material Licensing  Underground Injection Control

Water Quality

- Texas Pollutant Discharge Elimination System (TPDES)
- Texas Land Application Permit (TLAP)
- State Only Concentrated Animal Feeding Operation (CAFO)
- Water Treatment Plant Residuals Disposal Permit
- Class B Biosolids Land Application Permit
- Domestic Septage Land Application Registration

Water Rights New Permit

- New Appropriation of Water
- New or existing reservoir

Amendment to an Existing Water Right

- Add a New Appropriation of Water
- Add a New or Existing Reservoir
- Major Amendment that could affect other water rights or the environment

### Section 4. Plain Language Summary

Provide a brief description of planned activities.

### Section 5. Community and Demographic Information

Community information can be found using EPA's EJ Screen, U.S. Census Bureau information, or generally available demographic tools.

**Information gathered in this section can assist with the determination of whether alternative language notice is necessary. Please provide the following information.**

(City)

(County)

(Census Tract)

Please indicate which of these three is the level used for gathering the following information.

City       County       Census Tract

(a) Percent of people over 25 years of age who at least graduated from high school

(b) Per capita income for population near the specified location

(c) Percent of minority population and percent of population by race within the specified location

(d) Percent of Linguistically Isolated Households by language within the specified location

(e) Languages commonly spoken in area by percentage

(f) Community and/or Stakeholder Groups

(g) Historic public interest or involvement

### Section 6. Planned Public Outreach Activities

(a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39?

Yes  No

(b) If yes, do you intend at this time to provide public outreach other than what is required by rule?

Yes  No

If Yes, please describe.

**If you answered "yes" that this application is subject to 30 TAC Chapter 39, answering the remaining questions in Section 6 is not required.**

(c) Will you provide notice of this application in alternative languages?

Yes  No

**Please refer to Section 5. If more than 5% of the population potentially affected by your application is Limited English Proficient, then you are required to provide notice in the alternative language.**

If yes, how will you provide notice in alternative languages?

- Publish in alternative language newspaper
- Posted on Commissioner's Integrated Database Website
- Mailed by TCEQ's Office of the Chief Clerk
- Other (specify)

(d) Is there an opportunity for some type of public meeting, including after notice?

Yes  No

(e) If a public meeting is held, will a translator be provided if requested?

Yes  No

(f) Hard copies of the application will be available at the following (check all that apply):

- TCEQ Regional Office  TCEQ Central Office
- Public Place (specify)

### Section 7. Voluntary Submittal

For applicants voluntarily providing this Public Involvement Plan, who are not subject to formal public participation requirements.

Will you provide notice of this application, including notice in alternative languages?

Yes  No

What types of notice will be provided?

- Publish in alternative language newspaper
- Posted on Commissioner's Integrated Database Website
- Mailed by TCEQ's Office of the Chief Clerk
- Other (specify)

## **Attachment 1\_TRA\_Bylaws**

### **BYLAWS OF THE TRINITY RIVER AUTHORITY OF TEXAS**

#### **ARTICLE I. OFFICERS**

**SECTION 1.** The Board of Directors shall elect from its number a President, Vice President, and a Chairman of the Executive Committee who shall constitute the elective Officers of the Authority.

**SECTION 2.** The Board of Directors shall appoint a Secretary and a Treasurer who shall not be members of the Board, or, at its discretion, the Board may combine these two positions into a single position with the title of Secretary-Treasurer.

**SECTION 3.** The Board of Directors may appoint a General Manager, who shall not be a member of the Board. All other management employees, none of whom shall be members of the Board, shall be employed by the General Manager in accordance with policies prescribed by the Board.

#### **SECTION 4. Terms of Office:**

- (a) The President, Vice President, and Chairman of the Executive Committee, and the four other members of the Executive Committee shall each serve for a term of two years beginning on the first day of December of each odd-numbered year and terminating the thirtieth day of November of the next odd-numbered year or thereafter until their respective successor shall have been elected; provided, that, if the term as Director of one of the aforesaid shall expire and if the successor shall have been appointed to the Board and if said successor shall have qualified, the Director's term as an Officer or member of the Executive Committee will expire concurrently with the Director's departure from the Board of Directors.
- (b) The General Manager, the Secretary, and the Treasurer shall each serve at the pleasure of the Board of Directors.

**SECTION 5.** The General Manager, the Secretary, and the Treasurer shall each give a bond in connection with their respective services in such amounts as may be prescribed by the Board. The bonds, if any, given by all other management employees shall be in the amounts prescribed by the General Manager, who shall report to the Board the amounts thereof at the close of each fiscal year.

**SECTION 6.** The election of the President, Vice President, and Chairman of the Executive Committee, as well as the four other members of the Executive Committee, shall be held at the regular meeting of the Board to be held in October in the odd-numbered years. If for any reason the regular October meeting shall not be held in any such year at the scheduled time the election shall be held at the next meeting following such date whether it be a special or regular meeting. At the regular meeting of the Board held in August in odd-numbered years, or the meeting held closest thereto, the President shall appoint three or more members of the Board to act as a Nominating Committee who shall present to the Board at the October regular meeting or the substitute mentioned above, the nominees for the offices of President, Vice President, Chairman of the Executive Committee, and the four other members of the Executive Committee.

SECTION 7. If for any reason a vacancy should occur in the office of the President, Vice President, or Chairman of the Executive Committee, the President or other presiding Officer of the Board of Directors shall appoint three or more members of the Board to act as a Nominating Committee who shall present a nominee for such vacancy to the Board, and the Board of Directors shall fill such vacancy by election of a successor.

SECTION 8. Duties and Authority of the Elective Officers:

- (a) The President shall be the chief officer of the Authority and shall preside at the meetings of the Board and shall carry out such other functions and directions as may be given the President by the Board of Directors.
- (b) The Vice President shall assist the President and shall perform such other specific duties as may be directed by the Board of Directors or its Executive Committee. In the event of the inability or failure of the President to preside at meetings of the Board, the Vice President shall perform such duty.
- (c) The Chairman of the Executive Committee shall preside at meetings of the Executive Committee and shall assist the President and shall perform such other specific duties as may be directed by the Board of Directors or its Executive Committee. The Chairman of the Executive Committee shall be empowered to implement and execute all decisions of that Committee.

**ARTICLE II. GENERAL OFFICE**

The General Office and principal place of business of the Authority shall be located in the City of Arlington, Tarrant County, Texas.

**ARTICLE III. MEETINGS OF THE BOARD OF DIRECTORS**

SECTION 1. Quorum. A quorum for the transaction of all business at any regular or special meeting of the Board shall consist of a simple majority of the then effective membership of the Board.

SECTION 2. Regular Meetings. Regular meetings of the Board of Directors shall be held on the fourth Wednesday of the months of February, April, June, August, and October and during the first week of December of each year on a day selected by the President.

SECTION 3. Special Meetings. Special meetings may be called by the President or by a majority of the Executive Committee or by five members of the Board of Directors.

SECTION 4. Notice of Meetings. Notice of a regular or special meeting shall be sent by the Secretary by mail not less than ten days prior to the day on which the meeting is to be convened and shall state the time and place where the meeting is to be held as determined by the President. Nothing herein shall preclude a special meeting from being held on an emergency basis without the ten days' notice.

SECTION 5. Agenda. Prior to each regular or special meeting, the General Manager shall cause an agenda to be delivered to each Director. The agenda shall include material explaining

matters recommended to the Board for consideration and copies of involved contracts, ordinances, resolutions, and legal instruments.

#### **ARTICLE IV. GENERAL MANAGER**

**SECTION 1.** The General Manager is vested with full authority to discharge the responsibilities of the office under the direction of the President and subject to the policies established by the Board of Directors.

**SECTION 2.** The Secretary, the Treasurer and all other management employees shall be responsible to the General Manager who in turn shall be totally responsible to the Board of Directors for the conduct of the business of the Authority.

**SECTION 3.** The General Manager shall be particularly concerned with the following:

- (a) The recommendation of policy to the Board of Directors;
- (b) The execution of policies approved by the Board of Directors and of directives of the President;
- (c) The recommendation to the Board of Directors of professional consultants to be employed by the Authority;
- (d) The preparation of a recommended annual budget to govern all operations of the Authority for each oncoming fiscal year, the submission of same for review to the Directors prior to the first day of August each year, the submission of same for approval to the Board of Directors at its regularly scheduled meeting in October each year, and the execution of the policies and programs contained in the annual budget as finally approved by the Board of Directors;
- (e) The disseminating of public information concerning the Authority's activities; and
- (f) The coordination of the Authority's project development functions so that projects included in the Master Plan for the Trinity River and tributaries, as amended, will be implemented in a timely manner.

**SECTION 4.** With the written concurrence of the Authority's President, the General Manager shall designate an employee of the Authority who would serve on a temporary basis as Acting General Manager in the event of the General Manager's absence, inability to act or death.

## **ARTICLE V. COMMITTEES**

**SECTION 1. Executive Committee.** There shall be an Executive Committee, chaired by the Chairman of the Executive Committee, composed of the Chairman of the Executive Committee, the President, the Vice President and four other members of the Board, nominated and elected by the members of the Board at the same time the elective Officers of the Authority are elected. The President shall act as Vice Chairman of the Executive Committee and shall preside at the meetings in the event of the inability or failure of the Chairman of the Executive Committee to do so. In the event of the inability or failure of both the Chairman of the Executive Committee and the President of the Authority, the Vice President of the Authority shall so act. Members of the Executive Committee may be removed therefrom for due cause at any time by the Board. Vacancies on the Committee shall be filled from the Board by the President subject to ratification by the Board of Directors at the next regular or special meeting for which notice for such action has been given. The Committee shall make its own rules of procedure, keep a record of its proceedings and submit a report of its actions at each meeting of the Board of Directors for its approval. In accordance with provisions of SECTION 3(b) of the act of the Texas Legislature creating the Authority, the Executive Committee will perform the functions of the Board between meetings, except as its powers may be restricted from time to time by the Board of Directors. Without limiting that general delegation, the Board may direct, on an advance basis, the Executive Committee to take certain specified actions, including approving the Annual Financial Report and the actions specified in ARTICLE VI, SECTION 2, of the Bylaws, as revised.

### **SECTION 2. Functional Committees.**

- (a) There shall be four functional committees of the Board of Directors:
1. The Administration and Audit Committee, which shall be concerned with the Authority's internal business, management activities, policymaking and salary administration;
  2. The Legal and Public Policy Committee, which shall be concerned with the Authority's legal activities, particularly the manner in which legal matters are handled, review of standard Authority legal forms, compliance activities, oversight of litigation and administrative proceedings, rulemaking activities by agencies, legislative activities and the Authority's land rights activities;
  3. The Resources Development Committee, which shall be concerned with the Authority's provision of financing services to others, master planning responsibilities, environmental matters and studies, water sales policymaking and approval, raw water sales rates, sales of process byproducts, participation in joint planning, cooperative efforts with basin partners, planning for new operating projects and new lines of business and federal project activities; and
  4. The Utility Services Committee, which shall be concerned with the operation and maintenance of the Authority's existing revenue-oriented projects and the expansion or enlargement of the Authority's existing projects.

- (b) The purpose of the functional committees is to make recommendations to the Board of Directors on policy matters.
- (c) Each functional committee shall have a minimum of five members. The Chairman of each functional committee shall be appointed by the President from among those members of the Executive Committee other than the President, Vice President and Chairman of the Executive Committee. The other members of the functional committees shall be appointed by the President.
- (d) Membership on functional committees shall be for a term of two years beginning on the first day of December in odd-numbered years and ending on the thirtieth day of November in the following odd-numbered year.

**SECTION 3. Right-of-Way Committees.**

- (a) Right-of-way committees shall be created by the Board of Directors from time to time as needed.
- (b) Subject to confirmation by the Board of Directors, the President shall appoint members of the Board of Directors to serve on each right-of-way committee and shall designate the Chairman of each right-of-way committee.
- (c) Right-of-way committees shall carry out their duties in accordance with policies approved by the Board of Directors.

**SECTION 4. Special Committees.** Special committees may be constituted to serve for the time and purpose specified in the authorizing resolution or motion which shall also specify the number of members therefor. Subject to confirmation by the Board of Directors, the President shall appoint members of the Board of Directors to serve on special committees.

**SECTION 5. Quorum.** Any Officer of the Board may serve as a voting member of a functional, right-of-way or special committee of the Board of Directors, where necessary to constitute a quorum for said committee.

**ARTICLE VI. DEPOSITORIES AND DISBURSEMENT OF FUNDS**

**SECTION 1.** From time to time the Board of Directors shall designate in the manner prescribed by law one or more banks within the Authority to serve as a depository for the funds of the Authority.

**SECTION 2.** The Board of Directors shall, by resolution, make provision for the depositing and withdrawal of funds, the making of loans, and for other banking matters and procedures; provided, however, that the Executive Committee may perform these functions between meetings, except that it shall make no loan for a term of more than 90 days or for a principal amount of more than \$200,000.

**SECTION 3.** No Officer, Director or employee of the Authority shall be authorized to pledge the credit or create any debt against the Authority for any purpose unless the same shall have been either authorized by the Executive Committee within the limits prescribed in ARTICLE VI, SECTION 2 of these Bylaws, as revised, or previously authorized by the Board of Directors.

## **ARTICLE VII. FEES AND EXPENSES OF DIRECTORS.**

**SECTION 1. Fees.** The members of the Board of Directors shall be entitled to the fees of office authorized by general law for each day the Director actually spends performing the duties of a Director and when participating in meetings of the Board and its Committees and/or as a representative of the Authority in any event when requested by the President or General Manager. Fees of office paid to members of the Board of Directors may not exceed a total of \$7,200 per year.

### **SECTION 2. Expenses.**

- (a) The members of the Board of Directors shall each be entitled to receive reimbursement for actual expenses reasonably and necessarily incurred in attending to authorized Authority business, including attendance at Board and Committee meetings, as follows:
  - 1. For the use of the Director's automobile, each Director shall be reimbursed on the basis of the amount allowed by the Internal Revenue Service for business mileage expense under the automatic mileage deduction method; and
  - 2. For all other expenses, each Director shall be reimbursed on the basis of actual costs reasonably incurred, provided, however, only expenses for travel, meals and lodging shall be reimbursable.
- (b) Statements for reimbursement for expenses shall be submitted by the Secretary to the President on forms provided for review and approval. Upon approval by the President, the reimbursement for expenses shall be made by the General Manager; provided, however, that approval of statements submitted by the President shall be approved by the Chairman of the Executive Committee prior to payment. Claims for reimbursement shall be submitted promptly for processing.

**SECTION 4. Payment.** In order to receive fees of office and to receive reimbursement for expenses, each Director must comply with Texas Water Code Section 49.060, or any subsequent revision thereof. In addition thereto, in order to receive reimbursement for expenses, each Director shall file with the Secretary or Treasurer of the Authority a verified statement showing the amount due, the number of days actually spent in the service of the Authority, and a general description of the duties performed for each day of service before a check shall be issued therefor. Upon receipt of the statement, a voucher shall be prepared and a check issued for payment.

## **ARTICLE VIII. LEGAL EXPENSES.**

Any person made a party to or involved in any litigation (including any civil, criminal or administrative action, suit or proceeding) by reason of the fact that he or she is or was a Director or Officer of the Trinity River Authority of Texas or by reason of the Director's alleged negligence or misconduct in the performance of their duties as such Director or Officer shall be indemnified by the Trinity River Authority of Texas (to the extent funds are lawfully available and upon the conditions set forth below) against any liability together with the reasonable expenses, including attorney's fees, actually and necessarily incurred by the Director in connection with any action therein, except in relation to matters as to which it shall be adjudged in such litigation that such

Director or Officer is liable for gross negligence or willful misconduct in the performance of the Director's duties. (A conviction or judgment entered in connection with a compromise or settlement of such litigation shall not by itself be deemed to constitute an adjudication of liability for such negligence or misconduct.)

