



Region I

East Texas Regional
Water Planning Group



Regional Water Planning Group Meeting

etexwaterplan.org

February 15, 2024



East Texas Regional Water Planning Group Meeting

1. Call to Order
2. Invocation & Pledge of Allegiance
3. Notice of Meeting
4. Roll Call/Determination of Quorum
5. Public Comments



Item 6

Consideration and Approval of the
minutes of the January 10, 2024
meeting



Item 7

Reports from City of Nacogdoches



Item 8

Reports of Adjoining Regions' Activity

Region C – David Montagne

Region D – John McFarland

Region H – Scott Hall

Interregional Liaison – Kelley Holcomb



Item 9

Reports from Standing Committees

Executive Committee – John Martin

Finance Committee – Kelley Holcomb

Bylaws Committee – David Alders

Technical Committee – Scott Hall

Nominations Committee – Monty Shank



Item 10

Discussion and possible action to approve recommendations from the Nominations Committee for the appointment of voting members to the East Texas Regional Water Planning Group (ETRWPG)



Item 11

Report from Consultant Team with
Discussion and Possible Action by
Regional Water Planning Group

Today's Discussion

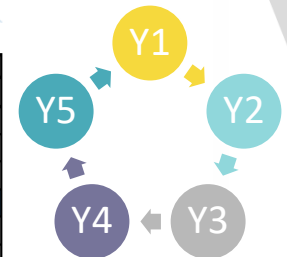
Project Schedule

- a) Overview of the Technical Memorandum and Authorization to Submit
 - i. Demand Allocations and Water Needs
 - ii. **Infeasible Water Management Strategies (WMSs)**
 - iii. **Proposed List of Potentially Feasible WMSs**
 - iv. Overview of the Technical Memorandum Results
 - v. **Comments and Action on the Technical Memorandum**
- b) **Notice to Proceed (NTP) of Task 5B and Possible Action of the Additional 5B Scope**

Abbreviations:

TWDB = Texas Water Development Board

Sixth Cycle of Regional Water Planning (2026 Regional Water Plans)
Working Schedule (as of March 2023)^A

[illegible]

Subject to available funding.

2026 Plan Short-Term Schedule

Date	Schedules Events/Tasks
February 2024	Revise/Finalize the technical memorandum
March 4, 2024	Technical memorandum due date
March 4, 2024	Interregional Planning Council Report due date
Jan – June 2024	TWDB Board adopts identified WMSs and WMSPs as infeasible
March 4, 2024 – March 3, 2025	Prepare Initial Prepared Plan (IPP) Chapters
TBD	Next RWPG Meeting

Abbreviations:

RWPG = Regional Water Planning Group
TWDB = Texas Water Development Board

WMSs = Water Management Strategies
WMSPs = Water Management Strategy Projects

Demand Allocation and Water Needs (11a.i)

Basic Water Planning Definitions

Demand – The volume of water required to meet the anticipated domestic, public, and/or economic activities of a WUG during drought conditions.

Existing Supply – The maximum amount of water that is physically and legally accessible for immediate use by an WUG under a repeat of drought-of-record conditions.

Need – A potential water supply shortage, based on the difference between water demands and existing water supplies and/or recommended water management strategies.

