

NOTICE OF OPEN MEETING OF THE  
SOUTH CENTRAL TEXAS REGIONAL  
WATER PLANNING GROUP

TAKE NOTICE that a meeting of the South Central Texas Regional Water Planning Group (SCTRWPG) as established by the Texas Water Development Board will be held on Thursday, November 2, 2023 at 9:30 AM both in person and virtually. The in person meeting will be held at the San Antonio Water System's Customer Service Building, Room CR-145, 2800 US Hwy 281 North, San Antonio, TX 78212. You can attend virtually on WebEx at <https://saws.webex.com/saws/j.php?MTID=md9d17d2ddd4c974fe9e9926def623d6c>. The planning group members will consider and may take action regarding:

1. (9:30 AM) Roll-Call
2. Public Comment (Limited to 3 minutes)
3. Approval of the Minutes from the Previous Meeting of the South-Central Texas Regional Water Planning Group (SCTRWPG)
4. Discussion and Appropriate Action Regarding Filling Existing Vacancies and Vacancies to Result from Future Term Expirations or Resignations
5. Discuss and Consider Action to Authorize the San Antonio River Authority to Negotiate and Execute an Amendment to the TWDB Contract to Increase the Total Project Cost and Committed Funds for the 2026 RWP
6. Discuss and Consider Action to Authorize San Antonio River Authority to Negotiate and Execute an Amendment with Black & Veatch based on TWDB Contract to Increase the Total Project Cost and Committed Funds for the 2026 RWP
7. Status Reports and Communications by TWDB
8. Status Reports and Communications Related to Regional Water Planning including reports by the Chair, Regional Liaisons, Groundwater Management Area Representatives, and Members of the Planning Group
9. Presentation by Technical Consultant Regarding Schedule and Progress Updates
10. Presentation by Technical Consultant Regarding Infeasible Water Management Strategy Evaluation Results
  - a. Public Comment Regarding Infeasible Water Management Strategy Evaluation Results
11. Presentation by Technical Consultant Regarding Process for Identifying Potentially Feasible Water Management Strategies
  - a. Public Comment Regarding the Process for Identifying Potentially Feasible Water Management Strategies
12. Discussion and Appropriate Action Regarding Process for Identifying Potentially Feasible Water Management Strategies
13. Review, Discuss, and Consider Action Regarding Water Availability, Existing Water Supplies, and Potential Need for Preparation and Submittal of a Hydrologic Variance Request to the TWDB
14. Discussion and Appropriate Action Regarding the Establishment of Additional Subcommittees
15. Schedule 2024 SCTRWPG Meetings
16. Schedule and Potential Agenda Items for the Next Meeting of the SCTRWPG
17. Public Comment (Limited to 3 minutes)
18. Adjourn

*As per agenda items 10 & 11, 31 TAC §357.21(g)(2) states at a minimum, notice must be provided at least 14 days prior to the meeting, written comment must be accepted for 14 days prior to the meeting and considered by the RWPG members prior to taking the associated action, and meeting materials must be made available on the RWPG website for a minimum of seven days prior to and 14 days following the meeting.*

Comments and submissions may be submitted through email to [ccastillo@sariverauthority.org](mailto:ccastillo@sariverauthority.org) and include “**Region L South Central Texas Water Planning Group Meeting Public Comment**” in the subject line of the email. Any written documentation can be sent to Tim Andruss, Chair, South Central Texas Regional Water Planning Group, c/o San Antonio River Authority, Attn: Caye Castillo, 100 E. Guenther Street, San Antonio, TX 78204. Please direct any questions to Caye Castillo at (210) 302-4258, [ccastillo@sariverauthority.org](mailto:ccastillo@sariverauthority.org).

**AGENDA ITEM NO.3 – APPROVAL OF THE MINUTES FROM THE PREVIOUS MEETING OF THE SCTRWPG**

**Minutes of the South Central Texas Regional Water Planning Group  
August 3, 2023**

Chair Andruss called the hybrid meeting to order at 9:30 a.m., held both in person and through WebEx online platform.

**25 of the 31** voting members, or their alternates, were present.

**Voting Members Present:**

Tim Andruss	Weldon Riggs
Ryan Bayle	Roland Ruiz
John Byrum	Darrell Brownlow for Dianne Savage
Curt Campbell	Mitchell Sowards
Debbie Farmer	Jonathan Stinson
Steve Graham	Thomas Taggart
Tom Jungman	Dianne Wassenich
Russell Labus	Adam Yablonski
Glenn Lord	Dan Yoxall
Scooter Mangold	
Dan Meyer for Andrew McBride	
Gary Middleton	
Travis Pruski	
Robert Puente	
Vanessa Puig Williams	
Humberto Ramos	

**Voting Members Absent:**

Will Conley  
Charlie Flatten  
Terrell Graham  
Daniel Meyer  
Darren Simmons  
Vic Hilderbran

**Non-Voting Members Present:**

Michele Foss, Texas Water Development Board (TWDB)  
Jami McCool, TX Dept. of Agriculture  
Ronald Fieseler, Region K Liaison

**Non-Voting Members Absent:**

Iliana Delgado, TCEQ  
Don McGhee, Region M Liaison  
Charles Wiedenfeld, Region J Liaison  
Carl Crull, Region N Liaison  
Marty Kelly, TX Department of Parks and Wildlife  
Rusty Ray, Texas Soil & Water Cons. Board

*Beginning with the February 11, 2016, meeting of the South Central Texas Regional Water Planning Group, all recordings are available for the public at [www.regionltexas.org](http://www.regionltexas.org).*

## **AGENDA ITEM NO.1: ROLL CALL**

Ms. Caye Castillo took roll call.

## **AGENDA ITEM NO.2: PUBLIC COMMENT**

Ms. Rachel Cywinski provided a comment regarding public activity and participation in the RWP process. Ms. Cywinski mentioned how she views the Region L website to be difficult and uninviting for the public as they may be unable to easily access meeting materials. She provided a recommendation to Region L to consider how they are inviting the public about the work they are doing.

Mr. Ted Boriack provided a comment regarding Gonzalez County and how in his experience this county has a lot of groundwater pumping which concerns the landowners. Mr. Boriack encourages the planning group members to keep subsidence in mind and look into these water issues.

## **AGENDA ITEM NO.3: APPROVAL OF THE MINUTES FROM THE PREVIOUS MEETING OF THE SOUTH CENTRAL TEXAS REGIONAL WATER PLANNING GROUP (SCTRWPG)**

Mr. Riggs motioned to approve the minutes from the previous meeting. Mr. Mangold seconded, the motion passed.

## **AGENDA ITEM NO.4: DISCUSSION AND APPROPRIATE ACTION REGARDING FILLING EXISTING VACANCIES AND VACANCIES TO RESULT FROM FUTURE TERM EXPIRATIONS OR RESIGNATIONS**

Chair Andruss provided the recommendation from the Executive Committee to the RWPG regarding the nominees slated to fill vacancies to result from future term expirations. Chair Andruss provided the nominees in attendance to introduce themselves to the RWPG.

Mr. Kelso introduced himself to the RWPG and provided background on his work in Municipalities.

Mr. Middleton motioned to approve the recommendation by the Executive Committee, second by Mr. Puente, motion approved by consensus.

### Recommended Nominees:

- Water Districts:
  - o Tim Andruss
  - o Roland Ruiz
- Water Districts (Non-Groundwater District)
  - o Humberto Ramos

- Counties:
  - o Andra Wisian
- Agricultural:
  - o Thomas Jungman
- Small Business:
  - o Mitchell Sowards
- Public:
  - o Dianne Wassenich
- Municipalities:
  - o Ryan Kelso

#### **AGENDA ITEM NO.5: STATUS REPORTS AND COMMUNICATIONS BY TWDB**

Ms. Foss provided an update from TWDB. TWDB provided a reminder of upcoming deadlines regarding draft population and municipal demand projections as well as the Technical Memorandum deliverable.

Ms. Foss informed the RWPG of what occurred during the June 27, 2023 RWPG Chairs Call to include bills of interest from the 88<sup>th</sup> Legislative Session, update of 6<sup>th</sup> Cycle Regional Water Planning Activities, and the Interregional Planning Council.

Ms. Foss provided a presentation on Infeasible Water Management Strategies (WMS). Ms. Foss included background on the task, what RWPGs should be reviewing, and explanation on how to determine infeasibility. Ms. Foss also provided the RWPG with key targets on how to identify infeasible WMSs and important deadlines and deliverables.

#### **AGENDA ITEM NO.6: STATUS REPORTS AND COMMUNICATIONS RELATED TO REGIONAL WATER PLANNING INCLUDING REPORTS BY THE CHAIR, REGIONAL LIAISONS, GROUNDWATER MANAGEMENT AREA REPRESENTATIVES AND MEMBERS OF THE PLANNING GROUP**

Chair Andruss provided a reminder that regional liaisons need to review the by-laws and guidance on their responsibilities. Chair Andruss also provided an update on GMA 15.

Ms. Wassenich stated that at this time she is not seeing conflict between Region L and Region K but it is early in the process and if anything changes she will update the RWPG.

Mr. Fiesler provided an announcement regarding his upcoming retirement on September 30<sup>th</sup> and stated that there is nothing of significance to report from Region K.

Mr. Yablonski informed the group of a Rural Community Outreach Subcommittee meeting that was held on July 28<sup>th</sup> at the Nueces River Authority. He included that the invited participants were informed about background on Region L and the RWP process.

## **AGENDA ITEM NO.7: PRESENTATION BY THE SAN ANTONIO WATER SYSTEM ON THE 88<sup>TH</sup> LEGISLATIVE SESSION**

Ms. Parker provided an 88<sup>th</sup> Legislative Session overview to include key issues that were focused on legislatively and data on the bills and resolutions filed. Ms. Parker included details on infrastructure funding including SB 28/SJR 75 by Perry/King creating the Texas Water Fund and the New Water Supply for Texas Fund; and SB 30 by Huffman/Bonnen which included \$1 Billion for SB 28/SJR 75. Additionally, she provided details on bills passed/not passed impacting regional planning and relevant Sunset bills. Her presentation is available online at [www.regionltexas.org](http://www.regionltexas.org).

## **AGENDA ITEM NO.8: PRESENTATION BY TECHNICAL CONSULTANT REGARDING:**

### **a) SCHEDULE AND PROGRESS UPDATES**

Ms. Gonzalez provided a conceptual schedule for the Region L plan development and emphasized major deadlines to include Hydrologic Variance (Task 3); process and analysis of infeasible WMSs (Task 4B); and process for identifying potentially feasible WMSs (task 5A).

### **b) PUPULATION AND MUNICIPAL WATER DEMAND PROJECTIONS AND SUPPORTING DATA**

Ms. Gonzalez provided a summary of the TWDB data released to date and the process for examining the draft population and municipal water demand projections. Ms. Gonzalez included the justification needed for revision requests, a summary of Population and Municipal Demand Workgroup review activities, and the WUG feedback that was received on both population and water demand projections. Her presentation is available online at [www.regionltexas.org](http://www.regionltexas.org).

Discussion ensued regarding the process for reviewing populations and migration scenarios for rural counties. Ms. Gonzalez explained the migration scenarios and what populations projections are based upon.

## **AGENDA ITEM NO.9: DISCUSSION AND APPROPRIATE ACTION REGARDING RECOMMENDATION FOR FEEDBACK TO TWDB ON POPULATION AND MUNICIPAL WATER DEMANDS DATA**

Motion by Ms. Wassenich to accept recommendations from the Population and Water Demands Workgroup regarding feedback to the Texas Water Development Board on population and water demands projections revisions; and Authorize the technical consultant to continue working with the TWDB regarding population and water demands revisions, on behalf of the Regional Water Planning Group. Second by Mr. Taggart, motion passed by consensus.

**AGENDA ITEM NO.10: DISCUSSION AND APPROPRIATE ACTION REGARDING THE ESTABLISHMENT OF ADDITIONAL SUBCOMMITTEES**

Ms. Gonzalez provided a conceptual schedule for Region L plan development, workgroups that Region L has historically established to tackle complex technical subjects, and relevant past workgroups for 2021 plan development. Ms. Gonzles highlighted the Modeling and Reuse Workgroup and stated that while not anticipated, she recommends that the RWPG establish a Modeling and Reuse Workgroup in case technical review from the RWPG becomes necessary.

Mr. Ramos recommend a Modeling and Reuse Workgroup to be established by the RWPG, seconded by Mr. Pruski. Motion passed by consensus.

**AGENDA ITEM NO.11: DISCUSSION AND APPROPRIATE ACTION REGARDING TASK BUDGET AMENDMENTS**

Ms. Gonzalez stated that the required effort to address WUG Population and Municipal Demand Revisions has exceeded the Task 2B budget to the point that an amendment is needed and is requesting to move budget from Task 7 (Drought Response) to Task 2B (Population and Municipal Water Demand Projections) that a required effort to address WUP Population and Municipal Demand Revisions has exceeded the Task 2B budget.

Motion by Ms. Wassenich to approve the request to move budget from Task 7 (Drought Response) to Task 2B (Population and Municipal Water Demand Projections), second by Mr. Campbell. Motion approved by consensus.