As used herein the term "expenses" shall include fines or penalties imposed and amounts paid in compromise or settlement of any such litigation only if (a) independent legal counsel designated by a majority of the members of the Board of Directors other than those who have incurred expenses in connection with such litigation for which indemnification has been or is to be sought shall have advised the Board of Directors of the Trinity River Authority of Texas that in the opinion of such counsel, such Director or Officer is not liable to the Trinity River Authority of Texas for gross negligence or willful misconduct in the performance of the Director's duties in respect to the subject of such litigation, and (b) a majority of such members of the Board of Directors shall have made a determination that such compromise or settlement was or will be in the interest of the Trinity River Authority of Texas.

Any amount payable by way of indemnity under this Bylaw may be determined and paid pursuant to an order of or allowance by a court under the applicable provisions of the Laws of the State of Texas in effect at the time; and pursuant to a resolution of a majority of the members of the Board of Directors of the Trinity River Authority of Texas other than those who have incurred expenses in connection with such litigation for which indemnification has been or is to be sought. In the event that all of the members of the Board of Directors are made parties to such litigation, then a majority of the effective membership of the Board of Directors of the Trinity River Authority of Texas is authorized to pass a resolution to provide for legal expenses for the entire Board.

The right of indemnification provided by this Bylaw shall not be deemed exclusive of any right to which any Director or Officer may be entitled as a matter of law and shall extend and apply to the estates of deceased Directors or Officers.

As used herein the term "Officers" shall be determined by the Board of Directors from time to time.

#### **ARTICLE IX.**

Reserved for future use.

#### **ARTICLE X. AMENDMENTS**

These Bylaws may be amended by the affirmative vote of a majority of the effective membership of the Board at any regular meeting or at any special meeting, provided that any proposed amendments to be considered at a special meeting shall be submitted to the Directors in, or in connection with, the notice of the call of the special meeting.

Updated April 22, 2015

## **Worksheet 1.2 – Marshall Criteria**

### **Certificate of Adjudication 08-2388**

#### **a. Administrative Requirements and Fees**

The application meets all administrative requirements for an amendment to a water use permit under Texas Water Code Chapter 11 and 30 TAC Chapters 281, 295, and 297. TRA is submitting a complete amendment package including a sworn and notarized application, required maps, a current Water Conservation Plan, applicable fees, and all worksheets. Documentation supporting ownership and all required administrative materials have been prepared per 30 TAC §281.4 and §295.1.

#### **b. Beneficial Use**

The amendment adds municipal and mining purposes of use to the authorized 3,188 acre-feet/year. Both uses are statutory beneficial uses under TWC §§11.002 and 11.023. Municipal use supports essential public needs; mining use supports industrial and economic activity. No increase in diversion quantity or rate is requested.

#### **c. Public Welfare**

The amendment is not detrimental to public welfare. It does not increase diversions, modify operations, or adversely affect environmental flows. Municipal and mining uses support community needs and economic activity. Environmental and downstream protections remain unchanged.

#### **d. Groundwater Effects**

The amendment has no adverse effect on groundwater or recharge. No physical changes, storage increases, or hydrological modifications are proposed. Diversion quantities remain unchanged, and no new groundwater interaction is introduced.

#### **e. State Water Plan Consistency**

The amendment is consistent with the 2022 Texas State Water Plan and the 2021 Region C and Region H Regional Water Plans. Municipal and mining uses align with identified beneficial uses and regional demand projections. No new appropriation is requested, and existing supplies are optimized.

#### **f. Waste Avoidance**

TRA maintains Water Conservation and Drought Contingency Plans meeting 30 TAC Chapter 288. These plans demonstrate efficient use, loss prevention, drought management, and operational controls. The amendment adds places and purposes of use but does not increase diversion, ensuring continued avoidance of waste.

**g. Impacts on Water Rights or On-stream Environment**

The amendment does not increase diversion quantity or rate and creates no new hydrological impacts. No adverse effects to senior or junior water rights, in-stream flows, or environmental conditions will occur beyond those inherent in full exercise of the existing authorization. Bed and banks conveyance remains limited to the amount previously authorized.

***Trinity River Authority of Texas***

***Bardwell Reservoir, Joe Pool Reservoir and  
Navarro Mills Reservoir***

***Water Conservation & Drought Contingency  
Plan***

*April 2005  
Revised April 2009  
Revised April 2014  
Revised April 2019  
Revised April 2024*



*Prepared  
by  
Trinity River Authority of Texas*

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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 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)<sup>1</sup> for the diversion and use of water stored in Bardwell Reservoir. The Certificate, as amended, authorizes the Authority to impound 54,900 acre-feet and divert from the reservoir for municipal and industrial purposes not to exceed 9,600 acre-feet per year. It also allows for the diversions of up to 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 near Lake Waxahachie. The District maintains a raw water pump station at Bardwell Reservoir that pumps water into Lake Waxahachie. For the natural yield portion of Bardwell water, the District

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<sup>1</sup> The District is the entity that treats the water for the City of Waxahachie. For all intents and purposes, the District is Waxahachie.

is authorized to 1) pump water from Bardwell to Lake Waxahachie, or 2) overdraft Bardwell's natural yield from Lake Waxahachie. The reuse portion must be pumped from Bardwell to Waxahachie for diversion. The Authority does not own or operate any diversion infrastructure 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. In turn, the Authority 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:

City of Cedar Hill	43.21%
City of Midlothian	39.19%
City of Grand Prairie	10.56%
City of Duncanville	7.04%

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. 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 intake structure and its appurtenances were built. Easements were also secured for a pump station, but that structure has not yet been built. 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.

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. Currently, the Midlothian Water District is treating and using water from Joe Pool Reservoir for municipal water needs. Through Midlothian’s intake structure, 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 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 conservation pool 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 infrastructure in the Reservoir.

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

<u>Purchaser</u>	<u>Amount (Acre-Feet/Year)</u>
City of Corsicana	17,460
Superock, Inc.	450
Town of Dawson	368
Post Oak Special Utility District	353

## 2.3 CONSERVATION GOALS

In accordance with TCEQ regulations, this water conservation plan includes the information required to facilitate the Authority's water conservation goals. The Authority's first goal is to provide an adequate supply of suitable raw water that meets the needs of its wholesale customers. This must include appropriate measures such as water supply contracts, appropriate monitoring and metering leak detection throughout the Authority's utilities, and also setting a maximum unaccounted for water goal of 5% for the affected municipal systems, the value of which represents an acceptable level of unaccounted for water. These measures are addressed in more detail in other parts of this Water Conservation Plan.

The Authority's second goal is to encourage its wholesale customers to adopt and implement water conservation plans that will reduce per capita and peak use demands. As the Authority is a wholesale supplier, it has limited control over water use. Therefore, the Authority's water conservation program is predicated on the fact that the implementation of such conservation measures must occur at largely the local level and achievement of significant water conservation savings can only occur if each retail water user sets and implements its own water conservation programs. It is then the Authority's role to encourage and support those initiatives chosen by the wholesale customers in order to promote long term water use efficiency and reduction of wasted water.

TCEQ requires all municipal water right holders set per capita water consumption goals in "gallons per capita per day" (gpcd). This gpcd calculation is defined by TCEQ as the total amount of water diverted/pumped for potable use divided by the total permanent population, then that value is divided by 365 (days in the year).

The first step to identifying the gpcd goals is establishing the baseline per capita water use values for the wholesale customers. The data used to calculate these values was taken from the 2021 Water User Group Entity Detailed GCPD Report from the Texas Water Development Board. The results from those calculations can be seen in the table below but it is important to note that the values shown *include water used from all sources*, not just water supplied by the Authority, and should be considered an approximation of gpcd.

TRA Project	Wholesale Customer	Estimated Population	Total Net Water Use (Gallons)	Total Net Water Use (AF)	GPCD	Project GPCD
Bardwell	Ennis	20,131	901,423,831	2,766	123	149
	(Ellis Count Water Control & Improvement District #1)	40,162	237,563,0656	7,290	162	
Joe Pool*	Cedar Hill	41,592	2,021,858,390	6,204	133	117
	Duncanville	40,295	1,432,122,000	4,395	97	
	Grand Prairie	198,988	8,271,595,267	25,384	114	
	Midlothian	19,626	1,111,158,767	3,410	155	
Navarro Mills	Corsicana	26,845	1,685,043,079	5,171	171	171
	Dawson	830	35,108,700	107	116	
	Post Oak	1,518	102,160,700	313	184	

Source: Regional Water Planning Water User Group (WUG) Utility – Detailed GPCD Report 2021 (<http://www.twdb.texas.gov/waterplanning/waterusesurvey/estimates/index.asp>)

\*Only Midlothian pumps water for potable use.

Lake Bardwell supplies water to two customers: Ennis and the Ellis County Water Control & Improvement District # 1 (will be referred to henceforth as the District). For all intents and purposes, the District is the City of Waxahachie. According to the TWDB report, Ennis and the District reported a total net use of 10,056 AF in 2021. Their combined population was 60,293 according to population estimates from the TWDB. Therefore, the gpcd usage for Bardwell Reservoir municipal customers was 149 gpcd. This is increased from 2016, when the gpcd was 136, along an increase in population of approximately 18,000. While the gpcd was higher than in 2016, it was 173 in 2011, even with smaller population numbers.

For each customer, TCEQ also requires a 5- and 10-year gpcd goal. In 2016, the gpcd use for Lake Bardwell customers was under the TWDB goal of 140, as the ultimate goal set by the TCEQ had already been met. Using the updated water use data that showed a gpcd of 149 in 2016, new 5-year gpcd goals were calculated: 142 for 5-years and 140 for 10-years. This is determined by reducing the current estimated gpcd use rate by 1% every year until it reaches the TWDB goal of 140 gpcd.

The Authority's Joe Pool Lake wholesale customers, Cedar Hill, Duncanville, Grand Prairie and Midlothian had a total net use in 2021 of approximately 39,393 AF, according to the TWDB 2021 GPCD report. Using this data in combination with their population of 300,501 provided a gpcd rate of 117 for 2021. The customers' gpcd in 2016 was 116. While there is an increase of 1 gpcd, it is still lower than the state goal of 140. Accordingly, the 5- and 10-year per capita goal for 2029 and 2034 is still 140 gpcd.

The cities of Corsicana, Dawson and Post Oak are customers of the Authority's Navarro Mills project. Combined, these customers reported a total water use of approximately 5,591 AF in 2021 according to the 2021 TWDB detailed gpcd report. Using the population estimate of 29,193 from the same report, the gpcd for 2021 is 171 gpcd. This is an increase from 2019, when the gpcd reported for this project was 164. There was also an increase of 2,348 in the reported population. The 5- and 10-year gpcd goal for 2029 and 2034 are now 162 gpcd, and 154 gpcd. This was again determined by reducing the reported gpcd rate by 1% per year.

#### **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 Waxahachie 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 Midlothian'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 Superrock 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-1159-4 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 planning groups, and the Authority will provide a copy of the Plan to Region C and Region G.

## **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, 2029 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 was adopted under the open meetings requirement of the TCEQ during the April 24, 2024 Board of Directors meeting.

### **3.3 Wholesale Water Customer Education**

The Authority will periodically provide wholesale customers with information about the Plan, including information about the conditions under which each stage of the Plan is to be initiated or terminated and the drought response measures to be implemented in each stage. A copy of the Plan will be provided 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.

#### **3.7.1 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:

TRA Project	Triggering Criterion for Stage 1
Bardwell Reservoir	water surface elevation of Bardwell Reservoir declines below 417.0 feet
Joe Pool Reservoir	water surface elevation of Joe Pool Reservoir declines below 516.0 feet
Navarro Mills Reservoir	water surface elevation of Navarro Mills Reservoir declines below 421.5 feet

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.

### 3.7.2 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:

TRA Project	Triggering Criterion for Stage 2
Bardwell Reservoir	water surface elevation of Bardwell Reservoir declines below 414.0 feet
Joe Pool Reservoir	water surface elevation of Joe Pool Reservoir declines below 511.0 feet
Navarro Mills Reservoir	water surface elevation of Navarro Mills Reservoir declines below 419.0 feet

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.

### 3.7.3 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:

TRA Project	Triggering Criterion for Stage 3
Bardwell Reservoir	water surface elevation of Bardwell Reservoir declines below 408.0 feet
Joe Pool Reservoir	water surface elevation of Joe Pool Reservoir declines below 501.0 feet
Navarro Mills Reservoir	water surface elevation of Navarro Mills Reservoir declines below 414.5 feet

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.

### 3.7.4 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.

When an Emergency Water Shortage is declared, the Authority's General Manager may immediately curtail water made available to affected parties from Authority water supplies in accordance to the provisions of Section 5.7 of this plan. Authority customers will be notified on a not-less-than weekly basis of the water, if any, that is available to them from the affected supply.

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 5.7, shall determine that mild, moderate, or severe water shortage conditions exist or that an emergency condition exists and shall implement the following actions:

#### **3.8.1 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.

### **3.8.2 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 anon-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.

### **3.8.3 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 5.7 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.

### **3.8.4 Emergency Water Shortage Conditions**

Whenever emergency water shortage conditions exist in a reservoir, as defined in Section 5.7 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 5.7 of the Plan for Stage 3 - Severe Water Shortage Conditions have been met, or an Emergency Water Shortage Condition is declared, 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 or under Emergency Water Shortage declarations. Under such conditions, the Authority will have the right to audit, monitor and or directly measure all diversions from the affected source(s). 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 2029 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.

APPENDIX A

Utility Profile and Water Conservation Plan  
Requirements for Wholesale Public Water Suppliers  
(Form 20162)

*Bardwell Reservoir Project*

*Joe Pool Reservoir Project*

*Navarro Reservoir Project*



# Texas Commission on Environmental Quality

Water Availability Division

MC-160, P.O. Box 13087 Austin, Texas 78711-3087

Telephone (512) 239-4600, FAX (512) 239-2214

## 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) 239-4600.

*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

Name: Trinity River Authority - Bardwell Reservoir

Address: PO Box 60, Arlington TX 76004

Telephone Number: (817) 467-4343 Fax: (817) 417-0367

Water Right No.(s): CA 08-5021

Regional Water Planning Group: Region C

Person responsible for implementing conservation program: Kevin Ward Phone: (817) 467-4343

Form Completed By: Webster Mangham

Title: Manager SR, TSBP

Signature: \_\_\_\_\_ Date: 3/15/2024

**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:

69,791 (NCTCOG 2023 Pop Ennis 22,691+Waxahachie 47,100)

3. Current population served for:

- a. Water 69,791
- b. Wastewater NA

4. Population served for previous five years:

<i>Year</i>	<i>Population</i>
2019	55,562
2020	61,299
2021	62,689
2022	66,141
2023	69,791

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

<i>Year</i>	<i>Population</i>
2030	68,614
2040	81,027
2050	94,513
2060	108,027
2070	122,917

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

2019 population is obtained from TWDB database (Ennis +Waxahachie).

[https://www3.twdb.texas.gov/apps/reports/WU\\_REP/SumFinal\\_UtilityWUGSum](https://www3.twdb.texas.gov/apps/reports/WU_REP/SumFinal_UtilityWUGSum)

2020-2023 population is obtained from NCTCO database (Ennis +Waxahachie). [https://data-nctcogis.opendata.arcgis.com/datasets/a5efd489d8cc4fc58bd1c9ed8cb92152\\_3/explore](https://data-nctcogis.opendata.arcgis.com/datasets/a5efd489d8cc4fc58bd1c9ed8cb92152_3/explore)

Projected population 2030-2070 is obtained from TWDB database:

[https://www3.twdb.texas.gov/apps/reports/Projections/2027\\_Reports/RWP27\\_pop\\_SearchWUG](https://www3.twdb.texas.gov/apps/reports/Projections/2027_Reports/RWP27_pop_SearchWUG)

#### 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:

<i>Wholesale Customer</i>	<i>Contracted Amount (Acre-feet)</i>	<i>Previous Year Amount of Water Delivered (acre-feet)</i>
City of Ennis	5,280	5,657
Waxahachie	4,320	3,687

**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):

<i>Year</i>	<i>Treated Water</i>	<i>Raw Water</i>
2019	NA	8,407
2020	NA	8,931
2021	NA	8,661
2022	NA	15,106
2023	NA	9,345
<b>Totals</b>	NA	50,451

*B. Water Accounting Data*

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

<i>Year</i>	2019	2020	2021	2022	2023
<i>Month</i>					
January	312	1,140	1,363	882	1,195
February	274	383	674	709	599
March	352	162	697	862	343
April	344	327	381	1,346	371
May	345	334	357	1,492	451
June	395	398	407	1,471	518
July	610	421	487	1,675	1,152

August	871	561	813	1,476	1,279
September	1,405	1,040	964	1,429	1,063
October	1,402	1,441	934	1,394	965
November	820	1,330	801	1,267	840
December	1,277	1,394	783	1,103	571
<b>Totals</b>	<b>8,407</b>	<b>8,931</b>	<b>8,661</b>	<b>15,106</b>	<b>9,345</b>

2. Wholesale population served and total amount of water diverted for **municipal use** for the previous five years (in acre-feet):

<i>Year</i>	<i>Total Population Served</i>	<i>Total Annual Water Diverted for Municipal Use</i>
2019	55,562	7,601
2020	61,299	8,184
2021	62,689	8,143
2022	66,141	14,422
2023	69,791	8,471

*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.