Process Diagram

Identify Demand Projection and Existing Supply



Allocate Existing Supplies to Meet Demands

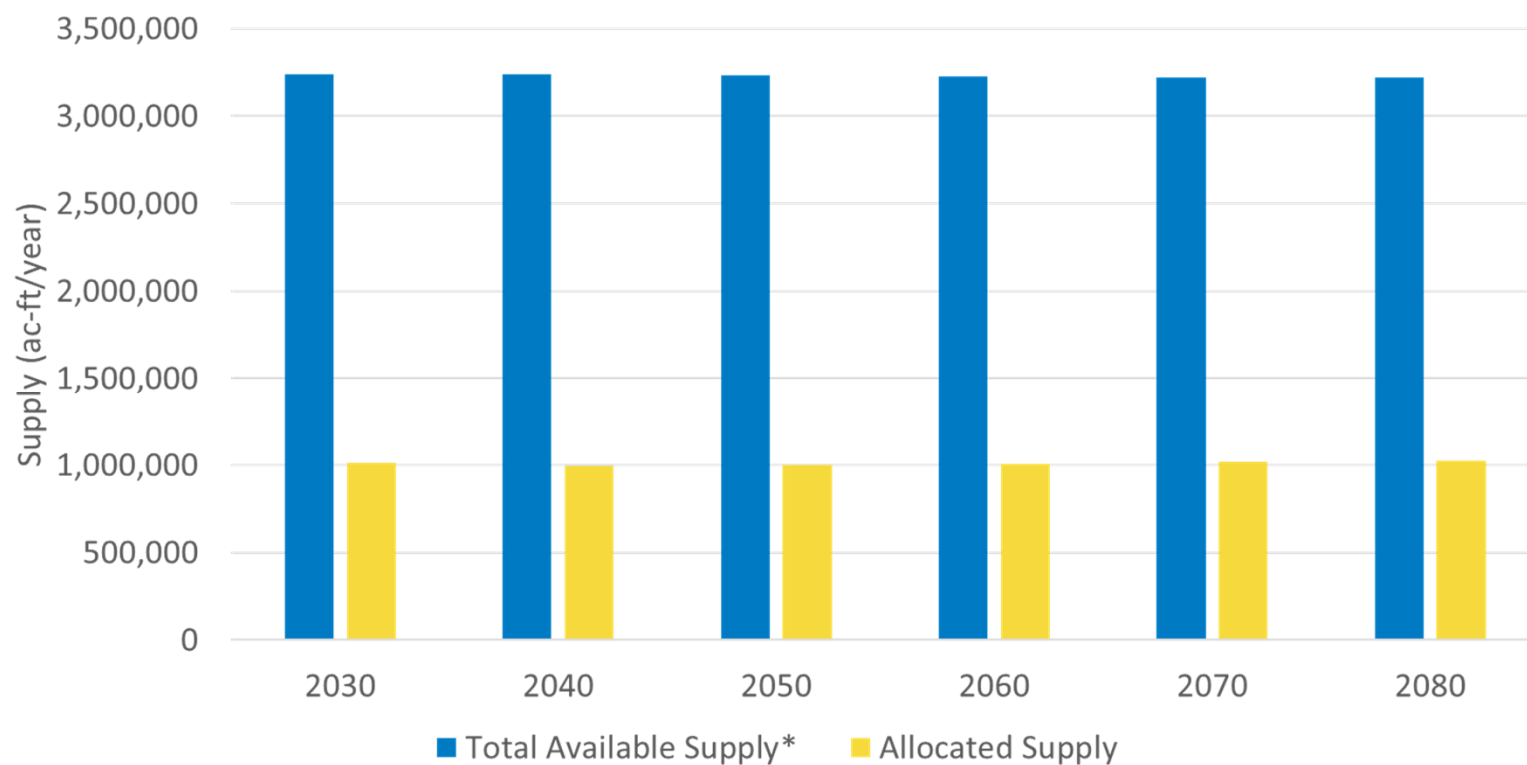


Remaining Unmet Demand = Needs

Development of Needs



Water Supply and Allocation in Region I



**Note: There is ongoing coordination with the TWDB regarding the Neches River Basin surface water availability results.*