**AGENDA ITEM NO.12: SCHEDULE AND POTENTIAL AGENDA ITEMS FOR THE NEXT MEETING OF THE SCTRWPG**

The next SCTRWPG meeting is scheduled for November 2, 2023, at 9:30 AM.

**AGENDA ITEM NO.13: PUBLIC COMMENT**

Mr. Boriack provided a comment regarding attending potential future workgroup meetings and reiterated the importance to include focus on pumping levels, sustainability of well fills, and water level monitoring.

**AGENDA ITEM NO.11: ADJOURN**

Mr. Andruss motioned to adjourn. Mr. Ruiz seconded the motion, motion passed.



**AGENDA ITEM NO.7 – STATUS REPORTS AND COMMUNICATIONS BY TWDB**

# Region L TWDB Update November 2, 2023

## Upcoming Items of Note

- **Amended Contracts** – Amended contracts incorporating additional funding approved by the Board in August
- **Projections and Water Demands** -TWDB staff will present all projections to the Board for adoption **November 9, 2023**

## TWDB Contract Amendment for Region L

- **Increase in Committed Funds and Total Project Costs – \$209,105**
- Catch up to fund work associated with critical project tasks such as infeasible WMS evaluation and rural outreach activities
- Revisions and clarifications in Contract Exhibits A and C
- Identification of water supply projects that also provide flood mitigation benefits
- Rural outreach to address supply needs of rural/at-risk populations

# Region L TWDB Update November 2, 2023

## **RWPG Chairs Call Held September 28, 2023**

- Update on fall contract amendments and revisions to Exhibits A and C
- Review and Discussion of Infeasible Water Management Strategies Task
- Update on the Interregional Planning Council
- Demonstration of Updated Secure Agency Reporting Application (SARA)
- Next Chairs Call will be scheduled for date TBD **January 2024**

## **Interregional Planning Council**

- Next meeting: **November 30** in Austin with virtual option to attend

## **New One-Pagers / Educational Materials**

- Uncertainty in Regional Water Planning
- <https://www.twdb.texas.gov/waterplanning/rwp/education/index.asp>

# Information on Proposition 6/SB 28/SJR 75

## Texas Water Fund

### **One-time \$1B supplemental appropriation from Texas General Revenue**

- New Water Supply for Texas Fund (at least \$250 million)
- SWIFT
- CWSRF/DWSRF
- Rural Water Assistance Fund
- Texas Water Development Fund II
- Statewide Water Public Awareness Account (new)

### **Texas Water Fund Cannot Fund the following:**

- Economically Distressed Areas Program (EDAP)
- Flood Infrastructure Fund (FIF)
- Agricultural Water Conservation Fund

**New Water Supply for Texas Fund\*, Rural Water Assistance Fund, CWSRF, and DWSRF allow for grants/principal forgiveness for loans.**

# Information on Proposition 6/SB 28/SJR 75

## Texas Water Fund

### **Legislative Priorities for Fund Use (No particular order)**

- Water infrastructure for rural political sub/municipalities pop <150,000
- Projects where federal/state permitting has been completed
- Projects associated with the statewide water public awareness program
- Water loss mitigation projects
- Water conservation strategies

**If the Texas Water Fund is created by constitutional amendment, TWDB will prepare rules and an Intended Use Plan (IUP) for eligible financial assistance programs. TWDB will then disburse funds via application and review process which includes formal commitment from TWDB.**

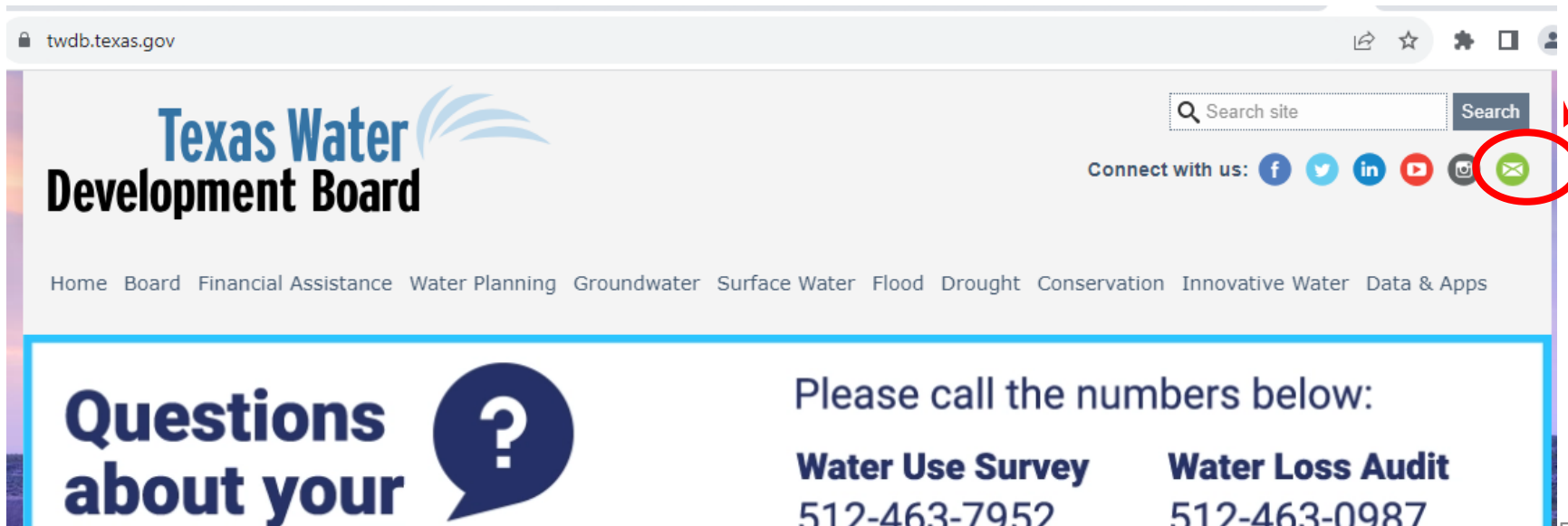
**Public-Private Partnership projects are eligible for funding from the New Water Supply for Texas Fund if the project meets requirements in GC Chapter 2267 and applicant is a political subdivision of the state of Texas.**

# Information on Proposition 6/SB 28/SJR 75 Texas Water Fund

## How can I get involved and/or receive updates after the election?

The TWDB will begin seeking early public input on implementing the Texas Water Fund legislation beginning this fall. Subscribe to our “General Information” and “Financial Assistance” email lists to receive the latest information on how you can participate.

Click Here




The screenshot shows the Texas Water Development Board website. The header includes the logo and a search bar. Below the logo is a navigation menu with links: Home, Board, Financial Assistance, Water Planning, Groundwater, Surface Water, Flood, Drought, Conservation, Innovative Water, and Data & Apps. A social media bar contains icons for Facebook, Twitter, LinkedIn, YouTube, Instagram, and Email. The Email icon is circled in red, with a red arrow pointing to it from the text "Click Here". Below the navigation bar, there is a section titled "Questions about your" with a question mark icon. To the right, there are two columns of contact information: "Please call the numbers below:" followed by "Water Use Survey 512-463-7952" and "Water Loss Audit 512-463-0987".

twdb.texas.gov

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Home Board Financial Assistance Water Planning Groundwater Surface Water Flood Drought Conservation Innovative Water Data & Apps

Questions about your 

Please call the numbers below:

