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 7, 2024 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

<u>https://saws.webex.com/saws/j.php?MTID=mba4e1663b439b9675a5cb0423b6f0832</u>. 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. Status Reports and Communications by TWDB
- 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
- 7. Consideration and Appropriate Action Regarding Presentation by Technical Consultant Regarding Schedule and Progress Update
- 8. Consideration and Appropriate Action to Designate Water Management Strategies (WMS) as Recommended, Alternative, or Considered
- 9. Discussion and Appropriate Action Regarding the Establishment of Additional Subcommittees
- 10. Schedule and Potential Agenda Items for the Next Meeting of the SCTRWPG
  - Region L 2025 Schedule:
    - Q1 meeting: January 23rd
    - Q2 meeting: February 20th
    - Q3 meeting: August 28th
    - Q4 meeting: October 2nd
- 11. Public Comment (Limited to 3 minutes)
- 12. Adjourn

Comments and submissions may be submitted through email to 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. AGENDA ITEM NO.3 – APPROVAL OF THE MINUTES FROM THE PREVIOUS MEETING OF THE SOUTH-CENTRAL TEXAS REGIONAL WATER PLANNING GROUP (SCTRWPG)

#### Minutes of the South Central Texas Regional Water Planning Group August 1, 2024

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

27 of the 32 voting members, or their alternates, were present.

#### **Voting Members Present:**

Tim Andruss John Byrum Curt Campbell Andra Wisian Debbie Farmer Erin Cavasos for Steve Metzler Terrell Graham Vic Hilderbran Thomas Jungman Aarin Teague Jason Ammerman Scooter Mangold Andrew McBride Daniel Meyer Gary Middleton Travis Pruski Donovon Burton for Robert Puente Humberto Ramos Weldon Riggs Roland Ruiz Darrell Brownlow Mitchell Sowards Jonathan Stinson Thomas Taggart Mike Short for Ryan Kelso Dianne Wassenich Adam Yablonski

#### Voting Members Absent:

Ryan Bayle Vanessa Puig-Williams Charlie Flatten Darren Simmons Dan Yoxall

#### **Non-Voting Members Present:**

Carly Rotzler, TX Department of Parks and Wildlife Tony Franklin, Texas Soil & Water Cons. Board Tom Hegemier, Region K Liaison Michele Foss, Texas Water Development Board (TWDB) Jami McCool, TX Dept. of Agriculture

#### Non-Voting Members Absent:

Iliana Delgado, TCEQ Don McGhee, Region M Liaison Charles Wiedenfeld, Region J Liaison Carl Crull, Region N Liaison Beginning with the February 11, 2016, meeting of the South Central Texas Regional Water Planning Group, all recordings are available for the public at <u>www.regionltexas.org</u>.

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

Ms. Castillo took roll call.

#### AGENDA ITEM NO.2: PUBLIC COMMENT (LIMITED TO 3 MINUTES)

No public comments.

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

Mr. Andruss motioned to approve the minutes from the previous meeting. Mr. Brownlow seconded, the motion passed by consensus.

#### AGENDA ITEM NO.4: STATUS REPORTS AND COMMUNICATIONS BY TWDB

Ms. Foss provided an update from TWDB on 2024 SWIFT Funding for Region L Projects, a reminder on the data that can be found on TWDB's Conservation Dashboard (GPCD Statistics, GPCD Trends and Targets, and BMPs and Projects), as well as an overview on the Texas Water Fund (TWF) Implementation Plan. Her presentation is available online at <u>www.regionltexas.org</u>.

#### AGENDA ITEM NO.5: 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

Mr. Brownlow provided an update on GMA 13 stating that they met on June 14, 2024 and discussed status reports on groundwater availability model updates and recalibrations, action occurring on requests to the TWDB to update the GAM for southern portions of the CWQCS aquifers based on model revisions, and discussion on timeline for 4<sup>th</sup> round of DFCs.

## AGENDA ITEM NO.6: CONSIDERATION AND APPROPRIATE ACTION REGARDING BRIEFINGS ON WORKGROUP ACTIVITIES:

#### A. CHAPTER 8 POLICY AND LEGISLATIVE RECOMMENDATIONS WORKGROUP

Ms. Gonzalez provided an overview of the work the Chapter 8 Policy and Legislative Recommendations Workgroup accomplished during the year of 2024 thus far. Ms. Gonzalez stated that the workgroup has met to discuss new or proposed recommendations to consider including in Chapter 8, as well as reviewing and revising Chapter 8 language. She included that the workgroup would finalize a draft Chapter 8 for consideration at the November 7 RWPG meeting.

#### **B. RURAL COMMUNITY OUTREACH WORKGROUP**

Ms. Gonzalez provided an overview of the work the Rural Community Outreach Workgroup has accomplished during the year of 2024. The workgroup held meetings inperson and virtually since the May RWPG meeting: June 5<sup>th</sup> and July 10<sup>th</sup>. During these meetings, the work group identified and developed water management strategies (WMSs) that could benefit rural entities. They also developed and finalized methodologies for consideration by RWPG for the following WMSs: Irrigation Conservation, Irrigation Drought Management, and Rainwater Harvesting. No additional meetings are currently scheduled.

#### AGENDA ITEM NO.7: CONSIDERATION AND APPROPRIATE ACTION REGARDING PRESENTATION BY TECHNICAL CONSULTANT REGARDING SCHEDULE AND PROGRESS UPDATE

Ms. Gonzales provided a conceptual schedule for Region L plan development, update on completed, new, and ongoing efforts, and updates on Drought Contingency Plans. Ms. Gonzalez also provided information for consideration and appropriate action on significant identified needs definition, major water provider designations, and water management strategies. Her presentation is available online at <u>www.regionltexas.org</u>.

Regarding the RWPG defining Significant Identified Needs, Ms. Gonzalez reviewed the TWDB requirement to provide a specific assessment in the plan for the potential for aquifer storage and recovery (ASR) projects to meet "significant identified needs" as defined by the RWPG. She reviewed the definition and identified WUGs used in SCTRWPG 2021 Plan. Discussion ensued by the planning group regarding the significance of being identified as well as the impact of identification. Additionally, the RWPG discussed agricultural references and how any of the options affect the work of the technical consultant. Ms. Wassenich motioned to select Option 2 without the inclusion of County-Other to be Region L's threshold for Significant Identified Needs. Mr. Ramos seconded, the motion passed by consensus.

Regarding the options the technical consultants provided to Designate Major Water Providers (MWP), Ms. Gonzalez provided background information to the RWPG on what a Major Water Provider is defined as, as per 31 TAC §357.10(19). She also stated that the RWPG's designation of MWPs will not change the role of the entity in the RWP. Information about the MWPs will be summarized in 'snapshots' in the RWP. Additionally, she provided the planning group with the 2021 RWP's definition. Discussion ensued by the planning group on the purpose of the RWPG to designate water providers, what options were used in the previous plan, and if this designation will affect funding. Once discussion came to an end, Ms. Wassenich motioned to select Option 3

as the representation of water providers (5 entities) Region L selects to be the Major Water Providers. Mr. Andruss seconded, the motion passed by consensus.

Regarding the Water Management Strategies (WMS) that the technical consultant presented to the RWPG, Ms. Gonzalez provided a timeline for how the WMS would be presented. The timeline and process in terms of presentation would be broken up into two blocks: Block 1 WMSs presented in the August meeting and Block 2 WMSs presented in the November meeting. In the Block 1 WMSs presentation, Ms. Gonzalez requested input from the planning group members under the Drought Management: Municipal Costing Tool WMS. Ms. Gonzalez requested that the RWPG consider four scenarios included in her presentation regarding Drought Management Municipal Yields based on percentage use reduction scenarios. Mr. Taggart motioned to select the 10% use reduction scenario. Mr. Byrum seconded, the motion passed by consensus.

# AGENDA ITEM NO.8: CONSIDERATION AND APPROPRIATE ACTION FOR THE TECHNICAL CONSULTANT TO EVALUATE WEATHER MODIFICATION AS A NEW WATER MANAGEMENT STRATEGY

Mr. Riggs introduced Mr. Raabe to explain Weather Modification as a WMS to the planning group. Mr. Raabe, a board member of the South Texas Weather Modification Association (STWMA), shared with the planning group that the STWMA was formed in 1996 and its members are groundwater conservation districts and county governments that fund the STWMA through a per acre assessment. Mr. Raabe included that Region L has historically determined in the 2001, 2006, 2011, 2016 and 2021 regional water plans that there were no feasible water management strategies to meet unmet irrigation needs. He stated that weather modification is a strategy that can help meet unmet irrigation needs and provide irrigation water conservation savings to reduce irrigation water demands through precipitation enhancement. Mr. Raabe requested that the RWPG identify weather modification to meet unmet irrigation needs and that weather modification to meet unmet irrigation needs and provide irrigation to meet unmet irrigation needs and provide irrigation to meet unmet irrigation as a potential water management strategy and authorize the evaluation of weather modification to meet unmet irrigation needs and that weather modification to meet unmet irrigation needs and that weather modification to meet unmet irrigation needs and that weather modification to meet unmet irrigation needs and that weather modification to meet unmet irrigation needs and that weather modification be included in the Advanced Water Conservation strategy for agricultural irrigation.

Discussion ensued by the planning group regarding confirmation that this item is not approval of the strategy, but rather a request for evaluation and more details would be provided during the November 2024 meeting where the members would determine if the strategy is recommended or alternative.

Mr. Byrum motioned to approve the Technical Consultant to use Scope 5B funds to evaluate the Weather Modification Project as a New Water Management Strategy. Mr. Hilderbran seconded, the motion passed by consensus.

#### AGENDA ITEM NO.9: CONSIDERATION AND APPROPRIATE ACTION REGARDING DESIGNATION OF THE NUECES RIVER AUTHORITY AS A

## WHOLESALE WATER PROVIDER (WWP) AS DEFINED IN 31 TAC §357.10(44) FOR REGIONAL WATER PLANNING PURPOSES

Ms. Gonzales provided background on the agenda item, stating that during the Rural Community outreach Work Group meetings, they found that there were many WMS associated with benefitting rural community and there weren't established sponsors that would be able to implement them. As the Nueces River Authority is not currently listed as a wholesale water provider, they are not able to apply for funding to implement these strategies for rural communities.

Mr. Andruss motioned to approve the Designation of the Nueces River Authority as a Wholesale Water Provider (WWP) for Regional Water Planning Purposes. Mr. Burton seconded, the motion passed by consensus.

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

No additional subcommittees were established.

## AGENDA ITEM NO.11: SCHEDULE AND POTENTIAL AGENDA ITEMS FOR THE NEXT MEETING OF THE SCTRWPG

The next SCTRWPG meeting is scheduled for November 7, 2024, at 9:30 AM.

#### AGENDA ITEM NO.14: PUBLIC COMMENT (LIMITED TO 3 MINUTES)

Ms. Cywinski provided public comment to state that in 2015, several "water captains" and herself appeared before the SCTRWPG as volunteers of Texas Interfaith Center for Public Policy, also known as Interfaith Environmental Network. They presented a white paper response to the 2016 draft plan and each read sections of the Region L IPP whitepaper during one of the meetings. Ms. Cywinski stated that she appreciates that the conservation strategies for which they advocated for are now being included in the 2026 plan. She thanked the planning group for their openness to constituent recommendation.

Ms. Cywinski also provided comment on Agenda Item 8 (Consideration and Appropriate Action for the Technical Consultant to Evaluate Weather Modification as a New Water Management Strategy). Ms. Cywinski stated that she would like to draw attention to the Edwards Aquifer Authority's News Drop article on EAA's Precipitation Enhancement Program (pages 6-7). She stated that weather modification with silver iodide by humans is a poor remedy for ceasing to modify the hydrology by our continued compaction of soil and expansion of impervious surfaces. She asked that members think beyond recent conventional thinking of water supply to solving problems by decreasing the problems created.

#### AGENDA ITEM NO.15: ADJOURN

Mr. Campbell moved to adjourn as there was no further matters left to address.

The meeting adjourned at 12:09am.

AGENDA ITEM NO.5 – STATUS REPORTS AND COMMUNICATIONS BY TWDB

# Region L Update November 7, 2024

- New Executive Administrator Bryan McMath
- New Board Member Tonya R. Miller
- IPPs are due to TWDB on *March 3, 2025*
- Draft 2026 Regional Water Plan Water Supply Needs/Surplus Map
  - Linked under TWDB 6<sup>th</sup> Planning Cycle Info/TWDB Communications/Task 4A
  - "Draft" as represented data is being updated by RWPG consultants
  - Brackish Aquifer Sample Area Layer water quality of 1,000-9,999 mg/L TDS
- **REMINDER:** The following data can be found in the Conservation Dashboard!
  - GPCD Statistics
  - GPCD Trends and Targets
  - BMPs and Projects



## **Texas Water Fund (TWF) Implementation**

- Statewide Water Public Awareness Campaign
- Proposed Rule Publication/Proposed Rule Adoption
  - Creation of new subchapter of 31 TAC 363 for New Water Supply Fund for Texas
  - On November 6, 2024, TWDB Board Meeting Agenda for draft rule publication
  - Final rule adoption anticipated February or March 2025
- Anticipate application process open early Fall 2025
- Receive future updates by signing up for TWDB's Financial Assistance email list: <u>https://www.twdb.texas.gov/newsmedia/signup.asp</u>



## **Questions?**

Michele Foss michele.foss@twdb.texas.gov

Stay connected:





AGENDA ITEM NO.7 – CONSIDERATION AND APPROPRIATE ACTION REGARDING PRESENTATION BY TECHNICAL CONSULTANT REGARDING SCHEDULE AND PROGRESS UPDATE







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TASK 8 Unique Segments & Policy Recommendations																		
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TASK 5A Identification of Potentially Feasible WMSs											
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TASK 5C Conservation Recommendations											
Task 6 Impacts of Plan & Cumulative Effects											
TASK 7 Drought Response Information & Recommendations											
TASK 8 Unique Segments & Policy Recommendations											
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TASK 5A Identification of Potentially Feasible WMSs												
TASK 5B WMSs Evaluations												
TASK 5C Conservation Recommendations												
Task 6 Impacts of Plan & Cumulative Effects												
TASK 7 Drought Response Information & Recommendations												
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#### Update on Completed Efforts

- Completed development of draft Minor Amendment to the 2021 Regional Water Plan to update the Guadalupe-Blanco River Authority (GBRA) Lower Basin Storage Project
  - Submitted Draft Minor Amendment with a Request for Minor Amendment Determination to TWDB on March 11th
  - TWDB determined amendment to be Minor on April 17th
  - Minor Amendment submitted to TWDB on May 17th
  - TWDB Board approved Minor Amendment at August 15th Board Meeting
- Completed Drafting Chapter 8: Recommendations Regarding Unique Stream Segments and/or Reservoir Sites and Legislative & Regional Policy Issues (Task 8)
  - Workgroup held 5 meetings in 2024 and drafted an updated Chapter 8
  - · Additional information and Workgroup recommendation will be presented in subsequent slides



#### Update on New or Ongoing Efforts Will Provide Draft Chapters for RWPG review and comment (Tasks 1, 2, 3, and 4) • Additional information will be forthcoming via email to RWPG members • Continuing Evaluations of WMSs (Task 5) • Sent emails to sponsors of WMSs in 2021 RWP to request any updates to schedule, approach (yield, • infrastructure components, etc.), and others • Conducted outreach for submitting new and additional projects • Developed and evaluated Block 1 strategies • Developed and evaluated Block 2 strategies Additional information will be presented in subsequent slides 12

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## 1. Ecologically Unique River & Stream Segments

RWPGs may make recommendations for designating river and stream segments of unique ecological value and unique sites for reservoir construction; however, the Texas Legislature is responsible for making the official designations of these sites.

RWPGs may recommend all or parts of a water body as having "unique ecological values," based on the following:

- 1. Biological function
- 2. Hydrologic function
- 3. Riparian conservation areas
- 4. High water quality, exceptional aquatic life, and high aesthetic value
- 5. Threatened or endangered species and unique communities

If the legislature designates or if a RWPG recommends designation of a stream or river segment as unique, then the RWPG must quantitatively assess impacts of the plan on flows to unique water bodies.

#### 2. Unique Reservoir Sites

RWPGs may recommend sites for reservoir construction that have "unique value" based on the following:

- Site specific reservoir development is recommended as a specific water management strategy or as a unique reservoir site in a final adopted RWP; or
- Factors such as location, hydrologic, geologic, topographic, water availability, water quality, environmental, cultural, and current development characteristics make a site uniquely suited for either reservoir development to Provide water supply for:
  - The current planning period, or
  - Where it might be reasonably needed to meet water needs beyond the 50-year planning period.
- The adopted RWPs must also include a description of the site, reasons for the unique designation, and expected beneficiaries of water supplies developed at a given site.