Initial List of WUGs with Needs

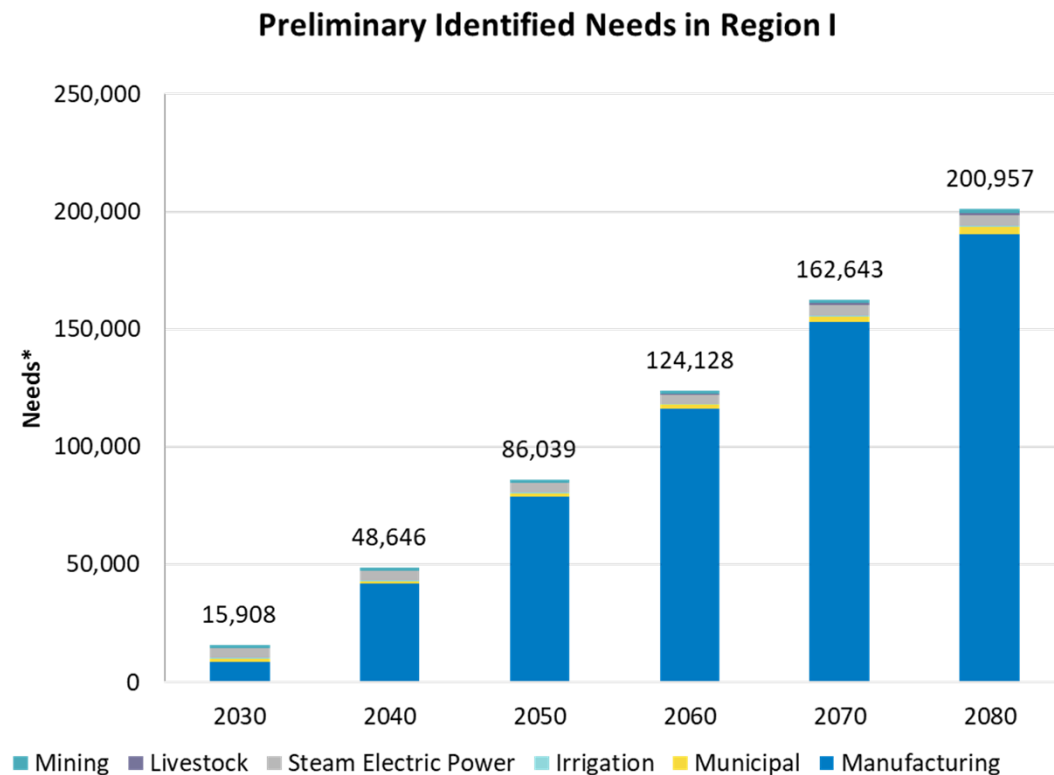
- Total of 15 municipal WUGs out of 190 WUGs with identified needs
 - Coordination with other regions could potentially address some identified WUG needs
- Needs in non-municipal categories for at least 2 counties

WUG Name	County
Alto Rural WSC	Cherokee
Athens*	Henderson
Ben Wheeler WSC*	Smith
Chandler	Henderson
County-Other	Shelby
D & M WSC	Nacogdoches
Edom WSC*	Henderson
Elysian Fields WSC*	Panola
Liberty Utilities Silverleaf Water*	Smith
R P M WSC*	Henderson
Southern Utilities*	Cherokee, Smith
TDCJ Coffield Michael	Anderson
TDCJ Eastham Unit	Houston
Trinity Bay Conservation District*	Jefferson
West Gregg SUD*	Rusk
Irrigation	Cherokee, Jasper, Jasper, Trinity
Livestock	Houston, Sabine, Henderson
Manufacturing	Angelina, Jasper, Jefferson, Shelby, Tyler, Smith
Mining	Angelina, Houston, Smith, Henderson
Steam Electric Power	Anderson, Henderson

* A single asterisk next to a WUG's name denotes that the WUG is split by two or more planning regions

Summary of Needs in Region I

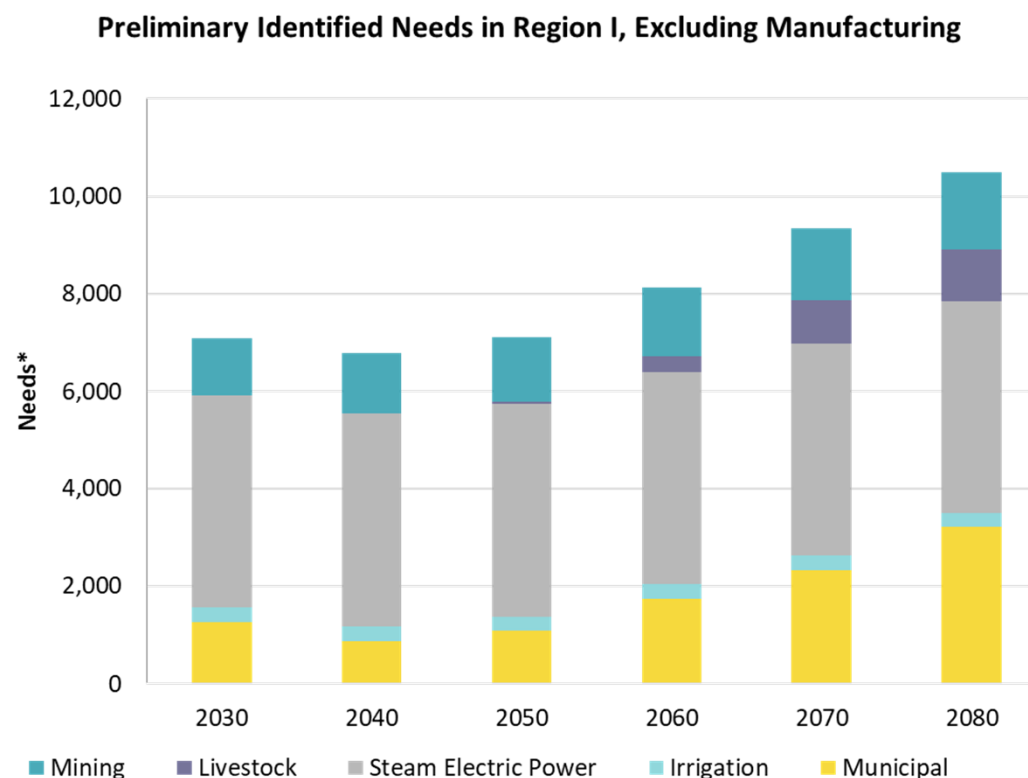
- Needs largely attributed to future manufacturing demand growth (no existing contracts yet)