**Water Use Survey**  
512-463-7952

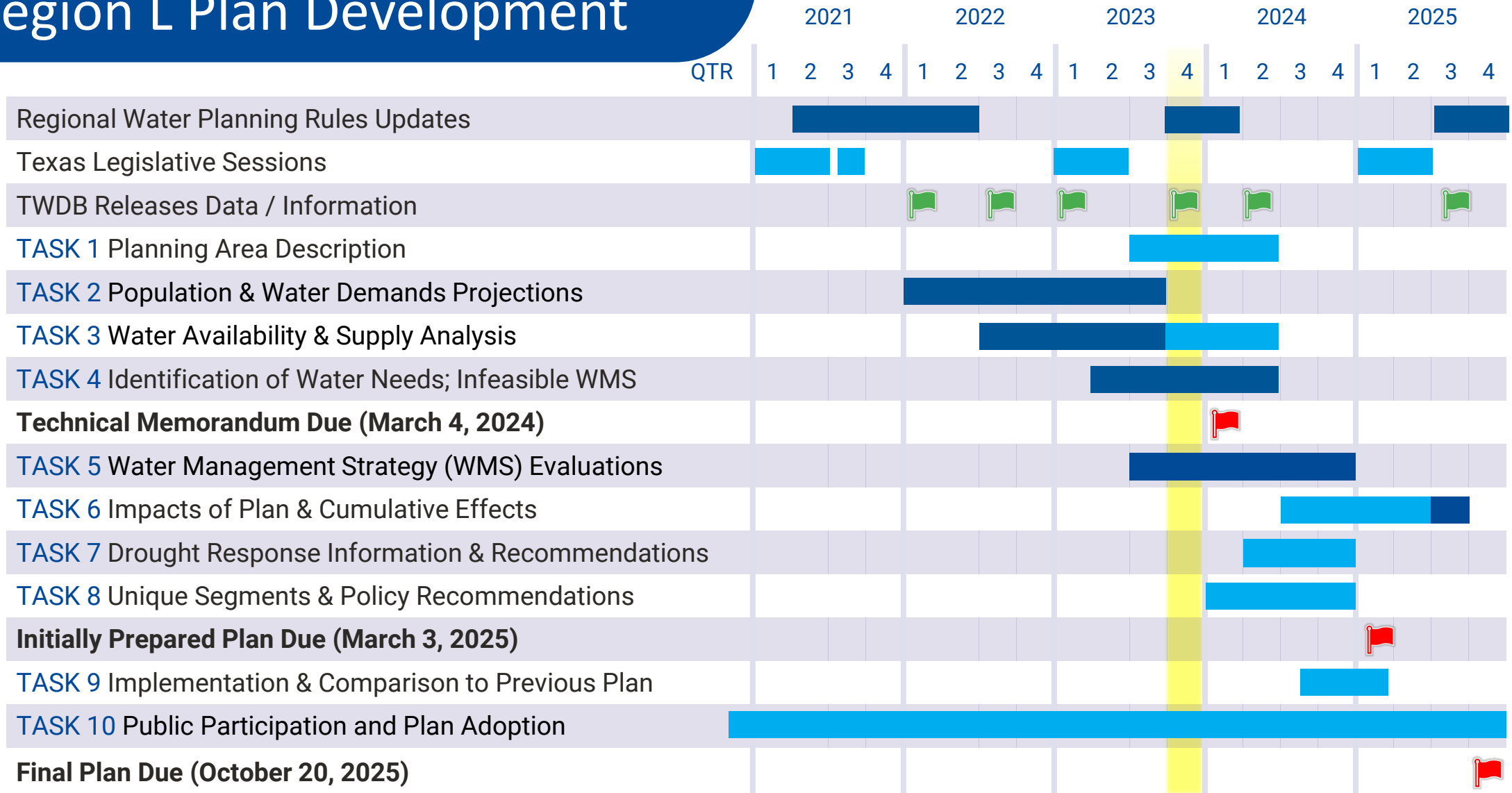
**Water Loss Audit**  
512-463-0987

**AGENDA ITEM NO.9 – PRESENTATION BY TECHNICAL CONSULTANT REGARDING SCHEDULE AND PROGRESS UPDATES**

# Agenda Item 9: Presentation by Technical Consultant Regarding Schedule and Progress Updates



# Conceptual Schedule for Region L Plan Development



■ TWDB Conceptual Schedule

■ B&V Planned Schedule

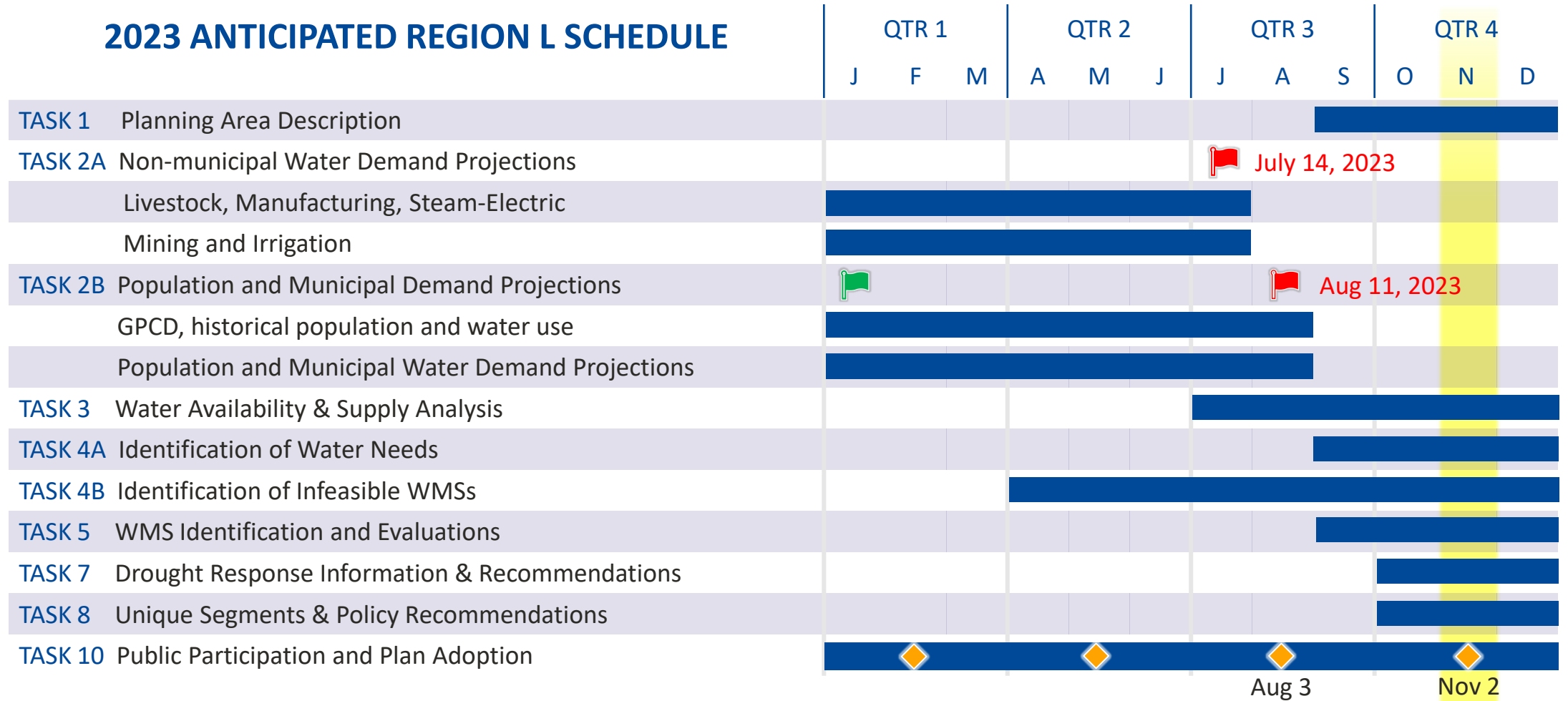


TWDB Data Release



TWDB Deadline

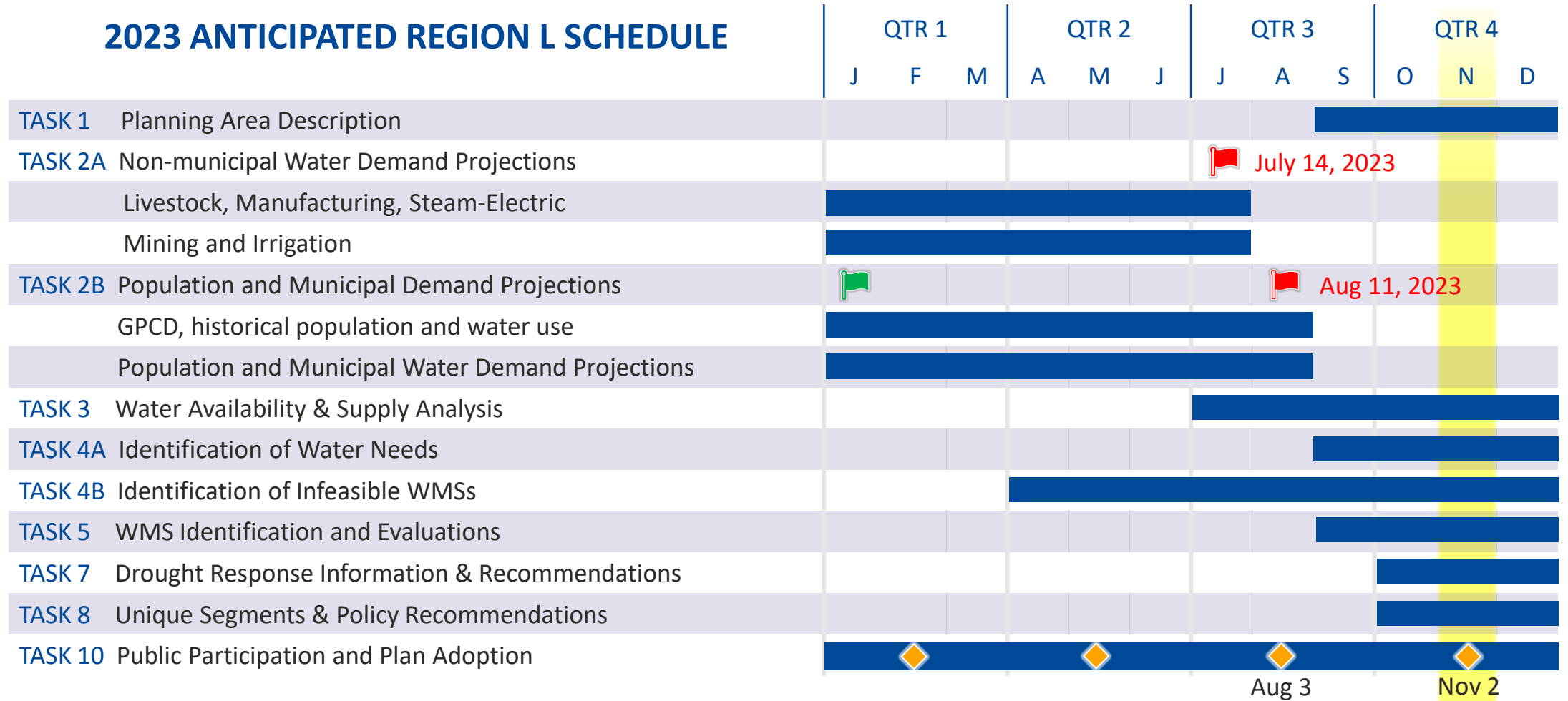
## 2023 ANTICIPATED REGION L SCHEDULE



### LEGEND

- Region L Activities
- 🚩 TWDB Data Release
- 🚩 TWDB Deadline
- ◆ Region L RWPG Meeting

## 2023 ANTICIPATED REGION L SCHEDULE

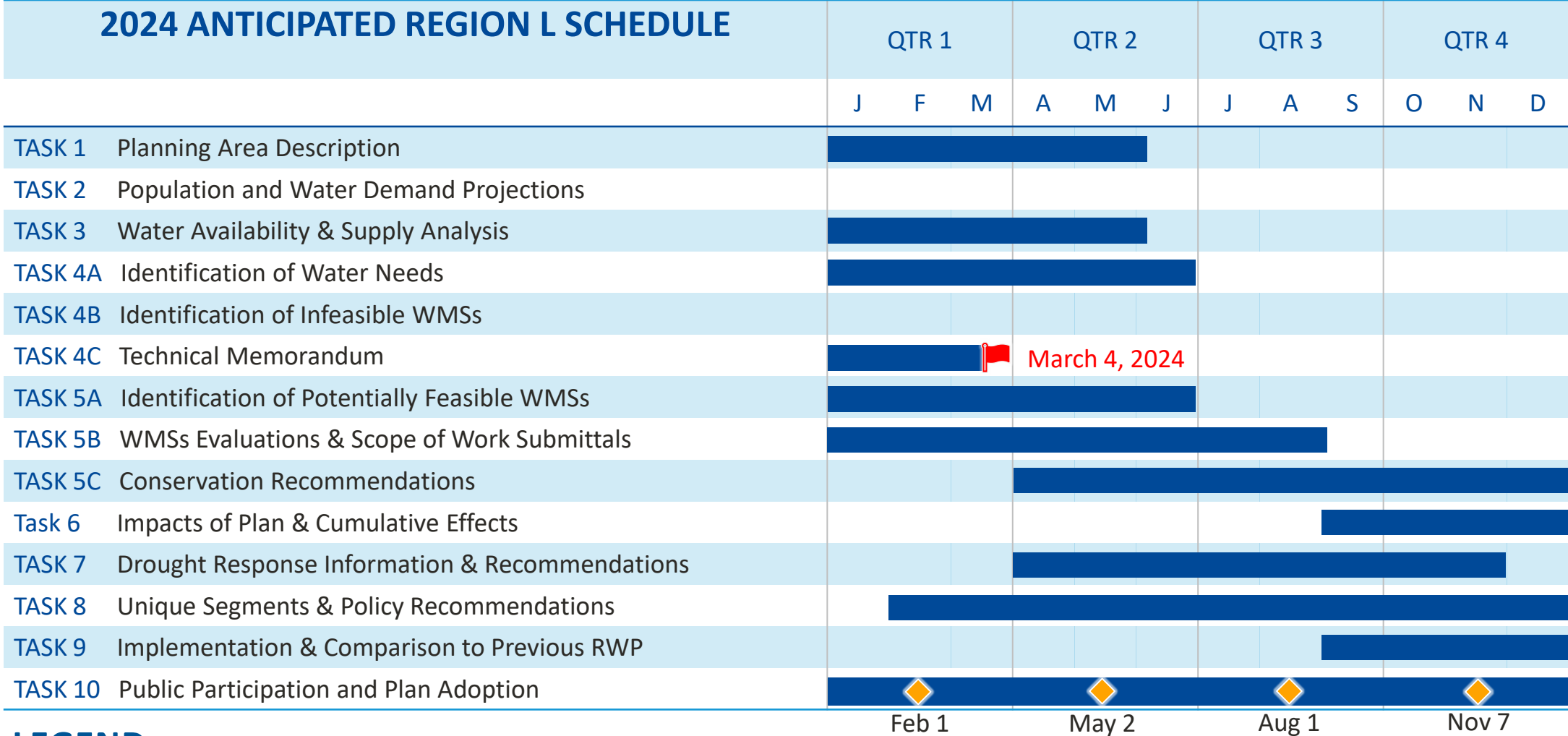


### LEGEND

## NOVEMBER RWPG MEETING TOPICS:

- Hydrologic Variances (Task 3)
- Process and Analysis of Infeasible WMSs (Task 4B)
- Process for Identifying Potentially Feasible WMSs (Task 5A)

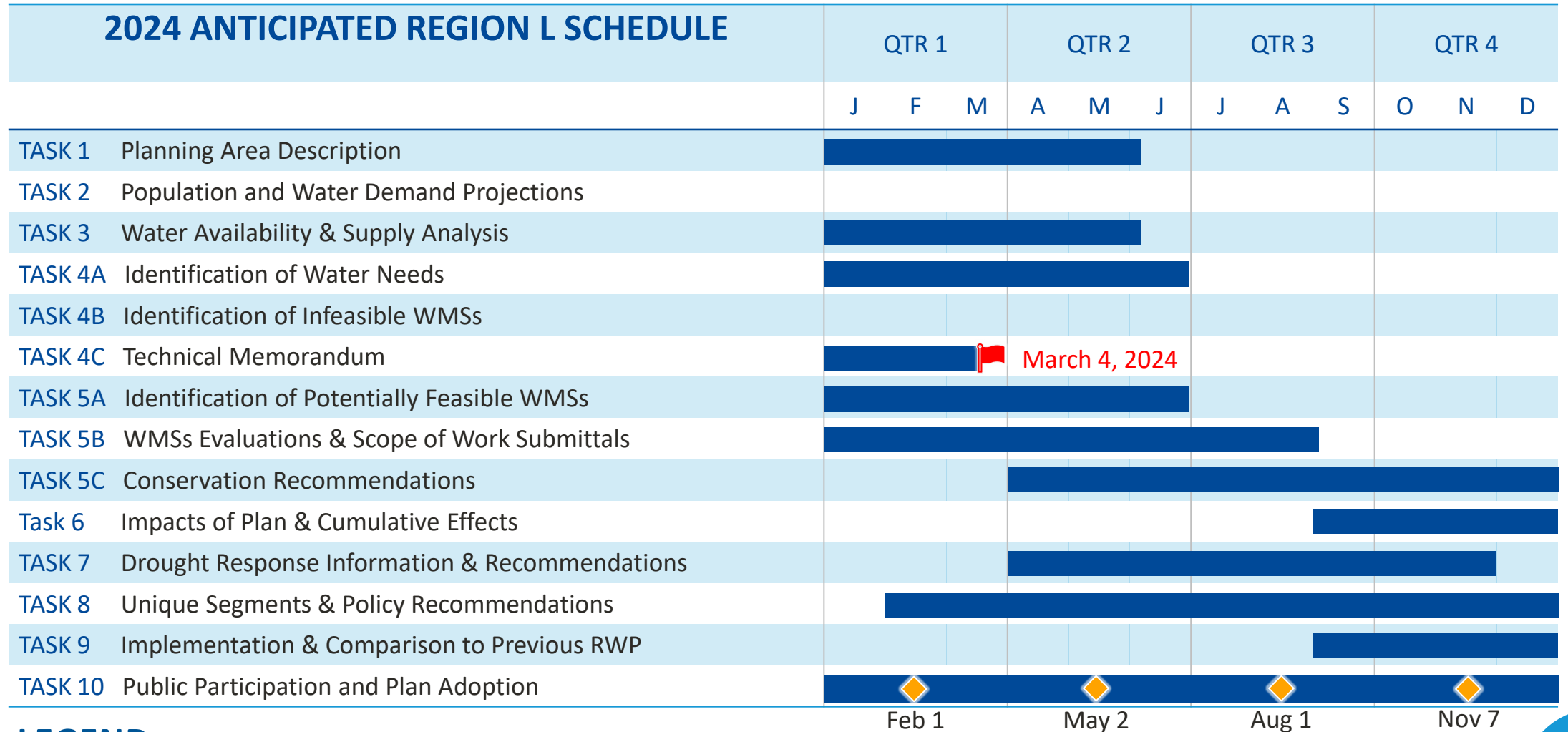
Requires  
14-day  
Notice



**LEGEND**

-  Region L Activities
-  TWDB Data Release
-  TWDB Deadline
-  Region L RWPG Meeting

## 2024 ANTICIPATED REGION L SCHEDULE



### LEGEND

#### FEBRUARY RWPG MEETING TOPICS:

- Scope of Work for Task 5B Approval
- Present and Approve Technical Memorandum (Task 4C)

Requires  
14-day  
Notice

# Update on Completed Efforts

- Completed and submitted a memorandum to TWDB regarding feedback on Population and Municipal Demand Projections (Task 2B)
  - TWDB reviewed and provided responses to SCTRWPG.
  - TWDB will consider for approval population and demands for all RWPGs at November 9<sup>th</sup> Board Meeting
  - More information in subsequent slides.
- Completed review of hydrologic assumptions and variances for this cycle (Task 3)
  - Will present more information in subsequent agenda item today.
- Completed review of 2021 Plan WMS to determine if any may be infeasible (Task 4B)
  - Will present results in subsequent agenda item today.
- Completed development of process to identify potentially-feasible WMSs (Task 5A)
  - Will present the proposed process in subsequent agenda item today.

