

REGION H

Water Planning Group

MEETING MATERIALS

October 31, 2018

San Jacinto River Authority

Common Region H Terms and Conversion Factors

List of Abbreviations

COA	Certificate of Adjudication
CRU	Collective Reporting Unit
DCP	Drought Contingency Plan
DFC	Desired Future Condition
DOR	Drought of Record
EA	Executive Administrator
EPA	Environmental Protection Agency
FWSD	Fresh Water Supply District
GAM	Groundwater Availability Model
GCD	Groundwater Conservation District
GMA	Groundwater Management Area
GRP	Groundwater Reduction Plan
IPP	Initially Prepared Plan
MAG	Modeled Available Groundwater
MUD	Municipal Utility District
MWP	Major Water Provider
PDSI	Palmer Drought Severity Index
PWS	Public Water Supply
RHWPG	Region H Water Planning Group
ROR	Run-of-River
RWP	Regional Water Plan
RWPA	Regional Water Planning Area
RWPG	Regional Water Planning Group
SWIFT	State Water Implementation Fund for Texas
SWP	State Water Plan
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
WCID	Water Control and Improvement District
WCP	Water Conservation Plan
WMS	Water Management Strategy
WRAP	Water Rights Analysis Package
WUD	Water Utility Database
WUG	Water User Group
WWP	Wholesale Water Provider

Water Measurements

1 acre-foot (AF) = 43,560 cubic feet = 325,851 gallons

1 acre-foot per year (ac-ft/yr) = 325,851 gallons per year = 893 gallons per day

1 gallon per minute (gpm) = 1,440 gallons per day = 1.6 ac-ft/yr

1 million gallons per day (mgd) = 1,000,000 gallons per day = 1120 ac-ft/yr

Region H Water Planning Group
10:00 AM Wednesday
October 31, 2018
San Jacinto River Authority Office
1577 Dam Site Rd, Conroe, Texas 77304

AGENDA

1. Call to order.
2. Introductions.
3. Review and approve minutes of August 1, 2018 meeting.
4. **Receive public comments on specific issues related to agenda items 5 through 14.** (Public comments limited to 3 minutes per speaker)
5. Receive presentation from Consultant Team regarding the proposed application by Gulf Coast Water Authority to amend the 2016 Region H Regional Water Plan and consider approving the submittal of the application package to TWDB for the determination of minor amendment status.
6. Receive update from Consultant Team regarding the schedule and milestones for the development of the 2021 Region H Regional Water Plan (RWP).
7. Receive update from Consultant Team regarding non-MAG available groundwater supplies in the Gulf Coast Aquifer in Subsidence District counties and consider taking action to authorize the Consultant Team to update source availability.
8. Receive update from Consultant Team regarding Modeled Available Groundwater (MAG) Peak Factors and consider taking action to authorize the Consultant Team to submit the Peak Factor request to Texas Water Development Board (TWDB).
9. Receive update from Consultant Team regarding status of investigation of water supply alternatives for the 2021 Region H Regional Water Plan.
10. Receive report from Consultant Team and Water Management Strategy Committee regarding potential WMS analyses and consider taking action to approve a notice-to-proceed request and authorizing the Consultant Team and San Jacinto River Authority to submit the request to TWDB, coordinate with TWDB as needed on follow-up information, and execute the subsequent contract amendment issued.
11. Discuss the 86th Regular Session of the Texas Legislature and Approve the Region H Water Planning Group Legislative Committee.
12. Receive report regarding recent and upcoming activities related to communications and outreach efforts on behalf of the Region H Water Planning Group.
13. Agency communications and general information.
14. Receive presentation from Galveston Bay Foundation regarding the 2018 Galveston Bay Report Card.
15. **Receive public comments.** (Public comments limited to 3 minutes per speaker)
16. Next Meeting: February 6, 2018.
17. Adjourn.

Persons with disabilities who plan to attend this meeting and would like to request auxiliary aids or services are requested to contact Sonia Zamudio at (936) 588-3111 at least three business days prior to the meeting so that appropriate arrangements can be made.

Agenda Item 3

Review and approve minutes of August 1, 2018 meeting.

**REGION H WATER PLANNING GROUP
MINUTES OF REGULAR MEETING
AUGUST 1, 2018**

MEMBERS PRESENT: David Bailey, John Bartos, John Blount, Robert Bruner, Brad Brunett, Mark Evans, Yvonne Forrest, Art Henson, Jace Houston, Robert Istre, Glenn Lord, Marvin Marcell, Carl Masterson, Michael Turco, and Pudge Willcox.

DESIGNATED ALTERNATES: Gary Ashmore for Kathy Jones, Jun Chang for Jimmie Schindewolf, Tom Michel for Bill Teer, and Jim Sims for Kevin Ward.

MEMBERS ABSENT: James Comin, Bob Hebert, Ivan Langford, James Morrison, and Ruth Stultz.

NON-VOTING MEMBERS PRESENT: Kristen Lambrecht and Lann Bookout.

1. Call to order

The meeting was called to order at 10:05 a.m.

2. INTRODUCTIONS

Mr. Evans welcomed Kristen Lambrecht of the Texas Department of Agriculture and Paula Paciorek, designated alternate for John Bartos.

3. REVIEW AND APPROVE MINUTES OF JUNE 6, 2018 MEETING

Mr. Masterson made a motion to approve the minutes of June 6, 2018. The motion was seconded by Mr. Bailey and carried unanimously.

4. RECEIVE PUBLIC COMMENTS ON SPECIFIC ISSUES RELATED TO AGENDA ITEMS 5 THROUGH 13

There were no public comments.

5. RECEIVE UPDATE FROM CONSULTANT TEAM REGARDING THE SCHEDULE AND MILESTONES FOR THE DEVELOPMENT OF THE 2021 REGION H REGIONAL WATER PLAN

Mr. Taucer provided an update regarding the schedule and milestones for the development of the 2021 Region H Water Plan listing various items and scheduled completion/due dates for same.