**Note: Supply allocations are draft; the numbers above are subject to change.*

Summary of Needs in Region I

- Increasing needs for identified municipal WUGs over time
- Needs for new power generation facilities in Anderson and Henderson counties
- Needs for other non-municipal needs are driven by MAG limitations



**Note: Supply allocations are draft; the numbers above are subject to change.*

Item 11a.i

- Discussion of Results of Demand Allocations and Water Needs

Infeasible Water Management Strategy (11a.ii)

Infeasible Water Management Strategies

- None identified for Region I

Potential Infeasible WMSs Identified in the October 2023 Meeting

S.N.	Project/Strategy	Sponsor	Notes
1	AMWA Athens Fish Hatchery Reuse	Athens Municipal Water Authority	Fish hatchery regularly returns water back into lake; feasible.
2	Neches Run-of-River with Lake Palestine	Upper Neches River Municipal Water Authority	Affirmative action has been taken; feasible.
3	Beaumont West Regional Reservoir	Lower Neches Valley Authority	Affirmative action has been taken; feasible.
4	Purchase from Center	Sand Hills WSC	Require no infrastructure; contract increase; feasible.
5	Lake Columbia	Angelina and Neches River Authority	Being evaluated by 3 entities; No funding allocation for FY2024; Has a valid state water right permit
6	ANRA-Run-of-River (Submitted Application)	Angelina & Neches River Authority	Require no infrastructure; additional water for future demand; feasible.
7	HCWC Permit Amendment	Houston County WCID 1	Require no infrastructure; feasible.

Abbreviations:

AMWA = Athens Municipal Water Authority

ANRA = Angelina & Neches River Authority

HCWC = Houston County Water Control

WSC = Water Supply Corporation

WCID = Water Control & Improvement District

Item 11a.ii - Action

- Public Comment
- See Attachment 8
- Action:
 - Approval of the results of the infeasible water management strategy analysis (required prior to Technical Memorandum approval)

Potential Feasible Water Management Strategies (11a.iii)

Potential Water Management Strategies

- As required by 31 Texas Administrative Code (TAC) §357.34 (c)
 - 1. Expanded use of existing supplies (14)
 - ✓ Groundwater, Reservoir, Run of River
 - 2. New supply development (18)
 - ✓ Groundwater, Reservoir
 - 3. Conservation and Demand Management (2)
 - ✓ Municipal Conservation (for WUGs with needs and high water use)
 - ✓ Irrigation Conservation
 - 4. Reuse of wastewater (2)
 - 5. Interbasin Transfers of Surface Water (17)
 - 6. Emergency transfers of surface water (0)

Item 11a.iii - Action

- See Attachment 2
- Action:
 - Approval of the proposed list of initial potentially feasible water management strategies

Technical Memorandum (11a.iv)