# Update on Ongoing Efforts

- **Continuing Water Supplies and WMS Outreach (Task 3)**
  - Will send survey to WUGs soliciting feedback on Existing Water Supplies and future WMSs.
  - Will continue engaging WUGs to obtain feedback.
- **Continue development of Technical Memorandum (Task 4C)**
  - Will present to SCTRWPG for approval at February 2024 meeting.
- **Will begin developing scope of work for potential WMSs evaluations (Task 5B)**
  - Will present to SCTRWPG for approval at February 2024 meeting.
- **Continuing Interregional Coordination Efforts (Task 10)**
  - Regular calls with Region K consultant team.
  - Connecting with Regions G, N, and P, as needed.

# TWDB Feedback on Requested Population and Water Demand Revisions

## POPULATION

### • TWDB Recommended Revisions Proposed by Region L

- Alamo Heights
- Castroville
- Cibolo
- County Line SUD
- County-Other, Atascosa
- County-Other, Bexar
- County-Other, Caldwell
- County-Other, Calhoun
- County-Other, Dewitt
- County-Other, Gonzales
- County-Other, Guadalupe
- County-Other, Medina
- County-Other, Wilson
- Creedmoor-Maha WSC

- Crystal Clear SUD
- East Central SUD
- Elmendorf
- Fair Oaks Ranch
- Garden Ridge
- Gonzales County WSC
- Guadalupe-Blanco River Authority
- Kendall County WCID 1
- Kyle
- La Vernia
- Leon Valley
- Lockhart
- Maxwell SUD
- Martindale WSC
- Pleasanton
- Port Lavaca
- San Antonio Water System
- San Marcos

- Seguin
- Windmill WSC
- Yoakum

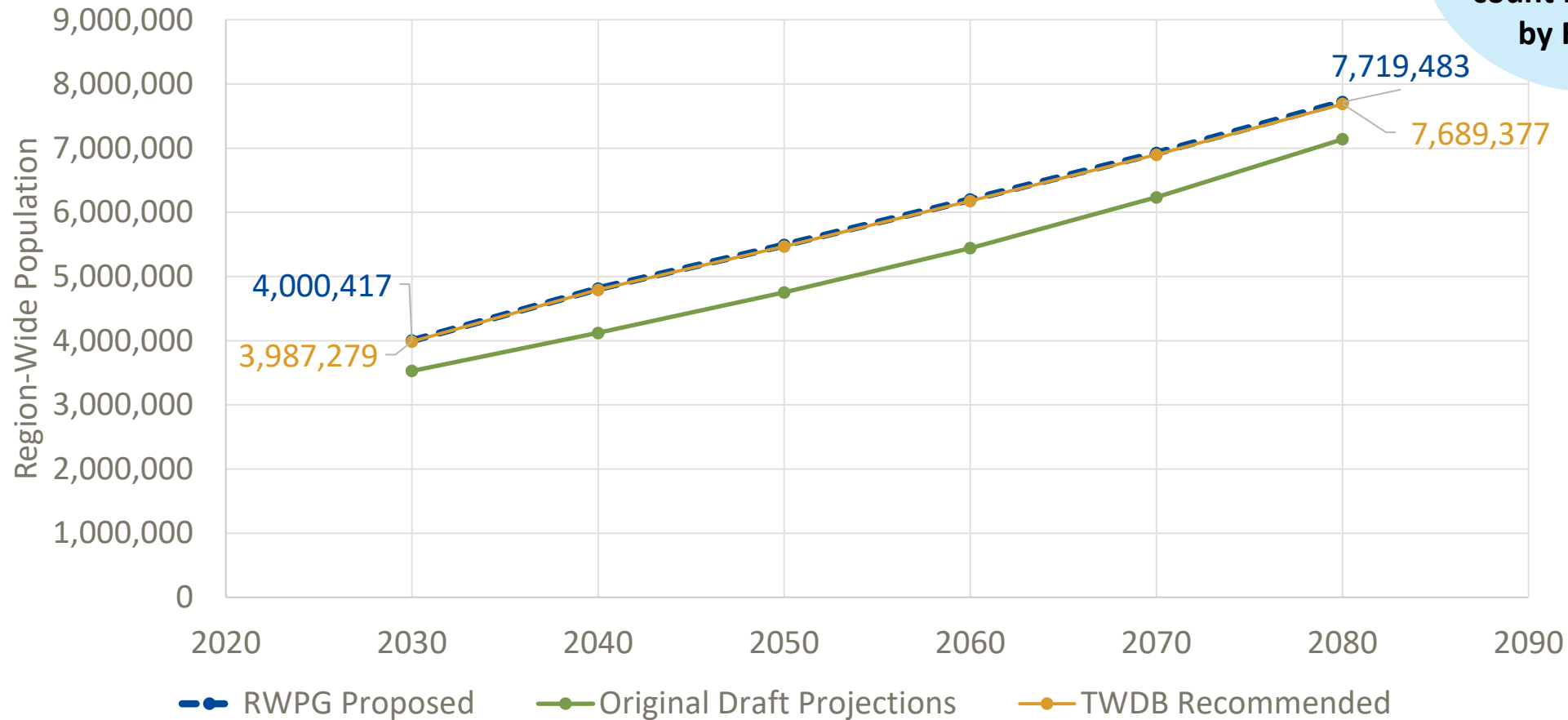
### • TWDB Recommended Modifications to Revisions Proposed by Region L

- Canyon Lake Water Service (Tx Water Company)
- County-Other, Comal
- County-Other, Hays
- County-Other, Kendall
- County-Other, Uvalde
- Springs Hill WSC
- Texas State University
- Uvalde



# TWDB Feedback on Requested Population and Water Demand Revisions

## Population Revision Summary



TWDB accepted 99.6% of the overall population count requested by RWPG.

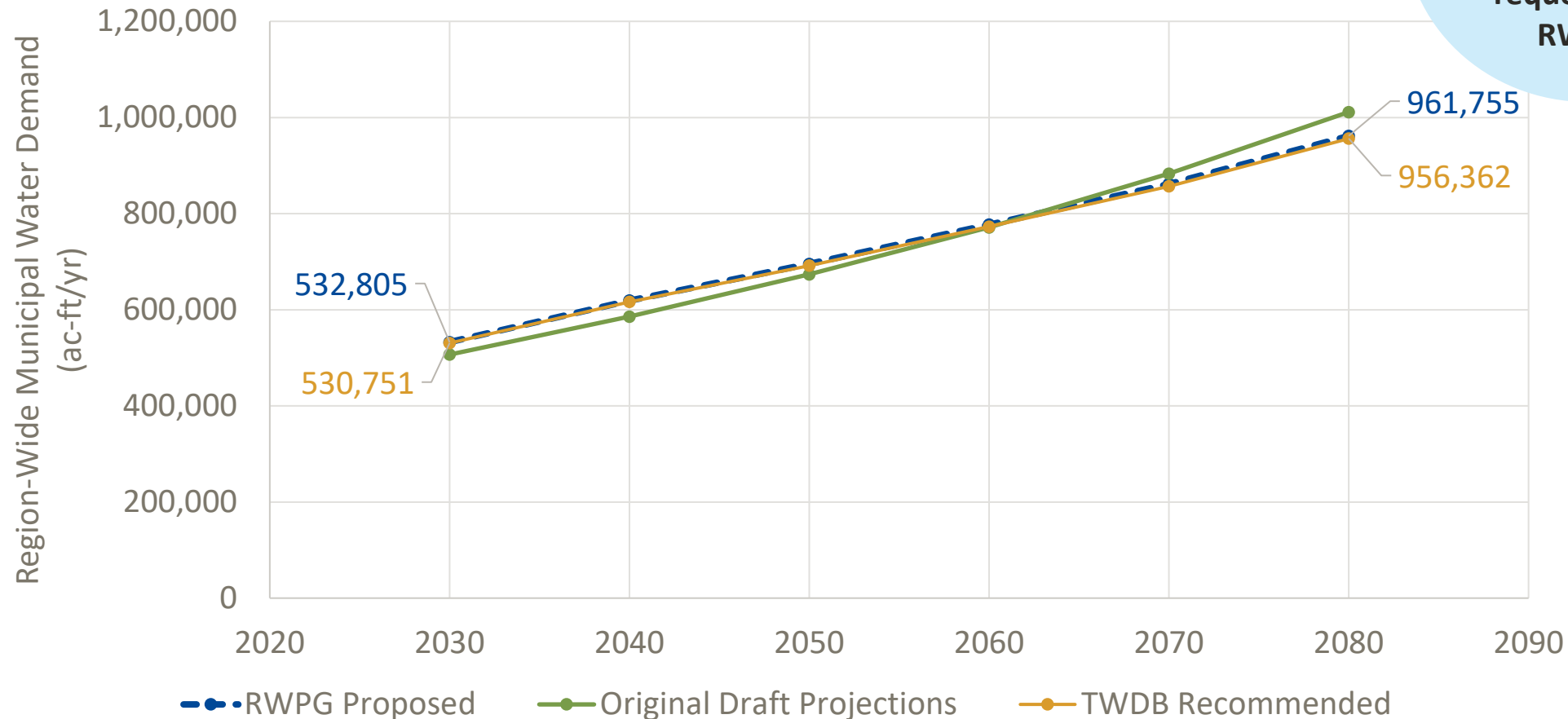
# TWDB Feedback on Requested Population and Water Demand Revisions

## **GALLONS PER CAPITA DAILY**

- TWDB Recommended Revisions Proposed by Region L
  - Guadalupe-Blanco River Authority
  - San Antonio Water System
  - San Marcos
  - Springs Hill WSC
  
- TWDB Recommended Modifications to Revisions Proposed by Region L
  - Castroville
  - County Line SUD
  - Hondo
  - Leon Valley
  
- TWDB Did Not Recommend Revisions Proposed by Region L
  - Maxwell SUD

# TWDB Feedback on Requested Population and Water Demand Revisions

## Municipal Water Demand Revision Summary



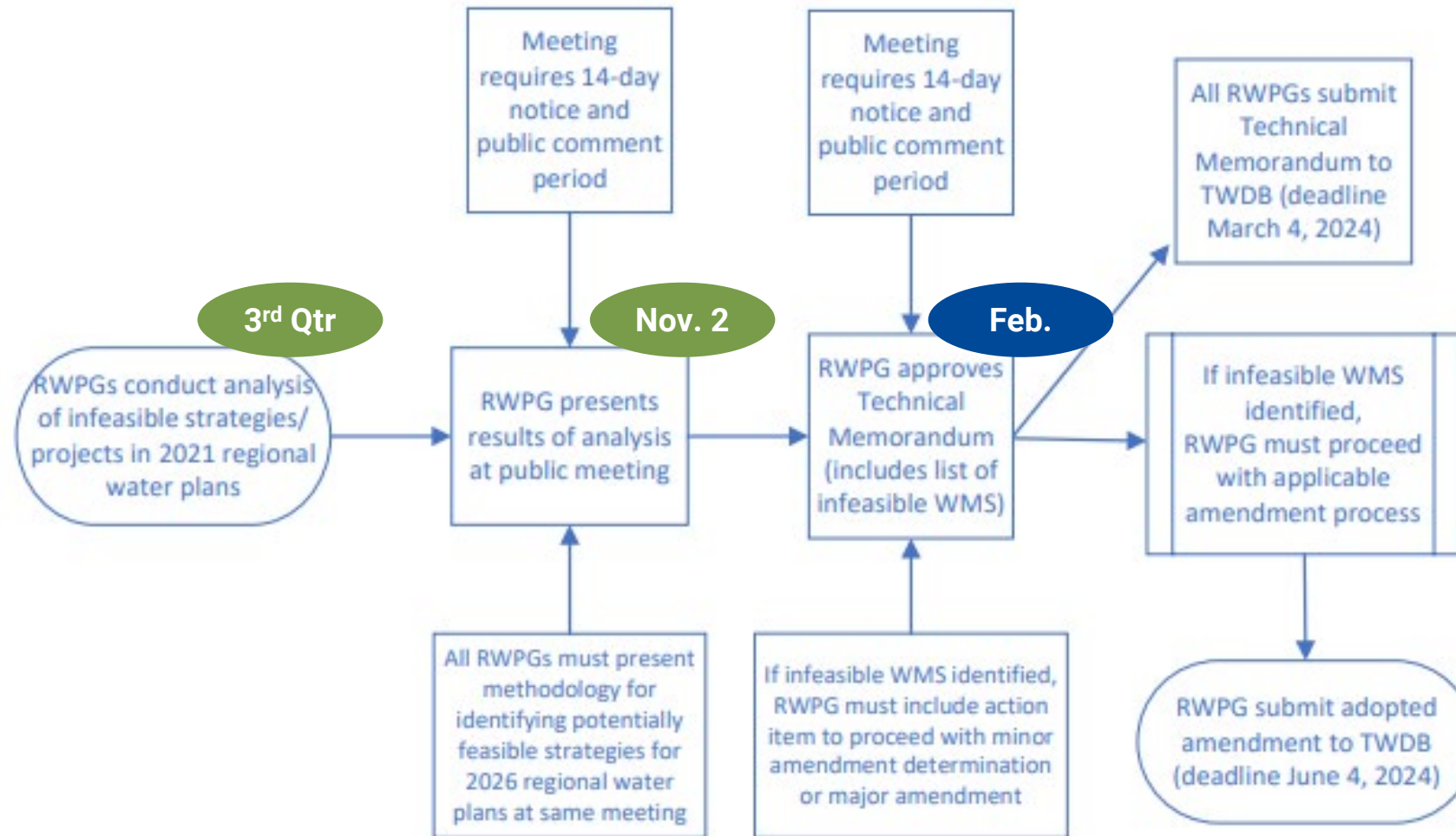
TWDB accepted 99.4% of the overall water demand requested by RWPG.