6. RECEIVE UPDATE FROM CONSULTANT TEAM AND GROUNDWATER SUPPLY COMMITTEE REGARDING EXISTING SUPPLY AVAILABILITY AND MODELED AVAILABLE GROUNDWATER (MAG) PEAK FACTORS

Mr. Taucer provided a brief overview of the mechanism developed by TWDB to help reconcile the two processes utilized by regional planning and groundwater planning relative to peak factors. He stated that this process is intended to represent potential temporary increases in groundwater use in drought conditions consistent with the Desired Future Conditions (“DFC”). Mr. Taucer explained that approval of this concept is needed by Groundwater Conservation Districts (“GCD”), Groundwater Management Areas (“GMA”), Planning Group, and the TWDB Executive Administrator in order to be incorporated into the 2021 Region H Regional Water Plan. He provided an overview of the counties and GCDs that approved, are considering, or declined the MAG peak factors. He reiterated that this mechanism is solely for regional planning purposes and does not affect any permitting, regulatory plans, DFCs, etc.

7. RECEIVE UPDATE FROM CONSULTANT TEAM REGARDING THE CATAHOULA FORMATION OF THE GULF COAST AQUIFER IN MONTGOMERY COUNTY AND CONSIDER TAKING ACTION TO DIRECT THE CONSULTANT TEAM TO UPDATE THE SOURCE AVAILABILITY FOR THE CATAHOULA FORMATION

Mr. Taucer explained that the 2016 Regional Plan was the first time the Catahoula was recognized as a specific supply in the regional plan. He stated that at that time, there was limited available information and the existing supply was based upon the anticipated use from the GRPs and the best knowledge at that time. Mr. Taucer explained that the Water Planning Group agreed at a previous meeting to retain 2016 plan values for all non-relevant, non-MAG groundwater formations, and locations for those groundwater sources not having a specific MAG. He stated that according to the Lone Star Groundwater Conservation District, the permitted amount from the Catahoula has increased over the years. Mr. Taucer explained that updating the Catahoula Formation’s existing supply will reflect the total permit allocations of 8,761ac-ft/yr. Mr. Henson made a motion to update the source availability for the Catahoula Formation to 8,761 ac-ft/yr. Mr. Bartos seconded the motion and carried unanimously.

8. RECEIVE UPDATE FROM CONSULTANT TEAM REGARDING NON-MAG AVAILABLE GROUNDWATER SUPPLIES IN THE GULF COAST AQUIFER IN TRINITY COUNTY AND CONSIDER TAKING ACTION TO AUTHORIZE THE CONSULTANT TEAM TO REQUEST A NEW SOURCE TO REFLECT THIS AVAILABILITY

Mr. Taucer stated that the Gulf Coast in Trinity County is the most recent GMA process listed as non-relevant. He went on to say that this formation did not exist in the last planning cycle, therefore showed no available supply in the 2016 plan. He stated that TWDB’s modeling revealed that the Gulf Coast aquifer did have some availability. He explained that there is no MAG and is still considered non-relevant, however because it revealed some availability and for consistency purposes, staff recommends it be added as a new source. Mr. Houston made a motion to authorize the consultant team to request a new source to reflect non-MAG availability of the Gulf Coast Aquifer in Trinity County. The motion was seconded by Mr. Chang and carried unanimously.

9. DISCUSS THE PROCESS AND REQUIREMENTS FOR SIMPLIFIED PLANNING AND CONSIDER TAKING ACTION TO FORGO PURSUIT OF SIMPLIFIED PLANNING FOR THE 2021 REGION H RWP

Mr. Evans explained that Senate Bill 1511 of the 85th Legislative Session established a simplified planning process. He reiterated that the Region H Water Planning Group (“RHWPG”) had previous discussions and concluded that it was not advantageous for RHWPG’s planning process. Mr. Taucer provided an overview of the simplified planning process. Mr. Lord made a motion to forgo pursuit of simplified planning for the 2021 Region H Water Regional Water Plan and approve documentation of this action in the Technical Memorandum. The motion was seconded by Mr. Turco and carried unanimously.

10. RECEIVE UPDATE FROM THE CONSULTANT TEAM REGARDING THE REGION H TECHNICAL MEMORANDUM AND CONSIDER AUTHORIZING THE CONSULTANT TEAM TO PREPARE AND SUBMIT THE REQUIRED DOCUMENTATION TO TEXAS WATER DEVELOPMENT BOARD

Mr. Taucer explained that the technical memorandum is a major deliverable that documents and summarizes the first few major steps of the regional planning process which looks at populations, demands, sources, allocation of existing supplies, and projected needs and is intended to focus on the numbers. He stated that this is a draft and alterations can be made at a later date if needed. Mr. Taucer provided an overview of the process as it relates to the public comment period the discussed the various information included in the technical memorandum. He provided an overview of projected demand, source availability, existing supply, and needs. Mr. Masterson made a motion to authorize the consultant team to prepare and submit the required technical memorandum documentation to the TWDB and authorize the consultant team to make minor non-substantive changes discussed hereto (Catahoula and Trinity supplies, update TWDB’s minor changes to supplies, and include RHWPG’s decision to forgo simplified planning). The motion was seconded by Mr. Henson and carried unanimously.

11. REVIEW AND TAKE ACTION TO AMEND THE BUDGET FOR THE DEVELOPMENT OF THE 2021 REGIONAL WATER PLAN

Mr. Taucer explained that TWDB sets the initial task budgets and gives the planning groups some flexibility to adjust said tasks. He stated that any adjustments over thirty-five percent must be approved by the planning group. Mr. Taucer explained that the original distribution of funds for population and non-population demands tasks as well as the supplies tasks were not enough to completely fund the additional level of effort needed to complete the tasks. He explained that this is just a reallocation of funds and no increase in the overall budget. Mr. Chang made a motion to approve a budget amendment for 2021 round of Regional Water Planning increasing Non-Pop Demands line item (\$9,000); Pop Demands line item (\$20,000); Supply line item (\$35,000), and decreasing Impacts of RWP line item <\$26,000>; Drought Response line item <\$21,000>; Recommendations line item <\$4,000>; and WIF Report line item <\$13,000>. The motion was seconded by Ms. Forrest and carried unanimously.