Item 11a.iv

- Overview of the Technical Memorandum Components

Technical Memorandum Contents

- Cover Letter
- Attachment 1. TWDB DB27 Reports
- Attachment 2. Identification of Feasible WMSs
- Attachment 3. Hydrologic Variance Requests
- Attachment 4. Memorandum of WAM Modifications
- Attachment 5. Hydrologic Models
- Attachment 6. Groundwater Availability
- Attachment 7. Interregional Coordination
- Attachment 8. Infeasible WMSs
- Attachment 9. Model Input/Output Files

Abbreviations:

WAM = Water Availability Models

Technical Memorandum (due 3/4/24)

- TWDB DB27 Reports
 1. Population
 2. Demand
 3. Source Availability
 4. Existing Water Supply
 5. Needs/Surplus
 6. Data Comparison to 2021 RWP
 7. Source Data Comparison to 2021 RWP

Abbreviations:

RWP = Regional Water Plan

Technical Memorandum (due 3/4/24)

- Process used to identify potentially feasible WMSs (Attachment 2)
- List of potentially feasible WMSs to date (Attachment 2)

Technical Memorandum (due 3/4/24)

- Any hydrologic variance requests to date (Attachment 3)
 - For approved TCEQ WAM modifications or alternative surface water models, reallocated annual MAG volumes, or use of MAG Peak Factors, a table must be included showing the original unmodified firm yield or MAG value along with the alternative availability utilized as the basis for planning

Abbreviations:

MAG = Modeled available groundwater

TCEQ = Texas Commission on Environmental Quality

Technical Memorandum (due 3/4/24)

- Methodology for calculating the anticipated sedimentation rate and revising the area-capacity rating curve (Attachment 4)
- Table of details of hydrologic models used (Attachment 5)
 - model name, version date, model input/output files used, date model used, and any relevant comments
- Documentation of methodologies for groundwater availabilities to date (Attachment 6)
 - table providing the aquifer, county, and methodology description

Technical Memorandum (due 3/4/24)

- Region's interregional coordination efforts to date (Attachment 7)
- List of infeasible WMSs and WMSPs from the region's 2021 RWP (Attachment 8)
- Electronic model files used in determining water availability (Attachment 9)

Abbreviations:

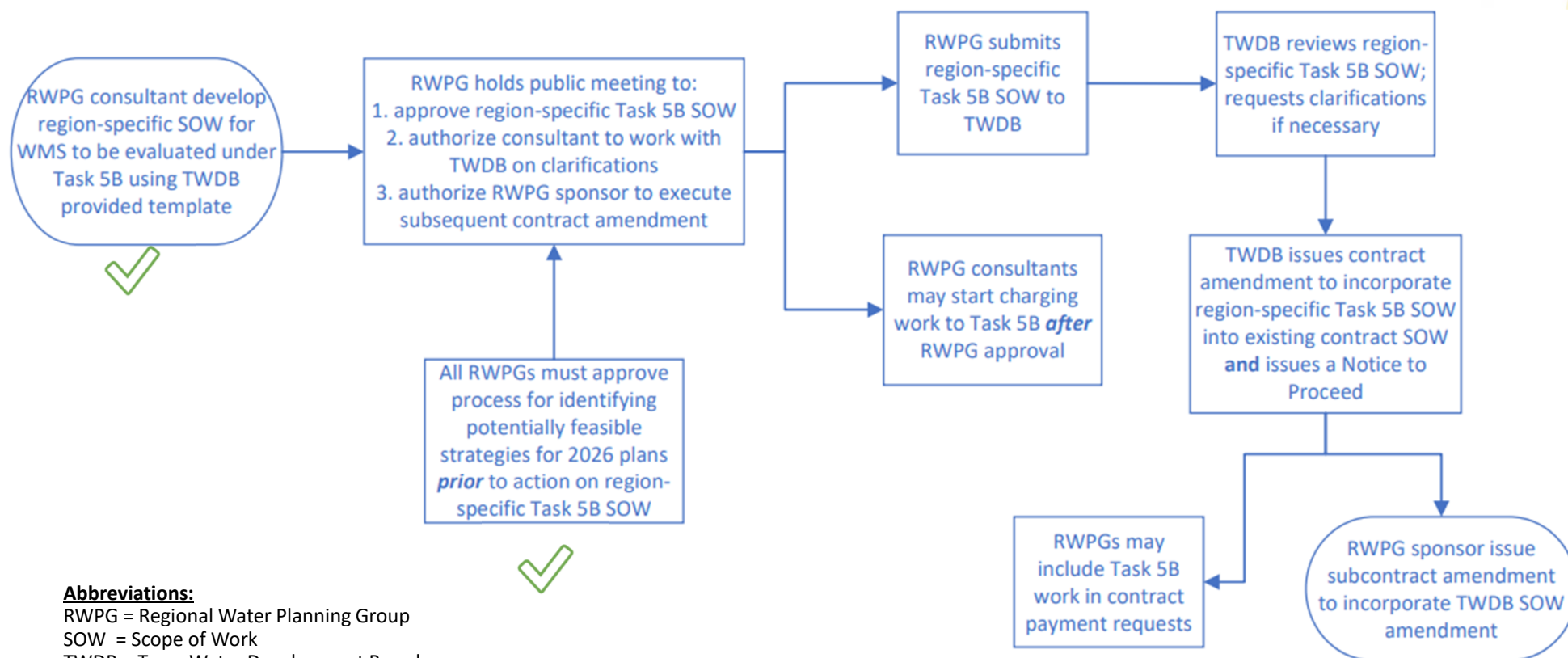
WMSP = water management strategy project