**AGENDA ITEM NO.10 – PRESENTATION BY TECHNICAL CONSULTANT REGARDING INFEASIBLE WATER MANAGEMENT STRATEGY EVALUATION RESULTS**

- a) PUBLIC COMMENT REGARDING INFEASIBLE WATER MANAGEMENT STRATEGY EVALUATION RESULTS**

# Agenda Item 10: Presentation by Technical Consultant Regarding: Infeasible Water Management Strategy Evaluation Results

# Process Overview: Identification of Infeasible Water Management Strategies



## Task 4B: Identification of Infeasible WMSs in the previously adopted 2021 Regional Water Plan

### **Task Objective:**

Conduct a one-time, mid-cycle analysis of the 2021 Regional Water Plan (RWP) to identify any newly infeasible WMSs and water management strategy projects (WMSP) that were feasible and recommended at the time of the adoption of the previous RWP, but which have since become infeasible and must be modified or amended out of the previous RWP.

## Task 4B: Identification of Infeasible WMSs in the previously adopted 2021 Regional Water Plan

- In accordance with the Texas Water Code §16.053(h)(10), a strategy or project is considered infeasible if:

“...the proposed sponsor of the water management strategy or project has not taken **an affirmative vote or other action** to make expenditures necessary to construct or file applications for permits required in connection with the implementation of the water management strategy or project under federal or state law **on a schedule that is consistent with the completion of the implementation** of the water management strategy or project by the time the water management strategy or project is projected by the regional water plan or the state water plan to be needed.”

- Affirmative vote or other actions may include but are not limited to
  - 1) Spending money on the strategy or project,
  - 2) Voting to spend money on the strategy or project, or
  - 3) Applying for a federal or state permit for the strategy or project.



# Evaluation Methodology

## Applicable Strategies

- Strategies and Projects with an online decade of 2020 in the 2021 RWP
- Optional: Review additional, near-term strategies and projects (2030 and 2040) that have lengthy permitting or construction processes

# Evaluation Methodology

## Process for Evaluation

- Evaluated all WMSs/WMSPs in Handout A.
  - Certain strategies were assumed to be feasible (i.e., conservation, drought management)
  - Identified 25 strategies that require significant permitting and/or construction.
- Reached out to project sponsors via email and phone call to receive update on project status.
  - Was this project implemented and providing water by January 5, 2023?
  - If the project was not online by January 5, 2023, when do you expect the project to be online?
  - Have you taken any affirmative steps toward implementation? (i.e. spending money on the strategy or project, voting to spend money on the strategy or project, or applying for a federal or state permit for the strategy or project.)
- Good faith effort for consultant to establish feasibility is still considered feasible

# 2021 RWP Infeasible Strategies Evaluation Project Outreach (1 of 2)

Sponsor	WMS/WMSP	Received Response?
Alliance Regional Water Authority	ARWA/GBRA Shared Facilities Project	Yes
Atascosa Rural WSC	FE - Atascosa Rural WSC Interconnect	No
Boerne	Boerne Non-Potable Reuse Project	Yes
Canyon Regional Water Authority	CRWA Wells Ranch (Phase 3)	Yes
Canyon Regional Water Authority	FE - CRWA Expanded Lake Dunlap WTP	Yes
Canyon Regional Water Authority	FE - CRWA Hays Caldwell WTP Expansion	Yes
Canyon Regional Water Authority	CRWA - Brackish Wilcox Groundwater	Yes
County Line SUD	Reuse - County Line SUD	Yes
El Oso WSC	El Oso Region L Groundwater Development	No
Guadalupe-Blanco River Authority	ARWA/GBRA Shared Facilities Project	Yes
Guadalupe-Blanco River Authority	GBRA Lower Basin Storage	Yes
Guadalupe-Blanco River Authority	GBRA MBWSP	Yes
Guadalupe-Blanco River Authority	GBRA New Appropriation (Lower Basin)	Yes
Kendall County WCID 1	Reuse - Kendall County WCID Non-Potable	Yes
New Braunfels	FE - NBU Seguin Interconnect	Yes
New Braunfels	New Braunfels Utilities ASR	Yes

# 2021 RWP Infeasible Strategies Evaluation Project Outreach (2 of 2)

Sponsor	WMS/WMSP	Received Response?
San Antonio Water System	FE - SAWS Western Integrated Pipeline (Phase 2)	Yes
San Antonio Water System	SAWS Advanced Meter Infrastructure	Yes
San Antonio Water System	SAWS - Expanded Brackish Wilcox Project	Yes
San Antonio Water System	FE - SAWS ASR Treatment Plant Expansion	Yes
San Marcos	San Marcos - Non-Potable Reuse	Yes
Schertz-Seguin Local Government Corporation	SSLGC Expanded Carrizo Project	Yes
Springs Hill WSC	FE - Springs Hill Lake Placid WTP Expansion	Yes
Victoria	Victoria - ASR	No
Victoria	Victoria - Groundwater-Surface Water Exchange	No

# Evaluation Results

- Established feasibility for all projects from the evaluation of the 2021 RWP

**Evaluation Results: No Projects Determined to be Infeasible.  
Therefore, no associated amendment process is necessary.**

# Public Comment Regarding Infeasible Water Management Strategy Evaluation Results

**AGENDA ITEM NO.11 – PRESENTATION BY TECHNICAL CONSULTANT REGARDING PROCESS FOR IDENTIFYING POTENTIALLY FEASIBLE WATER MANAGEMENT STRATEGIES**

- a) PUBLIC COMMENT REGARDING POTENTIALLY FEASIBLE WATER MANAGEMENT STRATEGIES**

# Agenda Item 11: Presentation by Technical Consultant Regarding Process for Identifying Potentially Feasible Water Management Strategies



# Requirements for Process to Identify Potentially Feasible WMSs

- Task 5A includes the Identification of Potentially Feasible Water Management Strategies (WMSs) for all water user groups (WUGs) and wholesale water providers (WWPs) with identified water needs.
- The process for Identification of Potentially Feasible WMSs will be presented for consideration and approval at a regular meeting of the South Central Texas Regional Water Planning Group (SCTRWPG), subject to a 14-day notice.
  - SCTRWPG must accept public comments on process.
  - The evaluation results of infeasible strategies must be presented at same meeting.
- Process must be documented in Technical Memorandum, the Initially Prepared Plan (IPP) and the Final Regional Water Plan.

# Proposed Process to Identify Potentially Feasible WMSs

1. WMSs from the 2021 Region L Regional Water Plan (RWP) will be considered to determine if they are appropriate for inclusion in the 2026 RWP.
2. Current water planning information, including specific WMSs of interest, will be solicited from WUGs and WWP's within Region L, including rural entities.
3. Solicitation of planning information (to be initiated in 4<sup>th</sup> quarter 2023) will include a list of WMSs from the 2021 RWP to determine whether the project sponsor wishes to include the WMSs in the 2026 RWP.
4. The solicitation will also request whether there are additional WMSs desired for inclusion in the 2026 RWP.
5. In accordance with Statute (Texas Water Code 16.053[e][5]) and rules (31 Texas Administrative Code 357.34, the SCTRWPG must consider certain types of WMSs for all identified water needs.

# Proposed Process to Identify Potentially Feasible WMSs (cont'd)

6. Information gathered from the solicitation and input from WUGs will be considered during development of a list of Potentially Feasible WMSs. The Potentially Feasible WMSs will be prepared and presented to the SCTRWPG at a regularly scheduled meeting (1st quarter 2024). Additional information may follow in subsequent SCTRWPG meetings.
7. Additional WMSs may be brought forth to the SCTRWPG for consideration and inclusion. The deadline for providing an additional WMS for inclusion in the 2026 RWP is the 2nd quarter 2024 meeting, usually held in May.
8. The list of Potentially Feasible WMSs will be further considered to identify “potentially feasible” or “not potentially feasible” WMSs for WUGs and WWP with identified water needs.
9. The SCTRWPG will reference and follow the SCTRWPG Bylaws and Guiding Principles, specifically Guiding Principle VII regarding “Minimum Standards for Water Management Strategies”, Guiding Principle VIII regarding “Designation of Recommended and Alternative Strategies”, and Guiding Principle IX regarding “Establishment of Management Supply”.

## PRINCIPLE VII      MINIMUM STANDARDS FOR WATER MANAGEMENT STRATEGIES

For a proposed strategy to be designated by the SCTRWPG as a water management strategy in the regional water plan, the proposed strategy must:

- a) supply water, reduce water demands, or otherwise satisfy one or more identified needs;
- b) include an evaluation and description consistent with standards used by the SCTRWPG and its technical consultants as required by TWDB Rules;
- c) satisfy all relevant requirements established by the TWDB, including environmental flow standards;
- d) identify one or more entities, with sufficient ability and willingness to implement the strategy, as being the strategy's sponsor(s);
- e) identify all entities, as reasonably possible, who own any existing or planned infrastructure or existing permit that could be affected by the proposed strategy as being strategy participants; and
- f) identify groundwater conservation districts or TCEQ with jurisdiction over the proposed strategy.

## PRINCIPLE VIII      RECOMMENDED WATER MANAGEMENT STRATEGIES

The SCTRWPG strives to develop a regional water plan that recommends water management strategies sufficient to supply water to all identified needs projected in the planning horizon for the region.

The SCTRWPG prefers designating water management strategies as recommended or alternative using a consensus approach while respecting the strategy sponsor(s)' wishes.

Prior to designating any water management strategies as recommended, the SCTRWPG will review the water management strategies to evaluate costs and environmental sensitivity of each water management strategy per TWDB Rules.

# PRINCIPLE IX      MANAGEMENT SUPPLY

The cumulative supply of the recommended water management strategies may include an amount of supply in excess of the amount needed to meet regional needs as considered necessary by the SCTRWPG to allow for such things as uncertainty associated with long-term planning, problems with project implementation, changing weather conditions, flexibility of sponsors in choosing projects to implement, and changes in project viability.

## *Identified Needs without a Recommended Water Management Strategy*

For water needs that are not satisfied by recommended water management strategies, the SCTRWPG will provide a narrative explaining why the need is not satisfied.

## *Alternative Strategies in the Regional Water Plan*

The SCTRWPG will include alternative water management strategies that sponsors wish to have identified as alternatives to one or more of their recommended water management strategies.

## *Conceptual Approaches (Water Management Strategies Needing Further Study) in the Regional Water Plan*

The SCTRWPG will acknowledge conceptual and innovative approaches to developing water supplies, reducing water demand, and increasing efficiency of supplying water as may be proposed by others, but need further study.

# Public Comment Regarding Process for Identifying Potentially Feasible Water Management Strategies

**AGENDA ITEM NO.12 – DISCUSSION AND APPROPRIATE ACTION REGARDING PROCESS  
FOR IDENTIFYING POTENTIALLY FEASIBLE WATER MANAGEMENT STRATEGIES**



## Agenda Item 12: Discussion and Appropriate Action Regarding Process for Identifying Potentially Feasible Water Management Strategies

# Recommendation

Consider Action to:



Approve the Process for Identifying Potentially Feasible Water Management Strategies

**AGENDA ITEM NO.13 – REVIEW, DISCUSS, AND CONSIDER ACTION REGARDING WATER AVAILABILITY, EXISTING WATER SUPPLIES, AND POTENTIAL NEED FOR PREPERATION AND SUBMITTAL OF A HYDROLOGIC VARIANCE REQUEST TO THE TWDB**

Agenda Item 13: Review, Discuss, and Consider Action Regarding Water Availability, Existing Water Supplies, and Potential Need for Preparation and Submittal of a Hydrologic Variance Request to the TWDB.