12. RECEIVE REPORT REGARDING RECENT AND UPCOMING ACTIVITIES RELATED TO COMMUNICATIONS AND OUTREACH EFFORTS ON BEHALF OF THE REGION H WATER PLANNING GROUP

There were no recent or upcoming activities reported.

13. AGENCY COMMUNICATIONS AND GENERAL INFORMATION

Mr. Evans suggested that because of the upcoming legislative session, that the RHWPG authorize the executive committee to act on behalf of the RHWPG, speak to proposed legislation, and report back to the group. It was discussed that a Legislative Committee be formed to discuss pending legislation and would be further discussed and considered at the next meeting.

14. RECEIVE PUBLIC COMMENTS

There were no public comments.

15. NEXT MEETING

Mr. Evans announced that the next Region H Water Planning Group meeting will take place on October 3, 2018.

16. ADJOURN

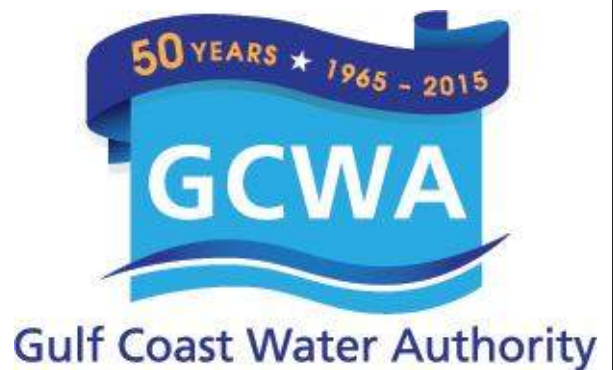
Without objection, the meeting was adjourned at 11:06 a.m.

Agenda Item 5

Receive presentation from Consultant Team regarding the proposed application by Gulf Coast Water Authority to amend the 2016 Region H Regional Water Plan and consider approving the submittal of the application package to TWDB for the determination of minor amendment status.

Agenda Item 5 Proposed RWP Amendment

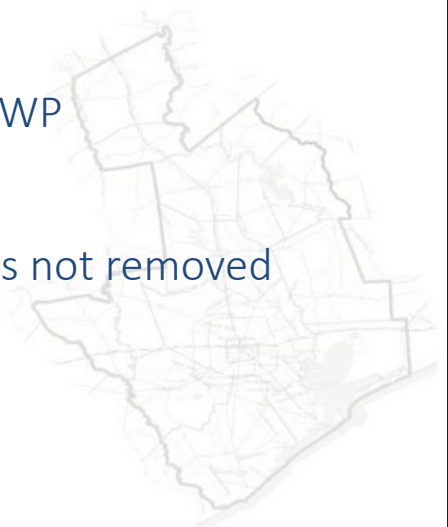
- Proposed by GCWA
 - Align with potential strategy list
 - Reflect anticipated sources
 - Consistency for potential funding
- Multiple WMS and projects
- Modifications and new WMS



Agenda Item 5 Proposed RWP Amendment

1. Remove COH Reuse from GCWA

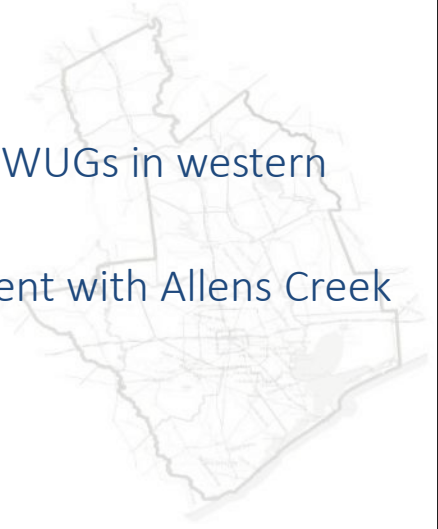
- *GCWA Reuse from COH project*
- 33,712 ac-ft allocated through GCWA in 2016 RWP
- Not currently pursuing
- Volumes for other COH reuse WMS and projects not removed



Agenda Item 5 Proposed RWP Amendment

2. Apply BRA System Operation Water

- WMS source for Regions G and H
- 25,350 ac-ft for Region H in 2016 RWP
- Allocated directly to Manufacturing and Mining WUGs in western Brazoria County
- Proposed reassignment to GCWA and replacement with Allens Creek supply



Agenda Item 5 Proposed RWP Amendment

3. Chocolate Bayou Scalping

- New WMS and project(s)
- Near-term implementation
- Portion of system capacity-limited
 - Revise existing supplies to reflect
 - Small salt water barrier
 - Pump station with higher usable capacity
- Increase from 24 mgd to 72 mgd
- New analysis and WMS tech memo



Agenda Item 5 Proposed RWP Amendment

4. SEWPP Treated Water

- Key facility
- 200 mgd current capacity
- Proposed utilization of near-term excess capacity
- Reallocation of WUG surplus supply
- Some new analysis and WMS tech memo



Agenda Item 5 Proposed RWP Amendment

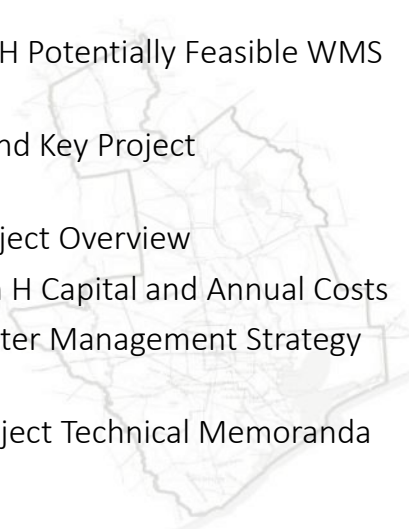
5. Lake Whitney Reallocation

- Considered by Region G in 2016 RWP
- Reallocation of storage for supply generation
- Region G estimated $\approx 21,500$ to 75,000 ac-ft firm diversion increase
- Longer-term due to Federal involvement
- Revised analysis and WMS tech memo
- Inter-Regional coordination