Item 11a.v - Action

- Public Comment
- Action:
 - Approve proposed Draft Technical Memorandum for the 2026 East Texas Regional Water Plan, incorporating approved revisions/comments from this meeting;
 - Authorize submittal by Technical Consultants to TWDB on behalf of Region I RWPG (by March 4, 2024); and
 - Authorize Technical Consultants to work with Chair and TWDB to address any further revisions and/or clarifications from TWDB.

Notice to Proceed of Task 5B (11b)

Task 5B Notice-to-proceed Request



Abbreviations:

RWPG = Regional Water Planning Group

SOW = Scope of Work

TWDB = Texas Water Development Board

Task 5B Notice to Proceed

- Approved by TWDB for initial strategies presented at October meeting:
 - Indirect, Non-Potable Reuse WMSs
 - New Major Reservoir WMS
 - Surface Water Diversion WMSs
 - Surface Water Yield Enhancement WMSs
 - Water Conservation Strategies
 - Documentation and Database Entry – DB27

Task 5B Additional WMS Categories

- Documentation and Database Entry – DB27
- Develop Groundwater Well Development WMSs
- Develop Indirect, Non-Potable Reuse WMSs
- Develop Run-of-River Transfer/Transaction/Diversion WMSs
- Develop Lake/Reservoir Transfer/Transaction/Diversion WMSs
- Develop Water Conservation Strategies to Meet Needs
- Develop Water Conservation Strategies to Meet Region Goals
- Evaluate Potential Strategies Not Included in Previous Plans
 - Aquifer storage and recharge, desalination of brackish groundwater and / seawater, and conjunctive use.

Item 11b - Action

- Public Comments
- Action:
 - Authorize City of Nacogdoches to submit a NTP request to TWDB and execute a contract amendment with TWDB for additional Task 5B scope,
 - Authorize Consultants to address clarification requests from TWDB regarding additional Task 5B scope, and
 - Authorize City of Nacogdoches to execute subsequent contract amendment (upon receiving contract scope amendment and NTP from TWDB).



Item 12

Reports from other state agencies

- a) Texas Water Development Board – Lann Bookout
- b) Texas Department of Parks & Wildlife – Stephen Lange
- c) Texas Department of Agriculture – Manuel Martinez
- d) Texas Soil and Water Conservation Board – Trey Watson
- e) Groundwater Management Areas – John Martin/John McFarland



Item 13

General Discussion

Item 14 Next Meeting

Date (TBD)	Scheduled Events/Tasks
May/June 2024	Chapters 1, 2, 3, 4A; Status update on Task 5/7
August/Sept 2024	Update on Initial Prepared Plan; Chapters 6, 7; Remainder of 5B scope
Nov/Dec 2024	Update on Initial Prepared Plan and chapters approval
February 2025	Comment/Approval of Initial Prepared Plan
March 3, 2025	Initial Prepared Plan DUE to TWDB

Questions?



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