# Surface Water Modeling

Determining water availability from reservoirs and rivers

- TWDB requires RWPGs to use a publicly-available model to evaluate surface water availability using the Texas Commission on Environmental Quality Water Availability Model (WAM)
- The unmodified WAM Run 3 assumes:
  - All water rights use their full authorized amount;
  - All applicable permit conditions, such as flow requirements, are met; and
  - No return flows
- The WAMs are available on the TCEQ's website:
  - Guadalupe-San Antonio River Basin WAM was last updated in September 2023 (Period of Record 1934-1989)
  - Nueces River Basin WAM was last updated in September 2023 (Period of Record 1934-1997)

# Surface Water Modeling

- Definitions
  - Firm Diversion (run of river availability)
    - Evaluated for municipal sole-source water use (i.e. not firmed up with other sources) is defined as the minimum monthly diversion amount that is available 100 percent of the time during a repeat of the drought of record.
    - Evaluated for all other water users, the 'firm diversion' is defined as the minimum annual diversion, which is the lowest annual summation of the monthly diversions reported by the WAM over the simulation period (lowest annual summation being the calendar year within the simulation that represents the lowest diversion available).
  - Firm Yield (reservoir availability)
    - The maximum water volume a reservoir can provide each year under a repeat of the drought of record using anticipated sedimentation rates and assuming that all senior water rights will be totally utilized and all applicable permit conditions met.

# Hydrologic Assumptions – Last Cycle

- Guadalupe-San Antonio River Basin:
  - Used the most-recent, unmodified WAM Run 3 (dated 2014) to determine water availabilities, water management strategies, and cumulative effects analysis
  - Used the “Region L WAM” to determine firm yield for Canyon Reservoir, Coletto Creek, Calaveras, and Braunig
- Nueces River Basin:
  - Used the most-recent, unmodified WAM Run 3 (dated 2013) to determine water availabilities and water management strategies
  - For Cumulative Effects Analysis, used a safe yield for Choke Canyon Reservoir to incorporate an agreement between City of Corpus Christi and TCEQ

# Hydrologic Assumptions – Last Cycle

- Guadalupe-San Antonio River Basin:

- Used the most-recent, unmodified WAM Run 3 (dated 2014) to determine water availabilities, water management strategies, and cumulative effects analysis
- Used the “**Region L WAM**” to determine firm yield for Canyon Reservoir, Coletto Creek, Calaveras, and Pr

- The “**Region L WAM**” uses a daily time step simulation with no use of effluent or other changes to water rights. The Region L WAM more accurately considers reservoir operations in its analysis, including operation of the power plant reservoirs subject to authorized consumptive uses, with makeup diversions as needed to maintain full conservation storage to the extent possible, subject to senior water rights, instream flow considerations, and/or applicable contractual provisions.



# Hydrologic Assumptions – Last Cycle

- Guadalupe-San Antonio River Basin:
  - Used the most-recent, unmodified WAM Run 3 (dated 2014) to determine water availabilities, water management strategies, and cumulative effects analysis
  - Used the “Region L WAM” to determine firm yield for Canyon Reservoir, Coletto Creek, Calaveras, and Braunig
- Nueces River Basin:
  - Used the most-recent, unmodified WAM Run 3 (dated 2013) to determine water availabilities and water management strategies
  - For Cumulative Effects Analysis, used a safe yield for Choke Canyon Reservoir to incorporate an agreement between City of Corpus Christi and TCEQ

# Hydrologic Assumptions – This Cycle

- Guadalupe-San Antonio River Basin:
  - Plan to use the same assumptions as last cycle.
- Nueces River Basin:
  - Plan to use the same assumptions as last cycle.
    - Latest WAM already includes agreement between Corpus Christi and TCEQ so there is no need to modify the WAM for the cumulative effects analysis this cycle.

# Surface Water Hydrologic Assumptions for 2026 RWP

1. Use of TCEQ Unmodified WAM Run 3 for Surface Water Rights
  - a. Full exercise of existing surface water rights
  - b. Zero effluent discharges unless specifically required by a surface water right (hydropower, industrial rights, City of Victoria, etc.)
  - c. WAMs Anticipated to be used in Region L:
    - i. Guadalupe-San Antonio River Basin (1934-1989; Critical Drought is 1950s)
    - ii. Nueces River Basin (1934-1997, Critical Drought is 1990s)
  
2. Use of “Region L WAM” for operation of Canyon Lake and power plant reservoirs (Braunig, Calaveras, and Coletto Creek) subject to authorized consumptive uses at the reservoir, with makeup diversions as needed to maintain full conservation storage to the extent possible subject to senior water rights, instream flow constraints, and/or applicable contractual provisions.

# Surface Water Hydrologic Variance Requests for 2026 RWP

## Guadalupe-San Antonio Basin

- Use of the “Region L WAM” for Existing Supply, WMS, and Cumulative Effects Analysis for Canyon Reservoir, Braunig, Calaveras, and Coletto-Creek.
- Use of the Flow Regime Application Tool (FRAT) to evaluate environmental flows for new surface water management strategies (WMSs).
- Include return flows in WAM for WMSs if a sponsor requests a project that includes a bed and banks permit.

## Nueces Basin

- Include return flows in WAM for WMSs if a sponsor requests a project that includes a bed and banks permit.

# Recommendation

*See Handout B for Draft Transmittal Letter and Surface Water Hydrologic Variance Checklists for Submittal to TWDB*

## Consider Action to:



Approve the surface water hydrologic assumptions, including hydrologic variance requests for the 2026 Regional Water Planning Cycle.



Approve technical consultant to submit the surface water hydrologic variance requests to the Texas Water Development Board on behalf of the South Central Texas (Region L) Regional Water Planning Group and authorize consultant to address any questions associated with processing these requests, as needed.

# Discussion

November 2nd Meeting, Handout A.1  
 South Central (Region L) Texas Regional Water Planning Group  
 Task 4B: Potentially Infeasible Water Management Strategy Projects

**Tab 1: Recommended WMS projects associated with an online decade of 2020**

WMS Project Name	OnlineDecade	Project Sponsors	Project Related WMS Types	Project Related Source Subtypes
ARWA/GBRA Shared Facilities Project	2020	Guadalupe-Blanco River Authority; Alliance Regional Water Authority	Groundwater wells and other	Groundwater
Boerne Non-Potable Reuse Project	2020	Boerne	Other direct reuse	Direct Non-Potable Reuse
CRWA Wells Ranch (Phase 3)	2020	Canyon Regional Water Authority	Groundwater wells and other	Groundwater
El Oso Region L Groundwater Development	2020	El Oso WSC	Groundwater wells and other	Groundwater
FE - Atascosa Rural WSC Interconnect	2020	Atascosa Rural WSC	Groundwater wells and other	Groundwater
FE - CRWA Expanded Lake Dunlap WTP	2020	Canyon Regional Water Authority	Other surface water	Reservoir
FE - CRWA Hays Caldwell WTP Expansion	2020	Canyon Regional Water Authority	Other direct reuse;Other surface water	Direct Non-Potable Reuse;Run-of-River
FE - NBU Seguin Interconnect	2020	New Braunfels	Groundwater wells and other	Groundwater
FE - SAWS Western Integrated Pipeline (Phase 2)	2020	San Antonio Water System	Groundwater wells and other;Other surface water	Groundwater;Reservoir;Run-of-River
FE - Springs Hill Lake Placid WTP Expansion	2020	Springs Hill WSC	Other surface water	Reservoir
GBRA Lower Basin Storage	2020	Guadalupe-Blanco River Authority	New major reservoir	Reservoir
Karnes City - Local Groundwater Development	2020	Karnes City	Groundwater wells and other	Groundwater
Local Carrizo Aquifer - Pearsall	2020	Pearsall	Groundwater wells and other	Groundwater
Local Groundwater - Atascosa Rural WSC	2020	Atascosa Rural WSC	Groundwater wells and other	Groundwater
Local Groundwater - KT Water Development	2020	KT Water Development	Groundwater wells and other	Groundwater
Local Groundwater - Mining, Comal	2020	Mining (Comal)	Groundwater wells and other	Groundwater
Local Groundwater - Mining, Uvalde	2020	Mining (Uvalde)	Groundwater wells and other	Groundwater
Local Groundwater - Wingert Water Systems	2020	Wingert Water Systems	Groundwater wells and other	Groundwater
Local Gulf Coast Aquifer - DeWitt Mining	2020	Mining (DeWitt)	Groundwater wells and other	Groundwater
New Braunfels Utilities ASR	2020	New Braunfels	Aquifer storage and recovery	Aquifer Storage and Recovery
Reuse - County Line SUD	2020	County Line SUD	Other direct reuse	Direct Non-Potable Reuse
San Marcos - Non-Potable Reuse	2020	San Marcos	Other direct reuse	Direct Non-Potable Reuse
SAWS Advanced Meter Infrastructure	2020	San Antonio Water System	Municipal conservation	
SSLGC Expanded Carrizo Project	2020	Schertz-Seguin Local Government Corporation	Groundwater wells and other	Groundwater
Victoria - ASR	2020	Victoria	Aquifer storage and recovery	Aquifer Storage and Recovery

**Tab 2: Select Recommended WMS projects associated with an online decade of later than 2020. See workbook data description tab for details about selected projects.**

WMS Project Name	OnlineDecade	Project Sponsors	Project Related WMS Types	Project Related Source Subtypes
CRWA - Brackish Wilcox Groundwater	2030	Canyon Regional Water Authority	Groundwater desalination; Groundwater wells and other	Groundwater
GBRA MBWSP	2030	Guadalupe-Blanco River Authority	Aquifer storage and recovery	Aquifer Storage and Recovery
GBRA New Appropriation (Lower Basin)	2030	Guadalupe-Blanco River Authority	New major reservoir	Reservoir
SAWS - Expanded Brackish Wilcox Project	2040	San Antonio Water System	Groundwater desalination; Groundwater wells and other	Groundwater

**November 2nd Meeting, Handout A.2**  
**South Central (Region L) Texas Regional Water Planning Group**  
**Task 4B: Potentially Infeasible Water Management Strategies**

**Tab 1: Recommended demand reduction WMS strategy supply with an online decade of 2020**

<b>WMS Type</b>	<b>WMS Name</b>	<b>WUG Beneficiary</b>	<b>Is Strategy Supply Related to a WMS Project?</b>
Drought management	Drought Management - Clear Water Estates Water System	Clear Water Estates Water System	N
Drought management	Drought Management - El Oso WSC	El Oso WSC	N
Drought management	Drought Management - Air Force Village II	Air Force Village II Inc	N
Drought management	Drought Management - Alamo Heights	Alamo Heights	N
Drought management	Drought Management - Atascosa Rural WSC	Atascosa Rural WSC	N
Drought management	Drought Management - Bexar County WCID 10	Bexar County WCID 10	N
Drought management	Drought Management - Castroville	Castroville	N
Drought management	Drought Management - Converse	Converse	N
Drought management	Drought Management - Crystal Clear WSC	Crystal Clear WSC	N
Drought management	Drought Management - East Medina County SUD	East Medina County SUD	N
Drought management	Drought Management - Fort Sam Houston	Fort Sam Houston	N
Drought management	Drought Management - Garden Ridge	Garden Ridge	N
Drought management	Drought Management - Hondo	Hondo	N
Drought management	Drought Management - Karnes City	Karnes City	N
Drought management	Drought Management - Kirby	Kirby	N
Drought management	Drought Management - KT Water Development	KT Water Development	N
Drought management	Drought Management - La Coste	La Coste	N
Drought management	Drought Management - Lackland Air Force Base	Lackland Air Force Base	N
Drought management	Drought Management - Leon Valley	Leon Valley	N
Drought management	Drought Management - Live Oak	Live Oak	N
Drought management	Drought Management - Lytle	Lytle	N
Drought management	Drought Management - Martindale	Martindale WSC	N
Drought management	Drought Management - Natalia	Natalia	N
Drought management	Drought Management - Oak Hills WSC	Oak Hills WSC	N
Drought management	Drought Management - Pearsall	Pearsall	N
Drought management	Drought Management - S S WSC	S S WSC	N
Drought management	Drought Management - Sabinal	Sabinal	N
Drought management	Drought Management - SAWS	San Antonio Water System	N
Drought management	Drought Management - Seguin	Seguin	N
Drought management	Drought Management - Shavano Park	Shavano Park	N
Drought management	Drought Management - The Oaks WSC	The Oaks WSC	N
Drought management	Drought Management - Universal City	Universal City	N
Drought management	Drought Management - Uvalde	Uvalde	N
Drought management	Drought Management - Victoria	Victoria	N
Drought management	Drought Management - West Medina WSC	West Medina WSC	N
Drought management	Drought Management - Wingert Water Systems	Wingert Water Systems	N
Drought management	Drought Management - Yancey WSC	Yancey WSC	N
Drought management	Drought Management - Elmendorf	Elmendorf	N
Drought management	Drought Management - Goforth SUD	Goforth SUD	N
Municipal conservation	Municipal Water Conservation	Air Force Village II Inc	N