Agenda Item 5 Proposed RWP Amendment

- Executive Summary
- Chapter 3 – Analysis of Current Water Supplies
 - Revisions to text
 - Appendix 3-DB
- Chapter 4 – Analysis of Needs
 - Revisions to text
 - All tables and figures
 - Appendix 4-DB
- Chapter 5 – Water Management Strategies
 - Revisions to text
 - Table 5-3 – Region H Potentially Feasible WMS and Projects
 - Table 5-4 – WMS and Key Project Relationships
 - Table 5-5 – Key Project Overview
 - Figure 5-5 – Region H Capital and Annual Costs
 - Appendix 5-A – Water Management Strategy Tables
 - Appendix 5-B – Project Technical Memoranda
 - Appendix 5-DB



Agenda Item 5 Proposed RWP Amendment

- Chapter 6 – Impacts of the RWP
 - Revisions to text
 - Table 6-1 – Key Recommended Water Management Strategies and Projects
- Chapter 9 – Financing
 - Revisions to text
 - All tables and figures
- Chapter 11 – Implementation and Comparison to Previous RWP
 - Revisions to text
 - Figures 11-10 through 11-13
 - Appendix 11-A – Implementation Survey Results
- Project prioritization
- DB22 data entry



Agenda Item 5 Proposed RWP Amendment

1. RWPG considers concept for referral to TWDB

2. TWDB determines minor or major amendment status

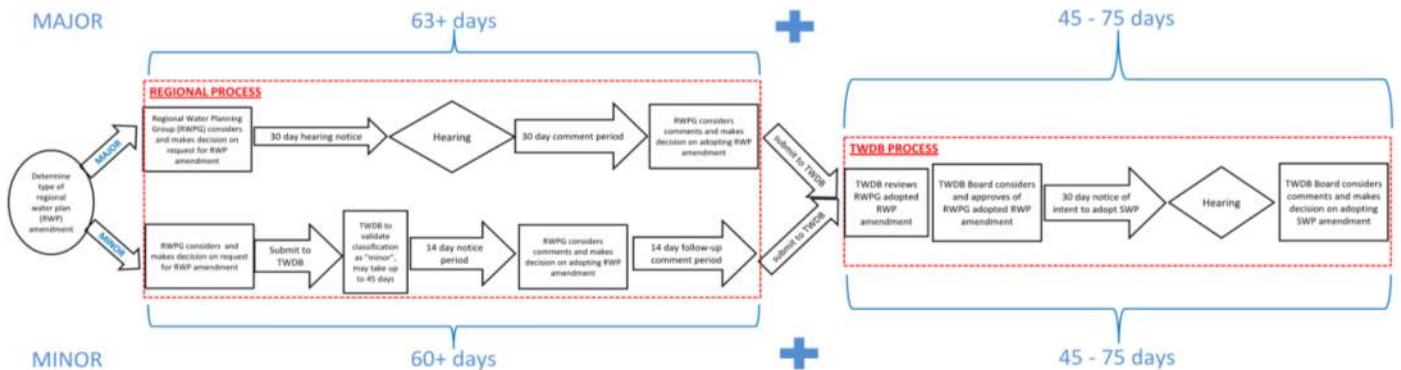
3. Public process

4. RWPG considers approval of amendment

5. TWDB considers approval of amendment

Agenda Item 5 Proposed RWP Amendment

Texas Water Development Board
State Water Plan (SWP) Amendment Process Timeline



Please note: the Regional Process timeline outlined above is exclusive of any additional days needed to accommodate scheduling for public meetings, posting of public notice, or other variables. Also, the timeline does not reflect the additional days needed by the RWPG to prioritize the amended regional plan.

Agenda Item 5 Proposed RWP Amendment

Action:

Approve the submittal of the application package to TWDB
for the determination of minor amendment status.



Amending an Approved Regional Water Plan

Background

Every five years, the 16 regional water planning groups must develop and adopt regional water plans, which are then submitted to the Texas Water Development Board (TWDB) for approval. The TWDB then compiles the regional water plans into a state water plan. During the five-year span between the regular regional water plan adoptions, the plans may need to be amended to identify long-term water supplies.

How is an amendment to a regional water plan initiated?

A regional water planning group may initiate an amendment on its own. A political subdivision of the state of Texas in the regional water planning area may also request an amendment from the regional water planning group on the basis of changed conditions or new information¹.

The following general principles govern the amendment process:

- The planning group must formally consider the request within 180 days of its submittal.
- The planning group may, at its discretion, accept or reject the proposed amendment.
- The political subdivision may petition the TWDB executive administrator for agency review if the political subdivision is not satisfied with the planning group's decision².
- The executive administrator may ask the regional water planning group to make a revision.
- If the revision is not made within 90 days, the matter is presented to the TWDB, which can order a revision to the regional water plan and state water plan on the basis of changed conditions or new information.

What are the ways that a regional water plan may be modified?

Revisions to TWDB Board Adopted Population or Water Demand Projections may be requested from the TWDB whenever current projections are no longer reasonable owing to changed conditions or the availability of new information³.

The process requires the following:

- A regional water planning group must submit a revision request, usually based on a request from a political subdivision, to the TWDB.
- The regional water planning group must provide at least 14 days notice for a meeting and make the proposed population and/or water demand projection revisions available for public inspection prior to the meeting.
- The regional water planning group must accept oral and written public comments at the meeting in which the request is considered and written comments for 14 days prior to and following the meeting.
- The regional water planning group submits the revision request to the TWDB, including a summary of all comments the planning group received at the meeting and during the comment period.

¹ 31 TAC §357.51 (a). Any amendment proposed must meet rules and guidelines for development of a regional water plan.

² The petition must be provided to the regional water planning group and must include the changed condition or new information that affects the approved regional water plan; the specific sections and provisions of the approved regional water plan that are affected by the changed condition or new information; the efforts made with the regional water planning group to obtain an amendment; and the proposed amendment to the approved regional water plan (31 TAC §357.51 (a)).

³ 31 TAC §357.31.

- The TWDB consults with other state agencies, and within 45 days of receipt of a revision request from a regional water planning group, the executive administrator responds to the request.
- All requested revisions will be presented for consideration of approval at an upcoming TWDB Board meeting. Based on consultations with the Texas Department of Agriculture, Texas Commission on Environmental Quality, and Texas Parks and Wildlife Department, the TWDB staff will make a consensus recommendation to the Board.