#### 3. Other Recommendations

RWPGs may include any additional regulatory, administrative, or legislative recommendations to achieve the stated goals of state and regional water planning, including but not limited to the following:

- 1. To facilitate the orderly development, management, and conservation of water resources in Texas and to prepare for and respond to drought conditions
- 2. Ways the RWPG believes the state and regional planning process would be improved
- 3. Information regarding the potential impacts of recommendations enacted into law once proposed changes are in effect
- 4. Facilitate more voluntary water transfers in the region

In the development of other recommendations, the RWPGs should consider TWDB feedback on the implementation of the planning group's legislative, administrative, and regulatory recommendations, as applicable to the TWDB, in the previous RWP. The RWPGs should also consider recommendations from the Interregional Planning Council as directed to the planning groups.



2026 Regic Recommer	on L Policy and Legislative Indations Workgroup	
Workgroup Roles	<ul> <li>Chair: Tim Andruss</li> <li>Vice-Chair: Robert Puente / Steven Siebert</li> <li>Secretary: Jonathon Stinson</li> </ul>	
Approach	<ul> <li>Consider new recommendations for inclusion.</li> <li>Consider TWDB feedback on implementation of recommendations in the previous plan.</li> <li>Consider recommendations from the Interregional Planning Council.</li> <li>Remove recommendations that are no longer relevant.</li> </ul>	See Handout A for Summary of Revisions and Deletions
Workgroup Draft Chapter 8	<ul> <li>Updated and clarified previous recommendations.</li> <li>Reorganized and streamlined chapter.</li> </ul>	See Handout B for Workgroup's Draft Chapter 8

#### Summary of RWPG Comments on Workgroup Draft Chapter 8

- The Workgroup's Draft Chapter 8 was distributed to RWPG members for review and comment on September 27<sup>th</sup>.
- The Workgroup received one comment regarding substantive changes:
  - Timothy Fousse, City of Cibolo
  - "Can we consider asking the legislature to look at the current water reserve capacity formula (.60 gals/minute/year or 315,360 gallons per connection)? It would seem that with large advances in the water systems in our state and the somewhat substantial reduction in operating water losses, lowering the reserve capacity requirement would have a great impact on the total water needs of the state and reduce the costs associated with developing water reserves that will likely never be used."

#### Proposed Revision to Workgroup Draft Chapter 8

• To address Mr. Fousse's comment, the following language is proposed as a new Section, likely Section 8.3.6 (between the Conservation and Innovative Strategies Sections)

#### Proposed Language:

Rules in 30 TAC Chapter 290.45 include requirements for minimum water system capacity. Currently, the rules require a minimum of 0.6 gallons per minute (gpm) per connection for the total public water system capacity, as well as capacities for individual water treatment plants, groundwater wells, ground storage tanks, raw water pump stations, transfer pump stations, and others. The 0.6 gpm requirement converts to 315,360 gallons per year per connection, or 0.97 acft/yr per connection. This represents a substantial cost to develop reserve capacities that are unlikely to be used.

#### Legislative Recommendation: None.

<u>Other Recommendation</u>: The SCTRWPG recommends the TCEQ reassess the water system capacity requirements in 30 TAC §290.45 to consider decreasing the minimum water system capacity requirement of 0.6 gpm per connection.

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#### Consider Action to:

Approve the Workgroup's Draft Chapter 8 for inclusion in the 2026 Region L Regional Water Plan

Approve the addition of language in the Workgroup's Draft Chapter 8 to address Mr. Fousse's comment



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## 2. Uncertainty and Droughts Worse Than the Drought of Record (1 of 5)

#### Background:

While RWPs must address water supply needs during a repeat of the drought of record (DOR), RWPGs may choose to consider scenarios and/or qualitatively address uncertainty and a drought worse than the drought of record (DWDOR) in their region.

#### **Requirement:**

Include a separate subsection addressing the three items listed in subsequent slides regarding planning for uncertainty and droughts worse than drought of record (DWDOR).

Proposed Direction for 2026 Region L Regional Water Plan

Include a new subsection that summarizes the three items and responses to each, as summarized in the subsequent slides.



1. Summarize how the region incorporated planning for uncertainty in its RWP and the region's basis, or policy, for inclusion. If the RWP does not include any measures to address uncertainty, this subsection must include a statement to that effect

## 2. Uncertainty and Droughts Worse Than the Drought of Record (2 of 5)

#### Proposed Language for Chapter 7:

For the 2026 RWP, the SCTRWPG incorporated planning for uncertainty and DWDOR by including data derived from water providers who used climate forecasting and variability tools to plan for DWDOR. For example, the 2026 RWP includes data consistent with SAWS' 2024 Draft Water Management Plan, which applied a Hybrid Synthetic Drought (HSD) to estimate supplies, demands, and WMS firm yields. The HSD merged the drought of record conditions with the intensity of the 2011-2014 drought and is a reasonable approximation of climate-enhanced drought for the near-term since it already represents such an extreme condition.

The SCTRWPG recognizes that there is known, unquantified uncertainty associated with estimating population, water demands, hydrologic conditions, and WMS firm yields. On a region-wide basis, the SCTRWPG considered planning for uncertainty and DWDOR, such as incorporation of forecasting tools and climate models to evaluate supplies or application of a safety factor. However, the SCTRWPG chose not to plan for uncertainty or DWDOR on a regional scale at this time because forecasting tools have not been able to provide the resolution needed for water planning on a regional basis.

Instead, the SCTRWPG included a Legislative and Other Recommendation in Chapter 8 that recognizes that down-scaling of climate models is becoming more sophisticated, and the results are being considered in other planning efforts and models, such as water availability models (WAMs). In Chapter 8, the SCTRWPG recommends that 1) the Texas Legislature fund relevant studies and down-scaled regional models to incorporate available climate variability into the Regional Water Planning process; and 2) the TWDB to reassess available climate models and consider incorporating them into Regional Water Planning.

## 2. Uncertainty and Droughts Worse Than the Drought of Record (3 of 5)

#### Proposed Language for Chapter 7:

For the 2026 RWP, the SCTRWPG considered incorporating planning measures that could address a DWDOR, such as a management supply (safety) factor to develop supplies in excess of projected needs. However, the SCTRWPG recognizes that supplies are understood best by the water suppliers and suggests that WUGs consider their demand projections, along with water supply volumes and reliability, to determine whether a safety factor or other planning measure would be appropriate to incorporate as a WUG-specific planning measure. Therefore, the SCTRWPG chose not to incorporate region-wide planning measures to address a DWDOR at this time.

2. Summarize the key assumptions, analyses, strategies, and projects that are already included in the 2026 **RWP** calculations and recommendations that go beyond just meeting identified water needs anticipated under a DOR. If the RWP does not include any planning measures to address a DWDOR, this subsection must include a statement to that effect.



3. Provide a high-level summary of potential measures and responses that would likely be available to WUGs in the event of near-term onset of a DWDOR to provide additional, potential capacity to withstand a DWDOR. RWPGs are not expected to identify conditions constituting a **DWDOR or provide** details on potential capacities needed to plan for a DWDOR.

## 2. Uncertainty and Droughts Worse Than the Drought of Record (4 of 5)

#### Proposed Language for Chapter 7:

In the event of a near-term onset of a DWDOR, WUGs and WWPs without adequate management supplies could potentially implement various measures and responses that would likely be available and capable of providing additional demand reductions or additional water supply capacities to withstand the DWDOR.

(Continued on subsequent slide  $\rightarrow$ )



## 2. Uncertainty and Droughts Worse Than the Drought of Record (5 of 5)

#### Proposed Language for Chapter 7 (Continued from previous slide):

The following provides examples of demand management and water supply measures that could be implemented during a DWDOR:

Demand Management Measures:

- For WUGs and WWPs that do not already have the Drought Management WMS included as a Recommended strategy in the RWP: Implement Drought Management reductions associated with outdoor watering restrictions, conversion of irrigated crops to dry farming, or temporary suspension of water use.
- For WUGs and WWPs with the Drought Management WMS included as a Recommended strategy in the RWP: Implement additional drought management measures beyond those in the plan.

Water Supply Measures:

- Pursue new direct potable reuse to extend existing supplies
- Pursue new groundwater well
- Pursue new brackish groundwater well with desalination
- Pursue new plan to blend brackish groundwater with existing water supply without additional desalination
- Implement new or existing emergency interconnects with other water providers
- Purchase hauled water via trucked water systems

# 3. Current Preparations for Drought in the Region Including Unnecessary or Counterproductive Drought Response

#### **Requirement:**

- Describe current preparations for drought, including a summary of drought response efforts that the region has identified as unnecessary or counterproductive
- Review and summarize, at a minimum, efforts for neighboring communities that may confuse the public or impede drought response efforts, such as differences in the implementation of outdoor watering restrictions.

Proposed Direction for 2026 Region L Regional Water Plan is to Carry Forward Same Language/Approach from 2021 Plan

The SCTRWPG recognizes that each entity develops drought response measures and tailors them to their own unique circumstances and goals. In an effort to ensure that local water managers can continue to manage their local water supplies, the SCTRWPG chose to deem no variations in drought response strategies as unnecessary or counterproductive.

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## 8. Other Drought-Related Considerations and Recommendations (1 of 4)

#### **Requirement:**

- The RWPG must consider any relevant recommendations from the Drought Preparedness Council (DPC).
- The DPC provided a letter to Region L on February 8, 2024, that included three recommendations that is summarized in subsequent slides.

## 8. Other Drought-Related Considerations and Recommendations (2 of 4)

#### Proposed Chapter 7 Language to Address Recommendations from the DPC:

No.	DPC Recommendation	Proposed Chapter 7 Response to DPC Recommendation
1	The regional water plans and state water plan shall serve as water supply plans under drought of record conditions. The DPC encourages regional water planning groups to consider planning for drought	For the 2026 RWP, the SCTRWPG considered planning for a DWDOR; however, the SCTRWPG chose not to incorporate it at this time because forecasting tools have not been able to provide the resolution needed for water planning on a regional basis.
	conditions worse than the drought of record, including scenarios that reflect greater rainfall deficits and/or higher surface temperatures.	Instead, the SCTRWPG included a Legislative and Other Recommendation in Chapter 8 that recognizes that down-scaling of climate models is becoming more sophisticated, and the results are being considered in other planning efforts and models, such as water availability models (WAMs). In Chapter 8, the SCTRWPG recommends that 1) the Texas Legislature fund relevant studies and down-scaled regional models to incorporate available climate variability into the Regional Water Planning process; and 2) the TWDB to reassess available climate models and consider incorporating them into Regional Water Planning.
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## 8. Other Drought-Related Considerations and Recommendations (3 of 4)

Proposed Chapter 7 Language to Address Recommendations from the DPC:

No.	DPC Recommendation	Proposed Chapter 7 Response to DPC Recommendation
2	The Drought Preparedness Council encourages regional water planning groups to incorporate projected future reservoir evaporation rates in their assessments of future surface water availability.	Historical reservoir evaporation rates are incorporated into WAMs that the SCTRWPG uses to determine surface water availability. However, projected future reservoir evaporation rates would require development of climate models with resolution needed for water planning on a regional basis.
		As described previously, the SCTRWPG understands that incorporation of down scaled climate models is being considered for inclusion in WAMs, which would incorporate projected future reservoir evaporation rates. In Chapter 8, the SCTRWPG recommends incorporating these models into Regional Water Planning efforts.
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## 8. Other Drought-Related Considerations and Recommendations (4 of 4)

#### Proposed Chapter 7 Language to Address Recommendations from the DPC:

No.	DPC Recommendation	Proposed Chapter 7 Response to DPC Recommendation
3	The Drought Preparedness Council encourages regional water planning groups to identify in their plans utilities within their boundaries that reported having less than 180 days of available water supply to the Texas Commission on Environmental Quality during the current or preceding planning cycle. For systems that appeared on the 180-day list, RWPGs should perform the evaluation required by Texas Administrative Code Section 357.42(g), if it has not already been completed for that system.	Chapter 7 of the RWP includes a summary of WUGs who reported having less than 180 days of available water supply to the TCEQ. Additionally, the RWP includes the evaluation required in 31 TAC §357.42(g), which identifies potential alternative water sources for temporary emergency use by WUGs and WWPs in the event of water supplies becoming temporarily unavailable.
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## 9. Development of Region-Specific Model DCPs

#### **Requirement:**

• Develop at least two region-specific model drought contingency plans (DCPs). It is at the discretion of the RWPG on the type of DCPs developed but is recommended that RWPGs develop plans that would be of use to the types of water users within the regional water planning area (RWPA).

#### Proposed Direction for 2026 Region L Regional Water Plan

- For WUGs Relying on Purchased Water: The SCTRWPG recognizes that supplies are understood best by the operators and suggests that WUGs review DCPs that their water provider(s) have adopted.
- For WUGs Relying on Self-Supplied Water: The SCTRWPG suggests reviewing drought responses and recommendations used by similar entities in the region. DCPs from GBRA and SAWS were selected as examples for surface water and groundwater sources, respectively. The EAA Critical Period/Drought Management Plan is included because it applies to municipal, industrial, and irrigation users.

TOPIC E Water Management Strategy (WMS) Updates	
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Presentation of WMS	Ss in Two B	locks		
1. Advanced Water Conservation	13. Balancing Storag	<u>e</u>	23. NBU ASR Project	
2. Non-municipal Water Conservation	14. ARWA Expanded	Carrizo-Wilcox	24. NBU Trinity Well Field Expansion	
3. Drought Management	Project (Phase 2)	1	25. <u>SAWS Expanded Local Carrizo</u>	
4. Edwards Transfers	15. <u>ARWA DPR Proje</u>	ect (Phase 3)	Project	
5. Fresh Groundwater Development	16. CRWA Expanded Wilcox Project	Brackish Carrizo-	26. <u>SAWS Expanded Brackish</u> <u>Groundwater Project</u>	
6. Brackish Groundwater Development	17. CRWA Siesta Proj	iect	27. SAWS Regional Wilcox Project	
7. Groundwater Conversions	18. CRWA Wells Rand	ch 3 (Phase 2)	28. SSLGC Expanded Brackish Wilcox	1
8. Facilities Expansion	Project		Project	
9. Recycled Water	19. <u>CVLGC Carrizo Pr</u>	oject	29. SSLGC Expanded Carrizo Project	
10. Brush Management	20. GBRA Lower Basi	n New	30. Victoria ASR Project	
11. Rainwater Harvesting	Appropriation		31. Victoria Groundwater-Surface	
12. Surface Water Rights	21. GBRA WaterSECU	JRE	Water Exchange	
	22. Medina County R	legional ASR Project	32. Weather Modification	
Legend				
Block 1: August RWPG Meeting Present	tation			3(





#### 4. Edwards Transfers **Project Description** Transfer of Edwards Aquifer Authority (EAA) No. **Sponsor** No. **Sponsor** willing buyers. Permits between willing sellers and willing buyers. Permits with "Irrigation" use type would be transferred to WUGs that already rely on Edwards-BFZ Aquifer for Municipal, Manufacturing, Minian or Steam Florting user 1 Air Force Village II Inc 12 Kirby 13 Leon Valley 2 Alamo Heights Mining, or Steam-Electric uses. Transfer potential is limited to unrestricted EAA permit volumes and is 3-4 Atascosa Rural WSC 14 Live Oak subject to EAA rules, Edwards Aquifer Habitat Conservation Plan, Critical Period Management 5 Bexar County WCID 10 15 Lytle Plan, and any other EAA forbearance programs. Castroville 16 Schertz 6 • <u>Project Sponsor(s)</u>: Varies, see table to the right 7 Converse 17 Selma Source: Edwards-BFZ Aquifer 8 East Medina County SUD 18 Uvalde Yield: 15,212 acft/yr Implementation Decade: 2030 Ville Dalsace Water 19 9 Fort Sam Houston Components: Supply - Conversion and transfer of irrigation permits 10 Green Valley SUD 20 Yancey WSC for other uses - Integration components 11 Hondo