**November 2nd Meeting, Handout A.2**  
**South Central (Region L) Texas Regional Water Planning Group**  
**Task 4B: Potentially Infeasible Water Management Strategies**

<b>WMS Type</b>	<b>WMS Name</b>	<b>WUG Beneficiary</b>	<b>Is Strategy Supply Related to a WMS Project?</b>
Municipal conservation	Municipal Water Conservation	Alamo Heights	N
Municipal conservation	Municipal Water Conservation	Aqua WSC	N
Municipal conservation	Municipal Water Conservation	Asherton	N
Municipal conservation	Municipal Water Conservation	Batesville WSC	N
Municipal conservation	Municipal Water Conservation	Bexar County WCID 10	N
Municipal conservation	Municipal Water Conservation	Big Wells	N
Municipal conservation	Municipal Water Conservation	Boerne	N
Municipal conservation	Municipal Water Conservation	Buda	N
Municipal conservation	Municipal Water Conservation	Carrizo Hill WSC	N
Municipal conservation	Municipal Water Conservation	Carrizo Springs	N
Municipal conservation	Municipal Water Conservation	Castroville	N
Municipal conservation	Municipal Water Conservation	Charlotte	N
Municipal conservation	Municipal Water Conservation	Clear Water Estates Water System	N
Municipal conservation	Municipal Water Conservation	Cotulla	N
Municipal conservation	Municipal Water Conservation	County-Other, Comal	N
Municipal conservation	Municipal Water Conservation	County-Other, Zavala	N
Municipal conservation	Municipal Water Conservation	Crystal City	N
Municipal conservation	Municipal Water Conservation	Cuero	N
Municipal conservation	Municipal Water Conservation	Dilley	N
Municipal conservation	Municipal Water Conservation	El Oso WSC	N
Municipal conservation	Municipal Water Conservation	Encinal WSC	N
Municipal conservation	Municipal Water Conservation	Fair Oaks Ranch	N
Municipal conservation	Municipal Water Conservation	Falls City	N
Municipal conservation	Municipal Water Conservation	Floresville	N
Municipal conservation	Municipal Water Conservation	Fort Sam Houston	N
Municipal conservation	Municipal Water Conservation	Garden Ridge	N
Municipal conservation	Municipal Water Conservation	Goliad	N
Municipal conservation	Municipal Water Conservation	Gonzales	N
Municipal conservation	Municipal Water Conservation	Gonzales County WSC	N
Municipal conservation	Municipal Water Conservation	Hondo	N
Municipal conservation	Municipal Water Conservation	Jourdanton	N
Municipal conservation	Municipal Water Conservation	Karnes City	N
Municipal conservation	Municipal Water Conservation	Kenedy	N
Municipal conservation	Municipal Water Conservation	Knippa WSC	N
Municipal conservation	Municipal Water Conservation	KT Water Development	N
Municipal conservation	Municipal Water Conservation	La Vernia	N
Municipal conservation	Municipal Water Conservation	Leon Valley	N
Municipal conservation	Municipal Water Conservation	Live Oak	N
Municipal conservation	Municipal Water Conservation	Loma Alta Chula Vista Water System	N
Municipal conservation	Municipal Water Conservation	Lytle	N
Municipal conservation	Municipal Water Conservation	Medina County WCID 2	N

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**South Central (Region L) Texas Regional Water Planning Group**  
**Task 4B: Potentially Infeasible Water Management Strategies**

<b>WMS Type</b>	<b>WMS Name</b>	<b>WUG Beneficiary</b>	<b>Is Strategy Supply Related to a WMS Project?</b>
Municipal conservation	Municipal Water Conservation	Moore WSC	N
Municipal conservation	Municipal Water Conservation	Natalia	N
Municipal conservation	Municipal Water Conservation	New Braunfels	N
Municipal conservation	Municipal Water Conservation	Nixon	N
Municipal conservation	Municipal Water Conservation	Oak Hills WSC	N
Municipal conservation	Municipal Water Conservation	Pearsall	N
Municipal conservation	Municipal Water Conservation	Pleasanton	N
Municipal conservation	Municipal Water Conservation	Poth	N
Municipal conservation	Municipal Water Conservation	Refugio	N
Municipal conservation	Municipal Water Conservation	Runge	N
Municipal conservation	Municipal Water Conservation	Sabinal	N
Municipal conservation	Municipal Water Conservation	San Antonio Water System	N
Municipal conservation	Municipal Water Conservation	Schertz	N
Municipal conservation	Municipal Water Conservation	Seadrift	N
Municipal conservation	Municipal Water Conservation	Selma	N
Municipal conservation	Municipal Water Conservation	Shavano Park	N
Municipal conservation	Municipal Water Conservation	Smiley	N
Municipal conservation	Municipal Water Conservation	South Buda WCID 1	N
Municipal conservation	Municipal Water Conservation	Stockdale	N
Municipal conservation	Municipal Water Conservation	Sunko WSC	N
Municipal conservation	Municipal Water Conservation	Texas State University	N
Municipal conservation	Municipal Water Conservation	The Oaks WSC	N
Municipal conservation	Municipal Water Conservation	Uvalde	N
Municipal conservation	Municipal Water Conservation	Victoria	N
Municipal conservation	Municipal Water Conservation	Waelder	N
Municipal conservation	Municipal Water Conservation	Water Services	N
Municipal conservation	Municipal Water Conservation	West Medina WSC	N
Municipal conservation	Municipal Water Conservation	Windmill WSC	N
Municipal conservation	Municipal Water Conservation	Wingert Water Systems	N
Municipal conservation	Municipal Water Conservation	Woodsboro	N
Municipal conservation	Municipal Water Conservation	Yoakum	N
Municipal conservation	Municipal Water Conservation	Yorktown	N
Municipal conservation	Municipal Water Conservation	Zavala County WCID 1	N
Municipal conservation	SAWS Advanced Meter Infrastructure	San Antonio Water System	Y

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**South Central (Region L) Texas Regional Water Planning Group**  
**Task 4B: Potentially Infeasible Water Management Strategies**

**Tab 2: Recommended source related WMS strategy supply with an online decade of 2020**

<b>WMS Type</b>	<b>WMS Name</b>	<b>WMS Sponsor and/or select WUG Beneficiary List</b>	<b>Is Strategy Supply Related to a WMS Project?</b>
Aquifer storage and recovery	NBU - ASR	New Braunfels	Y
Aquifer storage and recovery	Victoria - ASR	Victoria	Y
Groundwater wells and other	ARWA Shared Project (Phase 1)	Alliance Regional Water Authority	Y
Groundwater wells and other	CRWA - Wells Ranch (Phase 3)	Canyon Regional Water Authority - Unassigned Water Volumes	Y
Groundwater wells and other	CRWA - Wells Ranch (Phase 3)	Canyon Regional Water Authority	Y
Groundwater wells and other	Edwards Transfers	Alamo Heights; Leon Valley; Shavano Park; Universal City	N
Groundwater wells and other	Edwards Transfers	Alamo Heights; Castroville; East Medina County SUD; Hondo; La Coste; Leon Valley; Lytle; Natalia; Shavano Park; West Medina WSC; Yancey WSC	N
Groundwater wells and other	Edwards Transfers	Sabinal; Uvalde	N
Groundwater wells and other	Entity Purchase to Meet Shortages - SAWS	San Antonio Water System	N
Groundwater wells and other	FE - Atascosa Rural WSC	Atascosa Rural WSC	Y
Groundwater wells and other	FE - NBU Seguin Interconnect	New Braunfels	Y
Groundwater wells and other	FE - SAWS Western Integration Pipeline	San Antonio Water System	Y
Groundwater wells and other	GBRA Shared Project (Phase 1)	Guadalupe-Blanco River Authority	Y
Groundwater wells and other	GBRA Shared Project (Phase 1)	Guadalupe-Blanco River Authority	Y
Groundwater wells and other	Local Carrizo Aquifer Development	Atascosa Rural WSC	Y
Groundwater wells and other	Local Carrizo Aquifer Development	Pearsall	Y
Groundwater wells and other	Local Carrizo Aquifer Development	Oak Hills WSC	N
Groundwater wells and other	Local Carrizo Aquifer With Conversion	Karnes City	N
Groundwater wells and other	Local Gulf Coast Aquifer Development	El Oso WSC	Y
Groundwater wells and other	Local Gulf Coast Aquifer Development	Mining, DeWitt	Y
Groundwater wells and other	Local Leona Gravel Aquifer with Conversion	Mining, Uvalde	Y
Groundwater wells and other	Local Trinity Aquifer Development	Mining, Comal; Wingert Water Systems	Y
Groundwater wells and other	Local Trinity Aquifer Development	Clear Water Estates Water System; Garden Ridge	N
Groundwater wells and other	Local Trinity Aquifer Development	KT Water Development	Y
Groundwater wells and other	Local Yegua Jackson Aquifer with Conversion	Karnes City	N
Groundwater wells and other	SSLGC Expanded Carrizo Project	Schertz-Seguin Local Government Corporation	Y
Groundwater wells and other	Victoria - Groundwater-Surface Water Exchange	Victoria	N
New major reservoir	GBRA Lower Basin Storage Project	Guadalupe-Blanco River Authority	Y
Other direct reuse	FE - CRWA Hays Caldwell WTP Expansion	Canyon Regional Water Authority	Y
Other direct reuse	Reuse - Boerne Non-Potable Reuse	Boerne	Y
Other direct reuse	Reuse - County Line SUD	County Line SUD	Y
Other direct reuse	Reuse - Kendall County WCID Non-Potable	Kendall County WCID 1	N
Other direct reuse	Reuse - San Marcos (Non-Potable)	San Marcos	Y
Other surface water	FE - CRWA Hays Caldwell WTP Expansion	Canyon Regional Water Authority	Y
Other surface water	FE - CRWA Lake Dunlap WTP Expansion	Canyon Regional Water Authority - Unassigned Water Volumes	Y
Other surface water	FE - SAWS Western Integration Pipeline	San Antonio Water System	Y
Other surface water	FE - SAWS Western Integration Pipeline	San Antonio Water System	Y
Other surface water	FE - SHWSC Lake Placid WTP Expansion	Springs Hill WSC	Y

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 South Central (Region L) Texas Regional Water Planning Group  
 Task 4B: Potentially Infeasible Water Management Strategies

**Tab 3: Recommended new major reservoir and seawater desalination related WMS strategy supply online in any decade**

WMS Type	WMS Name	WMS Sponsor and/or select WUG Beneficiary List	Is Strategy Supply Related to a WMS Project?	Online Decade
New major reservoir	GBRA Lower Basin New Appropriation	Guadalupe-Blanco River Authority	Y	2030

**Tab 4: Recommended select WMS strategy supply with an online decade of 2030 or 2040**

WMS Type	WMS Name	WMS Sponsor and/or select WUG Beneficiary List	Is Strategy Supply Related to a WMS Project?	Online Decade
Aquifer storage and recovery	FE - SAWS ASR Treatment Plant Expansion	San Antonio Water System	Y	2030
Aquifer storage and recovery	GBRA - MBWSP - Surface Water w/ASR	Guadalupe-Blanco River Authority	Y	2030
Groundwater desalination	SAWS - Expanded Brackish Wilcox Project	San Antonio Water System	Y	2040

November 2, 2023

B&V Project 411170

Mr. Jeff Walker  
Executive Administrator  
Texas Water Development Board  
P.O. Box 13231  
1700 North Congress Avenue  
Austin, Texas 78711-3231

Transmitted Via Email

RE: Submittal of Hydrologic Variance Request Checklists on behalf of the  
South Central Texas (Region L) Regional Water Planning Group  
2026 Regional Water Planning Cycle

Dear Mr. Walker,

The South Central Texas (Region L) Regional Water Planning Group (SCTRWPG) approved hydrologic assumptions and needed hydrologic variances for submittal to the Texas Water Development Board (TWDB) at the November 2, 2023, SCTRWPG meeting. On behalf of the SCTRWPG, Black & Veatch submits this transmittal letter and enclosed hydrologic variance checklists for the Guadalupe-San Antonio River Basin and Nueces River Basin for your consideration for the 2026 Region L Regional Water Planning Cycle.

We appreciate your consideration of this request. Please let me know if you need any additional information or if you have any questions. Thank you.

Sincerely,

Lauren E. Gonzalez  
Planning and Regulatory Permitting Lead  
BLACK & VEATCH

Enclosures (2)

cc: Michele Foss, Texas Water Development Board  
Tim Andruss, Victoria County Groundwater Conservation District  
Vanessa Puig-Williams, Environmental Defense Fund  
Steve Graham, San Antonio River Authority  
Cayethania Castillo, San Antonio River Authority  
Jaime Burke, Black & Veatch



**ENCLOSURE 1**

**Hydrologic Variance Checklist for the Guadalupe-San Antonio River Basin**

**DRAFT**

## Surface Water Hydrologic Variance Request Checklist

Texas Water Development Board (TWDB) rules<sup>1</sup> require that regional water planning groups (RWPG) use most current Water Availability Models (WAM) from the Texas Commission on Environmental Quality (TCEQ) and assume full utilization of existing water rights and no return flows for surface water supply analysis. Additionally, evaluation of existing stored surface water available during Drought of Record conditions must be based on Firm Yield using anticipated sedimentation rates. However, the TWDB rules also allow, and **we encourage**, RWPGs to use more representative, water availability modeling assumptions; better site-specific information; or justified operational procedures other than Firm Yield with written approval (via a Hydrologic Variance) from the Executive Administrator in order to better represent and therefore prepare for expected drought conditions.