Substitutions of water management strategies that have already been fully evaluated and are explicitly identified as “alternative” water management strategies in adopted regional water plans may be made if⁴

- the water management strategy originally recommended is no longer recommended, and
- the proposed substitution of the alternative water management strategy is capable of meeting the same water need without over-allocating any source.

The substitution process requires the following:

- An entity requests that the regional water planning group make a substitution.
- The regional water planning group considers the proposed substitution request as an action item on an agenda at one of its regular meetings.
- Proposed substitution materials are submitted to the TWDB executive administrator for consideration⁵.
- The executive administrator provides written approval of the substitution if it is in accordance with 31 Texas Administrative Code (TAC) § 357.51(e).
- The regional water planning group adopts the substitution at a public meeting with an opportunity for public input. This meeting requires at least a 14-day notice⁶. The regional water planning group considers public comments and may adopt the amendment at the meeting. Comments must also be accepted for 14 days after the meeting.
- The regional water planning group submits evidence of the substitution to the TWDB, including a summary of public comments.
- The TWDB then amends the state water plan, which requires a public hearing on the proposed state water plan amendment and a 30-day public notice prior to its adoption.

Minor amendments can be made to incorporate changes that do not

- result in over-allocation of an existing or planned source of water,
- relate to a new reservoir,
- increase unmet needs or produce new unmet needs in the adopted regional water plan,
- have a significant effect on instream flows, environmental flows, or freshwater flows to bays and estuaries,
- have a significant substantive impact on water planning or previously adopted management strategies, or
- delete or change any legal requirements of a plan⁷.

The minor amendment process requires the following:

- An entity requests the regional water planning group to amend a regional water plan.
- The regional water planning group considers the request and takes action to pursue the amendment at one of its regular public meetings.
- Amendment materials are prepared in accordance with TWDB rules and guidance, and a request for a “minor amendment determination” is submitted to the TWDB’s executive administrator.
- The executive administrator reviews the request and issues a determination to the planning group.
- If the executive administrator determines that it is a “minor amendment,” the regional water planning group considers adopting the amendment at a public meeting with an opportunity for public input. This meeting requires at least a 14-day notice⁸. The regional water planning group considers public comments

⁴ Per 31 TAC §357.51 (e).

⁵ 31 TAC §357.51 (e).

⁶ 31 TAC §357.51 (c) and posted under the Texas Open Meetings Act.

⁷ 31 TAC §357.51 (c).

⁸ 31 TAC §357.51 (c) and posted under the Texas Open Meetings Act.

and may adopt the amendment at the meeting⁹. Comments must also be accepted for 14 days after the meeting.

- The regional water planning group submits the adopted minor amendment materials, including a summary of public comments, to the TWDB for approval.
- The TWDB reviews the adopted minor amendment and, if acceptable, approves it at its next regular Board meeting.
- The TWDB then amends the state water plan, which requires a public hearing on the proposed state water plan amendment and a 30-day public notice prior to its adoption.

Major amendments can be made to incorporate changes that cannot be addressed through a minor amendment. Major amendments shall not result in an over-allocation of an existing or planning source of water, and shall conform with all other rules for regional water plan development¹⁰.

The major amendment process requires the following:

- An entity requests that the regional water planning group make an amendment.
- The regional water planning group considers the request and takes action to pursue the amendment at one of its regular public meetings.
- Amendment materials are prepared in accordance with TWDB rules and guidance for consideration at a public hearing.
- The regional water planning group holds a public hearing on the proposed amendment¹¹. This process requires 30 days between the mailed and published notice of the hearing and the hearing date and a 30-day comment period following the hearing.
- The regional water planning group considers all public comments received and may adopt the regional water plan amendment at a regular planning group meeting¹² after the 30-day comment period¹³.
- The regional water planning group submits the adopted amendment materials, including a summary of public comments, to the TWDB for approval¹⁴.
- The TWDB reviews the adopted major amendment and, if acceptable, approves it at its next regular Board meeting.
- The TWDB then amends the state water plan, which requires a public hearing on the proposed state water plan amendment and a 30-day public notice prior to its adoption.

Who pays for an amendment?

The regional water planning group may ask the political subdivision requesting the amendment to pay for study costs related to the request. Limited TWDB funds may be available to pay for plan amendments, however these funds may only be applied for by the regional water planning group's designated political subdivision. Unsolicited proposals requesting TWDB funding for an amendment may be submitted at any time using the standard grant application instruction sheet and are subject to public notice requirements for requesting research and planning funds from the Board¹⁵. Proposals must include a scope of work, task items, and expense budgets for the work to be performed. Allocation of funds requires Board approval and is variable depending on the extent of the scope of work presented with the request and the availability of funds.

⁹ Amendment adoption must include response to public comment and must otherwise comply with TWDB technical guidelines.

¹⁰

¹¹ 31 TAC §357.21 (d).

¹² Posted under the Texas Open Meetings Act; see also 31 TAC §357.21 (d).

¹³ Amendment adoption must include response to public comment and must otherwise comply with TWDB technical guidelines.

¹⁴ Amendments to an approved regional water plan shall include a technical report and data in accordance with TWDB specifications, executive summary, and summaries of all written and oral comments received with a response. Data must be transferred to the TWDB (31 TAC §357.50 (g)).

¹⁵ 31 TAC §357.21 (e).

Why might a regional water plan need to be amended?

If a project sponsor seeks (a) funding from the TWDB for a water supply project or (b) a water rights permit from the Texas Commission on Environmental Quality, the proposed project must be found to be consistent with the approved regional water plan and state water plan.

If the proposed project is not already consistent with the approved regional and state water plan and the sponsor cannot wait to incorporate the proposed project into the next adopted regional water plan, the existing regional water plan must be amended, or a waiver of statutory requirements regarding consistency with such plans must be obtained from the TWDB and/or Texas Commission on Environmental Quality¹⁶.

Additionally, in order for projects to be eligible for funding from the State Water Implementation Fund for Texas, projects must be recommended in the most recent regional and state water plans and have an associated capital cost.