#### Strategy Yield by WUG (1 of 2)

#### 4. Edwards Transfers

					Yield (a	cft/yr)		
No.	Sponsor	Source County	2030	2040	2050	2060	2070	2080
1	Air Force Village II Inc	Bexar	30	30	30	30	30	30
2	Alamo Heights	Bexar	200	200	200	200	200	200
3	Atascosa Rural WSC	Atascosa	335	335	335	335	335	335
4	Atascosa Rural WSC	Bexar	1,550	1,550	1,550	1,550	1,550	1,550
5	Bexar County WCID 10	Bexar	400	400	400	400	400	400
6	Castroville	Medina	950	950	950	950	950	950
7	Converse	Bexar	200	200	200	200	200	200
8	East Medina County SUD	Medina	350	350	350	350	350	350
9	Fort Sam Houston	Bexar	1,617	1,617	1,617	1,617	1,617	1,617
10	Green Valley SUD	Comal	20	20	20	20	20	20
	<b>REGION L TOTAL</b>		15,212	15,212	15,212	15,212	15,212	15,212
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Stra 4. Ec	ategy Yield by WUG Iwards Transfers	6 (2 of 2)						C						
			Yield (acft/yr)											
No.	Sponsor	Source County	2030	2040	2050	2060	2070	2080						
11	Hondo	Medina	350	350	350	350	350	350						
12	Kirby	Bexar	150	150	150	150	150	150						
13	Leon Valley	Bexar	860	860	860	860	860	860						
14	Live Oak	Bexar	10	10	10	10	10	10						
15	Lytle	Medina	200	200	200	200	200	200						
16	Schertz	Medina	5,000	5,000	5,000	5,000	5,000	5,000						
17	Selma	Medina	2,500	2,500	2,500	2,500	2,500	2,500						
18	Uvalde	Uvalde	350	350	350	350	350	350						
19	Ville Dalsace Water Supply	Medina	80	80	80	80	80	80						
20	Yancey WSC	Medina	60	60	60	60	60	60						
	<b>REGION L TOTAL</b>		15,212	15,212	15,212	15,212	15,212	15,212						
Draft								Black & Veatch						


Stra	tegy Yield by Wl	JG (1 of 2)	)				
4. Luv					1		
No.	Sponsor	2030	2040		2060	2070	2080
1	Air Force Village II Inc	\$67,088	\$67,088	\$67,088	\$67,088	\$67,088	\$67,088
2	Alamo Heights	\$447,254	\$447,254	\$447,254	\$447,254	\$447,254	\$447,254
3	Atascosa Rural WSC (via Atascosa County)	\$749,151	\$749,151	\$749,151	\$749,151	\$749,151	\$749,151
4	Atascosa Rural WSC (via Bexar County)	\$3,466,221	\$3,466,221	\$3,466,221	\$3,466,221	\$3,466,221	\$3,466,221
5	Bexar County WCID 10	\$894,509	\$894,509	\$894,509	\$894,509	\$894,509	\$894,509
6	Castroville	\$2,124,458	\$2,124,458	\$2,124,458	\$2,124,458	\$2,124,458	\$2,124,458
7	Converse	\$447,254	\$447,254	\$447,254	\$447,254	\$447,254	\$447,254
8	East Medina County SUD	\$782,695	\$782,695	\$782,695	\$782,695	\$782,695	\$782,695
9	Fort Sam Houston	\$3,616,051	\$3,616,051	\$3,616,051	\$3,616,051	\$3,616,051	\$3,616,051
10	Green Valley SUD	\$44,725	\$44,725	\$44,725	\$44,725	\$44,725	\$44,725
	REGION L TOTAL	\$34 018 163	\$34,018,163	\$34.018.163	\$34.018.163	\$34.018.163	\$34.018.163

# Strategy Yield by WUG (2 of 2)

### 4. Edwards Transfers

			ļ	Annual Costs \$	/acft per year		
No.	Sponsor	2030	2040	2050	2060	2070	2080
11	Hondo	\$782 <i>,</i> 695	\$782,695	\$782,695	\$782,695	\$782,695	\$782,695
12	Kirby	\$335,441	\$335,441	\$335,441	\$335,441	\$335,441	\$335,441
13	Leon Valley	\$1,923,194	\$1,923,194	\$1,923,194	\$1,923,194	\$1,923,194	\$1,923,194
14	Live Oak	\$22,363	\$22,363	\$22,363	\$22,363	\$22,363	\$22,363
15	Lytle	\$447,254	\$447,254	\$447,254	\$447,254	\$447,254	\$447,254
16	Schertz	\$11,181,358	\$11,181,358	\$11,181,358	\$11,181,358	\$11,181,358	\$11,181,358
17	Selma	\$5,590,679	\$5,590,679	\$5,590,679	\$5,590,679	\$5,590,679	\$5,590,679
18	Uvalde	\$782,695	\$782,695	\$782,695	\$782,695	\$782,695	\$782,695
19	Ville Dalsace Water Supply	\$178,902	\$178,902	\$178,902	\$178,902	\$178,902	\$178,902
20	Yancey WSC	\$134,176	\$134,176	\$134,176	\$134,176	\$134,176	\$134,176
	REGION L TOTAL	\$34,018,163	\$34,018,163	\$34,018,163	\$34,018,163	\$34,018,163	\$34,018,163

September 2023 dollars
 Annual costs developed using average unit costs of \$3,160, which includes integration costs for facility upgrades

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5. Fresh Groundwater Devel	Fresh Groundwater Development					
Project Description						
Fresh groundwater projects for WUGs who	No	Sponsor	No.	Sponsor		
nclusion of a groundwater project. Includes	1	Atascosa Rural WSC	9	Martindale WSC		
wo categories: Expand Groundwater Use and Develop New Wells.	2	Benton City WSC	10	Mining, Uvalde		
Project Sponsor(s): Varies, see table to the	3	Clear Water Estates Water System	11	Oak Hills WSC		
Source: Varies	4	Crystal Clear SUD	12	Pearsall		
<u>Yield:</u> Varies Implementation Decade: Varies	5	Crystal Clear SUD	13	Picosa WSC		
<u>Components:</u> – Varies, examples include:	6	Garden Ridge	14	Springs Hill WSC		
<ul> <li>Well field, pump, and piping</li> <li>Storage tank</li> </ul>	7	Kendall West Utility	15	Springs Hill WSC		
<ul> <li>Water treatment plant</li> </ul>	8	KT Water Development	16	Wingert Water Systems		

Strategy Yield by WUG (1 of 3) 5. Fresh Groundwater Development – Expand Groundwater Use* * No project costs are associated with strategy.						ᄎ r	New in 2	026 Plar	
				Ex	pand Gro	undwate	r Use, Yie	ld (acft/y	)
No.	Sponsor	Aquifer	Source County	2030	2040	2050	2060	2070	2080
1	Benton City WSC	Carrizo-Wilcox	Atascosa	0	0	200	300	400	500
2	Kendall West Utility	Trinity	Kendall	0	0	400	400	400	400
3	Oak Hills WSC	Carrizo-Wilcox	Wilson	373	475	588	714	857	1,015
4	Pearsall	Carrizo-Wilcox	Frio	100	100	100	100	100	100
5	Picosa WSC	Carrizo-Wilcox	Wilson	0	38	84	122	169	221
	REGION	N L TOTAL		473	613	1,372	1,636	1,926	2,236
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<b>St</b> 5. F	rategy Yield	by WUG ( er Developme irm yields that are	2 of 3) nt – Deve MAG-limited	<b>elop New</b> d, meaning th	Wells* ey are lowe	r than the re	equested ar	ew in 20	026 Plan <sub>text)</sub>	ę
						Develo	o New Wel	ls, Yield (a	cft/yr)	
			Source							
No.	Sponsor	Aquifer	County	Yield Type	2030	2040	2050	2060	2070	2080
1	Ataccoca Rural M/SC	Carrizo Wilcov	Ataccoca	Firm	1,200	1,400	1,600	1,800	2,000	2,200
Т	Aldscosa Rurai WSC	Carrizo-wilcox	Aldscosd	Requested	1,200	1,400	1,600	1,800	2,000	2,200
2	Clear Water Estates	Tripity	Comal	Firm	918	1,165	1,454	1,771	1,989	1,973
2	Water System	THILLY	Comai	Requested	918	1,165	1,454	1,771	2,069	2,351
3	Crystal Clear SLID	Trinity	Comal	Firm	1,988	1,988	1,988	1,988	1,911	1,668
5		miney	coma	Requested	1,988	1,988	1,988	1,988	1,988	1,988
Л	Crystal Clear SLID	Carrizo-Wilcov	Guadalune	Firm	443	367	403	378	380	370
4	Crystal Clear SOD	Carrizo-Wilcox	Guadalupe	Requested	766	766	766	766	766	766
5	Garden Ridge	Trinity	Comal	Firm	1,163	1,635	2,111	2,659	3,182	3,425
J	Garden Nuge	THILLY	Comar	Requested	1,163	1,635	2,111	2,659	3,310	4,081
6	KT Water	Trinity	Comal	Firm	486	973	1,624	2,448	3,260	3,752
0	Development	THILLY	Comai	Requested	486	973	1,624	2,448	3,391	4,471
	REGION			Firm	8,051	9,606	11,318	13,963	15,642	16,301
	REGION			Requested	9,516	11,162	12,778	14,667	16,759	19,092
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<b>St</b> 5. F	rategy Yield Fresh Groundwat *Some strategies have f	by WUG ( er Developme firm yields that are	3 of 3) ent – Dev MAG-limited	<b>elop New</b> d, meaning th	Wells* ey are lowe	r than the re	equested ar	ew in 20	)26 Plan text)	ę
						Develo	o New Wel	ls, Yield <u>(ac</u>	ft/yr)	
			Source							
No.	Sponsor	Aquifer	County	Yield Type	2030	2040	2050	2060	2070	2080
7	Martindale WSC	San Marcos	Caldwell	Firm	0	240	240	240	240	240
'		<b>River Alluvium</b>	Caluwell	Requested	0	240	240	240	240	240
8	Mining Uvalde	Leona Gravel	Uvalde	Firm	1,400	1,400	1,400	1,400	1,400	1,400
0	winning, Ovalue		Ovalue	Requested	1,400	1,400	1,400	1,400	1,400	1,400
9	Springs Hill WSC	Carrizo-Wilcox	Guadalune	Firm	324	268	295	277	278	271
5	opingo nin woe		Guudulupe	Requested	560	560	560	560	560	560
10	Springs Hill WSC	Carrizo-Wilcox	Wilson	Firm	94	164	201	1,000	1,000	1,000
				Requested	1,000	1,000	1,000	1,000	1,000	1,000
11	Wingert Water	Trinity	Havs	Firm	35	6	2	2	2	2
	Systems			Requested	35	35	35	35	35	35
	REGIO	N L TOTAL		Firm	8,051	9,606	11,318	13,963	15,642	16,301
				Requested	9,516	11,162	12,778	14,667	16,759	19,092
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6. Brackish Groundwater De	6. Brackish Groundwater Development					
Project Description						
Brackish groundwater projects for WUGs who requested inclusion of a brackish groundwater	No.	Project Name	Sponsor(s)			
project. Includes projects with source water having concentrations of total dissolved solids (TDS) > 1.000 mg/l.	1	Caldwell Brackish Partnership Project	Caldwell County-Other, County Line SUD, Maxwell SUD			
Project Sponsor(s): Varies, see table to the right     Source: Carries Wilson Aquifer Tripity Aquifer	2	Gonzales & Guadalupe Brackish Partnership Project	Caldwell County-Other, County Line SUD, Maxwell SUD			
Source: Carries Wilcox Aquifer, Trinity Aquifer, Edwards-BFZ Aquifer     Yield: Varies     Implementation Decade: Varies	3	County Line SUD – Trinity Project	County Line SUD			
Components:     Varies, examples include:     Well field nume, and nining	4	County Line SUD - Brackish Edwards Project	County Line SUD			
<ul> <li>Storage tank</li> <li>Brackish desalination water treatment</li> </ul>	5	Maxwell WSC – Trinity Project	Maxwell WSC			
O Injection wells	6	S S WSC - Brackish Carrizo-Wilcox Project	S S WSC			

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							Yield (ad	cft/yr)		
No.	Project	Aquifer	Source County	Yield Type	2030	2040	2050	2060	2070	2080
1	Caldwell Brackish Partnership Project	Carrizo-Wilcox	Caldwell	Firm Requested	0 0	<mark>1,176</mark> 10,305	<mark>4,137</mark> 10,305	<mark>5,103</mark> 10,305	<mark>6,303</mark> 10,305	<mark>6,2</mark> 9
2	Gonzales & Guadalupe Brackish Partnership Project	Carrizo-Wilcox	Gonzales & Guadalupe	Firm Requested	0 0	<mark>6,894</mark> 13,329	<mark>9,525</mark> 13,329	<mark>9,384</mark> 13,329	<mark>9,594</mark> 13,329	7,99 13,32
3	County Line SUD – Trinity Project	Trinity	Hays	Firm Requested	0	0 0	<mark>30</mark> 500	<mark>34</mark> 740	34 740	74
4	County Line SUD - Brackish Edwards Project	Edwards-BFZ (Saline)	Hays	Firm Requested	0	0	500 500	1,000 1,000	1,366 1,500	1,36 1,50
5	Maxwell WSC – Trinity Project	Trinity	Hays	Firm Requested	0 0	<mark>41</mark> 230	14 230	11 230	11 230	23
6	S S WSC - Brackish Carrizo- Wilcox Project	Carrizo-Wilcox	Wilson	Firm Requested	0 0	0 0	0 0	<mark>722</mark> 1,120	<mark>937</mark> 1,120	93 1,12
	REGION L	TOTAL		Firm Requested	0 0	8,111 23,864	14,206 24,864	16,254 26,724	18,245 27,224	16,6 27,2









<b>P</b> r 6.	<b>oject Cost Estimate</b> Brackish Groundwater Devel	Summary lopment	/		🙏 N	lew in 2026 Plan
No.	Project	Project Costs	Annual Costs*	First Decade Firm Yield (acft/yr)	Unit Costs* (\$/acft/yr)	September 2023
1	Caldwell Brackish Partnership Project	\$292,793,000	\$40,970,000	1,176	\$34,838	dollars
2	Gonzales & Guadalupe Brackish Partnership Project	\$421,443,000	\$56,005,000	6,894	\$8,124	<ul> <li>Developed using Uniform Costing</li> </ul>
3	County Line SUD - Trinity Project	\$56,315,000	\$9,979,000	30	\$332,633	Model (UCM)
4	County Line SUD - Brackish Edwards Project	\$20,907,000	\$7,492,000	500	\$14,984	methodology from TWDB
5	Maxwell WSC - Trinity Project	\$18,050,000	\$2,674,000	41	\$65,220	Includes capital costs
6	S S WSC - Brackish Carrizo-Wilcox Project	\$52,902,000	\$ 8,815,000	722	\$12,209	annual debt service,
	REGION L TOTALS	\$862,410,000	\$125,869,000	9,363	\$77,992	operation and
Note * Inc the f	s: ludes debt service amortization at 3.5% irst decade firm yield, which is MAG-lin	5 for 20 years, O8 hited in some ins	&M, and power tances	costs. Unit costs	are based on	maintenance, and environmental mitigation



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# A. Groundwater Conversions Project Description WMS is intended to be used by WUGs where the Fresh or Brackish Groundwater WMSs would be the primary recommended strategy to meet their needs but there is no groundwater availability because of limited permits and/or MAG estimates. This strategy includes purchasing and/or leasing existing irrigation or mining groundwater permits, and changing the type of use to municipal use. Project Sponsor(s): Varies, depending on needs balance after WMSs Source: Varies Yield: Varies Minplementation Decade: Varies Components: Limited to permit transfers and negotiations between willing sellers and willing buyers. Costs: Annual unit cost of \$3,160, which includes integration costs for facility upgrades.

Environmental & Cultural Considerations 7. Groundwater Conversions	
Vegetation, Land Use, & Agricultural Resources	ı 🖸
<ul> <li>Transfer of irrigation permits may result in conversions to dry land crops or grassland</li> </ul>	
Conversion to native herbaceous species may be beneficial to native wildlife	
Aquatic Resources	1
New projects will require on-site delineation of streams and wetlands	ASSESSMENT RATING LEGEND
Threatened, Endangered, & Species of Concern	10 N/A
<ul> <li>New project development may affect suitable habitat for proposed federally endangered tricolored bat, monarch butterfly, and state listed threatened species</li> <li>Site-specific assessments for federal and state-listed species will be required</li> </ul>	Minimal concerns; precautions recommended
Cultural Considerations	Additional studies recommended
<ul> <li>For new project development, structured cultural resources survey of the final design plan is recommended</li> </ul>	Draft Block & 64



# 8. Facilities Expansion

### **Project Description**

WMS is intended to be used by WUGs who plan expansions to water-related infrastructure, such as expanded water treatment plants, pump stations, and pipelines.