<i>Water Type</i>	<i>Source</i>	<i>Amount Authorized</i>
Surface Water	Bardwell Reservoir	9,600 (water right permit)
Groundwater	NA	NA
Other	Ennis and Waxahachie Wastewater Return Flows	8,824.5 (water right permit - reuse)

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

1. Design daily capacity of system (MGD):

NA

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):

<i>Year</i>	NA	NA	NA	NA	NA
<i>Month</i>					
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	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>
September	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>
October	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>
November	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>
December	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>
<b>Totals</b>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>

## 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.



# Texas Commission on Environmental Quality

Water Availability Division

MC-160, P.O. Box 13087 Austin, Texas 78711-3087

Telephone (512) 239-4600, FAX (512) 239-2214

## 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) 239-4600.

*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

Name: Trinity River Authority - Joe Pool Reservoir

Address: PO Box 60, Arlington TX 76004

Telephone Number: (817) 467-4343 Fax: (817) 417-0367

Water Right No.(s): CA 08-3404

Regional Water Planning Group: Region C

Person responsible for implementing conservation program: Kevin Ward Phone: (817) 467-4343

Form Completed By: Webster Mangham

Title: Manager SR, TSBP

Signature: \_\_\_\_\_ Date: 4/18/2024

**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:

3. Current population served for:

- a. Water
- b. Wastewater NA

4. Population served for previous five years:

<i>Year</i>	<i>Population</i>
2019	293,185
2020	321,079
2021	325,338
2022	328,337
2023	335,303

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

<i>Year</i>	<i>Population</i>
2030	354,537
2040	393,469
2050	438,467
2060	458,787
2070	482,665

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

2019 population is obtained from TWDB database (Cedar Hill+Midlothian+Grand Prairie+Duncanville)

[https://www3.twdb.texas.gov/apps/reports/WU\\_REP/SumFinal\\_UtilityWUGSum](https://www3.twdb.texas.gov/apps/reports/WU_REP/SumFinal_UtilityWUGSum)

2020-2023 population is obtained from NCTCO database (Cedar Hill+Midlothian+Grand Prairie+Duncanville).

[https://data-nctcoggis.opendata.arcgis.com/datasets/a5efd489d8cc4fc58bd1c9ed8cb92152\\_3/explore](https://data-nctcoggis.opendata.arcgis.com/datasets/a5efd489d8cc4fc58bd1c9ed8cb92152_3/explore)

Projected population 2030-2070 is obtained from TWDB database:

[https://www3.twdb.texas.gov/apps/reports/Projections/2027\\_Reports/RWP27\\_pop\\_SearchWUG](https://www3.twdb.texas.gov/apps/reports/Projections/2027_Reports/RWP27_pop_SearchWUG)

### 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:

<i>Wholesale Customer</i>	<i>Contracted Amount (Acre-feet)</i>	<i>Previous Year Amount of Water Delivered (acre-feet)</i>
Cedar Hill	7,346	0
Midlothian	6,662	6,922
Grand Prairie	1,795	171
Duncanville	1,197	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):

<i>Year</i>	<i>Treated Water</i>	<i>Raw Water</i>
2019		7,288
2020		7,474
2021		7,560
2022		6,819
2023		7,093
<b>Totals</b>		36,235

### B. Water Accounting Data

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

<i>Year</i>	<i>2019</i>	<i>2020</i>	<i>2021</i>	<i>2022</i>	<i>2023</i>
<i>Month</i>					
January	438	245	635	598	446
February	389	508	577	630	486
March	456	517	526	674	569
April	438	608	661	560	627
May	492	704	597	764	551
June	692	739	540	559	417
July	816	834	704	666	710

August	908	858	784	603	1,114
September	819	441	720	433	690
October	684	599	587	441	523
November	585	690	628	444	443
December	573	730	602	447	516
<b>Totals</b>	<b>7,288</b>	<b>7,474</b>	<b>7,560</b>	<b>6,819</b>	<b>7,093</b>

2. Wholesale population served and total amount of water diverted for **municipal use** for the previous five years (in acre-feet):

<i>Year</i>	<i>Total Population Served</i>	<i>Total Annual Water Diverted for Municipal Use</i>
2019	17,293(TWDB Midlothian)	7,193
2020	35,125(NCTCOG Midlothian)	7,423
2021	36,468	7,555
2022	37,579	6,774
2023	39,385	6,922

*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.

<i>Water Type</i>	<i>Source</i>	<i>Amount Authorized</i>
Surface Water	Joe Pool Reservoir	17,000 AF (water right)
Groundwater	NA	NA
Other	Return Flows from Mountain Creek Regional Wastewater Treatment Plant	4,368 AF

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

1. Design daily capacity of system (MGD):  
NA
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):

<i>Year</i>	NA	NA	NA	NA	NA
<i>Month</i>					
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	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>
September	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>
October	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>
November	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>
December	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>
<b>Totals</b>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>

## 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.



# Texas Commission on Environmental Quality

Water Availability Division

MC-160, P.O. Box 13087 Austin, Texas 78711-3087

Telephone (512) 239-4600, FAX (512) 239-2214

## 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) 239-4600.

*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

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: Webster Mangham

Title: Manager SR, TSBP

Signature: \_\_\_\_\_ Date: 3/15/2024

**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:

25,885 (*Corsicana only, others cities' data not available*)

3. Current population served for:

- a. Water 25,885
- b. Wastewater NA

4. Population served for previous five years:

<i>Year</i>	<i>Population</i>
2019	25,397
2020	25,109
2021	25,103
2022	25,141
2023	25,885

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

<i>Year</i>	<i>Population</i>
2030	30,108
2040	32,073
2050	33,696
2060	35,077
2070	36,597

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

2019 population is obtained from TWDB database (Corsicana only).

[https://www3.twdb.texas.gov/apps/reports/WU\\_REP/SumFinal\\_UtilityWUGSum](https://www3.twdb.texas.gov/apps/reports/WU_REP/SumFinal_UtilityWUGSum)

2020-2023 population is obtained from NCTCO database (Only Corsicana data available). [https://data-nctcogis.opendata.arcgis.com/datasets/a5efd489d8cc4fc58bd1c9ed8cb92152\\_3/explore](https://data-nctcogis.opendata.arcgis.com/datasets/a5efd489d8cc4fc58bd1c9ed8cb92152_3/explore)

Projected population 2030-2070 is obtained from TWDB database (WUG includes Corsicana, Dawson and Post Oak SUD): [https://www3.twdb.texas.gov/apps/reports/Projections/2027\\_Reports/RWP27\\_pop\\_SearchWUG](https://www3.twdb.texas.gov/apps/reports/Projections/2027_Reports/RWP27_pop_SearchWUG)

**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:

<i>Wholesale Customer</i>	<i>Contracted Amount (Acre-feet)</i>	<i>Previous Year Amount of Water Delivered (acre-feet)</i>
City of Corsicana	17,460	7,726
Superock, Inc	450	0
Town of Dawson	368	0
Post Oak Special Utility District	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):

<i>Year</i>	<i>Treated Water</i>	<i>Raw Water</i>
2019	NA	6,390
2020	NA	6,332
2021	NA	6,587
2022	NA	7,747
2023	NA	7,726
<b>Totals</b>	NA	34,783

**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:

<i>Year</i>	<i>2019</i>	<i>2020</i>	<i>2021</i>	<i>2022</i>	<i>2023</i>
<i>Month</i>					
January	491	461	539	577	540
February	429	438	601	519	502
March	492	440	461	454	536
April	474	450	496	446	540

May	514	498	473	560	592
June	474	576	515	746	634
July	605	615	528	918	774
August	728	661	610	799	978
September	625	550	677	735	779
October	586	605	633	786	689
November	497	512	535	593	585
December	475	526	519	613	578
<b>Totals</b>	<b>6,390</b>	<b>6,332</b>	<b>6,587</b>	<b>7,747</b>	<b>7,726</b>

2. Wholesale population served and total amount of water diverted for **municipal use** for the previous five years (in acre-feet):

<i>Year</i>	<i>Total Population Served</i>	<i>Total Annual Water Diverted for Municipal Use</i>
2019	25,397	6,390
2020	25,109	6,332
2021	25,103	6,587
2022	25,141	7,747
2023	25,885	7,726

*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.

<i>Water Type</i>	<i>Source</i>	<i>Amount Authorized</i>
Surface Water	Navarro Mills Reservoir	19,400
Groundwater	NA	NA
Other	NA	NA

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

1. Design daily capacity of system (MGD):

NA

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):

<i>Year</i>	NA	NA	NA	NA	NA
<i>Month</i>					
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	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>
June	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>
July	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>
August	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>
September	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>
October	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>
November	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>
December	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>
<b>Totals</b>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>

## 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:

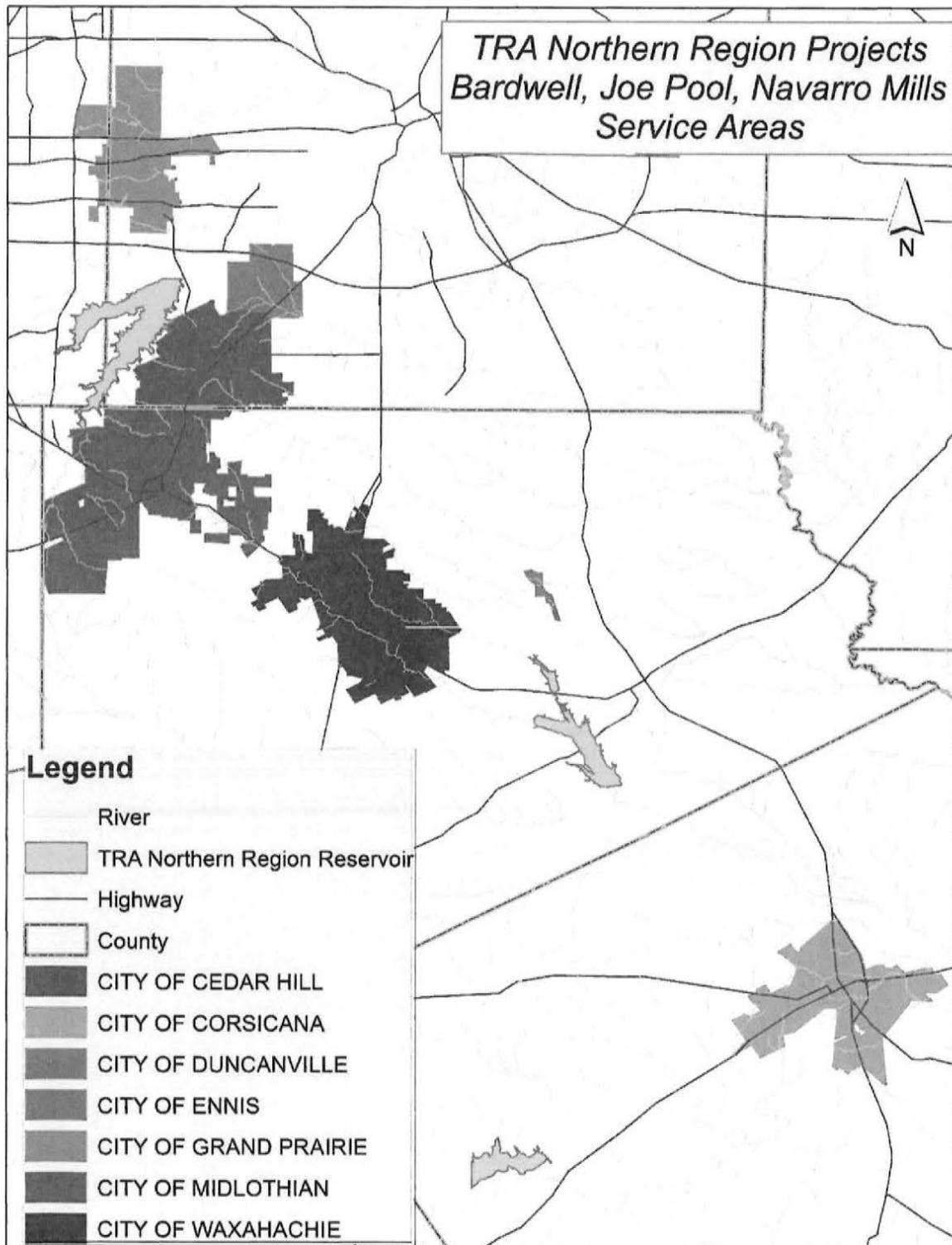
1. Conservation-oriented water rates and water rate structures such as uniform or increasing block rate schedules, and/or seasonal rates, but not flat rate or decreasing block rates;
2. A program to assist agricultural customers in the development of conservation, pollution prevention and abatement plans;
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.



## 2021 Regional Water Plan - Population Projections for 2020-2070

WUG Name	County	2020	2030	2040	2050	2060	2070
ENNIS	ELLIS	21,354	25,111	28,828	41,086	66,145	110,073
WAXAHACHIE	ELLIS	37,700	43,084	52,272	64,400	78,500	95,500
CEDAR HILL	DALLAS	53,244	65,133	76,989	83,579	83,579	83,579
CEDAR HILL	ELLIS	694	884	1,103	1,421	1,421	1,421
DUNCANVILLE	DALLAS	43,110	47,307	47,307	47,307	47,307	47,307
GRAND PRAIRIE	DALLAS	166,208	206,781	231,491	231,491	231,491	231,491
GRAND PRAIRIE	ELLIS	55	71	88	114	140	170
GRAND PRAIRIE	TARRANT	51,864	51,864	51,864	51,864	51,864	51,864
MIDLOTHIAN	ELLIS	20,660	30,895	32,500	34,500	36,836	40,689
CORSICANA	NAVARRO	26,739	29,484	32,318	35,546	38,921	42,525
DAWSON	NAVARRO	893	934	975	1,016	1,057	1,100

Source: <http://www.twdb.texas.gov/waterplanning/data/projections/2022/popproj.asp>

## 2021 Regional Water Plan – Water Demand Projections for 2020-2070 (in Acre-Feet)

WUG Name	County	2020	2030	2040	2050	2060	2070
ENNIS	ELLIS	4,026	4,625	5,234	7,401	11,887	19,761
WAXAHACHIE	ELLIS	6,872	7,702	9,226	11,299	13,749	16,715
CEDAR HILL	DALLAS	10,660	12,810	14,994	16,201	16,186	16,184
CEDAR HILL	ELLIS	139	174	215	275	275	275
DUNCANVILLE	DALLAS	6,091	6,464	6,322	6,244	6,230	6,229
GRAND PRAIRIE	DALLAS	26,811	32,615	36,061	35,851	35,799	35,792
GRAND PRAIRIE	ELLIS	9	11	14	18	22	26
GRAND PRAIRIE	TARRANT	8,366	8,180	8,079	8,032	8,021	8,019
MIDLOTHIAN	ELLIS	4,811	7,094	7,408	7,839	8,359	9,231
CORSICANA	NAVARRO	6,104	6,582	7,101	7,750	8,472	9,253
DAWSON	NAVARRO	149	151	155	159	165	172

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

## 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.

**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*

**RECEIVED**

FEB 26 2026

Water Availability Division

# Texas Commission on Environmental Quality

Water Availability Division  
MC-160, P.O. Box 13087 Austin, Texas 78711-3087  
Telephone (512) 239-4600, 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 beginning May 1, 2009. 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  
 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  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 Chapter 288.  
[http://texreg.sos.state.tx.us/public/readtac%24ext.ViewTAC?tac\\_view=4&ti=30&pt=1&ch=288](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/conserves.html](https://www.tceq.texas.gov/permitting/water_rights/wr_technical-resources/conserves.html)

*Call 512-239-4600 or email to [wcp@tceq.texas.gov](mailto: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, list dates and descriptions of the conservation measures implemented, and the actual amount of water saved.