RWPGs must use this checklist, which is intended to save time and reduce effort, to request a Hydrologic Variance for estimating the availability of surface water sources. For Questions 4 – 10, please indicate whether the requested variance is for determining Existing Supply, Strategy Supply, or both. Please complete a separate checklist for each river basin in which variances are being requested.

**Water Planning Region:**                      **L**

1. Which major river basin does the request apply to? Please specify if the request only applies part of the basin or only to certain reservoirs.

### **Guadalupe-San Antonio Basin**

2. Please give a brief, bulleted, description of the requested hydrologic variances including how the alternative availability assumptions vary from rule requirements, how the modifications will affect the associated annual availability volume(s) in the regional water plan, and why the variance is necessary or provides a better basis for planning. You must provide more-detailed descriptions in the subsequent checklist questions. Attach any available documentation supporting the request.
  - A. The unmodified (other than reservoir sedimentation) Guadalupe-San Antonio Water Availability Model (WAM) from Texas Commission on Environmental Quality (TCEQ) will be used for surface water supply evaluations, except as described below.**
  - B. The Region L WAM will be used to establish existing supply for Canyon Reservoir and power plant reservoirs of Braunig Lake, Calaveras Lake, and Coletto Creek Reservoir. This is the same model approved by the Texas Water Development Board (TWDB) and used in previous Region L Regional Water Plans. The model uses a daily time step simulation with no use of effluent or other changes to water rights. The Region L WAM more accurately considers reservoir operations in its analysis, including operation of the power plant reservoirs subject to authorized consumptive uses, with makeup diversions as needed to maintain full conservation storage to the extent possible, subject to senior water rights, instream flow considerations, and/or**

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<sup>1</sup> 31 Texas Administrative Code (TAC) §§ 357.10(14) and 357.32(c)

**applicable contractual provisions. The associated annual availability of the reservoirs is expected to increase with use of the Region L WAM.**

**C. The Flow Regime Application Tool (FRAT) will be used, in conjunction with the TCEQ WAM Run 3, to evaluate environmental flows for new surface water management strategies (WMSs). FRAT converts between monthly time step simulations and daily time step simulations.**

3. Was this request submitted in a previous planning cycle? If yes, please indicate which cycle and note how it is different, if at all, from the previous request?

**Yes**

**The same hydrologic assumptions and variances were used in the 2016 and 2021 Regional Water Plan.**

4. Are you requesting to extend the period of record beyond the current applicable WAM hydrologic period? If yes, please describe the proposed methodology. Indicate whether you believe there is a new drought of record in the basin.

**No**

Choose an item.

**No, Region L does not request to extend the period of record beyond the current applicable WAM hydrologic period.**

**No, Region L does not believe there is a new drought of record in the basin.**

5. Are you requesting to use a reservoir safe yield? If yes, please describe in detail how the safe yield would be calculated and defined, which reservoir(s) it would apply to, and why the modification is needed or preferable for drought planning purposes.

**No**

Choose an item.

**No, Region L does not request to use a reservoir safe yield.**

6. Are you requesting to use a reservoir yield other than firm yield or safe yield? If yes, please describe, in a bulleted list, each modification requested including how the alternative yield was calculated, which reservoir(s) it applies to, and why the modification is needed or preferable for drought planning purposes. Examples of alternative reservoir yield analyses may include using an alternative reservoir level, conditional reliability, or other special reservoir operations.

**No**



Choose an item.

**No, Region L will use firm yield to determine reservoir yield.**

7. Are you requesting to use a different model (such as a RiverWare or Excel-based models) than RUN 3 of the applicable TCEQ WAM? If yes, please describe the model being considered including how it incorporates water rights and prior appropriation and how it is more conservative than RUN 3 of the applicable TCEQ WAM.

**Yes**

#### **Existing Supply**

**The Region L Water Availability Model (WAM) will be used to establish existing supply for Canyon Reservoir and power plant reservoirs of Braunig Lake, Calaveras Lake, and Coletto Creek Reservoir. This model simulates Federal Energy Regulatory Commission (FERC) requirements, a drought contingency trigger at the Spring Branch stream gauge, an agreement with Guadalupe River Trout Unlimited, and various water rights and daily operations dependent on Canyon Reservoir. The model uses a daily time step simulation with no use of effluent or other changes to water rights. The Region L WAM more accurately considers reservoir operations in its analysis, including operation of the power plant reservoirs subject to authorized consumptive uses, with makeup diversions as needed to maintain full conservation storage to the extent possible, subject to senior water rights, instream flow considerations, and/or applicable contractual provisions.**

8. Are you requesting to use a modified TCEQ WAM? If yes, please describe in a bulleted list all modifications in detail including all specific changes to the WAM and whether the modified WAM is more conservative than the TCEQ WAM RUN 3. Examples of WAM modifications may include adding subordination agreements, contracts, updated water rights, modified spring flows, updated lake evaporation, updated sedimentation<sup>2</sup>, system or reservoir operations, or special operational procedures into the WAM.

**Yes**

#### **Existing Supply**

**The Region L WAM more accurately considers reservoir operations in its analysis. The Region L WAM includes the following considerations:**

- **Simulates Federal Energy Regulatory Commission (FERC) requirements, a drought contingency trigger at the Spring Branch stream gauge, an agreement with Guadalupe**

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<sup>2</sup> Updating anticipated sedimentation rates does not require a hydrologic variance under 31 TAC § 357.10(14). The Technical Memorandum will require providing details regarding the sedimentation methodology utilized. Please consider providing that information with this request.

**River Trout Unlimited, and various water rights, including special conditions, and daily operations dependent on Canyon Reservoir.**

- **The model uses a daily time step simulation with no use of effluent or other changes to water rights.**
- **Operation of the power plant reservoirs subject to authorized consumptive uses, with makeup diversions as needed to maintain full conservation storage to the extent possible, subject to senior water rights, instream flow considerations, and/or applicable contractual provisions.**

9. Are you requesting to include return flows in the modeling? If yes, are you doing so to model an indirect reuse water management strategy (WMS)? Please provide complete details regarding the proposed methodology for determining reuse WMS availability.

**Yes**

#### **Existing and Strategy Supply**

**For Existing Supply, return flows will be included in the WAM when specifically required by a surface water right. For example, the Region L WAM includes a detailed simulation of Calaveras Reservoir, which incorporates effluent from the San Antonio Water System (SAWS), subject to downstream senior water rights and CPS Energy's diversion operations.**

**Additionally, return flows will be included for Water Management Strategies (WMSs) if an entity requests inclusion of a project that includes a bed and banks permit. For example, the 2021 Regional Water Plan included the Canyon Regional Water Authority (CRWA) Siesta Project, which modeled firm yield based on return flows from a wastewater treatment facility.**

**Source water available for reuse WMSs will be determined based on the estimated amount of water returned to a utility's WWTPs for each decade, less the amount of reuse water already being utilized as existing supply. The upper limit of source water available for reuse WMSs will be determined based on the amount of water returned to a utility's wastewater treatment plants, estimated at 50% of the utility's projected water demands, adjusted for water conservation and drought management strategies, unless site specific information is available. Indirect reuse WMSs are evaluated using TCEQ WAM Run 3. Direct reuse WMSs do not require WAM modeling.**

10. Are any of the requested Hydrologic Variances also planned to be used by another region for the same basin? If yes, please indicate the other Region. Please indicate if unknown.

**No**

**Click or tap here to enter text.**

11. Please describe any other variance requests not captured on this checklist or add any other information regarding the variance requests on this checklist.

**Not Applicable - No additional variances are requested.**



**ENCLOSURE 2**  
**Hydrologic Variance Checklist for the Nueces River Basin**

DRAFT

## Surface Water Hydrologic Variance Request Checklist

Texas Water Development Board (TWDB) rules<sup>1</sup> require that regional water planning groups (RWPG) use most current Water Availability Models (WAM) from the Texas Commission on Environmental Quality (TCEQ) and assume full utilization of existing water rights and no return flows for surface water supply analysis. Additionally, evaluation of existing stored surface water available during Drought of Record conditions must be based on Firm Yield using anticipated sedimentation rates. However, the TWDB rules also allow, and **we encourage**, RWPGs to use more representative, water availability modeling assumptions; better site-specific information; or justified operational procedures other than Firm Yield with written approval (via a Hydrologic Variance) from the Executive Administrator in order to better represent and therefore prepare for expected drought conditions.

RWPGs must use this checklist, which is intended to save time and reduce effort, to request a Hydrologic Variance for estimating the availability of surface water sources. For Questions 4 – 10, please indicate whether the requested variance is for determining Existing Supply, Strategy Supply, or both. Please complete a separate checklist for each river basin in which variances are being requested.

**Water Planning Region:**                    **L**

1. Which major river basin does the request apply to? Please specify if the request only applies part of the basin or only to certain reservoirs.

### **Nueces Basin**

2. Please give a brief, bulleted, description of the requested hydrologic variances including how the alternative availability assumptions vary from rule requirements, how the modifications will affect the associated annual availability volume(s) in the regional water plan, and why the variance is necessary or provides a better basis for planning. You must provide more-detailed descriptions in the subsequent checklist questions. Attach any available documentation supporting the request.

**Return flows will be included for Water Management Strategies (WMSs) if an entity requests inclusion of a project that includes a bed and banks permit.**

3. Was this request submitted in a previous planning cycle? If yes, please indicate which cycle and note how it is different, if at all, from the previous request?

**Yes**

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<sup>1</sup> 31 Texas Administrative Code (TAC) §§ 357.10(14) and 357.32(c)

**The same hydrologic assumptions and variances were used in the 2016 and 2021 Regional Water Plan.**

4. Are you requesting to extend the period of record beyond the current applicable WAM hydrologic period? If yes, please describe the proposed methodology. Indicate whether you believe there is a new drought of record in the basin.

**No**

Choose an item.

**No, Region L does not request to extend the period of record beyond the current applicable WAM hydrologic period.**

**No, Region L does not believe there is a new drought of record in the basin.**

5. Are you requesting to use a reservoir safe yield? If yes, please describe in detail how the safe yield would be calculated and defined, which reservoir(s) it would apply to, and why the modification is needed or preferable for drought planning purposes.

**No**

Choose an item.

**No, Region L does not request to use a reservoir safe yield for existing supplies or for WMSs.**

6. Are you requesting to use a reservoir yield other than firm yield or safe yield? If yes, please describe, in a bulleted list, each modification requested including how the alternative yield was calculated, which reservoir(s) it applies to, and why the modification is needed or preferable for drought planning purposes. Examples of alternative reservoir yield analyses may include using an alternative reservoir level, conditional reliability, or other special reservoir operations.

**No**

Choose an item.

**No, Region L will use firm yield to determine reservoir yield.**

7. Are you requesting to use a different model (such as a RiverWare or Excel-based models) than RUN 3 of the applicable TCEQ WAM? If yes, please describe the model being considered including how it incorporates water rights and prior appropriation and how it is more conservative than RUN 3 of the applicable TCEQ WAM.

**No**

Choose an item.

**No, Region L does not request to use a different model than RUN 3 of the applicable TCEQ WAM.**

8. Are you requesting to use a modified TCEQ WAM? If yes, please describe in a bulleted list all modifications in detail including all specific changes to the WAM and whether the modified WAM is more conservative than the TCEQ WAM RUN 3. Examples of WAM modifications may include adding subordination agreements, contracts, updated water rights, modified spring flows, updated lake evaporation, updated sedimentation<sup>2</sup>, system or reservoir operations, or special operational procedures into the WAM.

**No**

Choose an item.

**No, Region L does not request to use a modified TCEQ WAM for the Nueces Basin.**

9. Are you requesting to include return flows in the modeling? If yes, are you doing so to model an indirect reuse water management strategy (WMS)? Please provide complete details regarding the proposed methodology for determining reuse WMS availability.

**Yes**

### **Strategy Supply**

**Return flows will not be included in the modeling for the Nueces Basin for existing supply.**

**Return flows will be included for Water Management Strategies (WMSs) if an entity requests inclusion of a project that includes a bed and banks permit.**

**Source water available for reuse WMSs will be determined based on the estimated amount of water returned to a utility's WWTPs for each decade, less the amount of reuse water already being utilized as existing supply. The upper limit of source water available for reuse WMSs will be determined based on the amount of water returned to a utility's wastewater treatment plants, estimated at 50% of the utility's projected water demands, adjusted for water conservation and drought management strategies, unless site specific information is available. Indirect reuse WMSs are evaluated using TCEQ WAM Run 3. Direct reuse WMSs do not require WAM modeling.**

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<sup>2</sup> Updating anticipated sedimentation rates does not require a hydrologic variance under 31 TAC § 357.10(14). The Technical Memorandum will require providing details regarding the sedimentation methodology utilized. Please consider providing that information with this request.

10. Are any of the requested Hydrologic Variances also planned to be used by another region for the same basin? If yes, please indicate the other Region. Please indicate if unknown.

**Unknown**

Click or tap here to enter text.

11. Please describe any other variance requests not captured on this checklist or add any other information regarding the variance requests on this checklist.

**N/A - None.**