- <u>Project Sponsor(s)</u>: Varies, see table to the right
- <u>Source</u>: Varies
- <u>Yield</u>: Varies
- Implementation Decade: Varies, see table to the right
- <u>Costs</u>: Varies

No.	Sponsor	Project Name	Implementa- tion Decade
1	CRWA	Lake Dunlap WTP Expansion (2 MGD)	2030
2	CRWA	Hays Caldwell WTP Expansion (2 MGD)	2030
3	County Line SUD	SH 21 Booster Site	2040
4	County Line SUD	High Road Booster Site	2030
5	County Line SUD	Bobwhite Booster Site	2040
6	GBRA	Western Canyon WTP Expansion (5 MGD)	2060
7	New Braunfels	South WTP Expansion (8 MGD)	2030
8	New Braunfels	Seguin Interconnect	2030
9	SAWS	Southeast Integration Pipeline	2040
10	SAWS	Expanded ASR Treatment Plant (30 MGD)	2030
11	Springs Hill WSC	Zone 2 Transmission Main	2030
12	Springs Hill WSC	Gamecock WTP (4 MGD)	2040
13	Steam-Electric, Bexar	CPS Energy Direct Recycle Pipeline	2030



# Strategy Yield by WUG and Cost Estimate Summary (1 of 2)

### 8. Facilities Expansion

- September 2023 dollars
- Developed using Uniform Costing Model (UCM) methodology from TWDB

No.	Sponsor	Project Name	Implementa- tion Decade	Capacity of Expansion* (acft/yr)	Cost of Facilities	Cost of Project**	Annual Cost**
1	CRWA	Lake Dunlap WTP Expansion (2 MGD)	2030	2,300	\$9.88M	\$13.78M	\$1.86M
2	CRWA	Hays Caldwell WTP Expansion (2 MGD)	2030	2,300	\$9.88M	\$13.78M	\$1.86M
3	County Line SUD	SH 21 Booster Site	2040	N/A	\$1.5M	\$2.1M	\$0.22M
4	County Line SUD	High Road Booster Site	2030	N/A	\$1M	\$1.4M	\$0.14M
5	County Line SUD	Bobwhite Booster Site	2040	N/A	\$2M	\$2.8M	\$0.31M
6	GBRA	Western Canyon WTP Expansion (5 MGD)	2060	5,600	\$16.98M	\$23.73M	\$2.98M
7	New Braunfels	South WTP Expansion (8 MGD)	2030	9,000	\$24.08M	\$33.65M	\$4.1M
* Capacity of expansion for certain conveyance projects is not included because project is infrastructure only; supply is related or tied to an existing surplus or other WMS. ** Includes debt service amortization at 3.5% for 20 years, O&M, and power costs							
	Block &						

# Strategy Yield by WUG and Cost Estimate Summary (2 of 2)

### 8. Facilities Expansion

- September 2023 dollars
- Developed using Uniform Costing Model (UCM) methodology from TWDB

No.	Sponsor	Project Name	Implementa- tion Decade	Capacity of Expansion* (acft/yr)	Cost of Facilities	Cost of Project**	Annual Cost**		
8	New Braunfels	Seguin Interconnect	2030	2,500	\$2.58M	\$4.2M	\$0.68M		
9	SAWS	Southeast Integration Pipeline	2040	N/A	\$56.41M	\$76.99M	\$6.58M		
10	SAWS	Expanded ASR Treatment Plant (30 MGD)	2040	33,600	\$66.42M	\$92.59M	\$11.16M		
11	Springs Hill WSC	Zone 2 Transmission Main	2030	2,240	\$42.03M	\$58.54M	\$4.61M		
12	Springs Hill WSC	Gamecock WTP (4 MGD)	2040	2,200	\$45.9M	\$64.33M	\$7.89M		
13	Steam-Electric, Bexar	CPS Energy Direct Recycle Pipeline	2030	50,000***	\$62.2M	\$85.2M	\$7.49M		
* C exi ** **	<ul> <li>* Capacity of expansion for certain conveyance projects is not included because project is infrastructure only; supply is related or tied to an existing surplus or other WMS.</li> <li>** Includes debt service amortization at 3.5% for 20 years, O&amp;M, and power costs</li> <li>*** Pipeline capacity is 50,000 acft/yr; firm yield is 2,500 acft/yr.</li> </ul>								



# 9. Recycled Water

-		-		
Pro	lect	1)00	crin	tior
	CCC			

Reuse of wastewater treatment plant (WWTP) effluent through direct or indirect means and for potable and non-potable purposes.

- Project Sponsor(s): Varies, see table to the right
- <u>Source:</u> WWTP Effluent <u>Yield:</u> Varies

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- Implementation Decade: Varies, see table to the right
- <u>Components:</u> Varies, examples include: <u>Transmission pipeline</u>
  - Pump station
  - Storage tank
  - Additional water treatment • Advanced water treatment, such as reverse osmosis
  - Injection wells

No.	Sponsor	Reuse Type	Implementa- tion Decade
1	Boerne	Direct, Non-Potable	2030
2	County Line SUD	Direct, Non-Potable	2040
3	East Central SUD	Direct, Non-Potable (SARA)	2030
4	Fair Oaks Ranch	Direct, Non-Potable	2030
5	GBRA	Direct, Non-Potable	2030
6	Kyle	Direct, Non-Potable	2030
7	Live Oak	Direct, Non-Potable (SARA)	2030
8	New Braunfels	Direct, Non-Potable	2050
9	SAWS	Direct, Non-Potable	2030
10	SAWS	Direct, Potable	2060
11	San Marcos	Direct, Potable	2050
12	San Marcos	Direct, Non-Potable	2030
13	Universal City	Direct, Non-Potable (SARA)	2030

# **Strategy Yield by WUG**

### 9. Recycled Water

			Yield (acft/yr)					
No.	Sponsor	Reuse Type	2030	2040	2050	2060	2070	2080
1	Boerne	Direct, Non-Potable	1,500	1,500	1,785	2,000	2,250	2,250
2	County Line SUD	Direct, Non-Potable	0	560	3,360	3,360	3,360	3,360
3	East Central SUD	Direct, Non-Potable (SARA)	2,250	4,167	6,067	7,033	8,000	8,000
4	Fair Oaks Ranch	Direct, Non-Potable	425	500	525	525	525	525
5	GBRA	Direct, Non-Potable	1,064	6,778	10,587	10,587	10,587	10,587
6	Kyle	Direct, Non-Potable	3,105	4,786	4,786	4,786	4,786	4,786
7	Live Oak	Direct, Non-Potable (SARA)	2,250	4,167	6,067	7,033	8,000	8,000
8	New Braunfels	Direct, Non-Potable	0	0	7,800	12,600	14,200	15,800
9	SAWS	Indirect, Non-Potable	5,000	5,000	15,000	25,000	40,000	40,000
10	SAWS*	Direct, Potable	0	0	0	25,000	25,000	25,000
11	San Marcos	Direct, Potable	0	0	4,705	4,705	4,705	4,705
12	San Marcos	Direct, Non-Potable	1,971	1,971	1,971	1,971	1,971	1,971
13	Universal City	Direct, Non-Potable (SARA)	2,250	4,167	6,067	7,033	8,000	8,000
	REGION L TOTAL		19,815	33,596	68,720	111,633	131,384	132,984
* S	AWS requested inclu	ision of WMS as an Alternative strate	gy					Black B

![](_page_50_Figure_1.jpeg)

### 9. Recycled Water

No.	Sponsor	Project Cost	Annual Costs*	First Decade Project Yield (acft/yr)	Unit Costs* (\$/acft/yr)		
1	Boerne	\$ 9,790,000	\$ 786,000	1,500	\$ 524		
2	County Line SUD	\$ 52,736,000	\$ 6,640,000	560	\$ 11,857		
3	East Central SUD	\$ 47,369,000	\$ 3,673,000	2,250	\$ 544		
4	Fair Oaks Ranch	\$ 3,746,000	\$ 308,000	425	\$ 725		
5	GBRA	\$ 41,535,000	\$ 3,968,000	1,064	\$ 3,729		
6	Kyle	\$ 23,657,000	\$ 2,057,000	3,105	\$ 662		
7	Live Oak	\$ 47,369,000	\$ 3,673,000	2,250	\$ 544		
8	New Braunfels	\$ 33,252,000	\$ 2,823,000	7,800	\$ 362		
9	SAWS (Non-Potable)	\$ 396,046,000	\$ 55,437,000	5,000	\$ 11,087		
10	SAWS* (Potable)	\$ 348,862,000	\$ 46,321,000	25,000	\$ 873		
11	San Marcos (Potable)	\$122,317,000	\$8,671,000	4,705	\$1,843		
12	San Marcos (Non-Potable)	\$9,933,000	\$972,000	1,971	\$493		
13	Universal City	\$ 47,369,000	\$ 3,673,000	2,250	\$ 544		
	REGION L TOTALS	\$1,183,981,000	\$139,002,000	57,880	\$2,674		
Notes: * Includes debt service amortization at 3.5% for 20 years, O&M, and power costs. Unit costs are based on firm yield, which is MAG-limited in some instances							

![](_page_50_Picture_5.jpeg)

**Uniform Costing** Model (UCM) methodology from TWDB

dollars

• Includes capital costs, annual debt service, operation and maintenance, and environmental mitigation

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![](_page_51_Picture_1.jpeg)

# 10. Brush Management

🙏 New in 2026 Plan

- **Description:** Targeted control of brush species that are detrimental to water conservation (e.g., juniper, mesquite, saltcedar) to increase available surface and ground water supplies.
- **Methodology:** Outreach and research evaluation of existing brush control studies, including coordination with Texas State Soil and Water Conservation Board (TSSWCB), EAA, Evergreen Underground Water Conservation District (EUWCD), and Nueces River Authority

TSSWCB Brush Control Planning, Assessment, and Feasibility Studies in Region L	Publication Date	Counties Studied
Brush Control Planning, Assessment, and Feasibility Study - Frio River Watershed	2000	Uvalde, Medina, Zavala, Frio, Dimmit, La Salle
Brush Control Planning, Assessment, and Feasibility Study - Nueces River Watershed	2000	Uvalde, Zavala, Dimmit, La Salle
Application of the EDYS Decision Tool For Modeling Of Target Sites [in Gonzales County] for Water Yield Enhancement through Brush Control	2012	Gonzales
Simulation of Streamflow and the Effects of Brush Management on Water Yields in the Upper Guadalupe River Watershed, South-Central Texas, 20: 1995–2010		Kendall, Comal
Brush Management in Gonzales County as a Water Management Strategy	2015	Guadalupe, Caldwell, Gonzales
Effects of Huisache Removal on Rangeland Evapotranspiration in Victoria County, South-Central Texas, 2015–18	2020	Victoria

![](_page_52_Figure_1.jpeg)

![](_page_52_Figure_2.jpeg)

![](_page_53_Figure_1.jpeg)

![](_page_53_Figure_2.jpeg)

![](_page_54_Figure_1.jpeg)

![](_page_54_Picture_2.jpeg)

![](_page_55_Picture_1.jpeg)

# Demand Reduction (Yield) by WUG

### 11. Rainwater Harvesting – Non-potable

![](_page_55_Picture_4.jpeg)

### **Yield Assumptions:**

- 10% of households (one catchment area per household) will implement small-scale rainwater harvesting starting in 2040
- A catchment area of 2,000 square feet yields about 1,000 gallons for 1 inch of rainfall
- Storage capacity limitation of 2,000 gallons/household for small-scale

				Non-potable, Yield (acft/yr)				
WUG	County	Basin	2030	2040	2050	2060	2070	2080
Boerne	Kendall	San Antonio	-	51	69	90	114	141
Kirby	Bexar	San Antonio	-	16	16	16	16	16
Kyle	Hays	Guadalupe	-	132	180	201	208	214
Leon Valley	Bexar	San Antonio	-	28	28	28	28	28
Port Lavaca	Calhoun	Lavaca-Guadalupe	-	17	17	17	17	17
Poteet	Atascosa	Nueces	-	3	3	3	3	3
<b>REGION L TOTA</b>	AL (WUG-spe	ecific)	-	247	313	355	386	419

🙏 New in 2026 Plan

# Demand Reduction (Yield) by WUG

### 11. Rainwater Harvesting – Potable

Yield Assumptions:

- 10% of households (one catchment area per household) will implement large-scale rainwater harvesting starting in 2040
- A catchment area of 2,000 square feet yields about 1,000 gallons for 1 inch of rainfall
- Storage capacity limitation of 15,000 gallons/household for large-scale

				Potable, Yield (acft/yr)				
WUG	County	Basin	2030	2040	2050	2060	2070	2080
County-Other	Caldwell	Colorado/Guadalupe	_	1	3	2	3	5
County-Other	Comal	Guadalupe/San Antonio	-	37	52	114	152	199
County-Other	Guadalupe	Guadalupe/San Antonio	-	4	7	9	12	15
County-Other	Hays	Guadalupe	-	27	44	118	199	329
REGION L TOTA	L (County-Ot	her)	-	69	106	243	366	548

![](_page_56_Figure_8.jpeg)

### \lambda New in 2026 Plan **11. Rainwater Harvesting** Non-potable Household System = \$8,000 ٠ Potable Household System = \$21,000 September 2023 2080 Project Unit Costs\* **Cost of Facilities** Sponsor Annual Costs\* Yield (acft/yr) (\$/acft/yr) dollars Boerne \$29,856,000 \$3,590,000 141 \$25,461 Developed using • Kirby \$3,144,000 \$378,000 16 \$23,625 Uniform Costing Kyle \$41,760,000 \$23,463 \$5,021,000 214 Model (UCM) Leon Valley \$5,480,000 \$659,000 28 \$23,536 methodology Port Lavaca \$3,296,000 \$396,000 17 \$23,294 from TWDB Poteet \$632,000 \$76,000 3 \$25,333 Includes capital Caldwell C-O \$2,205,000 \$265,000 5 \$53,000 costs and annual Comal C-O \$90,678,000 \$10,903,000 199 \$54,789 debt service Guadalupe C-O \$6,720,000 \$808,000 15 \$53,867 Hays C-O \$150,024,000 \$18,039,000 329 \$54,830 TOTAL \$333,795,000 \$40,135,000 \$36,120 967 \* Includes debt service amortization at 3.5% for 10 years Draft

**Project Cost Estimate Summary** 

![](_page_57_Picture_2.jpeg)

![](_page_58_Figure_1.jpeg)

![](_page_58_Figure_2.jpeg)

### **Project Cost Estimate Summary** 16. CRWA Expanded Brackish Carrizo-Wilcox Project WMS Cost Summary **Cost of Facilities** \$236,210,000 **Total Project Cost** \$332,516,000 Project Yield (acft/yr) 14,700 **Total Annual Cost\*** \$46,455,000 Annual Unit Cost (\$/acft)\* \$3,160 Annual Unit Cost, After Debt \$1,570 Service (\$/acft)

 $^{\ast}$  Includes debt service amortization at 3.5% for 20 years, O&M, and power costs Based on a peaking factor of 1.3.

• September 2023 dollars

 Developed using Uniform Costing Model (UCM) from TWDB

 Includes capital costs, annual debt service, operation and maintenance, power, land acquisition, and environmental mitigation

![](_page_59_Picture_6.jpeg)

# **17. CRWA Siesta Project**

### **Project Description**

Diversion of surface water from Cibolo Creek in Wilson County and transmission to an existing elevated storage tank (EST). Surface water supplied by existing and amended water rights, along with treated effluent from multiple WWTPs.

- Project Sponsor(s): CRWA
- Source: Cibolo Creek in Wilson County
- Yield: 5,042 acft/yr
- Implementation Decade: 2060
- Components:
  - Channel dam
  - Intake
  - Pump stations
  - Transmission pipeline (23 miles)
  - Water treatment plant (6.8 MGD)

![](_page_60_Figure_14.jpeg)

![](_page_60_Figure_15.jpeg)

17. CRWA Siesta Project

WMS Cost Summary					
Cost of Facilities	\$145,560,000				
Total Project Cost	\$202,995,000				
Project Yield (acft/yr)	5,042				
Total Annual Cost*	\$20,259,000				
Annual Unit Cost (\$/acft)*	\$4,018				
Annual Unit Cost, After Debt Service (\$/acft)	\$1,190				

\* Includes debt service amortization at 3.5% for 20 years, O&M, and power cost Based on a peaking factor of 1.5.

• September 2023 dollars

 Developed using Uniform Costing Model (UCM) from TWDB

 Includes capital costs, annual debt service, operation and maintenance, power, land acquisition, purchase of water, and environmental mitigation

![](_page_61_Picture_8.jpeg)

![](_page_62_Figure_1.jpeg)

![](_page_62_Figure_2.jpeg)

18. CRWA Wells Ranch 3 (Phase 2) Project

WMS Cost Summary						
Cost of Facilities	\$100,076,000					
Total Project Cost	\$139,137,000					
Project Yield (acft/yr)	14,500					
Total Annual Cost*	\$13,643,000					
Annual Unit Cost (\$/acft)*	\$941					
Annual Unit Cost, After Debt Service (\$/acft)	\$268					

 $\ast$  Includes debt service amortization at 3.5% for 20 years, O&M, and power costs Based on a peaking factor of 1.0.