As the Authority is a wholesale supplier, it has limited control over water use. Therefore, the Authority's water conservation program is predicated on the fact that the implementation of such conservation measures must occur at largely the local level and achievement of significant water conservation savings can only occur if each retail water user sets and implements its own water conservation programs. It is then the Authority's role to encourage and support those initiatives chosen by the wholesale customers in order to promote long term water use efficiency and reduction of wasted water.

7. 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 \_\_\_\_\_ No \_\_\_\_\_

If the targets were not met, please provide an explanation as to why any of the targets were not met, including any progress on that particular target.

As a wholesale supplier, the Authority has limited access to the data, such as the population and water usage. Therefore, it is difficult to evaluate whether the targets for water saving and water loss were met.

8. 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  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"

9. 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 2029 and 2034 (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)

10. *Form Completed by (Point of Contact):* Webster Mangham  
*(If different than name listed above, owner and contact may be different individual(s)/entities)*
- Contact Person Title/Position: Manager, Senior, Technical Services & Basin Planning
- Contact Address: PO Box 60, Arlington TX 76004
- Contact Phone Number: 817-493-5127 Contact Email Address: [REDACTED]

Signature: \_\_\_\_\_

Date: 4/1/2024

# Texas Commission on Environmental Quality

Water Availability Division  
MC-160, P.O. Box 13087 Austin, Texas 78711-3087  
Telephone (512) 239-4600, 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 beginning May 1, 2009. 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  
 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  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 Chapter 288.  
[http://texreg.sos.state.tx.us/public/readtac%24ext.ViewTAC?tac\\_view=4&ti=30&pt=1&ch=288](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/conserves.html](https://www.tceq.texas.gov/permitting/water_rights/wr_technical-resources/conserves.html)

*Call 512-239-4600 or email to [wcp@tceq.texas.gov](mailto: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, list dates and descriptions of the conservation measures implemented, and the actual amount of water saved.

As the Authority is a wholesale supplier, it has limited control over water use. Therefore, the Authority's water conservation program is predicated on the fact that the implementation of such conservation measures must occur at largely the local level and achievement of significant water conservation savings can only occur if each retail water user sets and implements its own water conservation programs. It is then the Authority's role to encourage and support those initiatives chosen by the wholesale customers in order to promote long term water use efficiency and reduction of wasted water.

7. 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 \_\_\_\_\_ No \_\_\_\_\_

If the targets were not met, please provide an explanation as to why any of the targets were not met, including any progress on that particular target.

As a wholesale supplier, the Authority has limited access to the data, such as the population and water usage. Therefore, it is difficult to evaluate whether the targets for water saving and water loss were met.

8. 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  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"

9. 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 2029 and 2034 (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)

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

Contact Person Title/Position: Manager SR, TSBP

Contact Address: PO Box 60, Arlington TX 76004

Contact Phone Number: 817-492-5127 Contact Email Address: [REDACTED]

Signature: \_\_\_\_\_

Date: 4/1/2024

# Texas Commission on Environmental Quality

Water Availability Division  
MC-160, P.O. Box 13087 Austin, Texas 78711-3087  
Telephone (512) 239-4600, 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 beginning May 1, 2009. 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  
 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  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 Chapter 288.  
[http://texreg.sos.state.tx.us/public/readtac%24ext.ViewTAC?tac\\_view=4&ti=30&pt=1&ch=288](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/conserves.html](https://www.tceq.texas.gov/permitting/water_rights/wr_technical-resources/conserves.html)

*Call 512-239-4600 or email to [wcp@tceq.texas.gov](mailto: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, list dates and descriptions of the conservation measures implemented, and the actual amount of water saved.

As the Authority is a wholesale supplier, it has limited control over water use. Therefore, the Authority's water conservation program is predicated on the fact that the implementation of such conservation measures must occur at largely the local level and achievement of significant water conservation savings can only occur if each retail water user sets and implements its own water conservation programs. It is then the Authority's role to encourage and support those initiatives chosen by the wholesale customers in order to promote long term water use efficiency and reduction of wasted water.

7. 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 \_\_\_\_\_ No \_\_\_\_\_

If the targets were not met, please provide an explanation as to why any of the targets were not met, including any progress on that particular target.

As a wholesale supplier, the Authority has limited access to the data, such as the population and water usage. Therefore, it is difficult to evaluate whether the targets for water saving and water loss were met.

8. 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  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"

9. 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 2029 and 2034 (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)

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

Contact Person Title/Position: Manager, SR, TSBP

Contact Address: PO Box 60

Contact Phone Number: 817-493-5127 Contact Email Address: 

Signature: \_\_\_\_\_

Date: 4/1/2024

RESOLUTION NO. R-1159-4

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-1159-3

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 Reservoirs; and

WHEREAS, on April 27, 2005, the Board of Directors of the Authority adopted Resolution No. R-1159 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

WHEREAS, on April 27, 2005, the Board of Directors of the Authority adopted Resolution No. R-1160 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

WHEREAS, on April 27, 2005, the Board of Directors of the Authority adopted Resolution No. R-1161 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

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, on April 24, 2019, the Board of Directors of the Authority adopted Resolution No. R-1159-3 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-1159-2, R-1160-2 AND R-1161-2

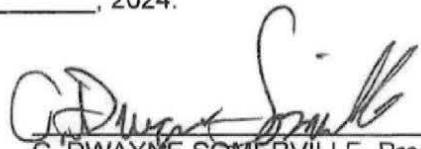
WHEREAS, it is in the public interest that Resolution R. 1159-3 be rescinded.

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

- (1) That Resolution No. R-1159-3 adopted by the Board of Directors of the Authority on April 24, 2019, is hereby rescinded;

- (2) That the Board of Directors hereby adopts Resolution No. R-1159-4 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.

ADOPTED this 24<sup>th</sup> day of April, 2024.

  
C. DWAYNE SOMERVILLE, President  
Board of Directors  
Trinity River Authority of Texas

ATTEST:

  
ALEXIS S. LONG, Assistant Secretary  
Board of Directors  
Trinity River Authority of Texas



**Attachment  
3\_2024\_TRA\_SR\_WCDC\_Plan**

***Trinity River Authority of Texas***

***Lake Livingston and  
Wallisville Saltwater Barrier Projects***

***Water Conservation Plan***

***Lake Livingston Project, Wallisville Saltwater  
Barrier Project, Huntsville Regional Water Supply  
System, Livingston Regional Water Supply System  
and Trinity County Regional Water Supply System***

***Drought Contingency Plan***

***May 1, 2005  
Revised May 1, 2009  
Revised May 1, 2014  
Revised May 1, 2019  
Revised May 1, 2024***



***Prepared  
by  
Trinity River Authority of Texas***

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**Trinity River Authority of Texas**  
**Lake Livingston and Wallisville Saltwater Barrier Projects**  
**Water Conservation Plan and 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 was 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 contracting parties of the Authority's Lake Livingston Project (LLP) and any future purchasers of municipal water from the LLP or Wallisville Saltwater Barrier Project. 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 from Lake Livingston to four cities and several unincorporated rural areas in the vicinity of Lake Livingston. There are additional fixed rights agreements in which the Authority provides water to downstream users for irrigation and downstream raw water supply contracts for municipal and industrial use. In addition, the Authority's Lake Livingston permit (08-4248) includes reuse water from

three of the Authority's wastewater treatment plants in the Dallas and Fort Worth metropolitan area (DFW). This discharged water is conveyed run-of-river to a diversion point in Kaufman County and is used in the Region C water planning area. The remainder of the reuse water is conveyed to Lake Livingston. 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 Plan. 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 Plan, and public education and information.

## 2.2 Planning Area Description

The Authority owns, operates, and maintains Lake Livingston, which is located on the main stem of the Trinity River in Polk, San Jacinto, Walker, and Trinity Counties. The Wallisville Saltwater Barrier is owned and operated by the U.S. Army Corps of Engineers (USACE) in Chambers County. The Planning Area is depicted in Appendix A and Appendix B. The City of Houston owns 70% of the Livingston water rights and the Authority owns the remaining 30%, while Houston owns 58% of the Wallisville rights and the Authority owns the remaining 42%. The Authority currently holds Certificate of Adjudication No. 08-4248 for Lake Livingston and the Wallisville Project. That Certificate of Adjudication provides for the following Authority water rights in acre-feet/year:

Type of Use	Livingston	Wallisville	Total (AF/YR)
Municipal, Irrigation, Wildlife, and Industrial	351,600	N/A	351,600
Municipal	N/A	10,000	10,000
Irrigation	N/A	30,000	30,000
Industrial	N/A	11,600	11,600
Total	351,600	51,600	403,200

The planning area includes the wholesale customers listed in the table below. The Authority supplies raw water by contract to four municipalities and several unincorporated areas around Lake Livingston. The amount of municipal water the Authority is currently obligated to provide to these wholesale customers is summarized as follows:

<b>Wholesale Customer</b>	<b>AF/YR</b>
City of Huntsville (HRWSS)	11,210
City of Livingston (LRWSS)	3,363
Trinity County Regional Water Supply System (TCRWSS) <sup>1</sup>	1,121
Waterwood MUD (WMUD)	224
Trinity Rural WSC	740
Lake Livingston Water Supply and Sewer Corporation (LLWSS)	893
North Texas Municipal Water District (NTMWD)	56,050

<sup>1</sup> TCRWSS provides water to the City of Trinity.

The following table provides the amount of raw water diverted from Lake Livingston for municipal use by the wholesale customers of the Authority for the past five years in acre-feet/year:

<b>Year</b>	<b>HRWSS</b>	<b>LRWSS</b>	<b>TCRWSS</b>	<b>WMUD</b>	<b>Trinity Rural WSC</b>	<b>LLWSS</b>	<b>NTMWD</b>	<b>Total</b>
2019	7,631	2,602	389	0	312	394	2,243	11,328
2020	8,057	2,504	488	0	262	547	11,539	11,858
2021	7,104	2,530	351	0	446	563	15,589	10,994
2022	7,738	2,512	414	0	483	742	15,972	11,891
2023	8,336	2,622	605	0	474	404	15,305	12,440

Source: LLP Monthly Diversion Report in acre feet.

The Planning Areas of the Huntsville Regional Water Supply System (HRWSS), the Livingston Regional Water Supply System (LRWSS) and Trinity County Regional Water Supply System (TCRWSS) are depicted in Appendices D-F.

### **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 retail level. The Authority's program is focused on encouraging and supporting initiatives by wholesale customers and their retail customers.

Although the TCEQ regulations state that all municipal water right holders set goals in gallons per capita per day (gpcd), these calculations are difficult to do for wholesale water providers because customers may have several water sources and population numbers are not consistently aggregated or disaggregated at the correct scale for this analysis. The gpcd calculation, as defined by TCEQ, is the total average daily amount of water diverted or pumped for treatment 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. Excluding Waterwood MUD due to no usage and NTMWD because their pumpage is used in Region C and blended with several very large sources, the usage for the Lake Livingston customers is 126 gpcd.

Wholesale Customer	2023 AF/Y	2023 Gallons	Pop	GPCD
City of Huntsville (HRWSS)	8,336	2,716,184,568	47,800	156
City of Livingston (LRWSS)	2,622	854,258,166	13,000	180
Trinity County Regional Water Supply System (TCRWSS)	605	197,047,247	4,436	122
Waterwood MUD (WMUD)**	0	0	1,365	0
Trinity Rural WSC (TRWSC)	474	154,461,202	3,780	112
Lake Livingston Water Supply and Sewer Corporation (LLWSS)***	404	131,730,654	19,110	19
North Texas Municipal Water District (NTMWD)*	56,050	18,263,972,571	na	160
		Average GPCD		126

*Note: Population data was assembled using the best available data.*

*\*Data is inappropriate for gpcd calculations. The gpcd of 160 was taken from NTMWD's 2019 Water Conservation Plan, but because NTMWD is unique and the water us used in Region C, NTMWD was not used in the overall gpcd calculation.*

*\*\*Waterwood MUD's population not used in overall gpcd calculation due to no water usage.*

*\*\*\* The LLWSS' 2019 Water Conservation Plans are submitted by their individual neighborhoods, not aggregated to the LLWSS level. Because the majority of the goals for each neighborhood were in the 20 – 40 gpcd range, the 19 gpcd could not be summarily excluded from the calculation, though the number drives the overall gpcd down significantly.*

This number is much lower than the 223 gpcd in the 2019 report, which is likely due to this report using a different calculation methodology. Population data was assembled using the best available data source<sup>1</sup>. Population for these rural areas is difficult to accurately calculate due to a variety of factors including the following: 1) in some cases, these areas are aggregated/disaggregated in the regional water planning process, 2) in some cases, only parts of an area are served by a water supplier, and 3) connections are not necessarily households, etc.

The 126 gpcd is below the Authority's goal of 140 gpcd, though the very low 19 gpcd for LLWSS is driving the overall gpcd downward<sup>2</sup>. Even though 126 gpcd is below the 140 gpcd goal, the Authority will continue to project reductions by 1% per year resulting in a new 5-year per capita goal for 2029 of 120 gpcd and a new 10-year per capita goal for 2034 of 113 gpcd.

<sup>1</sup> For HRWSS and LRWSS – Population data was taken from the TRA website. For TRWSS, WMUD, TRWSC, and LLWSS – Population data was created by using number of connections multiplied by 2.73, the US Census Bureau's estimation for persons per household in Texas.

<sup>2</sup> LLWSS' 2019 Water Conservation Plans are submitted by their individual neighborhoods, not aggregated to the LLWSS level. Because the majority of the goals for each neighborhood were in the 20 – 40 gpcd range, the very low 19 gpcd could not be summarily excluded from the calculation.

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 losses for wholesale providers. 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.

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

In the Raw Water Sales Agreements between the Authority and all its customers, the Authority requires the customers to provide, operate, and maintain meters that are approved by the Authority to record the amount of water diverted on monthly basis and keep records of same. The Authority also reads and inspects the meters on a routine basis. On or before the fifth day of each month, each customer is required to furnish water diversion data for the prior month to the Authority. If a meter is found to be inaccurately registering flow with an error in excess of 2 percent, the customer may be required to repair or replace the meter, and the diversion records corrected for a period extending back to the time when such inaccuracy began, but no further back than a period of six months. The Authority reserves the right to install a check meter.

#### **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 should 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 should manage their ongoing leak detection, location and repair

programs. Waterline leaks can be detected by utility personnel while reading meters, maintaining their water and wastewater systems, and while performing other routine surveillance programs. Additionally, periodic water audits should be utilized to determine if leaks exist that have gone undetected.

The Authority will monitor for leaks in any water transmission system components used to transport water to wholesale customers. Any reported leaks will be repaired in a timely manner.

## **2.7 Reservoir System Operations Plan**

Lake Livingston and the Wallisville Saltwater Barrier are located on the lower Trinity River. Lake Livingston is owned and operated by the Authority. The Wallisville Saltwater Barrier is owned and operated by the USACE. A copy of the USACE's Operation Plan for Wallisville is included in Appendix C. This federal project provides conservation savings for Lake Livingston by preventing salt water intrusion up the Trinity River without requiring additional releases of stored water from Lake Livingston. Prior to the completion of Wallisville, the Authority was required to release in excess of 200,000 acre-feet/year of stored water from Lake Livingston during dry periods.

## **2.8 Water Supply Contracts**

It is a mandatory requirement for the Authority, as a water rights holder who wholesales water, to require customers with any new or amended contracts or successor contracts to develop a water conservation plan if the customer meets the requirements laid out in Section 11.1271 of the Texas Water Code.

All customer plans must be reviewed and approved by Authority staff prior to the diversion of raw water by the wholesale customer.