Statutes and Rules

Texas Water Code, Chapter 16, Subchapter C:

<http://www.statutes.legis.state.tx.us/Docs/WA/htm/WA.16.htm>

31 TAC Chapter 357:

[http://texreg.sos.state.tx.us/public/readtac\\$ext.ViewTAC?tac_view=4&ti=31&pt=10&ch=357&rl=Y](http://texreg.sos.state.tx.us/public/readtac$ext.ViewTAC?tac_view=4&ti=31&pt=10&ch=357&rl=Y)

For more information on regional water planning and related guidance, please visit the following Web site:

<http://www.twdb.texas.gov/waterplanning/rwp/index.asp>

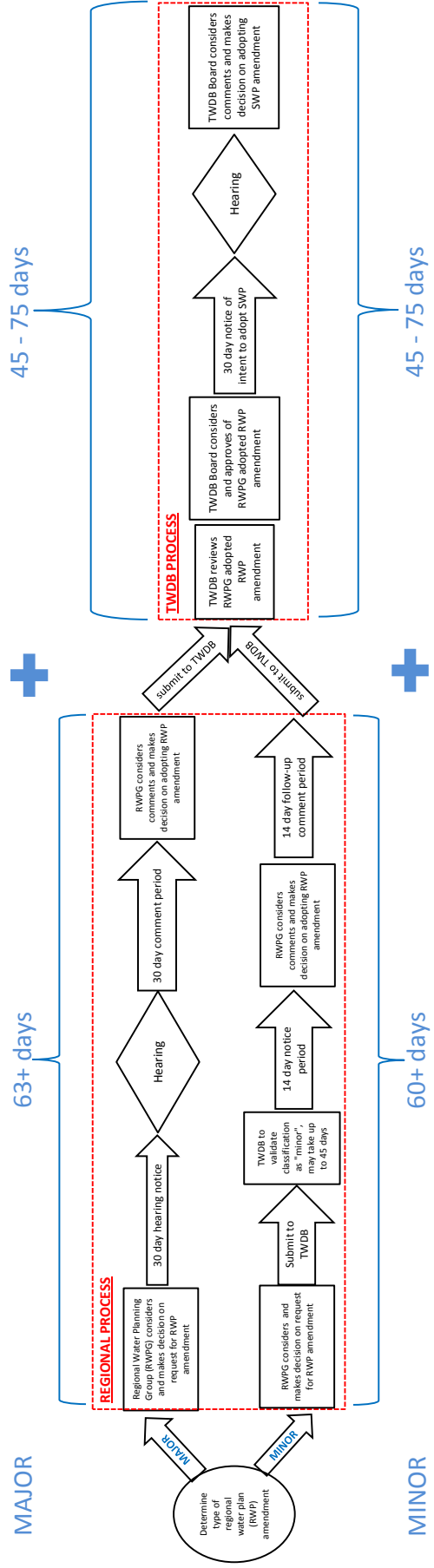
Note:

This guidance document does not cover all procedural and substantive requirements applicable to water plan amendments. For this reason, this document should not be used as a substitute for the regulations as written. In case of doubt, consult the Texas Water Code, Chapter 16, Subchapter C, and 31 TAC Chapter 357. Regional water planning groups or political subdivisions with legal questions regarding changes to the regional water plans should consult with their own attorneys or the Texas Attorney General's Office.

Updated 11/17

¹⁶ 31 TAC §357.60 (b)(5).

Texas Water Development Board State Water Plan (SWP) Amendment Process Timeline

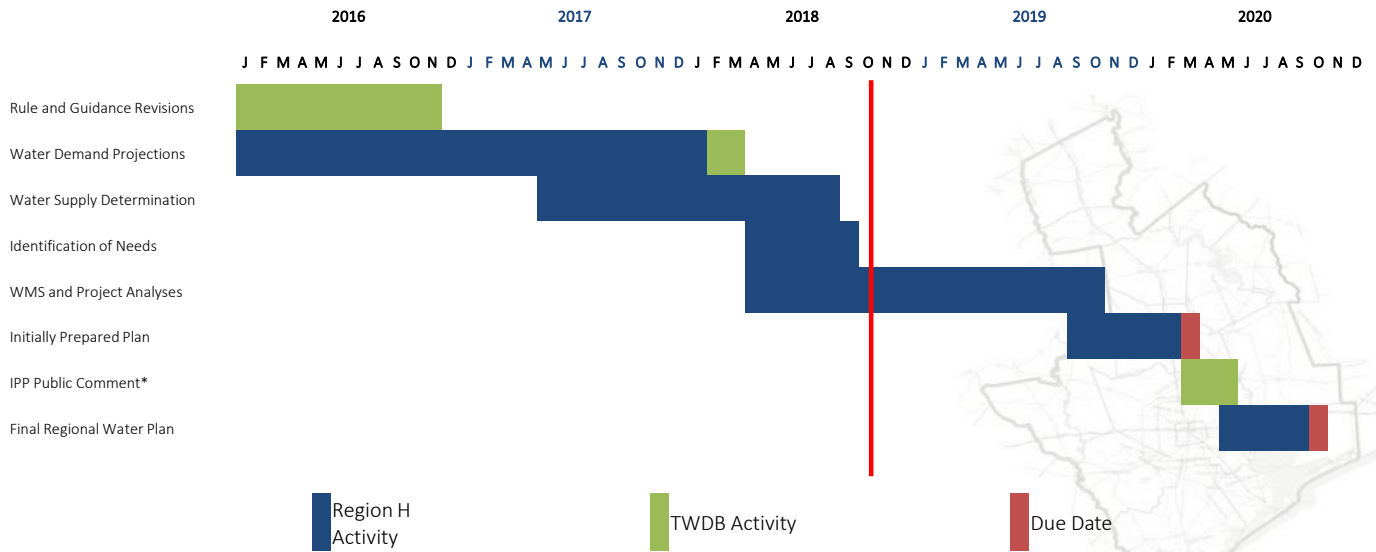


Please note: the Regional Process timeline outlined above is exclusive of any additional days needed to accommodate scheduling for public meetings, posting of public notice, or other variables. Also, the timeline does not reflect the additional days needed by the RWPG to prioritize the amended regional plan.

Agenda Item 6

Receive update from Consultant Team regarding the schedule and milestones for the development of the 2021 Region H Regional Water Plan (RWP).