•	September	2023	dol	lars
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 Developed using Uniform Costing Model (UCM) from TWDB

 Includes capital costs, annual debt service, operation and maintenance, power, land acquisition, and environmental mitigation

![](_page_63_Picture_8.jpeg)

![](_page_64_Figure_1.jpeg)

![](_page_64_Figure_2.jpeg)

20. GBRA Lower Basin New Appropriation

WMS Cost Summary			
Cost of Facilities	\$163,412,000		
Total Project Cost	\$249,823,000		
Project Yield (acft/yr)	26,500		
Total Annual Cost*	\$19,461,000		
Annual Unit Cost (\$/acft)*	\$734		
Annual Unit Cost, After Debt Service (\$/acft)	\$140		

\* Includes debt service amortization at 3.5% for 20 years, O&M, and power costs Based on a peaking factor of 1.0.

• September 2023 dollars

 Developed using Uniform Costing Model (UCM) from TWDB

 Includes capital costs, annual debt service, operation and maintenance, power, land acquisition, and environmental mitigation

![](_page_65_Picture_8.jpeg)

![](_page_66_Figure_1.jpeg)

![](_page_66_Figure_2.jpeg)

![](_page_67_Figure_1.jpeg)

![](_page_67_Figure_2.jpeg)

### Project Cost Estimate Summary 21. GBRA WaterSECURE

# WMS Cost Summary

Cost of Facilities	\$3,778,218,000
Total Project Cost	\$6,093,657,000
Project Yield (acft/yr)	125,000
Total Annual Cost*	\$595,573,000
Annual Unit Cost (\$/acft)*	\$4,765
Annual Unit Cost, After Debt Service (\$/acft)	\$1,381

\* Includes debt service amortization at 3.5% for 20 years, O&M, and power costs Based on a peaking factor of 1.0.

### • September 2023 dollars

 Developed using Uniform Costing Model (UCM) from TWDB

 Includes capital costs, annual debt service, operation and maintenance, power, land acquisition, and environmental mitigation

![](_page_68_Picture_8.jpeg)

![](_page_69_Figure_1.jpeg)

	Strategy	y Yield b	y WUG
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r User Group (WUG) C* ia County SUD*	<b>2030</b> 0	2040	2050	2060		
iC* 1a County SUD*	0			2000	2070	2080
a County SUD*		1,193	1,193	1,193	1,193	2,386
	0	870	870	870	870	1,740
	0	915	915	915	915	1,830
	0	268	268	268	268	536
	0	439	439	439	439	878
	0	403	403	403	403	806
	0	123	123	123	123	246
ina WSC	0	121	121	121	121	242
	0	151	151	151	151	302
y WSC	0	1,767	1,767	1,767	1,767	3,534
	0	6,250	6,250	6,250	6,250	12,500
* For Regional Water Planning purposes, Yancey WSC and East Medina County SUD are the WMS sponsors and the other WUGs are						
	ina WSC y WSC er Planning purposes, Yancey W ers.	er Planning purposes, Yancey WSC and East Med ers	Image: Constraint of the second se	0       268       268         0       439       439         0       403       403         0       403       403         0       123       123         10       121       121         10       151       151         y WSC       0       1,767         0       6,250       6,250         er Planning purposes, Yancey WSC and East Medium County SUB are the WWS	Image: style with the style with th	ind       268       268       268       268         ind       0       439       439       439       439         ind       0       403       403       403       403         ind WSC       0       121       121       121       121         ind WSC       0       151       151       151       151         ind WSC       0       157       1,767       1,767       1,767         ind WSC       0       6,250       6,250       6,250       6,250         ind WSC       0       1,767       1,767       1,767       1,767

🙏 New in 2026 Plan

# 22. Medina County Regional ASR Project

![](_page_70_Figure_1.jpeg)

<b>Project Cost Estimate Sumr</b> 22. Medina County Regional ASR Proj	📩 New in 2026 Plan		
WMS Cost Summa	ary		
Cost of Facilities	\$347,308,000	September 2023 dollars	
Total Project Cost	\$480,734,000	Developed using Uniform	
Project Yield (acft/yr)	12,500	Costing Model (UCM) from TWDB	
Total Annual Cost*	\$49,206,000	<ul> <li>Includes capital costs,</li> </ul>	
Annual Unit Cost (\$/acft)*	\$3,936	annual debt service,	
Annual Unit Cost, After Debt Service (\$/acft)	\$1,230	maintenance, power, land acquisition, and	
* Includes debt service amortization at 3.5% for 20 y Based on a peaking factor of 1.8.	environmental mitigation		

![](_page_71_Picture_1.jpeg)

![](_page_71_Figure_2.jpeg)


<b>Project Cost Estimate Sum</b> 30. Victoria ASR	mary	9
WMS Cost Summa	ary	
Cost of Facilities	\$40,634,000	September 2023 dollars
Total Project Cost	\$58,504,000	Developed using Uniform
Project Yield (acft/yr)	7,900	Costing Model (UCM) from TWDB
Total Annual Cost*	\$4,116,000	<ul> <li>Includes capital costs,</li> </ul>
Annual Unit Cost (\$/acft)*	\$687	annual debt service,
Annual Unit Cost, After Debt Service (\$/acft)	\$166	maintenance, power, land acquisition, and
* Includes debt service amortization at 3.5% for 20 years, O&M, and power costs Based on a peaking factor of 1.0.		environmental mitigation  Draft Work 118



## 31. Victoria Groundwater-Surface Water Exchange

#### **Project Description**

Amendment to existing surface water rights to authorize diversion of additional surface water from the Guadalupe River, which would be offset by withdrawing and discharging groundwater into the Guadalupe River.

- Project Sponsor(s): Victoria
- <u>Source:</u> Guadalupe River, offset by Gulf Coast Aquifer groundwater in Victoria County
- <u>Yield:</u> 8,544 acft/yr
- Implementation Decade: 2040
- <u>Components:</u>
  - Amendment of existing surface water rights to authorize groundwater offset
     No new facilities





<b>Project Cost Estimate Sumr</b> 31. Victoria Groundwater-Surface Wa			
WMS Cost Summa	ary		
Cost of Facilities	\$0	September 2023 dollars	
Total Project Cost	\$3,494,000	Developed using Uniform     Casting Model (UCM) from	
Project Yield (acft/yr)	8,544	TWDB	
Total Annual Cost*	\$78	Includes power and operation     and maintenance costs	
Annual Unit Cost (\$/acft)*	\$78	Does not include capital	
Annual Unit Cost, After Debt Service (\$/acft)	\$78	infrastructure costs, annual debt service, land acquisition, or environmental mitigation	
* There are no Facilities costs; therefore, debt servic Based on a peaking factor of 1.0.	ce is not included	Draft Week &	122





<b>Str</b> 32. 1	ategy Yield by WUG Neather Modification				💸 New	in 2026 P	lan
				WMS Yield	l (acft/yr)		
No.	Sponsor	2030	2040	2050	2060	2070	2080
1	Atascosa, Irrigation	23,200	23,200	23,200	23,200	23,200	23,200
2	Bexar, Irrigation	9,500	9,500	9,500	9,500	9,500	9,500
3	Frio, Irrigation	15,500	15,500	15,500	15,500	15,500	15,500
4	Karnes, Irrigation	13,500	13,500	13,500	13,500	13,500	13,500
5	Medina, Irrigation	18,300	18,300	18,300	18,300	18,300	18,300
6	Uvalde, Irrigation	5,500	5,500	5,500	5,500	5,500	5,500
7	Wilson, Irrigation	14,200	14,200	14,200	14,200	14,200	14,200
	REGION L TOTAL	99,700	99,700	99,700	99,700	99,700	99,700
							Plack 9



### **Project Cost Estimate Summary** 32. Weather Modification

WMS Cost Summa	ary
Cost of Facilities	\$905,000
Total Project Cost	\$1,234,000
Project Yield (acft/yr)	99,700
Total Annual Cost*	\$329,000
Annual Unit Cost (\$/acft)*	\$3

- September 2023 dollars
- Developed using Uniform Costing Model (UCM) from TWDB
- Includes capital costs and operation and maintenance

Draft

AGENDA ITEM NO.8 – CONSIDERATION AND APPROPRIATE ACTION TO DESIGNATE WATER MANAGEMENT STRATEGIES (WMS) AS RECOMMENDED, ALTERNATIVE, OR CONSIDERED



## Make Initial Determination on which Strategies are Recommended, Alternative, or Neither

#### Input Needed from RWPG

Designate each strategy as Recommended, Alternative, or Considered But Not Recommended

- Asking RWPG to make initial determination on whether each strategy is Recommended, Alternative, or Considered But Not Recommended.
  - Determination can change before IPP is submitted, or up until final plan adoption.
- A strategy may need to be "Alternative", based on its sources and yields.
- Some WUGs/MWPs may have multiple strategies to meet a need, and one strategy can be Recommended, while another is "Alternative".
  - Plan amendment would be needed to move an "Alternative" strategy to "Recommended" for a WUG to be eligible for SWIFT funding
- The Cumulative Effects Analysis in Chapter 6 will evaluate the impact of all Recommended strategies on agricultural and natural resources

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## **PRINCIPLE IV**

Role of the Planning Group in Influencing Water Development Plans of Water Suppliers The role of the SCTRWPG is to ensure water needs are met with identified potentially feasible water management strategies. It is not the role of the SCTRWPG to influence or interfere with local water planning decisions. In the absence of a planning group recommended potentially feasible water management strategy to meet an identified need, the SCTRWPG may evaluate and report, as required, the social, environmental and economic impacts of not meeting the identified need.



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:
	<ul> <li>supply water, reduce water demands, or otherwise satisfy one or more identified needs;</li> </ul>
	<ul> <li>include an evaluation and description consistent with standards used by the SCTRWPG and its technical consultants as required by TWDB Rules;</li> </ul>
	<ul> <li>satisfy all relevant requirements established by the TWDB, including environmental flow standards;</li> </ul>
	<ul> <li>identify one or more entities, with sufficient ability and willingness to implement the strategy, as being the strategy's sponsor(s);</li> </ul>
	<ul> <li>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</li> </ul>
	<ul> <li>identify groundwater conservation districts or TCEQ with jurisdiction over the proposed strategy.</li> </ul>





## Designate WMSs as Recommended, <u>Alternative</u>, or Considered (1 of 4)



• Snapshot/Heat Map of WMSs with their yields, costs, and environmental assessment ratings

WMS No.	WMS Name	WMS Sponsor	Designation in Previous Plan (or New)	Suggestion for 2026 Plan
1	Municipal Water Conservation	All Municipal WUGs (except County-Other) with ≥ 80 GPCD	Recommended	Recommended
2	Non-municipal Water Conservation	Irrigation WUGs with Needs	New	Recommended
3	Drought Management	Varies	Recommended	Recommended
4	Edwards Transfers	Varies	Recommended	Recommended
5	Fresh Groundwater Development	Varies	New	Recommended
6	Brackish Groundwater Development	Varies	New	Recommended
7	Groundwater Conversions	Varies	Recommended	Recommended
8	Facilities Expansion	Varies	Recommended	Recommended
9	Recycled Water	Varies	Recommended	Recommended; SAWS' Direct Reuse as Alternative
				136

## Designate WMSs as Recommended, Alternative, or Considered (2 of 4)



• Snapshot/Heat Map of WMSs with their yields, costs, and environmental assessment ratings

WMS No.	WMS Name	WMS Sponsor	Designation in Previous Plan (or New)	Suggestion for 2026 F	Plan
10	Brush Management	N/A - None	New	Considered but no Recommended	t
11	Rainwater Harvesting	Varies	New	Recommended	
12	Surface Water Rights	N/A - None	Recommended	Recommended	
13	Balancing Storage	N/A - None	Recommended	Recommended	
14	ARWA Expanded Carrizo-Wilcox Project (Phase 2)	ARWA	Recommended	Recommended	
15	ARWA DPR Project (Phase 3)	ARWA	Recommended	Recommended	
16	CRWA Expanded Brackish Carrizo-Wilcox Project	CRWA	Recommended	Recommended	
17	CRWA Siesta Project	CRWA	Recommended	Recommended	
18	CRWA Wells Ranch 3 (Phase 2) Project	CRWA	Recommended	Recommended	
19	CVLGC Carrizo Project	CVLGC	Recommended	Recommended	
					137

## Designate WMSs as Recommended, Alternative, or Considered (3 of 4)

See Handout C for WMS Snapshot

• Snapshot/Heat Map of WMSs with their yields, costs, and environmental assessment ratings

WMS			Designation in Previous Plan	
NO.	WIVIS Name	wivis Sponsor	(or New)	Suggestion for 2026 Plan
20	GBRA Lower Basin New Appropriation	GBRA	Recommended	Recommended
21	GBRA WaterSECURE	GBRA	New	Recommended
22	Medina County Regional ASR	Yancey WSC and East Medina County SUD	New	Recommended
23	NBU ASR	NBU	Recommended	Recommended
24	NBU Trinity Well Field Expansion	NBU	Recommended	Recommended
25	SAWS Expanded Local Carrizo Project	SAWS	Recommended	Recommended
26	SAWS Expanded Brackish Groundwater Project	SAWS	Recommended	Recommended
27	SAWS Regional Wilcox Project	SAWS	New	Recommended
28	SSLGC Expanded Brackish Wilcox Project	SSLGC	Recommended	Recommended
29	SSLGC Expanded Carrizo Project	SSLGC	Recommended	Recommended

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## Designate WMSs as Recommended, Alternative, or Considered (4 of 4)



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• Snapshot/Heat Map of WMSs with their yields, costs, and environmental assessment ratings

WMS No.	WMS Name	WMS Sponsor	Designation in Previous Plan (or New)	Suggestion for 2026 Plan
30	Victoria ASR	City of Victoria	Recommended	Recommended
31	Victoria Groundwater-Surface Water Exchange	City of Victoria	Recommended	Recommended
32	Weather Modification	Certain Irrigation WUGs	New	Recommended





HANDOUT A

#### South Central Texas (Region L) Regional Water Planning Group Policy and Legislative Recommendations Workgroup Workgroup Meeting August 1, 2024 at 1:30 PM

#### Meeting Notes and Summary of Sections Revised or Removed

The South Central Texas (Region L) Regional Water Planning Group's (SCTRWPG) Legislative and Policy Workgroup (Workgroup) met on August 1<sup>st</sup> to discuss revisions and updates to Chapter 8: Policy Recommendations and Unique Sites. The approach of the meeting was to review each section / recommendation beginning where the July 10<sup>th</sup> Workgroup meeting left off (Section 8.3.6 Innovative Strategies, Subsection 8.3.6.2 Drought Management) to determine by consensus whether each section and recommendation should be retained, revised, or removed. For sections and recommendations needing to be revised, interested Workgroup members volunteered to be responsible for collaborating with other volunteers (as applicable) to propose revisions to the Workgroup at a September Workgroup meeting.

This document summarizes the following:

- I. Next Steps and Action Items
- II. Sections and Recommendations Identified for Revision
- III. Sections and Recommendations Identified for Removal
  - A.) Sections Removed During July 10<sup>th</sup> Workgroup Meeting
  - B.) Sections Removed During August 1<sup>st</sup> Workgroup Meeting

At the August 1<sup>st</sup> Workgroup meeting, the Workgroup reviewed and made modifications to the July 10<sup>th</sup>, 2024, version of the Chapter 8 document that was distributed to the Workgroup by email. A new version (August 16<sup>th</sup>, 2024) reflects the collective edits made by the Workgroup during the August 1<sup>st</sup>, 2024, meeting, along with editorial changes.

## I. Next Steps and Action Items

- **1. Sections and Recommendations Revisions.** Volunteers responsible for proposing revisions to sections and recommendations will:
  - a. Collaborate with other volunteers (as applicable) to develop proposed language.
  - b. Once finalized, volunteers will transmit proposed language to Tim Andruss, Caye Castillo and Lauren Gonzalez via email.
  - c. If possible, please provide revisions in a Word document as tracked changes (volunteers may consider editing this document, if preferred).
  - d. Volunteers are asked to provide revisions to their sections by September 3, 2024.

#### 2. Next Meeting in September.

a. Caye Castillo will send a Doodle poll to Workgroup members to identify a meeting date during the week of September 9<sup>th</sup>.

- b. The September meeting is anticipated to be the last Workgroup meeting for this cycle, unless the need for an additional meeting is identified.
- c. At the September Workgroup meeting, the Workgroup will take action to make a recommendation to the SCTRWPG to approve the proposed and updated Chapter 8.
- d. The Workgroup will present the updated Chapter 8 to the SCTRWPG at the November 7<sup>th</sup> meeting for their consideration and possible approval.