## **2.9 Ordinance/Resolution and Implementation**

Resolution No. R-1163-4 adopts the Water Conservation Plan for Lake Livingston and Wallisville Saltwater Barrier Projects. The General Manager, or his designee(s), is authorized and directed to implement the applicable provisions of this Plan. The General Manager, or his designee(s), 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 area of the Authority, which may be affected by this Plan, is located within Region H and Region I and the Authority has provided a copy of the Plan to both.

## **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 reduced 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.

The Authority will encourage the contracting parties to provide literature on conservation to their respective retail customers. Education materials are available from the TCEQ, American Water Works Association, TWDB, and others. The contracting parties will be encouraged to distribute the information to the public during the peak summer demand periods.

In addition to the above educational and information program to be carried out by the contracting parties, the Authority will be available to present water conservation programs to local schools, civic organizations, and other groups.

## **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, 2029 and every five years thereafter. The Plan will be updated as appropriate based on new or updated information.

# **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).

### **3.3 Wholesale Water Customer Education**

The Authority will periodically provide wholesale customers with information about the Plan, including information about the conditions under which each stage of the Plan is to be initiated or terminated and the drought response measures to be implemented in each stage. This information will be provided to each wholesale water customer.

### **3.4 Coordination with Regional Water Planning Groups**

The water service area of the Authority, which may be affected by this Plan, is located within the Region H and the Authority has provided a copy of the Plan to Region H.

### **3.5 Authorization**

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

### **3.6 Application**

The provisions of this Plan shall apply to all customers utilizing water provided by the Authority from Lake Livingston or the Wallisville Saltwater Barrier, including HRWSS, LRWSS, and TCRWSS. 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 designee(s), shall monitor water supply and demand conditions 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. The triggering criteria described below are based on historical operating information and an assessment of Lake Livingston's vulnerability under drought of record conditions. For all customers except NTMWD<sup>3</sup>, whose water comes from reuse in the DFW area, the condition to be monitored for determining drought response stage is the water surface elevation of Lake Livingston.

**(a) Stage 1 – MILD Water Shortage Condition**

Requirement for initiation – The Authority will recognize that a mild water shortage condition exists when the following conditions occur:

The water surface elevation of Lake Livingston declines below 126.50 feet Mean Sea Level (msl) as measured by the USGS gage at the spillway (80% of normal conservation storage).

Requirement for termination – Stage 1 of the Plan may be rescinded when the Lake Livingston water level is at or above 126.50 feet msl for a period of fifteen 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**

Requirement for initiation – The Authority will recognize that a moderate water shortage condition exists when the following conditions occur:

The water surface elevation of Lake Livingston declines below 124.00 feet msl as measured by the USGS gage at the spillway (70% of normal conservation storage).

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<sup>3</sup> NTMWD is not required to follow drought stage triggers. Pumpage is driven by the available discharge water from TRA's Central, Ten Mile, and Red Oak wastewater treatments plants, downstream senior water rights, and TCEQ environmental flow triggers. The exact methods are described in the Authority's accounting plan approved by TCEQ.

Requirement for termination – Stage 2 of the Plan may be rescinded when the Lake Livingston water level is at or above 124.00 feet msl for a period of fifteen 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**

Requirement for initiation – The Authority will recognize that a severe water shortage condition exists when the following conditions occur:

The water surface elevation of Lake Livingston declines below 121.40 feet msl as measured at the USGS gage at the spillway (60% of normal conservation storage).

Requirement for termination – Stage 3 of the Plan may be rescinded when the Lake Livingston water level is at or above 121.40 feet msl for a period of fifteen 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. When flood inflows raise reservoir levels above more than one trigger level, multiple stages can be terminated concurrently.

**(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:

- Natural or man-made contamination of the reservoir;
- Major equipment or facility failures, which cause loss of capability to provide water service; or
- An emergency drawdown of the reservoir for structural integrity purposes; or
- Any condition exists which prevents or imminently threatens to prevent Authority customers from withdrawing sufficient water from Lake Livingston.

When an Emergency Water Shortage is declared, the Authority's General Manager may immediately curtail water made available to affected parties from Authority water supplies in accordance to the provisions of Section 3.9 of this plan. Authority customers will be notified on a not-less-than weekly basis of the water, if any, that is available to them from the affected supply.

Requirement for termination – The emergency water shortage condition may be rescinded when the General Manger or his designee(s) 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 designee(s), 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 Condition**

**Target: Achieve a voluntary 5 % reduction in daily water demand for each retail utility utilizing Lake Livingston.**

##### Best Management Practices for Supply Management:

- 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 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);

- The General Manager, or his designee(s), will provide periodic reports, as appropriate, 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; and
- The Authority may notify, in writing, the Texas Parks and Wildlife Department that the reservoir is operating at less than 80 percent of its conservation pool volume and that a Stage 1 Drought Response level has been declared. The notice will indicate that future releases of water from the reservoir could be impacted if reservoir levels continue to decline.

## **Stage 2 – Moderate Water Shortage Condition**

**Target: Achieve a 10 % reduction in daily water demand for each retail utility utilizing Lake Livingston.**

### Best Management Practices for Supply Management:

- 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.;
- The Authority may manage limited water supplies by modifying the gate operating procedures to conserve reservoir storage unless major flooding is anticipated; and
- The Authority will not approve new water sales contracts for low priority customers such as small water sales, or issue new permits for irrigation, and temporary construction permits.

### Water Use Restrictions for Reducing Demand:

- The General Manager, or his designee(s), will initiate periodic contact with wholesale water customers to discuss water supply and demand conditions and the possibility of pro rata curtailment of water diversions and/or deliveries;
- The General Manager, or his 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 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 Section 3.9 of the Plan; and
- The General Manager, or his designee(s), will provide periodic reports to the news media, as appropriate, 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 Condition**

**Target: Achieve a 25 % reduction in daily water demand for each retail utility utilizing Lake Livingston.**

#### Best Management Practices for Supply Management:

- 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.;
- The Authority will manage limited water supplies by modifying the gate operating procedures to conserve reservoir storage unless major flooding is anticipated; and
- The Authority will terminate the water supply to the low priority non-municipal customers such as small water sales, or issue new permits for irrigation, and temporary construction permits.

#### Water Use Restrictions for Reducing Demand:

- The General Manager, or his 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 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 designee(s), will provide periodic reports to the news media, as appropriate, 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 Condition**

Whenever emergency water shortage conditions exist as defined in Section 3.7 of the Plan, the General Manager 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 and 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 or an Emergency Water Shortage is declared, the General Manager 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**

During any period when pro rata allocation of available water supplies is in effect, the General Manager is authorized to impose mandatory water use restrictions that will be enforced by warnings and penalties as follows:

- On the first violation, the wholesale water customer will be given a written warning that they have violated one or more of the mandatory water use restrictions;
- The Authority will require that the customer implement a more comprehensive public education and outreach program in a manner that increases the public's awareness of the mandatory water use restrictions and the current drought status. The customer will also be required to submit documentation to the Authority of the steps it has taken to ensure compliance with this Water Conservation and Drought Contingency Plan; and
- The Authority may petition the Texas Commission on Environmental Quality to initiate formal enforcement action against wholesale water customers that fail to comply with pro rata allocation consistent with Texas Water Code Section 11.039.

### **3.11 Variances**

The General Manager, or his designee(s), may, in writing, grant a temporary variance to the pro rata water allocation policies provided by this 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 this 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 this Plan shall file a petition for variance with the General Manager 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 proposes to take to meet the intent of this Plan and the compliance date; and
- (6) Other pertinent information.

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

- (1) Variations granted shall include a timetable for compliance with allocation requirements; and
- (2) Variations 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 this 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 by May 1, 2029 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 this Plan are severable and, if any phrase, clause, sentence, paragraph, or section of this Plan shall be declared unconstitutional by the valid judgment or decree of any court of competent jurisdiction, such declaration shall not affect any of the remaining phrases, clauses, sentences, paragraphs, and sections of this Plan, since the same would not have been enacted by the Authority without the incorporation into this Plan of any such unconstitutional phrase, clause, sentence, paragraph, or section.

# **Appendix A**

## **Lake Livingston Project**

**Utility Profile and Water Conservation Plans  
Requirements for Wholesale Public Water Suppliers  
(Form 20162)**

**&**

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

**&**

**System Inventory and Water Conservation Plan  
for Agricultural Water Suppliers Providing Water to  
More Than One User  
(Form 10244)**



## Texas Commission on Environmental Quality

Water Availability Division

MC-160, P.O. Box 13087 Austin, Texas 78711-3087

Telephone (512) 239-4600, FAX (512) 239-2214

### 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) 239-4600.

*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

Name: Trinity River Authority - Lake Livingston Project

Address: PO Box 60, Arlington TX 76004

Telephone Number: (817) 467-4343 Fax: (817) 417-0367

Water Right No.(s): CA 08-4248

Regional Water  
Planning Group: Region H

Person responsible  
for implementing  
conservation program: Kevin Ward Phone: (817) 467-4343

Form Completed By: Webster Mangham

Title: Manager SR, TSBP

Signature: \_\_\_\_\_ Date: 3/20/2024

**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)

The project area includes all or a portion of the cities of Houston, Huntsville, Livingston, Groveton, Trinity County, as well as industrial (Tenaska) and agricultural users downstream. For these reasons, the service area is not definable.

2. Current population served for:

- a. Water NA
- b. Wastewater NA

3. Population served for previous five years:

Projected population for service area in the following decades:

<i>Year</i>	<i>Population</i>
2019	NA
2020	NA
2021	NA
2022	NA
2023	NA

<i>Year</i>	<i>Population</i>
2030	NA
2040	NA
2050	NA
2060	NA
2070	NA

4. List source or method for the calculation of current and projected population size. 2019 population is obtained from TWDB database (Ennis +Waxahachie). 2019 population is obtained from TWDB LLP provides wholesale services to about 20 customers, who may have several water sources. Therefore, the served population is not definable.

#### 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:

<i>Wholesale Customer</i>	<i>Contracted Amount (Acre-feet)</i>	<i>Previous Year Amount of Water Delivered (acre-feet)</i>
NTWMD	56,050	15,305
City of Huntsville	11,210	8,336
City of Livingston	3,363	2,622

City of Trinity	1,121	605
Waterwood MUD	224	0
Trinity Rural WSC	740	474
Lake Livingston Water Supply & Sewer	893	404

**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):

<i>Year</i>	<i>Treated Water</i>	<i>Raw Water</i>
2019	NA	36,606
2020	NA	52,346
2021	NA	56,744
2022	NA	68,587
2023	NA	61,428
<b>Totals</b>	NA	275,711

*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:

<i>Year</i>	<i>2019</i>	<i>2020</i>	<i>2021</i>	<i>2022</i>	<i>2023</i>
<i>Month</i>					
January	1,708	1,617	1,625	1,335	1,684
February	1,102	1,211	1,753	1,157	1,154
March	1,276	945	1,601	2,738	1,674
April	1,948	2,761	2,318	4,779	1,785
May	4,165	5,665	3,803	7,687	4,911
June	4,800	9,187	10,938	13,256	8,163
July	5,288	7,380	8,472	13,066	9,797
August	3,859	5,732	8,559	5,499	8,699
September	4,851	7,756	6,342	8,349	8,966
October	2,908	6,223	6,768	7,842	9,200

November	1,255	2,707	3,572	1,457	4,105
December	3,447	1,161	994	1,423	1,291
<b>Totals</b>	<b>36,606</b>	<b>52,346</b>	<b>56,744</b>	<b>68,587</b>	<b>61,428</b>

- Wholesale population served and total amount of water diverted for **municipal use** for the previous five years (in acre-feet):

<i>Year</i>	<i>Total Population Served</i>	<i>Total Annual Water Diverted for Municipal Use</i>
2019	NA	13,572
2020	NA	23,398
2021	NA	26,584
2022	NA	27,864
2023	NA	27,746

*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.

<i>Water Type</i>	<i>Source</i>	<i>Amount Authorized</i>
Surface Water	Lake Livingston, Wallisville	403,200
Groundwater	NA	NA
Other	NA	NA

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

- Design daily capacity of system (MGD):

NA

- 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):

<i>Year</i>	NA	NA	NA	NA	NA
<i>Month</i>					
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
November	NA	NA	NA	NA	NA
December	NA	NA	NA	NA	NA
<b>Totals</b>	NA	NA	NA	NA	NA

## 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.

### *C. 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.

### *D. 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.

### *E. Record Management Program*

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

### *F. 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.

### *G. 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.

### *H. 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.

### *I. 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.

*J. 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).*

*K. 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.

**V. 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.

# Texas Commission on Environmental Quality

Water Availability Division  
MC-160, P.O. Box 13087 Austin, Texas 78711-3087  
Telephone (512) 239-4600, 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 beginning May 1, 2009. 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 - Lake Livingston Project
2. Water Right Permit or Certificate Nos. CA 08-4248

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  
 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  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 Chapter 288.  
[http://texreg.sos.state.tx.us/public/readtac%24ext.ViewTAC?tac\\_view=4&ti=30&pt=1&ch=288](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/conserv.html](https://www.tceq.texas.gov/permitting/water_rights/wr_technical-resources/conserv.html)

*Call 512-239-4600 or email to [wcp@tceq.texas.gov](mailto: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, list dates and descriptions of the conservation measures implemented, and the actual amount of water saved.

As the Authority is a wholesale supplier, it has limited control over water use. Therefore, the Authority's water conservation program is predicated on the fact that the implementation of such conservation measures must occur at largely the local level and achievement of significant water conservation savings can only occur if each retail water user sets and implements its own water conservation programs. It is then the Authority's role to encourage and support those initiatives chosen by the wholesale customers in order to promote long term water use efficiency and reduction of wasted water.

7. 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 \_\_\_\_\_ No \_\_\_\_\_

If the targets were not met, please provide an explanation as to why any of the targets were not met, including any progress on that particular target.

As a wholesale supplier, the Authority has limited access to the data, such as the population and water usage. Therefore, it is difficult to evaluate whether the targets for water saving and water loss were met.

8. 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  No

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

Pages 3-6, section 2.3 "Conservation Goals"

9. 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 2029 and 2034 (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 A)
5. Updated Form 10244 (Appendix A)

10. Form Completed by (Point of Contact): Webster Mangham  
*(If different than name listed above, owner and contact may be different individual(s)/entities)*
- Contact Person Title/Position: Manager, Senior, Technical Services & Basin Planning
- Contact Address: PO Box 60, Arlington TX 76004
- Contact Phone Number: 817-493-5127 Contact Email Address: [REDACTED]

Signature: \_\_\_\_\_

Date: 4/1/2024



# Texas Commission on Environmental Quality

Water Availability Division

MC-160, P.O. Box 13087 Austin, Texas 78711-3087

Telephone (512) 239-4600, FAX (512) 239-2214

## System Inventory and Water Conservation Plan for Agricultural Water Suppliers Providing Water to More Than One User

This form is provided to assist entities in developing a water conservation plan for agricultural water suppliers providing water to more than one user. 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) 239-4600.

*Additional resources such as best management practices (BMPs) are available on 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

Name: Trinity River Authority

Address: P.O. Box 60, Arlington, TX 76018

Telephone Number: (817)4674343 Fax: (817)4170367

Form Completed By: Kristie Munoz

Title: Assistant Manager, Administration, Lake Livingston Project

Signature: \_\_\_\_\_ Date: 03/19/2024

**A water conservation plan for agriculture use (for a system providing agricultural water to more than one user) must include the following requirements (as detailed in 30 TAC Section 288.4). 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.**

### I. BACKGROUND DATA

#### A. Structural Facilities (Supplier's water storage, conveyance, and delivery structures)

1. Description of service area:

Water is diverted directly from Lake Livingston by the water purchasers and the Trinity River Authority has no diversion or conveyance facilities.

2. Total miles of main canals and pipelines:

NA

3. Total miles of lateral canals and pipelines:

NA

4. Description of canal construction:

- a. Miles of unlined canals NA
- b. Miles of lined canals NA
- c. Miles of enclosed pipelines NA
- d. Other NA

5. Description of canal conditions and recent or planned improvements:

NA

6. Reservoir capacity, if applicable:

The storage capacity of Lake Livingston is 1,750,000 AF.