Agenda Item 6 2021 RWP Schedule



*Region H accepts public comment throughout the planning cycle and at each RWPG and committee meeting.

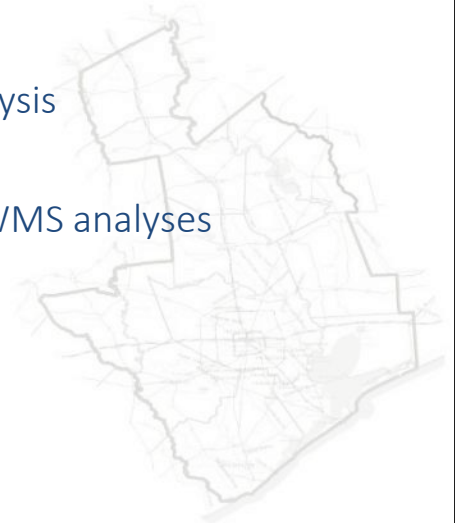
Agenda Item 6 2021 RWP Schedule

Date	Scheduled Events/Tasks
10/2018	RWPG Meeting
07/2019	DUE DATE: Economic Impacts Analysis Request
03/2020	DUE DATE: Initially Prepared Plan
10/2020	DUE DATE: FINAL RWP

Agenda Item 6 2021 RWP Schedule



- Finalize refinements to existing supply
- Needs analysis
- Continue WMS analyses



Working Schedule: Fifth Cycle of Regional Water Planning (October 2018)^A


ITEM	ENTITY	ACTIVITY	Planning																																			
			Task #	2016			2017			2018			2019			2020																						
			J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
1	TWDB	Release list of new municipal WUGs under utility boundary process	2B	WUGS																																		
2	TWDB	Draft population and mining, and municipal demand projections prepared and made available by the TWDB	2A, 2B	DATA RELEASED																																		
3	RWPG	Identify any optional sub-WUGs for RWPA so the TWDB can incorporate these entities into the DB22 data structure	2B	OPTIONAL SUB-WUGS DUE: 9/1/17																																		
4	TWDB	Draft livestock, irrigation, manufacturing, and steam-electric power demand projections made available by the TWDB	2A	DATA																																		
5	RWPG	Review draft projections and finalize adjustments and WUG list with TWDB staff	2A, 2B	REVIEW & FINALIZE DRAFT PROJECTIONS AND WUG LIST DUE: 1/12/18 ----->																																		
6	TWDB	TWDB Board adopts all projections	2A, 2B	ADOPT																																		
7	TWDB/RWPG	DB22 prepared and released for data entry ^{B,C}		DB22 DATA MIGRATION AND PREPARATION																																		
8	TWDB/RWPG	DB22 consultant training		TECH CALL			ON-DEMAND VIDEOS RELEASED																															
9	RWPG	Evaluate water availability and existing water supplies	3	EVALUATE WATER SOURCE AVAILABILITY & EXISTING SUPPLIES																																		
10	RWPG	Identify water needs	4A	IDENTIFY WATER NEEDS																																		
11	TWDB	"As of" date for needs in DB22 to be utilized for the socioeconomic impact analysis	6																																			
12	RWPG	Identify potentially feasible WMSs	4B	IDENTIFY POTENTIALLY FEASIBLE WMSs																																		
13	TWDB	New modeled available groundwater (MAG) volumes issued by the TWDB based on updated desired future conditions	3	NEW MAGS ISSUED																																		
14	TWDB	TWDB planning rule revisions		RULE REVISIONS																																		
15	TWDB/RWPG	Next RFA for regional water planning grant (public notice, remaining SOW, total study cost)		2ND RFA																																		
16	TWDB/RWPG	Amend contracts with additional funding ^D (WMS evaluation funding to remain as notice-to-proceed)		Amend to Commit FY16-17			Amend to Commit FY18-19			Amend to Commit FY20																												
17	TWDB	Review and negotiate SOW submissions for WMS evaluations and issue notice-to-proceed ^D	5A	REVIEW AND NEGOTIATE SOWS FOR ALL WMS EVALUATIONS (UPON SUBMITTAL BY RWPG)																																		
18	RWPG	Prepare and submit Technical Memorandums	4C	TECH MEMO DUE: 9/10/18																																		
19	TWDB	Socioeconomic impact reports distributed to RWPGs	6	REPORT																																		
20	RWPG	Complete the 2021 regional water plans	ALL																IPP DUE MARCH 3, 2020 ----->																			
21	SHC	Stakeholder committee meet to consider uniform standards for 2021 project prioritizations		MTG																																		
22	RWPG	Prepare and submit project prioritizations from 2021 regional water plans	12																																			

Note A: Estimated timeline based on currently available agency resources and subject to change

Note B: DB22 is the updated, online water planning database for the 2022 State Water Plan

Note C: Anticipated database availability dates are estimates based on currently available agency resources

Note D: Subject to available funding



 RWPG activity =

 Contracting activity =

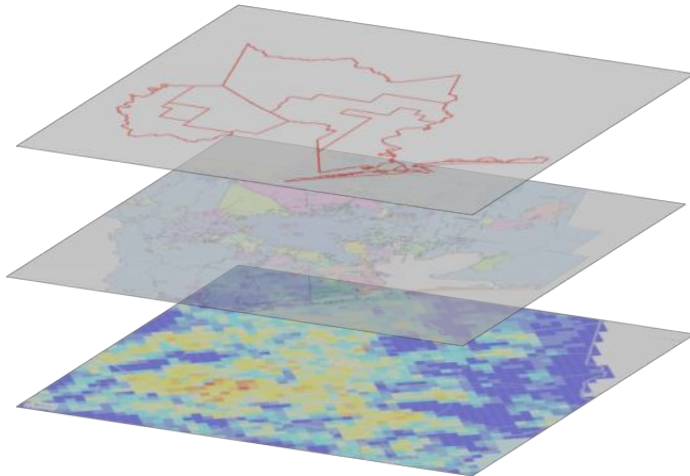
 TWDB activity =

 Database activity =

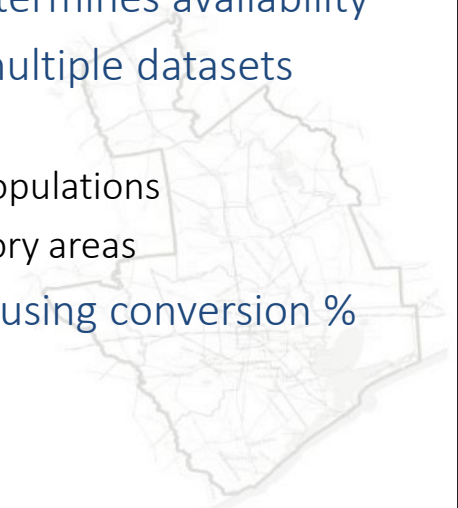
Agenda Item 7

Receive update from Consultant Team regarding non-MAG available groundwater supplies in the Gulf Coast Aquifer in Subsidence District counties and consider taking action to authorize the Consultant Team to update source availability.