# II. Sections and Recommendations Identified for Revision, Including Associated Volunteers

The following summarizes the sections and recommendations that were identified by the Workgroup as being retained but requiring revisions. Table 1 provides a summary of the sections needing revision.

No.	Date Revision was Identified	Section and Number to be Revised	Revision Volunteers
Α.	July 10 <sup>th</sup> Workgroup Meeting	8.3.1.1 Funding Water Projects for a Growing Region: Project Studies and Implementation (Was Section 8.0 in 7/9/24 Version)	Steven Siebert Jonathan Stinson Dianne Wassenich
В.	August 1 <sup>st</sup> Workgroup Meeting	8.3.1.2 Lengthening Financing Terms (New Section)	Gary Middleton
C.	July 10 <sup>th</sup> Workgroup Meeting	8.3.3.1 Groundwater Management (Was Section 8.3.1 in 7/9/24 Version)	Tim Andruss Michele Foss Steven Siebert
D.	July 10 <sup>th</sup> Workgroup Meeting	<ul> <li>8.3.4.1 Surface Water Availability Model Updates (Was Section 8.4.2 in 7/9/24 Version). Note: On August 1, Jonathan Stinson reported to the Workgroup that upon further review, he does not recommend any revisions to this subsection. Therefore, this item is complete.</li> </ul>	Jonathan Stinson
E.	July 10 <sup>th</sup> Workgroup Meeting	<ul> <li>8.3.5.1 Implementation of Water Conservation Advisory Committee Recommendations (Was Section 8.5.1 in 7/9/24 Version); and</li> <li>8.3.5.2 Water Loss and Non-Revenue Water (New Section)</li> </ul>	Michele Foss Lauren Gonzalez Steven Siebert Jonathan Stinson Dianne Wassenich

#### Table 1. Summary of Revision Volunteers and Associated Sections

F.	July 10 <sup>th</sup> Workgroup Meeting	8.3.6.1	Assistance for Alternative Rangeland Management (Was Section 8.6.3 in 7/9/24 Version)	Dianne Wassenich
G.	August 1 <sup>st</sup> Workgroup Meeting	8.3.7	Water Quality (Was Section 8.3.7.5 in 7/10/24 Version)	Lauren Gonzalez Jonathan Stinson Aarin Teague Dianne Wassenich
Н.	August 1 <sup>st</sup> Workgroup Meeting	8.3.8	Water Data Collection (Was Section 8.3.9.1 in 7/10/24 Version)	Michele Foss
Ι.	August 1 <sup>st</sup> Workgroup Meeting	8.3.9	Consideration of Climate Variability (Was Section 8.3.9.4 in 7/10/24 Version)	Erin Cavazos Michele Foss Steven Siebert

## <u>A. Revision Volunteers: Steven Siebert, Jonathan Stinson, and Dianne</u> <u>Wassenich</u>

#### 8.3.1 Funding Water Projects for a Growing Region

#### 8.3.1.1 Project Studies and Implementation (*Was Section 8.0 in 7/9/24 Version*)

The SCTRWPA is located in one of the fastest growing regions of the United States. Region L comprises 21 counties with a current population of 3.0 million people. Based on board-approved projections from the Texas Water Development Board (TWDB), the population is projected to increase to 3.9 million people in 2030, 4.7 million people by 2040, and 7.6 million people by the end of the 50-year planning horizon in 2080. Water User Groups (WUGs) and wholesale water providers (WWPs) have the responsibility of meeting the water needs of these future Texans.

**Legislative Recommendation:** In order to meet the water needs of the State and to support the growing population and economy, the SCTRWPG recommends the Texas Legislature allocate funding to state and local governmental entities to support studies of innovative water management strategies (WMSs) and implementation of water supply projects.

Other Recommendation: None.

#### B. Revision Volunteers: Gary Middleton

#### 8.3.1.2 Lengthening Financing Terms (New Section)

The price of water has increased tremendously over the past 30 years, raising utility concerns regarding water affordability for rate payers. The TWDB's current loan and funding programs have 30-year financing terms available. However, many of these projects have a project life greater than 50 years, placing the financial burden on rate payers now when it would be used by future rate payers. Lengthening the financing terms to 40 or 50 years would mean utilities

would pay for these projects over a longer period of time, which could enable utilities more flexibility to ensure affordable rates for residents.

**Legislative Recommendation:** The SCTRWPG recommends the Texas Legislature pass legislation that enables the TWDB loan and funding programs to provide 40- and 50-year financing terms, in addition to the current 30-year financing term available. This lengthened financing term would allow payment for projects over a longer period of time, which could help with water affordability.

Other Recommendation: None.

### C. Revision Volunteers: Tim Andruss, Michele Foss, and Steven Siebert

#### 8.3.3 Groundwater

#### 8.3.3.1 Groundwater Management (*Was Section 8.3.1 in 7/9/24 Version*)

The SCTRWPG respects the rules and regulations of groundwater conservation districts (GCDs), as it does those of all other subdivisions of the state and state agencies. The SCTRWPG respects the decision of the Texas Supreme Court that groundwater is a private property right (Chapter 36 of the Texas Water Code [TWC]). The SCTRWPG believes that all rules adopted by GCDs pursuant to administrative procedures established under Chapter 36 of the TWC should be based on standards of rationality, equity, and scientific evidence to support the achievement of desired future conditions (DFCs) established by a groundwater management area (GMA). The SCTRWPG supports the use of aquifer monitoring programs implemented by GCDs within a GMA to evaluate achievement of and compliance with DFCs.

The SCTRWPG recognizes that the development of brackish groundwater resources is an important water supply strategy in meeting the state's projected water demands.

*Legislative Recommendation:* The SCTRWPG recommends the Texas Legislature support the development of brackish groundwater resources as an important water supply strategy by funding additional studies and research, providing financial assistance for specific projects, as well as promoting efficient permitting by regulatory agencies.

#### D. Revision Volunteer: Jonathan Stinson

## *Update on 8/1/2024: Upon further review, Jonathan Stinson reported back to the Workgroup that he does not recommend any revisions to this subsection. Therefore, this item is complete.*

**8.3.4.1** Surface Water Availability Model Updates (*Was Section 8.4.2 in 7/9/24 Version*) Although a new drought of record has not occurred for the Guadalupe-San Antonio Basin since the 1950s, appropriate updates to the related water availability models would increase the simulation period by at least 50 percent and facilitate development of improved estimates of channel losses and missing streamflow records (especially those during the drought of record) throughout the watersheds. Furthermore, an extension of the Guadalupe-San Antonio WAM naturalized flow set would enhance the permitting process by providing additional hydrologic data used in the determination of the attainment frequencies associated with freshwater inflow regimes.

*Legislative Recommendation:* Periodic updates to the Guadalupe-San Antonio and Nueces WAMs should be performed at least every 10 years so that hydrologic data included in the models is within 10 years of the current date. The SCTRWPG recommends the Texas Legislature fund the TCEQ to update the Water Availability Models (WAMs) for the Guadalupe-San Antonio River Basin and Nueces River Basin to include the most-recent available hydrologic data, and continue allocating funding to update the WAMs on a 10-year basis.

## <u>E.</u> <u>Revision Volunteers:</u> <u>Michele Foss, Lauren Gonzalez, Steven Siebert,</u> Jonathan Stinson, and Dianne Wassenich

#### 8.3.5 Conservation and Water Loss (Was Section 8.5 in 7/9/24 Version)

## 8.3.5.1 Implementation of Water Conservation Advisory Committee Recommendations (*Was Section 8.5.1 in 7/9/24 Version*)

**Legislative and Other Recommendations:** The SCTRWPG recommends the Texas Legislature provide adequate funding to implement the HB 4 (2007) Water Conservation Advisory Committee's recommendations, particularly the statewide public education programs, further definition of gallons per capita per day objectives, and the development of regional conservation data that can be used by the SCTRWPG members to optimize future conservation efforts.

#### **8.3.5.2 Water Loss and Non-Revenue Water (New Section)** Legislative Recommendation: TBD

Other Recommendation: TBD

#### F. Revision Volunteer: Dianne Wassenich

## 8.3.6.1 Assistance for Alternative Rangeland Management (*Was Section 8.6.3 in 7/9/24 Version*)

*Legislative Recommendation:* The SCTRWPG recommends the Texas Legislature increase funding to the Texas State Soil and Water Conservation Board for the purpose of studying the effectiveness of proven rangeland management practices.

Other Recommendation: None.

## <u>G.</u> Revision Volunteers: Lauren Gonzalez, Jonathan Stinson, Aarin <u>Teague, and Dianne Wassenich</u>

#### 8.3.7 Water Quality (*Was Section 8.3.7.5 in 7/10/24 Version*)

The primary focus of the regional water planning process is to ensure that water supplies are identified in sufficient quantity to meet future water demands; however, the SCTRWPG recognizes that the quality of those water supplies is also important to protect. Protecting groundwater and surface water supplies from contamination not only helps to reduce the cost to treat water to public drinking water standards, but also reduces pollutants that may harm the ecological health of the basin.

#### Legislative Recommendation: None.

**Other Recommendation:** The SCTRWPG recommends the TCEQ and local governments promote practices and/or regulations to avoid or mitigate threats to water quality in surface water and groundwater sources.

### H. Revision Volunteer: Michele Foss

#### 8.3.8 Water Data Collection (*Was Section 8.3.9.1 in 7/10/24 Version*)

*Legislative Recommendation:* The SCTRWPG recommends the Texas Legislature fully fund the cooperative, federal-state-local program of basic water data collection, including (1) stream gages-quantity and quality; (2) groundwater monitoring-water levels and quality; (3) hydrographic surveys and sediment accumulation in reservoirs; (4) water surface evaporation rates; (5) water use data for all WUGs; (6) population projections; and (7) Clean Rivers Program.

Other Recommendation: None.

#### I. Revision Volunteers: Erin Cavazos, Michele Foss, and Steven Siebert

#### 8.3.9 Consideration of Climate Variability (*Was Section 8.3.9.4 in 7/10/24 Version*)

Regional Water Plans are based on drought of record conditions using historical hydrologic data. Historically, the TWDB has not used climate models to predict impacts to future water resources in Texas because forecasting tools have not been able to provide the resolution needed for water planning. The SCTRWPG recognizes that more sophisticated models are continuously being developed for use on global and regional levels. Furthermore, Texas utilities are increasingly incorporating climate change impacts into water availability models (WAMs) and other models to determine water demands, supplies, and availability for use in long-range water resource studies. *Legislative Recommendation:* The SCTRWPG recommends the Texas Legislature fund relevant studies and regional models to incorporate available climate variability data into the Regional Water Planning process.

**Other Recommendation:** The SCTRWPG recommends the TWDB to reassess available climate models and consider the appropriateness of incorporating them into regional water planning.

## III. Sections and Recommendations Identified for Removal

The following summarizes the sections and recommendations that were identified for removal during Workgroup Meetings on July 10<sup>th</sup> and August 1<sup>st</sup>. This section is divided into two subsections based on which Workgroup meeting the sections were identified for removal.

### A. Sections Removed During July 10th Workgroup Meeting

The following sections were identified for removal during the July 10<sup>th</sup> Workgroup Meeting. Language and numbering in this subsection reflect the July 9, 2024, version that was updated by Tim Andruss and Steven Siebert.

#### 8.1.1 Irrigation Water Needs (Partial Removal)

**Other Recommendation:** The SCTRWPG recommends the TWDB, in cooperation with the agriculture industry agencies and trade groups in Texas, undertake studies of the factors that influence decisions regarding development of irrigation water supplies for the purpose of developing the best approach to (1) project future irrigation water needs and (2) identify the instances in which regional water planning efforts would be the most appropriate mechanism for developing strategies to meet future needs.

#### 8.1.2 Water Use Information

Legislative Recommendation: None.

**Other Recommendation:** The SCTRWPG recommends the TWDB develop the necessary programs and processes to accurately estimate annual water use for irrigation, including water use associated with agricultural activities unrelated to federal or state funding programs, and livestock watering categories.

#### 8.2 Collaboration Between Regional Planning Areas

The SCTRWPG supports Charge 1 of the Interregional Planning Council to improve coordination among the Regional Water Planning Groups, and between each regional water planning group and the Board, in meeting the goals of the State Water Planning Process and the water needs of the State as a whole.

#### Legislative Recommendation: None.

**Other Recommendation:** The SCTRWPG recommends the TWDB continue to fund and support the interregional planning group's recommendations.

#### 8.3.2 Groundwater Sustainability

#### Legislative Recommendation: None.

**Other Recommendation:** The SCTRWPG recommends WMS sponsors implementing any WMS within this Regional Water Plan relying on groundwater resources incorporate groundwater monitoring of both quantity and quality, recharge protection and enhancement, conservation methods and related practices, as determined to be appropriate by the associated GCDs. Where no district exists, the WMS sponsor should monitor impacts and, when appropriate, take corrective action consistent with the goal of groundwater sustainability.

**Other Recommendation:** The SCTRWPG recommends GCDs manage groundwater resources toward the goal of long-term sustainability and recommends WMSs that support achievement of this goal. This recommendation is intended to help protect all users of aquifers, to help preserve the long-term integrity of aquifers, and to build awareness of the effects of groundwater production and development on those aquifers.

#### 8.3.3 Shared Groundwater Resources Among Planning Regions

#### Legislative Recommendation: None.

**Other Recommendation:** The SCTRWPG recommends water user groups (WUGs), relying upon on a WMS with a groundwater source to meet the WUG's demand during the planning period and the WMS is anticipated to have a significant impact on a groundwater resource located in two or more planning region(s), provide notice to those region(s) of the proposed date of implementation and anticipated acre-feet per year demand on the shared groundwater resource.

#### 8.3.4 Reliance on Groundwater and Surface Water for Future Needs

The SCTRWPG recognizes a need to rely on groundwater and surface water resources to develop a practical and reasonable plan to address water needs within the region for the future.

#### Legislative Recommendation: None.

**Other Recommendation:** The SCTRWPG recommends the TWDB provide incentives to develop conjunctive use projects that more efficiently utilize groundwater and surface water.

#### 8.3.5 Land Stewardship

#### Legislative Recommendation: None.

**Other Recommendation:** The SCTRWPG recommends the TWDB provide incentives for implementing or enhancing land stewardship management practices that are shown to augment the quality and quantity of surface water and groundwater resources.

#### 8.4.1 Surface Water Rights Monitoring and Administration

The SCTRWPG reaffirms its commitment to safeguarding the integrity of water rights.

*Legislative Recommendation:* The SCTRWP recommends the Texas Legislature provide adequate funding for the Texas Commission on Environmental Quality (TCEQ) to ensure the legal and appropriate use of permitted surface water rights through comprehensive monitoring and administrative programs, such as the Watermaster program.

Other Recommendation: None.

#### 8.6.1 Assistance for Alternative Water Supply Strategies

**Legislative Recommendation:** The SCTRWPG recommends the Texas Legislature increase funding to assist water planning regions and local water entities in developing demonstration projects for alternative water supply strategies and technologies, such as, but not limited to, seawater desalination and direct potable reuse.

Other Recommendation: None.

#### 8.6.2 Seawater Desalination

The SCTRWPG supports the funding of state and/or federal programs for research and potential incentives to make seawater desalination more affordable.

Legislative Recommendation: None.

Other Recommendation: None.

#### 8.6.4 Rainwater Harvesting and Other Systems

The SCTRWPG encourages the study of the effectiveness of rainwater harvesting systems in both commercial and residential new development.

Legislative Recommendation: None.

**Other Recommendation:** The SCTRWPG recommends the TWDB develop programs to educate the public and building industry on the potential benefits of rainwater harvesting, water reuse, and gray water systems.

#### 8.6.5 Weather Modification

Weather modification could potentially support water supplies in general.

**Legislative Recommendation:** The SCTRWPG recommends the Texas Legislature continue to support the existing Weather Modification Program and the development of innovative technology.

Other Recommendation: None.

#### **B.** Sections Removed During August 1<sup>st</sup> Workgroup Meeting

The following sections were identified for removal during the August 1<sup>st</sup> Workgroup Meeting. Language and numbering in this subsection reflect the July 10, 2024, version of the document.

#### 8.3.6.2 Drought Management

The SCTRWPG used the TWDB Drought Management Costing Tool for the 2026 South Central Texas Regional Water Plan to estimate economic impacts associated with implementation of drought management as a WMS. Application of this methodology for regional water planning purposes has facilitated comparison of drought management to other potentially feasible WMSs on a unit cost basis. The SCTRWPG has found, and the San Antonio Water System (SAWS) has demonstrated, that WUGs having sufficient flexibility to focus on discretionary outdoor water use first and avoid water use reductions in the commercial and manufacturing use sectors may find some degrees of drought management to be economically viable and cost-competitive with other WMSs. The SCTRWPG recognizes that implementation of appropriate WMSs is a matter of local choice.