7. Description of pumps and pumping stations:

NA. The Trinity River Authority owns no irrigation pumps or pumping stations.

8. Description of meters and/or measuring devices:

NA. The Trinity River Authority owns no irrigation meters or measuring devices.

9. Description of customer gates and measuring devices:

Each irrigation water purchaser has installed a flow meter to measure the amount of water diverted or uses a pump run timer and pump rating curve to calculate the amount of water diverted.

10. Description of any other structural facilities not covered above:

NA

*B. Management Practices*

1. Total water available to district (in acre-feet/year): Lake Livingston - 351,600 AF

- a. Maximum water rights allocation to district: Lake Livingston - 351,600 AF
- b. Water right number(s): CA 08-4248
- c. Other water contracted to be delivered by district: NA

2. Average annual water diverted by district (in acre-feet/year): None

3. Average annual water delivered to customers (in acre-feet/year): None

4. Delivery efficiency (percentage): NA

5. Historical diversion and deliveries for the previous three years (in acre-feet/year):

<i>Year</i>	<i>Total Water Diverted Annually</i>	<i>Irrigation Water Delivered Annually</i>	<i>Municipal Water Delivered Annually</i>	<i>Total Water Delivered Annually</i>	<i>Estimated Delivery Efficiency (%)</i>
2021	NA	25,353	43,486	68,839	NA
2022	NA	31,933	28,515	60,448	NA
2023	NA	28,017	28,335	56,352	NA
<b>Average</b>	NA	28,434	33,445	61,879	NA

6. Description of practices and/or devices used to account for water deliveries:

Each irrigation water purchaser has installed a flow meter to measure the amount of water diverted or uses a pump run timer and pump rating curve to calculate the amount of water diverted.

7. Water pricing policy:

Irrigation water is sold at the same flat rate cost per acre-foot as municipal and industrial water as established by the Authority's Board of Director in Resolution No. R-1611 adopted in February 2023.

8. Operating rules and policies which encourage water conservation (if a separate document, include it as an attachment to the Water Conservation Plan):

Prior to 2000, irrigation water was sold using a declining block rate at significantly lower rates than municipal and industrial water. In 2000, the irrigation rate was increased to a much higher fixed rate per acre-foot and is the same rate as that charged for municipal and industrial water at \$95/AF.

9. Provide specific, quantified 5-year and 10-year targets for water savings or system efficiency below, including maximum allowable losses for the storage and distribution system. Water savings may be represented in acre-feet or in water use efficiency.

Quantified 5-year and 10-year targets for water savings and water loss:

5-year goal:

Water savings in acre-feet            or water use efficiency 90 %  
 Water loss

10-year goal:

Water savings in acre-feet            or water use efficiency 90 %  
 Water loss

10. Describe the practice(s) and/or device(s) which will be utilized to measure and account for the amount of water diverted from the source(s) of supply:

The amount of water diverted will be determined by either flow meters or timers that record pump run time.

11. Describe the monitoring and record management program for water deliveries, sales, and losses:

Each diverter provides a report of the amount of water diverted each month. Additionally, TRA personnel read all measuring devices each month to ensure the accuracy of the information provided by the diverters.

12. Describe any programs that will be used for water loss control, leak detection, and repair:

There are no water losses or leaks associated with any TRA facility. All water is diverted directly from Lake Livingston by each purchaser.

13. Describe any program for customer assistance in the development of on-farm water conservation and pollution prevention plans and/or measures:

There is no irrigation water diverted from Lake Livingston for on-farm use.

14. Describe any other water conservation practice, method, or technique which the supplier shows to be appropriate for achieving conservation (if applicable):

NA

### C. User profile

1. Total number of acres or square miles in service area: approx. 2,350 acres
2. Average number of acres irrigated annually: approx. 1,175 acres
3. Projected number of acres to be irrigated in 10 years: approx. 1,175 acres
4. Number of active customers taking delivery of water by the system: 7
5. Total irrigation water delivered annually (in acre-feet): 28,434 AF

6. Types of crops grown by customers:

There are no crops being irrigated. Only golf course greens and fairways and open spaces.

7. Types of irrigation systems used by customers:

Water is either pumped directly from Lake into surface spray system or pumped directly from Lake into pond and repumped to surface spray system.

8. Types of drainage systems used by customers:

Drainage is typically by open ditch with one location using a French drain system, then to open ditch.

9. Any additional relevant information on irrigation customers:

Agriculture water use around Lake Livingston is currently limited to the irrigation or recreational areas.

10. List of municipal customers and number of acre-feet allocated annually:

Top three in 2023, HRWSS - 8,336 AF; LRWSS - 2,622 AF; TCRWSS - 605 AF

11. List of industrial and other large customers and number of acre-feet allocated annually:

In 2023, Tenaska Power Plant - 4,909 AF

*D. Additional Requirements*

*In addition to the above information, please attach the following as required by Title 30, Texas Administrative Code, §288.4(3).*

1. A requirement in every wholesale water supply contract entered into or renewed after official adoption of the plan (by either ordinance, resolution, or tariff), 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 in 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 applicable provisions of 30 TAC Chapter 288.
2. Evidence of official adoption of the water conservation plan and goals, by ordinance, rule, resolution, or tariff, indicating that the plan reflects official policy of the supplier.
3. Documentation of coordination with the Regional Water Planning Group(s) in order to ensure consistency with the appropriate approved regional water plan(s).

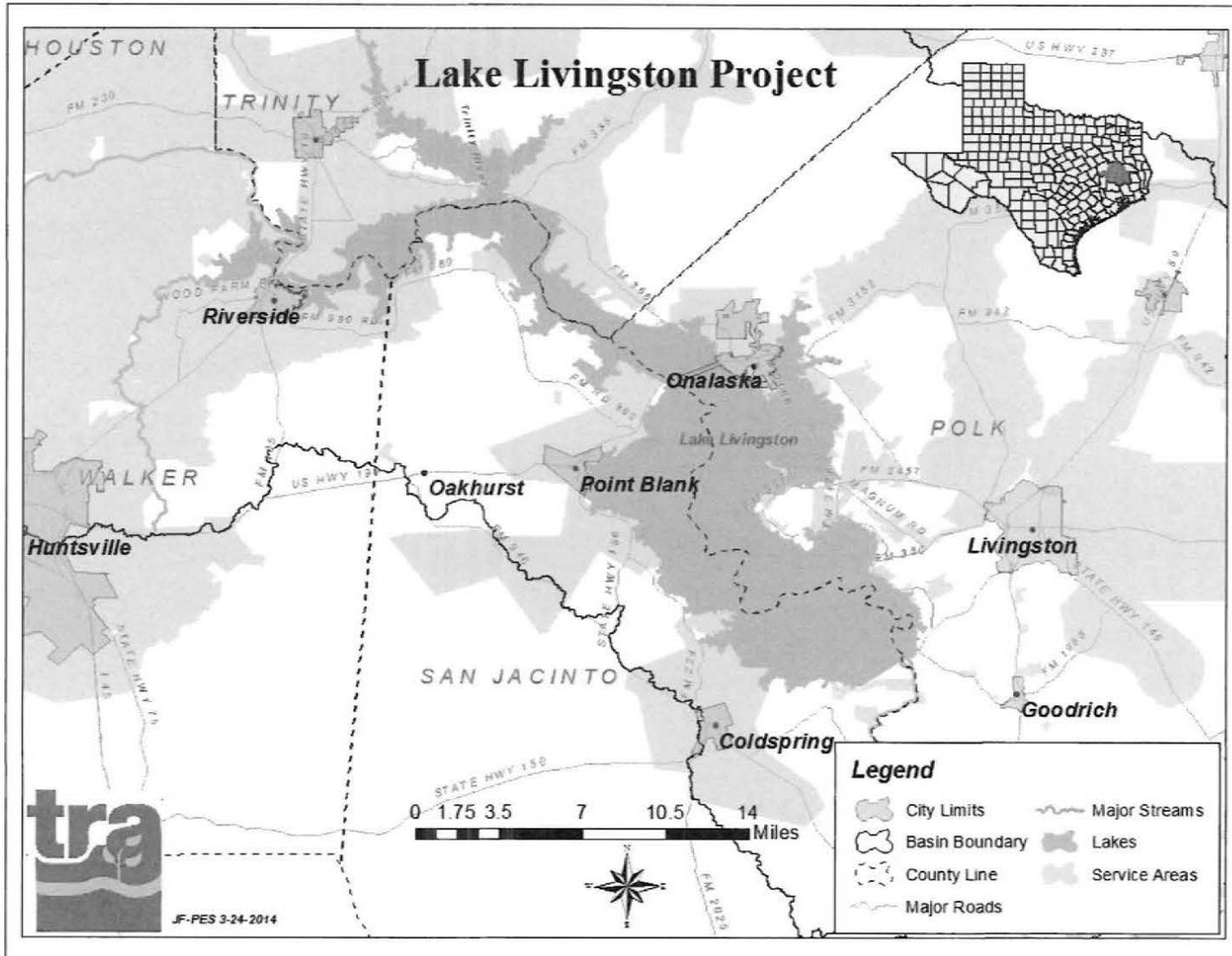
**II. Water Conservation Plans submitted with a Water Right Application for New or Additional State Water**

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.

# Lake Livingston Project Service Area



Projected Populations and Water Demands for 2020 - 2070 for  
TRA Lake Livingston Project Customer Cities

WUG	Projected Water Demand for					
	2020	2030	2040	2050	2060	2070
Huntsville (Trinity Basin)	1,336	1,369	1,390	1,419	1,448	1,474
Trinity	420	435	425	406	419	438
Livingston	2,594	2,865	3,076	3,263	3,423	3,553

Source:

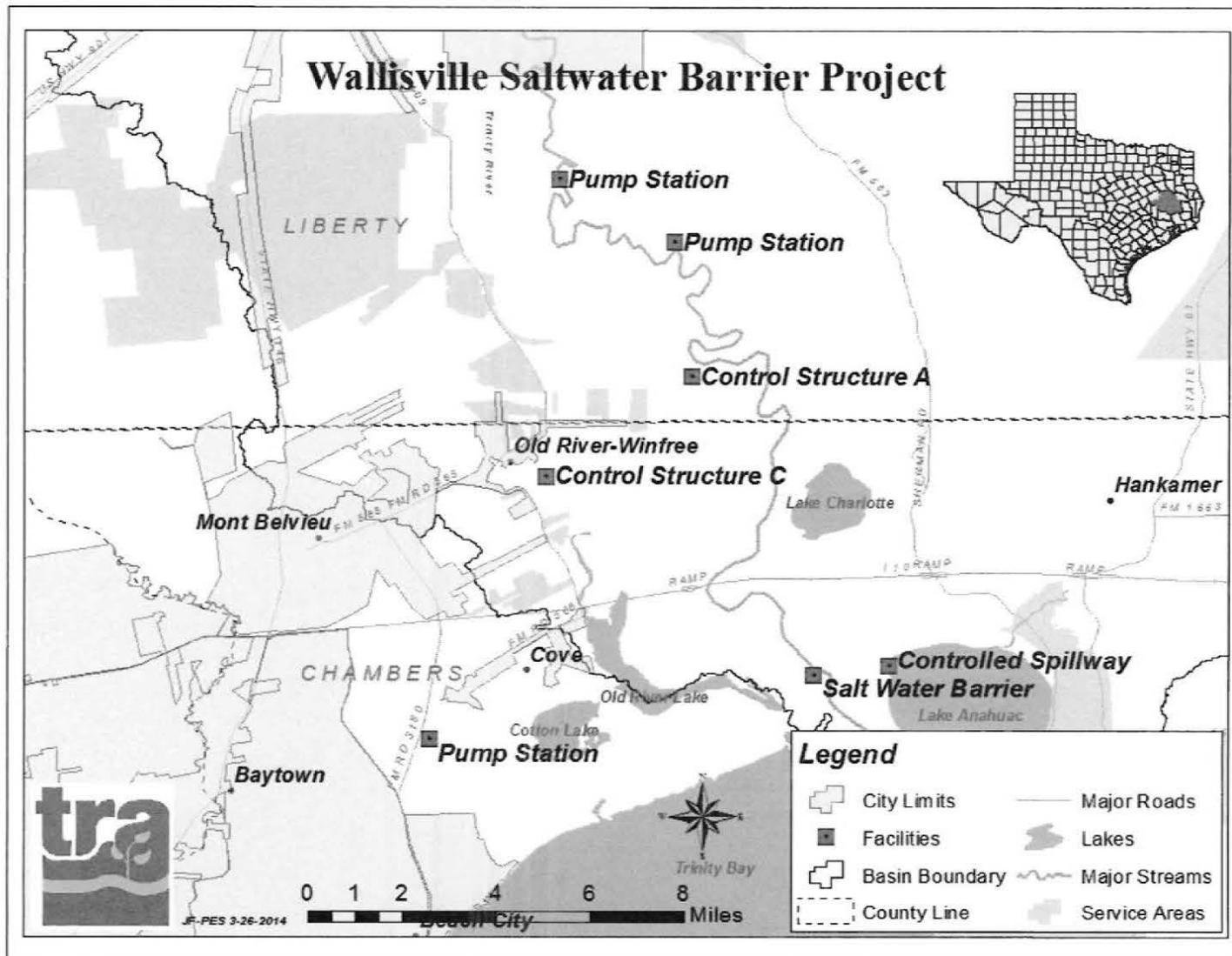
<http://www.twdb.texas.gov/waterplanning/data/projections/2022/demandproj.asp>

WUG	Projected Population for					
	2020	2030	2040	2050	2060	2070
Huntsville (Trinity Basin)	6,903	7,234	7,473	7,697	7,871	8,012
Trinity	3,807	4,117	4,149	4,032	4,175	4,368
Livingston	6,183	6,908	7,477	7,963	8,359	8,678

Source: <http://www.twdb.texas.gov/waterplanning/data/projections/2022/popproj.asp>

# Appendix B

## Wallisville Saltwater Barrier Project Service Area



# Appendix C

## Wallisville Project Operation Plan for Hydraulic Structures

August 2, 1999

The project will be operated to prevent salinity intrusion from impacting water supply withdrawals from the Trinity River system. For normal flow conditions the project structures will remain open so that river flows and stages are not influenced. For low flow conditions, the project gates will be closed to form a barrier to salinity intrusion. The barrier will not intentionally impound water or maintain pool levels above normal conditions to the extent practical. Upstream and downstream river level will be recorded and maintained as a permanent record documenting water level impacts.

A detailed description of each operational mode is shown below. Each mode will be in effect as long as the associated conditions persist. These descriptions are only provided as a guide. Actual operations will also depend on the judgment and experience of the operations staff.

### 1. Normal operation

Condition: The **Trinity River flow to Trinity Bay** is equal or greater than 2,000 cfs.

Operation: All spillway gates, lock gates, and Control Structure A will remain fully open so that flow and navigation are unimpeded. River flows will be monitored so that the **Trinity River flow to Trinity Bay** can be estimated and recorded. The value will normally be estimated from upstream gage reports at Romayor, less any downstream diversions. The daily diversion rate will be obtained from the Trinity River Authority.

### 2. Salinity monitoring

Condition: The **Trinity River flow to Trinity Bay** is less than 2,000 cfs.

Operation: All spillway gates, lock gates, and Control Structure A will remain fully open so that flow and navigation are unimpeded. Begin monitoring salinity levels at permanent gage sites and begin gathering additional portable measurements to detect salinity moving upstream toward the project. (Permanent salinity and water level gages are located immediately upstream and downstream of the spillway.)

### 3. Salinity control operation

Condition: Salinity measurements indicate salinity intrusion is threatening water supplies.

Operation: The spillway gates and lock gates are closed to form a salinity barrier. Limited gate openings are made as needed to pass remaining river flow. The lock is operated to pass boat traffic on a scheduled basis. Operations for salinity control are described in detail below: Passing remaining river flow – While the project is in salinity control operation, some gate openings will generally be required to pass any remaining river flow. An initial tainter gate setting of two gates at 4 feet is suggested for nominal flow conditions. Lock gate openings may be substituted for tainter gate openings. An

increasing pool level will indicate the need for increased gate openings. A falling level will indicate the need for smaller openings or complete closure. In the long term, the gates will be adjusted so that the pool elevation tracks within a target range. The target range is as follows:

The **upper limit** is 0.5 feet above the average tide level.

The **lower limit** is 0.5 feet below the average tide level.

The average tide level will be computed from readings taken every 6 hours for the previous 48-hour period.

Preventing backflow- While the project is in salinity control operation, any remaining gate openings must periodically be closed in response to rising tides to prevent back flow. A positive head of at least 0.1-foot is required to prevent salinity intrusion through tainter gate openings. A larger positive head (0.3-foot) is required for lock gate openings.

Conditions: Salinity measurements indicate intrusion is a threat at Structure A and  
Operation: Close Structure A and leave closed until resumption of normal river flows.

Structure C is the temporary sheet pile barrier on the Old River just downstream of the confluence with The Cutoff. Structure C will be placed on a temporary basis during drought conditions to prevent salinity intrusion at the CWA pumping plant on the Old River. Placement will not be required until this plant is made operational, and the barrier will only be in place when required to prevent salinity intrusion. When Structure C is in place, Structure A will be opened as required to allow flow to the pump station.

#### 4. **Special salinity control operations**

Condition: During sustained regular salinity control operations, salinity levels are increasing in the project.

Operation: To lower the rate of intrusion and decrease pool salinity levels, the following steps may be taken: (Listed in the order of preference. Conventional operations should be resumed as soon as possible.)

- Suspend lock operations during back flow tide conditions;
- Raise the target range for the pool by as much as 1 foot. Coordination and approval from the District's environmental staff will be required prior to changing the target range. Releases from Lake Livingston may be needed to fill the pool to the higher target; and
- Request special releases from Lake Livingston to flush salt from the project.

Condition: During regular salinity control operations the tide level rises to 4 feet NGVD or greater and gate overtopping is beginning to occur.

Operation: All four spillway gates and the lock gates will remain closed.

5. **Hurricane operations**

Condition: High winds and tides are eminent at the project, and an evacuation order has been issued to operation personnel by the District office.

Operation: Begin emergency operation procedures as follows:

Prior to evacuation – First, the lock gates and Structure A will be opened. Next, the spillway gates will be closed to protect them from storm conditions. The project should be re-staffed as soon as conditions allow. A shutdown plan should be coordinated with Emergency Management so that it may be included in the Districts overall hurricane plan;

Returning from evacuation – If the project has been flooded by tidal water or river flows, open all spillway gates to allow floodwater to exit. The gates should not be opened until hurricane wind conditions subside and the flood level at the project is less than +7.0 NGVD (so that the initial gate opening sequence will not result in an overtopping condition). Gates will be opened in a rotational sequence starting with the inner most gates with each gate opened 4 feet in turn until all gates are fully open. All gates will remain open to allow exit of flood water until flooding conditions subside; and

Subsequent operation – If the Trinity River flow to Trinity Bay is equal or greater than 2,000 cfs then resume normal operating status with all gates and lock open. If the Trinity River flow to Trinity Bay is less than 2,000 cfs then resume monitoring followed by salinity control operations if necessary.

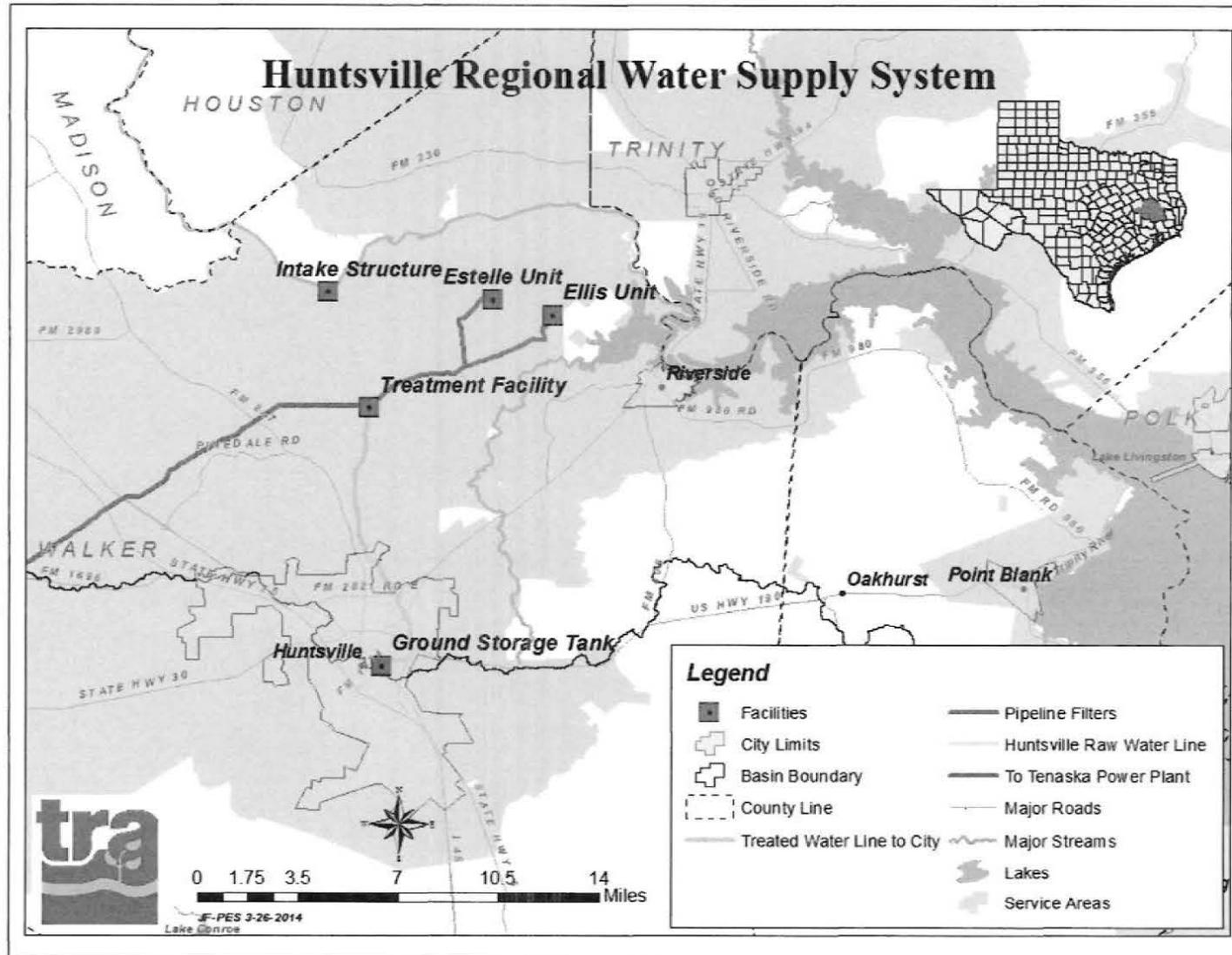
6. **Other special operations**

Condition: Special gate operations are desired for wildlife or environmental management.

Operation: The District's environmental staff may direct special operations for wildlife or environmental management purposes provided that the project and its salinity control function are not compromised.

# Appendix D

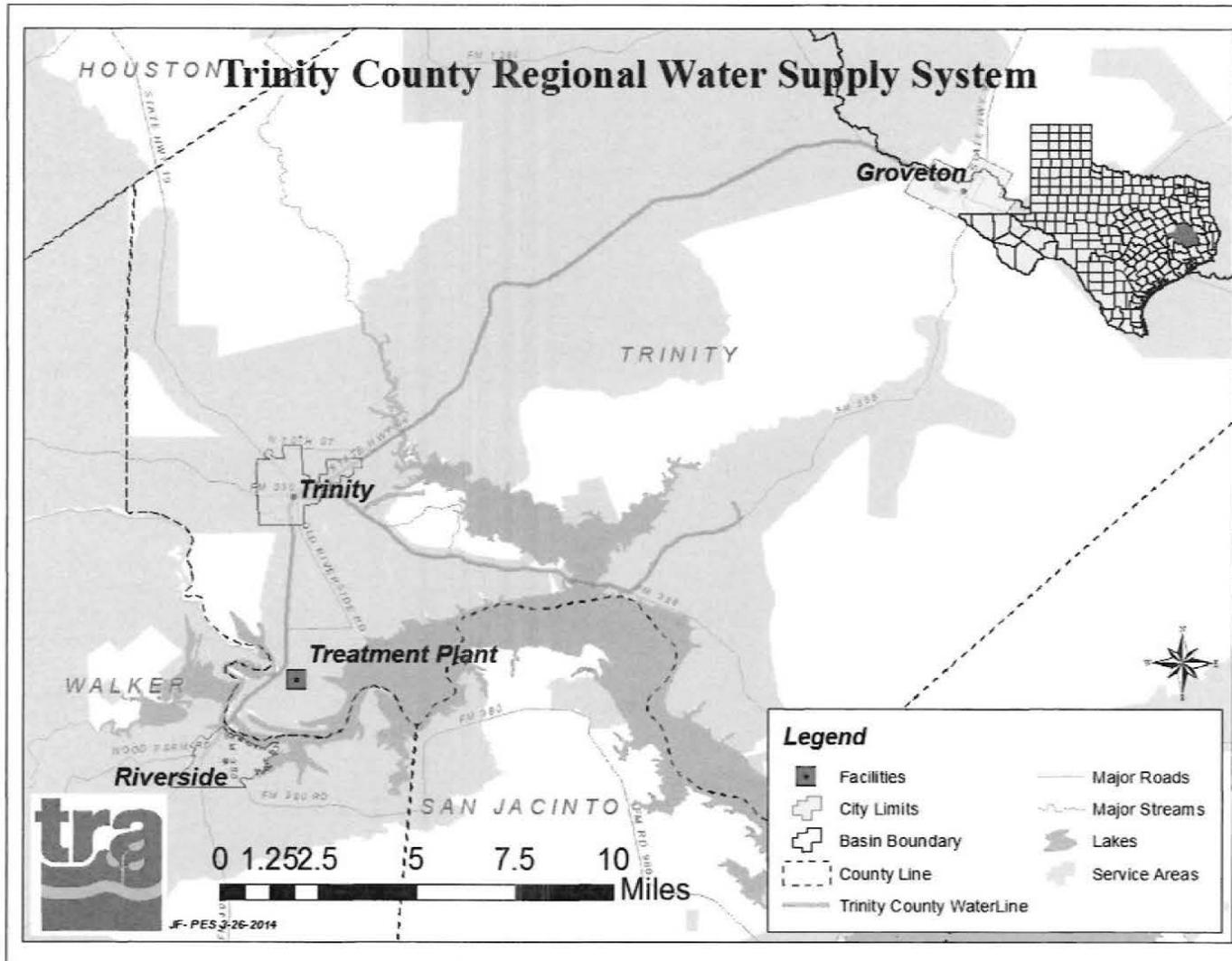
## Huntsville Regional Water Supply System Service Area





# Appendix F

## Trinity County Regional Water Supply System Service Area



RESOLUTION NO. R-1163-4

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE TRINITY RIVER AUTHORITY OF TEXAS ADOPTING A WATER CONSERVATION AND DROUGHT CONTINGENCY PLAN FOR THE LAKE LIVINGSTON AND WALLISVILLE SALTWATER BARRIER PROJECTS, THE HUNTSVILLE REGIONAL WATER SUPPLY SYSTEM, TRINITY COUNTY REGIONAL WATER SUPPLY SYSTEM AND LIVINGSTON REGIONAL WATER SUPPLY SYSTEM AND RESCINDING RESOLUTION NO. R-1163-3

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 always guarantee an uninterrupted water supply for all purposes; and

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

WHEREAS, the Board of Directors of the Authority desires to adopt the revised Water Conservation Plan and Drought Contingency Plan for the Lake Livingston and Wallisville Saltwater Barrier Projects and the Huntsville Regional Water Supply System, Trinity County Regional Water Supply System and Livingston Regional Water Supply System; and

WHEREAS, on the April 27, 2005, the Board of Directors of the Authority passed and approved Resolution No. R-1163 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 THE LAKE LIVINGSTON AND WALLISVILLE SALTWATER BARRIER PROJECTS; and

WHEREAS, on April 27, 2005, the Board of Directors of the Authority passed and approved Resolution No. R-1164 captioned as follows:

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE TRINITY RIVER AUTHORITY OF TEXAS ADOPTING A DROUGHT CONTINGENCY PLAN FOR THE HUNTSVILLE REGIONAL WATER SUPPLY SYSTEM; and

WHEREAS, on April 27, 2005, the Board of Directors of the Authority passed and approved Resolution No. R-1165 captioned as follows:

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE TRINITY RIVER AUTHORITY OF TEXAS ADOPTING A DROUGHT CONTINGENCY PLAN FOR THE LIVINGSTON REGIONAL WATER SUPPLY SYSTEM; and

WHEREAS, on April 27, 2005, the Board of Directors of the Authority passed and approved Resolution No. R-1166-1 captioned as follows:

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE TRINITY RIVER AUTHORITY OF TEXAS ADOPTING A DROUGHT CONTINGENCY PLAN FOR THE TRINITY COUNTY REGIONAL WATER SUPPLY SYSTEM AND RESCINDING RESOLUTION NO. R-1166; and

WHEREAS, on August 24, 2005, the Board of Directors of the Authority passed and approved Resolution No. R-1172-1 captioned as follows:

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE TRINITY RIVER AUTHORITY OF TEXAS ADOPTING A WATER CONSERVATION PLAN FOR AGRICULTURAL WATER SUPPLIERS FOR THE LAKE LIVINGSTON PROJECT AND RESCINDING RESOLUTION NO. R-1172; and

WHEREAS, on the June 24, 2009, the Board of Directors of the Authority passed and approved Resolution No. R-1163-1 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 THE LAKE LIVINGSTON AND WALLISVILLE SALTWATER BARRIER PROJECTS AND RESCINDING RESOLUTION NO. R-1163; and

WHEREAS, on June 24, 2009, the Board of Directors of the Authority passed and approved Resolution No. R-1164-1 captioned as follows:

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE TRINITY RIVER AUTHORITY OF TEXAS ADOPTING A DROUGHT CONTINGENCY PLAN FOR THE HUNTSVILLE REGIONAL WATER SUPPLY SYSTEM AND RESCINDING RESOLUTION NO. R-1164; and

WHEREAS, on June 24, 2009, the Board of Directors of the Authority passed and approved Resolution No. R-1165-1 captioned as follows:

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE TRINITY RIVER AUTHORITY OF TEXAS ADOPTING A DROUGHT CONTINGENCY PLAN FOR THE LIVINGSTON REGIONAL WATER SUPPLY SYSTEM AND RESCINDING RESOLUTION NO. R-1165; and

WHEREAS, on June 24, 2009, the Board of Directors of the Authority passed and approved Resolution No. R-1166-1 captioned as follows:

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE TRINITY RIVER AUTHORITY OF TEXAS ADOPTING A DROUGHT CONTINGENCY PLAN FOR THE TRINITY COUNTY REGIONAL WATER SUPPLY SYSTEM AND RESCINDING RESOLUTION NO. R-1166; and

WHEREAS, on June 24, 2009, the Board of Directors of the Authority passed and approved Resolution No. R-1172-1 captioned as follows:

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE TRINITY RIVER AUTHORITY OF TEXAS ADOPTING A WATER CONSERVATION PLAN FOR AGRICULTURAL WATER SUPPLIERS FOR THE LAKE LIVINGSTON PROJECT AND RESCINDING RESOLUTION NO. R-1172; and

WHEREAS, on April 23, 2014, the Board of Directors of the Authority passed and approved Resolution No. R-1163-2 captioned as follows:

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE TRINITY RIVER AUTHORITY OF TEXAS ADOPTING A WATER CONSERVATION AND DROUGHT CONTINGENCY PLAN FOR THE LAKE LIVINGSTON AND WALLISVILLE SALTWATER BARRIER PROJECTS, THE HUNTSVILLE REGIONAL WATER SUPPLY SYSTEM, TRINITY COUNTY REGIONAL WATER SUPPLY SYSTEM AND LIVINGSTON REGIONAL WATER SUPPLY SYSTEM AND RESCINDING RESOLUTION NOS. R-1163-1, R-1164-1, R-1165-1, R-1166-1 AND R-1172-1; and

WHEREAS, on April 24, 2019, the Board of Directors of the Authority passed and approved Resolution No. R-1163-3 captioned as follows:

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE TRINITY RIVER AUTHORITY OF TEXAS ADOPTING A WATER CONSERVATION AND DROUGHT CONTINGENCY PLAN FOR THE LAKE LIVINGSTON AND WALLISVILLE SALTWATER BARRIER PROJECTS, THE HUNTSVILLE REGIONAL WATER SUPPLY SYSTEM, TRINITY COUNTY REGIONAL WATER SUPPLY SYSTEM AND LIVINGSTON REGIONAL WATER SUPPLY SYSTEM AND RESCINDING RESOLUTION NO. R-1163-2, and

WHEREAS, it is in the public interest that Resolution No. R-1163-3 be rescinded.