#### Legislative Recommendation: None.

**Other Recommendation:** Recognizing that implementation of appropriate WMSs is a matter of local choice, the SCTRWPG recommends WUGs give consideration of economically viable drought management as an interim strategy to meet near-term needs through demand reduction until such time as economically viable long-term water supplies can be developed.

#### 8.3.6.3 Potable Water Reuse

The SCTRWPG recognizes the potential to augment water supply by reuse of treated municipal wastewater, agricultural return flows, and industrial process water with direct potable reuse (DPR) and Indirect potable reuse. The SCTRWPG has recommended multiple WMSs that enable utilities and industries to extend use of their existing water resources through treatment and reuse of water.

*Legislative Recommendation:* The SCTRWPG recommends the Texas Legislature amend the TWC to add a new chapter to include reuse in the state's administration of water rights.

**Other Recommendation:** The SCTRWPG recommends the TWDB and TCEQ (1) financially support research for determining appropriate technology and risk mitigation approaches necessary to significantly expand water reuse with appropriate protections for the public, environment, and worker health; and (2) assist the funding and development of incentive programs to advance water reuse projects.

#### 8.3.7.1 Support of Habitat Conservation Plans

The SCTRWPG supports the state's use of habitat conservation plans as approved by the United States Fish and Wildlife Service (USFWS), resulting in the issuance of an incidental take permit that allow for protection of endangered species and the development of adequate water supplies for the region.

Legislative Recommendation: None.

Other Recommendation: None.

#### 8.3.7.2 Ecosystem Health, Quality of Life, and Growth Management for Texas

The rapid growth occurring in South Central Texas has the potential to negatively impact quality of life. Human demands for water and infrastructure development may outstrip the ability of the region's resources to respond and to be sustainable. State water policies should address these issues and evaluate land use and the health of its ecosystem to prepare for the future and support a sustainable quality of life for all Texans.

Legislative Recommendation: None.

Other Recommendation: None

#### 8.3.7.3 Instream Flows and Bays and Estuaries

The SCTRWPG is appreciative of legislative action in the form of Senate Bill 3 (SB 3, 80th Texas Legislature) that established and funded an environmental flows process integrating bestavailable science and diverse regional stakeholder input into the process for selecting appropriate instream flow and freshwater inflow goals on a stream-by-stream and estuary-byestuary basis. The appropriate balance of environmental and human needs during severe drought has significant effects on the firm yield and associated cost of potential water supply projects. The 2016 Regional Water Plans were the first to be prepared using environmental flow standards adopted pursuant to the SB 3 process. The RWPG is equally appreciative of SB 2 (77th Texas Legislature) and supports continuation of the studies within the South Central Texas Regional Water Planning Area. *Legislative Recommendation:* The SCTRWPG recommends that the Texas Legislature provide definitive direction on continued stakeholder involvement and scientific review of the process for evaluating potential changes to the adopted environmental flow standards.

**Other Recommendation:** The SCTRWPG recommends the TCEQ, TPWD, and TWDB complete the Texas Instream Flow Studies Program and improvement of the state's bays and estuaries freshwater inflow studies.

#### 8.3.7.4 Environmental Studies

The SCTRWPG recognizes that significant needs exist in Bexar and the surrounding counties and that new supplies need to be developed in the Guadalupe River and San Antonio River watersheds. There are issues related to environmental impacts that need further study to determine feasibility of a range of recommended surface water, groundwater, reuse, and conjunctive use WMSs.

#### Legislative Recommendation: None.

**Other Recommendation:** The SCTRWPG recommends the TCEQ, GBRA, and SARA undertake additional environmental studies to evaluate the effects of new water supply WMSs proposed within the Guadalupe River and San Antonio River watersheds on the ecosystems that rely on inflow to San Antonio Bay and flows of the Guadalupe River and San Antonio River watersheds.

#### 8.3.8.1 Funding

The SCTRWPG believes that state funding should be provided as a key incentive for partnership in funding from local, regional, and federal governmental agencies.

#### Legislative Recommendation: None.

**Other Recommendation:** The SCTRWPG recommends the TCEQ and TWDB actively support solicitation of federal funding for development of new water supply sources, especially when the need for which is based in part upon federal requirements, such as the Endangered Species Act.

#### 8.3.8.2 Continuation of Regional Water Planning

The SB 1 Regional Water Planning Process is an important program.

*Legislative Recommendation:* The SCTRWPG recommends the Texas Legislature adequately fund the work of RWPGs.

Other Recommendation: None.

#### 8.3.8.3 Guiding Principles of the 2026 Regional Water Plan

In response to comments raised by members of the SCTRWPG and the public during the review of the initially prepared 2016 Regional Water Plan, the SCTRWPG categorized strategic topics for discussion to enable the group to improve its development of the 2021 Regional Water Plan. The process was referred to as the 2021 Plan Enhancement Process. The SCTRWPG discussed each topic area and over the course of several SCTRWPG meetings in 2016 and 2017 and developed the SCTRWPG Guiding Principles. The Guiding Principles were subsequently updated for development of the 2026 Regional Water Plan (Refer to Appendix 8-A). The following provides a list of the Guiding Principles established by the SCTRWPG:

- Appropriateness and adequacy of how demand and need are determined;
- Role of Regional Water Planning Groups in influencing population growth and land use;
- Conflicts of interests with respect to planning group members;
- The role of the planning group in influencing water development plans of water suppliers;
- The role of the planning group in influencing permitting entities;
- The adequacy of evaluating the plan's effects on freshwater inflows to San Antonio Bay, and the adequacy of environmental assessments of individual water management strategies;
- Minimum Standards for Water Management Strategies;
- Recommended Water Management Strategies;
- Management Supply;
- The Role of Reuse within the Regional Water Plan; and
- Identifying special studies or evaluations deemed important to enhance the 2026 plan, the identification of outside funding sources, and the extent to which innovative strategies should be used.

#### Legislative Recommendation: None.

**Other Recommendation:** The SCTRWPG recommends RWPGs complete a process to discuss strategic topics to improve future RWPs.

## 8.3.8.4 Notification of Counties with Proposed Water Management Strategies in Regional Water Plans

The SCTRWPG recognizes the importance of local stakeholder involvement during development of water supply projects. The first step in achieving local stakeholder involvement is notification of planned water projects. While the TWDB has notification requirements associated with the public hearings and publication of the Initially Prepared Plan and Final Regional Water Plan, there are no requirements to notify a county of water supply projects or WMSs that are planned to be located within their respective county.

#### Legislative Recommendation: None.

Other Recommendation: None.

#### 8.3.8.5 Role of the TWDB with Other State and Federal Agencies

Frequently, intergovernmental cooperation and engagement among agencies is necessary for the planning and implementation of water-related projects. In instances where state representation is warranted, the TWDB should be the agency to coordinate and engage with federal agencies during permitting and decision-making processes.

Legislative Recommendation: None.

**Other Recommendation:** The SCTRWPG recommends the TWDB be responsible for facilitating the funding and permitting of projects in the State Water Plan by other state and federal agencies.

#### 8.3.9.2 Access to State Water Data

The SCTRWPG recognizes the significant efforts that the TWDB has undertaken to make regional water planning and state water planning data available to and usable by the public.

*Legislative Recommendation:* The SCTRWPG recommends the Texas Legislature adequate fund the critical roles of TWDB, TCEQ, and TPWD in facilitating access to water data essential for local and regional planning and plan implementation purposes.

Other Recommendation: None.

#### 8.3.9.3 Population and Water Demand Projections

The SCTRWPG recognizes that the TWDB bases its water demand projections on patterns of population and economic growth while also permitting revisions of state data to incorporate additional information developed by the planning regions. The SCTRWPG appreciates that the TWDB has facilitated more active involvement of the RWPGs in refining water demand projections for use in the 2026 Regional Water Plans. Nevertheless, some groups believe that the methodology puts an unfair limitation on access to water for future growth, particularly in areas that may experience more rapid change than they have in the past. The SCTRWPG recognizes the significant progress made by the TWDB in refining the methodology for population and water demand projections, specifically with the transition from city-based projections to utility-based projections. However, the SCTRWPG has continued to experience challenges with the lack of flexibility within the methodology to address rapidly growing municipal water demands. Water demand projections used in developing the Regional Water Plan should be consensus figures arrived at by using TWDB data along with local input from the cities, counties, and groundwater districts.

Legislative Recommendation: None.

**Other Recommendation:** The SCTRWPG recommends the TWDB provide greater flexibility through relaxation of current methodological assumptions holding county, regional, and state population projection totals fixed.

#### 8.3.10.1 Water Management Strategies

Inclusion of a WMS in this plan, as either a recommended or alternative WMS, is not an endorsement by this planning group of that WMS for permitting, financing, or for any reason other than as a water supply that has met TWDB standards for being considered as a potential water supply for regional planning purposes.

Legislative Recommendation: None.

Other Recommendation: None.

#### 8.3.10.2 Planning for System Management Water Supplies

As mentioned in Section 8.3.8.3, Guiding Principles of the 2026 Regional Water Plan, the SCTRWPG first developed Guiding Principles to enhance the development of the 2021 SCTRWP, and subsequently updated them for guiding development of the 2026 SCTRWP. Guiding Principle No. IX, Management Supply, establishes the following (also refer to Appendix 8-A for the complete Guiding Principles document):

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.

Legislative Recommendation: None.

**Other Recommendation:** The SCTRWPG recommends RWPGs develop and implement processes and policies similar to the Guiding Principles established by the SCTRWPG, in particular, considering a similar policy to Guiding Principle No. IX regarding management water supplies.

#### 8.3.10.3 Public Education on Water

The SCTRWPG recognizes and appreciates that the Texas Legislature established the Water IQ Program in 2007. The Water IQ Program is a statewide public awareness program that complements existing local and regional conservation efforts while also communicating to communities that may not have financial resources to develop a program of their own.

In the South Central Texas Region, several entities have active public education, outreach, and public awareness programs that are focused on water resources, water use, conservation, and resource protection.

The SCTRWPG encourages partnerships with local and regional utilities who have active education programs, and who may have the ability to offer students opportunities for field trips to water supply, treatment, and other facilities. The SCTRWPG also encourages partnership with the Texas American Water Works Association Education Division.

Legislative Recommendation: The SCTRWPG recommends the Texas Legislature fund a statewide program to educate the general public about water in coordination with the Agricultural Extension Service offices by producing water-related materials with special components adapted for each water planning region and should also include a component comparable to the "Major Rivers" program that would be available to the public schools through the Regional Education Service Centers and by other means.

**Other Recommendation:** The SCTRWPG recommends the TCEQ and TWDB provide adequate funding to support implementation of the Water Conservation Task Force recommendations, particularly the statewide public education programs, such as Water IQ.

#### 8.3.10.4 Planning Requirements

Legislative Recommendation: None.

**Other Recommendation:** The SCTRWPG recommends the TWDB avoid changes in the regional water planning process or additional planning requirements, except through the formal rule-making procedure.

HANDOUT B

WORKGROUP DRAFT

## CHAPTER 8: POLICY RECOMMENDATIONS AND UNIQUE SITES

South Central Texas Regional Water Plan

**B&V PROJECT NO. 192335** 

PREPARED FOR

South Central Texas Regional Water Planning Group

27 SEPTEMBER 2024



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## **List of Abbreviations**

DFC	Desired Future Condition
GAM	Groundwater Availability Model
GCD	Groundwater Conservation District
GMA	Groundwater Management Area
НВ	House Bill
MAG	Modeled Available Groundwater
Region L	South Central Texas Region
RWPG	Regional Water Planning Group
SCTRWPA	South Central Texas Regional Water Planning Area
SCTRWPG	South Central Texas Regional Water Planning Group
TAC	Texas Administrative Code
TCEQ	Texas Commission on Environmental Quality
TPWD	Texas Parks and Wildlife Department
TWC	Texas Water Code
TWDB	Texas Water Development Board
WAM	Water Availability Model
WMS	Water Management Strategy
WUG	Water User Group
WWP	Wholesale Water Provider
# 8.0 Policy Recommendations and Unique Sites

Chapter 31, Section 357.43 of the Texas Administrative Code (TAC) specifies that Regional Water Plans shall include recommendations on regulatory, administrative, or legislative issues. The South Central Texas (Region L) Regional Water Planning Group (SCTRWPG) establishes these recommendations to facilitate the orderly development, management, and conservation of water resources.

The following chapter provides recommendations for designation of ecologically unique river and stream segments, unique sites for reservoir construction, and any other recommendations that the SCTRWPG believes are needed and desirable to achieve the stated goals of state and regional water planning.

# 8.1 Ecologically Unique River and Stream Segments

Regional Water Planning Groups (RWPGs) may choose to adopt recommendations in Regional Water Plans for all or parts of river and stream segments as being of unique ecological value, based on criteria defined in 31 TAC §358.2(6). The following subsections provide information regarding unique stream segments recommendations by the SCTRWPG.

# 8.1.1 Legislative Designation of Five Unique Stream Segments

In the 2011 and 2016 Region L Regional Water Plans, the SCTRWPG recommended five stream segments as having unique ecological value for designation by the Texas Legislature. In 2015, House Bill 1016 (HB 1016, 84th Texas Legislature) designated five river or stream segments as being of unique ecological value. The SCTRWPG is appreciative of legislative action in the form of HB 1016.

**Legislative Recommendation:** The SCTRWPG recommends the Texas Legislature adequately fund the Texas Commission on Environmental Quality (TCEQ) and other entities in monitoring the water quality of the five river and stream segments designated as being of unique ecological value within the South Central Texas Regional Water Planning Area (SCTRWPA).

Other Recommendation: None.

# 8.1.2 Recognition of Potential Additional Stream Segments of Unique Ecological Value

The SCTRWPG believes that designating ecologically unique stream segments raises public awareness and voluntary stewardship that can result in the preservation of the character and environmental function of these segments. The SCTRWPG recognizes the ecologically significant stream segments designated by Texas Parks and Wildlife Department (TPWD) in July 2005. The SCTRWPG shall consider these stream segments as a guide for recommending additional stream segments of unique ecological value for future legislative designation.

**Legislative Recommendation:** The SCTRWPG recommends increased Texas Water Development Board (TWDB) funding to be allocated for future planning cycles to conduct analyses necessary for designation of additional stream segments as segments of unique ecological value.

Other Recommendation: None.

# 8.2 Unique Sites for Reservoir Construction

Regional Water Plans may include RWPG recommendations to designate sites of unique value for construction of reservoirs based on criteria defined in 31 TAC §358.2(7). At this time, the SCTRWPG does not recommend any unique reservoir sites for inclusion in the 2026 Region L Regional Water Plan.

#### Legislative Recommendation: None.

Other Recommendation: None.

# 8.3 Other Policy and Legislative Recommendations

# 8.3.1 Funding Water Projects for a Growing Region

## 8.3.1.1 Project Studies and Implementation

The SCTRWPA is located in one of the fastest growing regions of the United States. Region L comprises 21 counties with a current population of 3.0 million people. Based on board-approved projections from the TWDB, the population is projected to increase to 3.9 million people in 2030, 4.7 million people by 2040, and 7.6 million people by the end of the 50-year planning horizon in 2080. Water User Groups (WUGs) and wholesale water providers (WWPs) have the responsibility of meeting the water needs of these future Texans.

**Legislative Recommendation:** In order to meet the water needs of the State and to support the growing population and economy, the SCTRWPG recommends the Texas Legislature allocate funding to state and local governmental entities to support studies water management strategies (WMSs) and implementation of water supply projects.

Other Recommendation: None.

## 8.3.1.2 Lengthening Financing Terms

The price of water has increased tremendously over the past 30 years, raising utility concerns regarding water affordability for rate payers. The TWDB's current loan and funding programs have 30-year financing terms available for most types of projects. However, many of these projects have a project life greater than 50 years, placing the financial burden on rate payers now when it would be used by future rate payers. Lengthening the financing terms to 40 or 50 years would mean utilities would pay for these projects over a longer period of time, which could enable utilities more flexibility to ensure affordable rates for residents.

**Legislative Recommendation:** The SCTRWPG recommends the Texas Legislature pass legislation that enables the TWDB loan and funding programs to provide 40- and 50-year financing terms, in addition to the current 30-year financing term available. This lengthened financing term would allow payment for projects over a longer period of time, which could help with water affordability.

#### Other Recommendation: None.

# 8.3.2 Sponsorship and Implementation of Irrigation Strategies

The SCTRWPG finds that, given the complexity of the factors that influence decisions regarding the development of agricultural water supplies (e.g., commodity prices; variability of quality and quantity of local, privately-owned water resources; broad geographic distribution of needs; and other economic considerations of individual agricultural producers) as well as the lack of appropriate WUGs or WWPs to serve as sponsors of WMSs meant to address irrigation needs, it is not practical for the SCTRWPG to develop WMSs designed to develop new water supplies or infrastructure for agricultural water users for projected irrigation water shortages and substantially limits the SCTRWPG's ability to conceive of and evaluate discrete strategies to supply water for future water needs in many cases.

The SCTRWPG recognizes one of the obstacles encountered by RWPGs and irrigation water users in developing WMSs to supply water for irrigation needs is the lack of an eligible sponsor for potential WMSs.

Legislative Recommendation: None.

**Other Recommendation:** The SCTRWPG recommends that the TWDB evaluate revisions to the regional water planning rules and guidance to allow entities other than WUGs and WWPs to serve as sponsors of WMSs related solely to irrigation and to receive funding to implement WMSs designed to address irrigation water needs.

## 8.3.3 Groundwater

#### 8.3.3.1 Groundwater Management

The SCTRWPG respects the rules and regulations of groundwater conservation districts (GCDs), as it does those of all other subdivisions of the state and state agencies. The SCTRWPG respects the decision of the Texas Supreme Court that groundwater is a private property right (Chapter 36 of the Texas Water Code [TWC]). The SCTRWPG believes that all rules adopted by GCDs pursuant to administrative procedures established under Chapter 36 of the TWC should be based on standards of rationality, equity, and scientific evidence to support the achievement of desired future conditions (DFCs) established by a groundwater management area (GMA). The SCTRWPG supports the use of aquifer monitoring programs implemented by GCDs within a GMA to evaluate achievement of and compliance with DFCs.

The SCTRWPG recognizes that the development of brackish groundwater resources is an important water supply strategy in meeting the state's projected water demands.

**Legislative Recommendation:** The SCTRWPG recommends the Texas Legislature support the development of brackish groundwater resources as an important water supply strategy by funding additional studies and research to assess the quality, quantity, and treatability of potential supplies, providing financial assistance for brackish groundwater supply projects, and promoting efficient permitting of these projects by regulatory agencies.

**Other Recommendation:** The SCTRWPG recommends the TWDB included the following explanatory note in the state water plan and database at appropriate locations:

"For each groundwater management area (GMA) within the region, the representatives of the member groundwater conservation district (GCDs) have adopted desired future conditions (DFCs) for the relevant aquifers. To ensure consistency with the DFCs, TWDB limits groundwater availability for each aquifer to the associated modeled available groundwater (MAG) for planning purposes. This water planning limitation has resulted in reductions to the yield of existing groundwater supplies and future groundwater supplies (as water management strategies [WMSs]) in this plan. This result should not be misconstrued as a recommendation of the SCTRWPG to the associated GCDs to make any adjustments to the associated DFC or to TWDB to make any adjustment to the associated MAG. The SCTRWPG recognizes and supports the ability of permit holders to exercise their rights to groundwater in accordance with their permits. The SCTRWPG recognizes and supports the authority and responsibility of GCDs to manage groundwater resources to achieve DFCs."

## 8.3.3.2 Notice of Groundwater Projects

**Legislative Recommendation:** The SCTRWPG recommends the Texas Legislature develop a process requiring WMS sponsors to provide public notice to county officials describing the WMSs with a groundwater source within the county where the potential WMS is located.

Other Recommendation: None.

## 8.3.3.3 Groundwater Availability Model Updates

**Legislative Recommendation:** The SCTRWPG recommends the Texas Legislature provide adequate funding to the TWDB to revise and improve, at a minimum, on a 10-year basis, the groundwater availability models (GAMs) used to develop DFCs and determine modeled available groundwater (MAG) estimates.

**Other Recommendation:** The SCTRWPG recommends the TWDB initiate a program that provides the necessary information, technical expertise, and experience to update and improve the GAMs on a 10-year basis to support the permitting efforts of GCDs, the joint planning efforts of GMAs, and the regional water planning efforts of the RWPGs.

## 8.3.4 Surface Water

#### 8.3.4.1 Surface Water Availability Model Updates

Although a new drought of record has not occurred for the Guadalupe-San Antonio Basin since the 1950s, appropriate updates to the related Water Availability Models (WAMs) would increase the simulation period by at least 50 percent and facilitate development of improved estimates of channel losses and missing streamflow records (especially those during the drought of record) throughout the watersheds. Furthermore, an extension of the Guadalupe-San Antonio WAM naturalized flow set would enhance the permitting process by providing additional hydrologic data used in the determination of the attainment frequencies associated with freshwater inflow regimes.

**Legislative Recommendation:** Periodic updates to the Guadalupe-San Antonio and Nueces WAMs should be performed at least every 10 years so that hydrologic data included in the models is within 10 years of the current date. The SCTRWPG recommends the Texas Legislature fund the TCEQ to update the WAMs for the Guadalupe-San Antonio River Basin and Nueces River Basin to include the most-

recent available hydrologic data, and continue allocating funding to update the WAMs on a 10-year basis.

**Other Recommendation:** The SCTRWPG recommends the TCEQ design and implement a systematic process for WAM updates, which would document any changes and associate those changes with official numbered versions of each of the WAMs.

## 8.3.5 Conservation

The SCTRWPG appreciates and supports recently passed legislation (Senate Bill 28, Senate Joint Resolution 75, and Senate Bill 30) by the 88th Texas Legislature to establish and fund a statewide water public awareness program. These actions will further general mainstream municipal conservation efforts. The SCTRWPG also recognizes that additional steps need to be taken to promote sustainable landscapes, thereby substantially reducing the quantities of water used (and potentially wasted) for municipal landscape irrigation.

**Legislative Recommendation:** The SCTRWPG recommends the Texas Legislature provide adequate funding to promote sustainable landscaping practices that conserve water with the statewide public education programs.

**Other Recommendation:** The SCTRWPG encourages and recommends communities within Region L to adopt and/or incentivize efforts to promote sustainable landscaping practices and conserve water, where feasible.

#### 8.3.6 Innovative Strategies

## 8.3.6.1 Assistance for Alternative Rangeland Management

**Legislative Recommendation:** The SCTRWPG recommends the Texas Legislature increase funding to the Texas State Soil and Water Conservation Board Water Supply Enhancement Program for the purpose of implementing brush control and rangeland management practices.

Other Recommendation: None.

#### 8.3.6.2 One Water

In recent years, municipalities have begun to view water resources from a holistic, systemwide approach, known as One Water. One Water is a decentralized concept that views all water resources as valuable. The majority of laws and regulations in Texas are not structured in such a way as to encourage or incentivize One Water approaches. In December 2019, the Meadows Center for Water and the Environment published a report entitled, *Regulatory Impediments to Implementing One Water in Texas*. According to the 2019 Meadows Center Report:

One Water projects are still not the norm. This is, in part, due to the current regulatory framework's inability to accommodate more innovative water reuse strategies, where the risk to public health is significant or not well understood. For example, federal drinking water regulations are necessary to protect public drinking water supplies, but they create onerous regulatory hurdles for smaller, onsite systems that may seek to use alternative sources, such as rainwater. Additionally, although onsite non-potable reuse of blackwater is a hallmark of the One Water approach, existing regulations in Texas make

it extremely difficult for developers to construct onsite blackwater reuse systems. Finally, the lack of regulations that govern water reuse in Texas could actually stymie the development of One Water projects as developers often prefer clear regulatory and permitting paths over case-by-case decision making by regulators.

**Legislative Recommendation:** The SCTRWPG recommends the Texas Legislature review existing state laws regarding rainwater, non-potable on-site reuse, direct potable reuse, and blackwater reuse systems to enable and incentivize implementation of One Water Projects.

**Other Recommendation:** The SCTRWPG recommends the TWDB and TCEQ (1) financially support research for determining appropriate technology and risk mitigation approaches necessary to significantly expand One Water with appropriate protections for the public, environment, and worker health, in consideration of and with respect to impacts on existing water rights; and (2) assist the funding and development of incentive programs to advance One Water in Texas.

## 8.3.7 Water Quality and Data Collection

The primary focus of the regional water planning process is to ensure that water supplies are identified in sufficient quantity to meet future water demands; however, the SCTRWPG recognizes that the quality of those water supplies is also important to protect. Protecting groundwater and surface water supplies from contamination not only helps to reduce the cost to treat water to public drinking water standards, but also reduces pollutants that may harm the ecological health of the basin.

**Legislative Recommendation:** The SCTRWPG recommends the Texas Legislature fully fund the cooperative, federal-state-local program of basic water data collection, including (1) stream gagesquantity and quality; (2) groundwater monitoring-water levels and quality; (3) hydrographic surveys and sediment accumulation in reservoirs; (4) water surface evaporation rates; (5) water use data for all WUGs; (6) population projections; and (7) Clean Rivers Program.

**Other Recommendation:** The SCTRWPG recommends the TCEQ and local governments promote practices and/or regulations to avoid or mitigate threats to water quality in surface water and groundwater sources.

## 8.3.8 Consideration of Climate Variability in Regional Water Planning

Regional Water Plans are based on drought of record conditions using historical data; however, climate models indicate the potential for an increase in the number of dry days with increased evaporation along with more intense rainfall events, which impacts water supply and demand. Historically, the TWDB has not used climate models to predict impacts to future water resources in Texas because forecasting tools have not been able to provide the resolution needed for water planning. The SCTRWPG recognizes that down-scaling of climate models is becoming more sophisticated, and the results are being considered in other planning efforts and models (including WAMs). Similar incorporation into future regional water plans is needed to ensure meeting customer demand under climate enhanced drought conditions.

**Legislative Recommendation:** The SCTRWPG recommends the Texas Legislature fund relevant studies and down-scaled regional models to incorporate available climate variability into the Regional Water Planning process.

**Other Recommendation:** The SCTRWPG recommends the TWDB to reassess available climate models and consider incorporating them into regional water planning.

HANDOUT C

#### 2026 South Central Texas (Region L) Regional Water Plan Snapshot of Water Management Strategies November 7, 2024, RWPG Meeting

									Environmental/ Cultural			ural		
									Assessment Ratings					
WMS No.	WMS Name	WMS Sponsor	2024 Month Presented to RWPG Mtg	Implement ation Decade	Final Decade Firm Yield (acft/yr)	Total Cost of Project	A Un Wit S (\$	Annual hit Cost th Debt ervice \$/acft)	Vegetation, Land Use, Agricultural Resources	Aquatic Resources	Threatened, Endangered, & Species of Concern	Cultural Considerations	Designation in 2021 RWP	Suggested Designation for 2026 RWP
1	Municipal Water Conservation*†	All Municipal WOGs (except County- Other) with ≥ 80 GPCD	Aug	2030	170,789	\$ 4,596,774,195	\$	9,856	0	0	0	0	Recommended	Recommended
2	Non-municipal Water Conservation*†	Irrigation WUGs with Needs	Aug	2030	15,471	\$ 40,758,000	\$	336	0	0	0	0	New	Recommended
3	Drought Management*	Varies	Aug	2030	74,072	N/A		N/A	0	0	0	0	Recommended	Recommended
4	Edwards Transfers*	Varies	Nov	2030	15,212	N/A	\$	3,160	1	0	0	0	Recommended	Recommended
5	Fresh Groundwater Development*†	Varies	Nov	2030	18,537	\$ 97,350,000	\$	2,957	1	2	2	2	New	Recommended
6	Brackish Groundwater Development*†	Varies	Nov	2030	9,363	\$ 862,410,000	\$	77,992	1	2	2	2	New	Recommended
7	Groundwater Conversions	Varies	Nov	2030	N/A	N/A		N/A	1	2	2	2	Recommended	Recommended
8	Facilities Expansion*†	Varies	Nov	2030	N/A	N/A		N/A	1	2	2	1	Recommended	Recommended
9	Recycled Water*†	Varies	Nov	2030	57,880	\$ 1,183,981,000	\$	2,674	2	2	2	2	Recommended	Recommended; SAWS' Direct Potable Reuse as Alternative
10	Brush Management*†	N/A - None	Nov	N/A	N/A	N/A		N/A	0	1	1	0	New	Considered but not Recommended
11	Rainwater Harvesting*†	Varies	Aug & Nov	2040	967	\$ 333,795,000	\$	36,120	0	0	0	1	New	Recommended
12	Surface Water Rights	N/A - None	Aug	N/A	N/A	N/A		N/A	0	0	0	0	Recommended	Recommended
13	Balancing Storage	N/A - None	Aug	N/A	N/A	N/A		N/A	0	0	0	0	Recommended	Recommended
14	ARWA Expanded Carrizo-Wilcox Project (Phase 2)	ARWA	Aug	2030	21,000	\$ 259,879,000	\$	1,579	2	2	2	2	Recommended	Recommended
15	ARWA DPR Project (Phase 3)	ARWA	Aug	2060	5,494	\$ 117,658,000	\$	2,722	2	2	2	2	Recommended	Recommended
16	CRWA Expanded Brackish Carrizo-Wilcox Project	CRWA	Nov	2040	14,700	\$ 332,516,000	\$	3,160	1	2	2	2	Recommended	Recommended
17	CRWA Siesta Project	CRWA	Nov	2060	5,042	\$ 202,995,000	\$	4,018	1	2	2	2	Recommended	Recommended
18	CRWA Wells Ranch 3 (Phase 2) Project	CRWA	Nov	2030	14,500	\$ 139,137,000	\$	941	1	2	2	2	Recommended	Recommended
19	CVLGC Carrizo Project	CVLGC	Aug	2030	11,802	\$ 262,492,000	\$	2,062	2	2	2	2	Recommended	Recommended
20	GBRA Lower Basin New Appropriation	GBRA	Nov	2040	26,500	\$ 249,823,000	\$	734	2	2	2	2	Recommended	Recommended
21	GBRA WaterSECURE	GBRA	Nov	2030	125,000	\$ 6,093,657,000	\$	4,765	2	2	2	2	New	Recommended
22	Medina County Regional ASR	Yancey WSC and East Medina County SUD	Nov	2040	12,500	\$ 480,734,000	\$	3,936	1	2	2	2	New	Recommended
23	NBU ASR	NBU	Aug	2030	7,000	\$ 36,622,000	\$	617	2	1	2	2	Recommended	Recommended
24	NBU Trinity Well Field Expansion	NBU	Aug	2030	3,900	\$ 48,627,000	\$	2,046	1	1	2	2	Recommended	Recommended
25	SAWS Expanded Local Carrizo Project	SAWS	Aug	2030	21,000	\$ 37,095,000	\$	185	2	2	2	2	Recommended	Recommended
26	SAWS Expanded Brackish Groundwater Project	SAWS	Aug	2040	22,400	\$ 319,181,000	\$	1,803	2	2	2	2	Recommended	Recommended
27	SAWS Regional Wilcox Project	SAWS	Aug	2040	50,000	\$ 1,267,722,000	\$	2,897	2	2	2	2	New	Recommended
28	SSLGC Expanded Brackish Wilcox Project	SSLGC	Aug	2040	5,000	\$ 46,966,000	\$	1,503	2	2	2	2	Recommended	Recommended
29	SSLGC Expanded Carrizo Project	SSLGC	Aug	2030	6,000	\$ 327,709,000	\$	4,741	2	2	2	2	Recommended	Recommended
30	Victoria ASR	City of Victoria	Nov	2030	7,900	\$ 58,504,000	\$	687	0	1	1	2	Recommended	Recommended

#### 2026 South Central Texas (Region L) Regional Water Plan Snapshot of Water Management Strategies November 7, 2024, RWPG Meeting

								En	Environmental/ Cultural				
									Assessment Ratings				
			2024 Month Presented	Implement	Final Decade		Annual Unit Cos With Det	tation, Land Use,	tic Resources	atened, Endangered, & ies of Concern	ıral Considerations		
WMS			to RWPG	ation	Firm Yield	Total Cost of	Service	get	nat	ecie	ltu	Designation in	Suggested Designation
No.	WMS Name	WMS Sponsor	Mtg	Decade	(acft/yr)	Project	(\$/acft)	Ve	ar Aq	Sp.	Cu	2021 RWP	for 2026 RWP
31	Victoria Groundwater-Surface Water Exchange	City of Victoria	Nov	2040	8,544	\$ 3,494,0	00 \$ 7	8 0	1	1	0	Recommended	Recommended
32	Weather Modification	Certain Irrigation WUGs	Nov	2030	99,700	\$ 1,234,0	00 \$	3 1	1	1	0	New	Recommended

Note

\* Indicates volume summed due to multiple WUGs

<sup>+</sup> Indicates unit cost averaged due to multiple WUGs

<u>Legend</u>

Environmental/Cultural Assessment Rating

**0** N/A

1 Minimal concerns; precautions recommended

2 Additional studies recommended