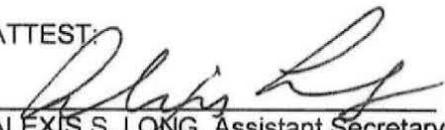
NOW THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE TRINITY RIVER AUTHORITY OF TEXAS:

- (1) That Resolution No. R-1163-3 adopted by the Board of Directors of the Authority on April 24, 2019, is hereby rescinded;
- (2) That the Board of Directors hereby adopts Resolution No. R-1163-4 approving and adopting the revised Water Conservation Plan and Drought Contingency Plan for the Lake Livingston and Wallisville Saltwater Barrier Projects, and the Huntsville Regional Water Supply System, Trinity County Regional Water Supply System and Livingston Regional Water Supply System, 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

- (4) during which this Resolution and the subject matter thereof has been discussed, considered and formally acted upon;
- (5) That the General Manager or his designee is hereby directed to file a copy of the Plan and this Resolution with the TCEQ and the Texas Water Development Board in accordance with Title 30, Chapter 288 of the Texas Administrative Code and to the Region H Water Planning Group; and
- (6) 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.

ADOPTED this 24 day of April, 2024.

  
C. DWAYNE SOMERVILLE, President  
Board of Directors  
Trinity River Authority of Texas

ATTEST:  
  
ALEXIS S. LONG, Assistant Secretary  
Board of Directors  
Trinity River Authority of Texas



**Attachment 3\_WS6.1.B\_WS6.2.B\_R-1159-4**

**RESOLUTION NO. R-1159-4**

**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-1159-3**

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 Reservoirs; and

WHEREAS, on April 27, 2005, the Board of Directors of the Authority adopted Resolution No. R-1159 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**

WHEREAS, on April 27, 2005, the Board of Directors of the Authority adopted Resolution No. R-1160 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**

WHEREAS, on April 27, 2005, the Board of Directors of the Authority adopted Resolution No. R-1161 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**

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, on April 24, 2019, the Board of Directors of the Authority adopted Resolution No. R-1159-3 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-1159-2, R-1160-2 AND R-1161-2

WHEREAS, it is in the public interest that Resolution R. 1159-3 be rescinded.

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

- (1) That Resolution No. R-1159-3 adopted by the Board of Directors of the Authority on April 24, 2019, is hereby rescinded;

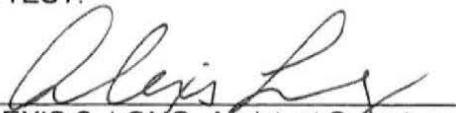
- (2) That the Board of Directors hereby adopts Resolution No. R-1159-4 approving and adopting the revised Water Conservation and Drought Contingency Plan for Navarro Mills, Bardwell, and Joe Pool Reservoirs, in substantially the form presented, and that the Authority commits to implement the requirements 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.

ADOPTED this 24<sup>th</sup> day of April, 2024.



C. DWAYNE SOMERVILLE, President  
Board of Directors  
Trinity River Authority of Texas

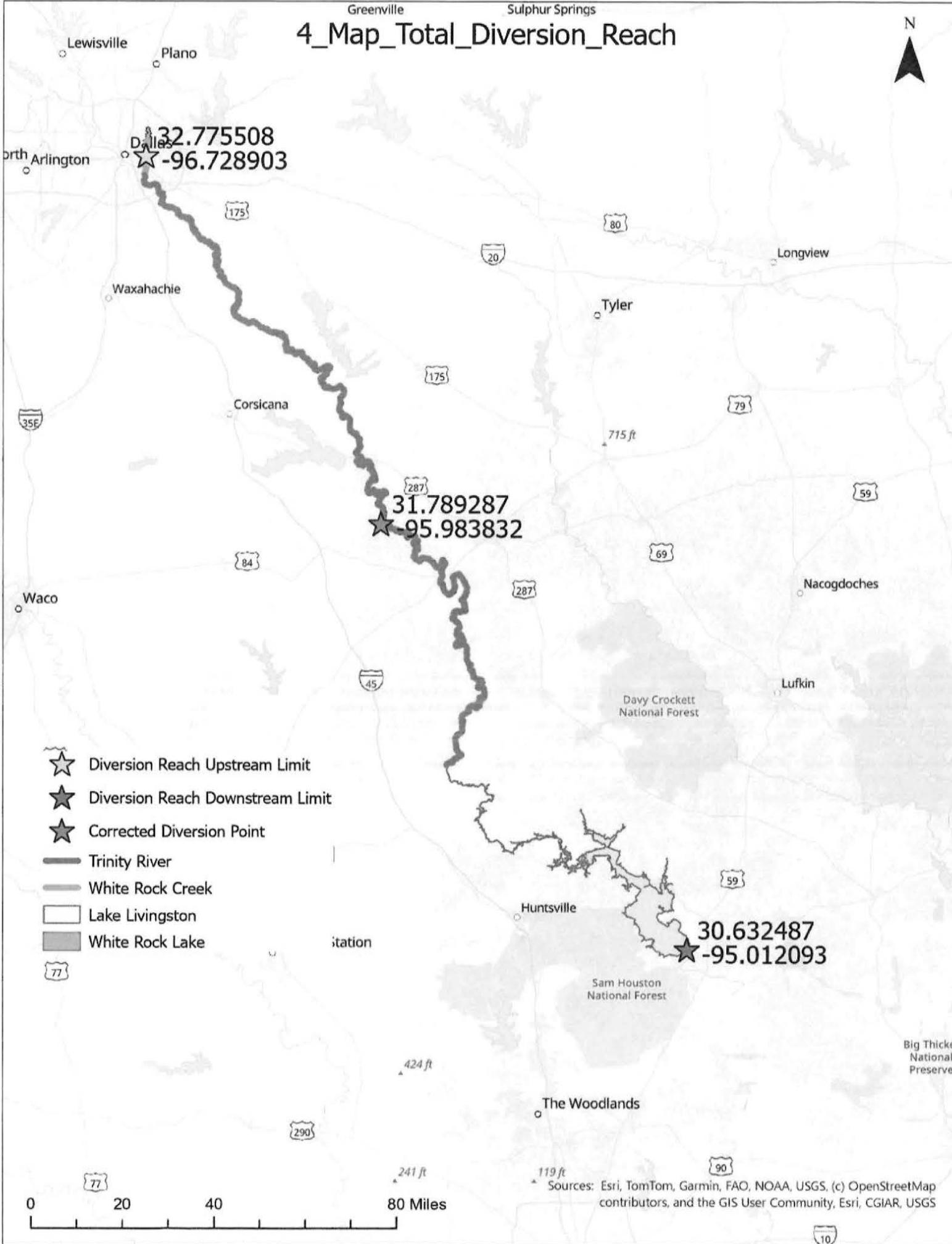
ATTEST:



ALEXIS S. LONG, Assistant Secretary  
Board of Directors  
Trinity River Authority of Texas



Greenville Sulphur Springs  
4\_Map\_Total\_Diversion\_Reach

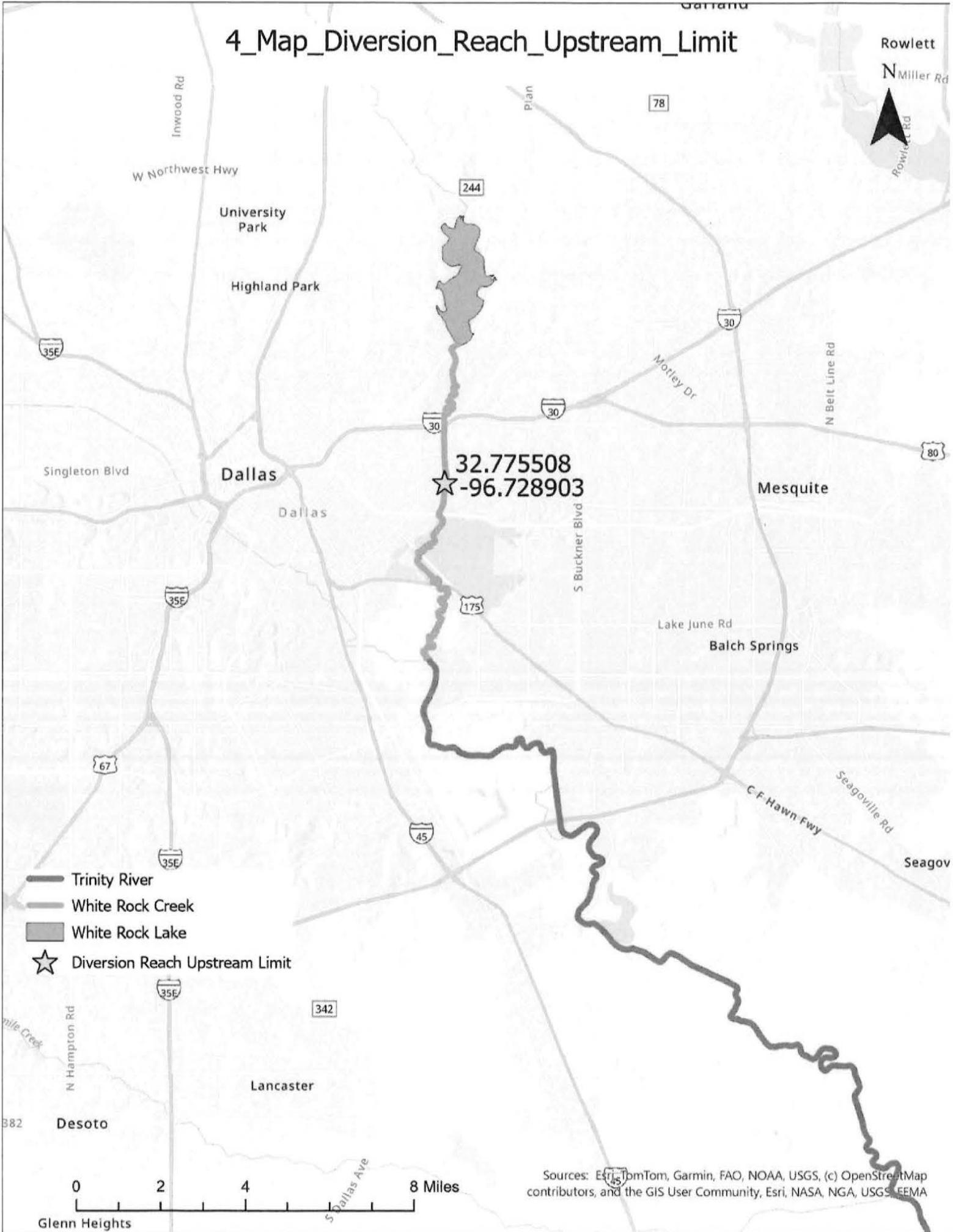


- ☆ Diversion Reach Upstream Limit
- ★ Diversion Reach Downstream Limit
- ★ Corrected Diversion Point
- Trinity River
- White Rock Creek
- Lake Livingston
- White Rock Lake

0 20 40 80 Miles

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Esri, CGIAR, USGS

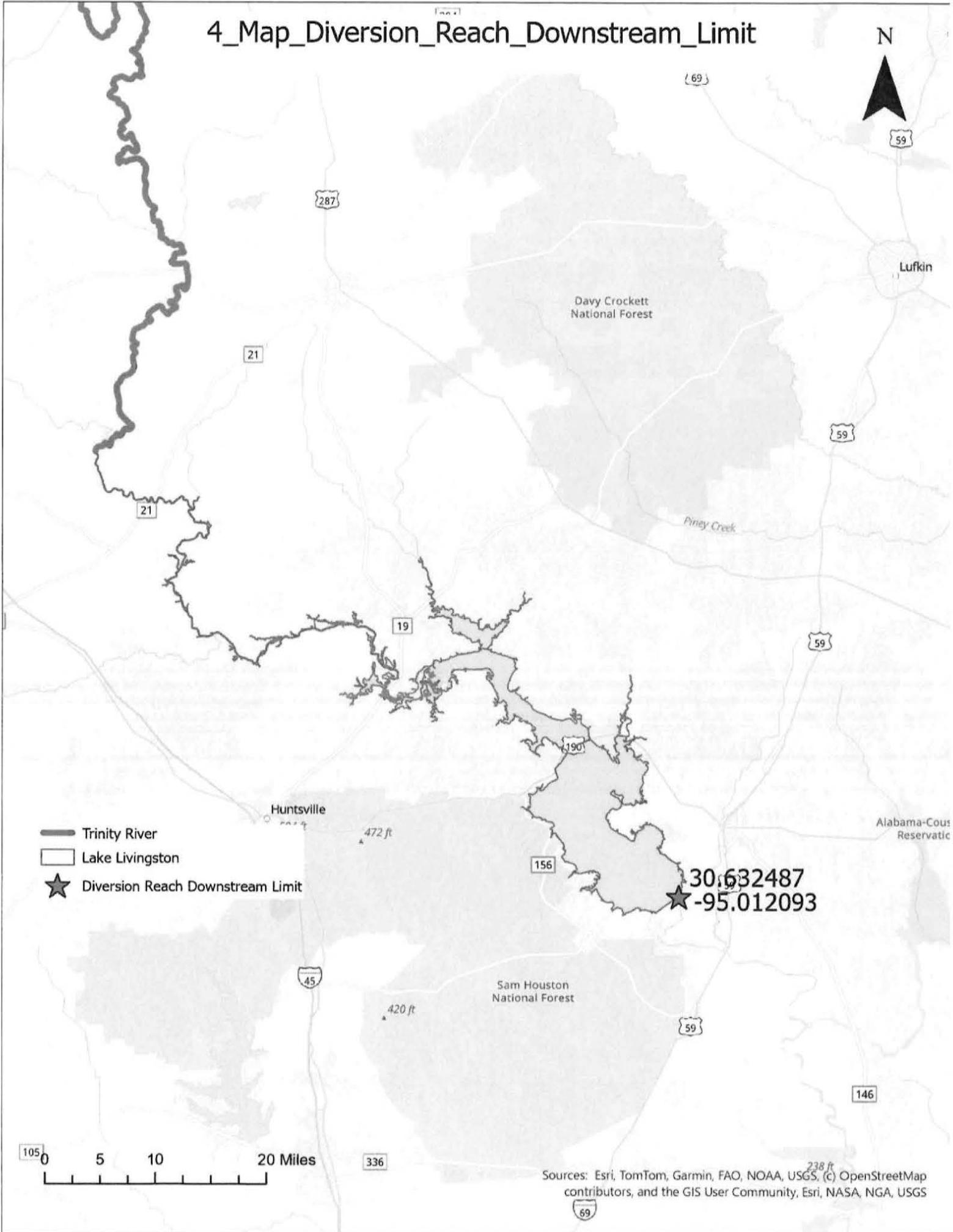
# 4\_Map\_Diversion\_Reach\_Upstream\_Limit



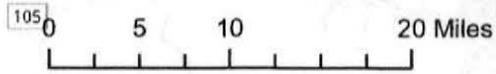
- Trinity River
- White Rock Creek
- White Rock Lake
- ★ Diversion Reach Upstream Limit

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Esri, NASA, NGA, USGS, FEMA

# 4\_Map\_Diversion\_Reach\_Downstream\_Limit



- Trinity River
- Lake Livingston
- ★ Diversion Reach Downstream Limit



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Esri, NASA, NGA, USGS

# 4\_Map\_Corrected\_Diversion\_Point



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Esri, NASA, NGA, USGS, FEMA