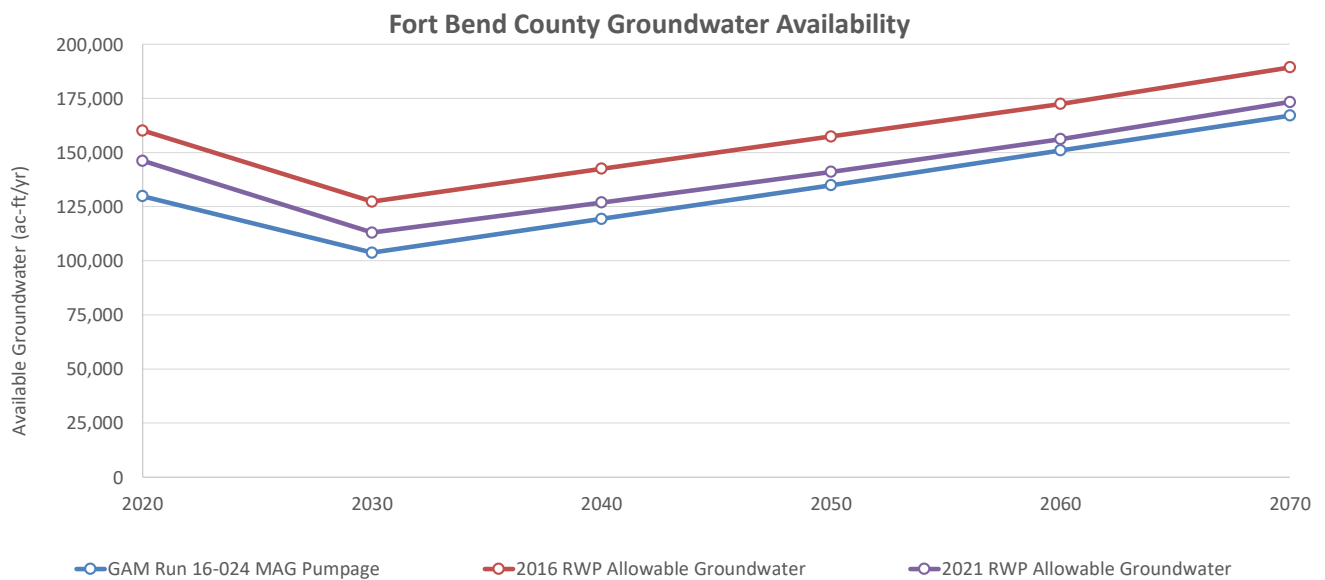
Agenda Item 7 Non-MAG Groundwater



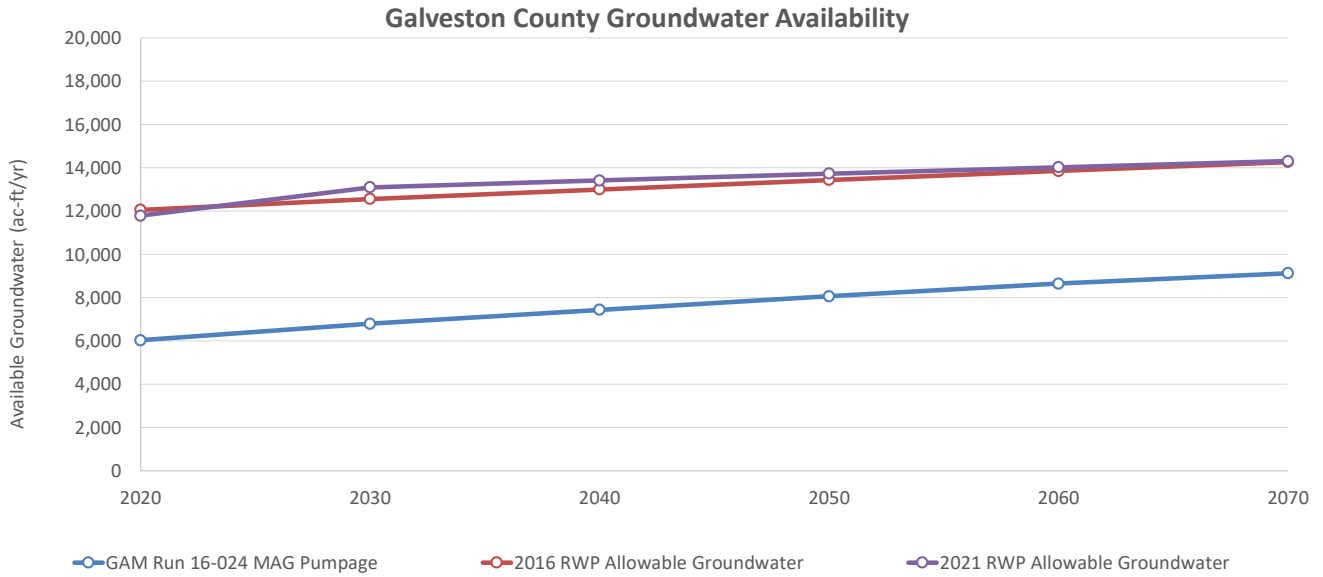
- Subsidence Districts non-MAG
- RWPG determines availability
- Overlay multiple datasets
 - WUGs
 - RGUP populations
 - Regulatory areas
- Calculate using conversion %



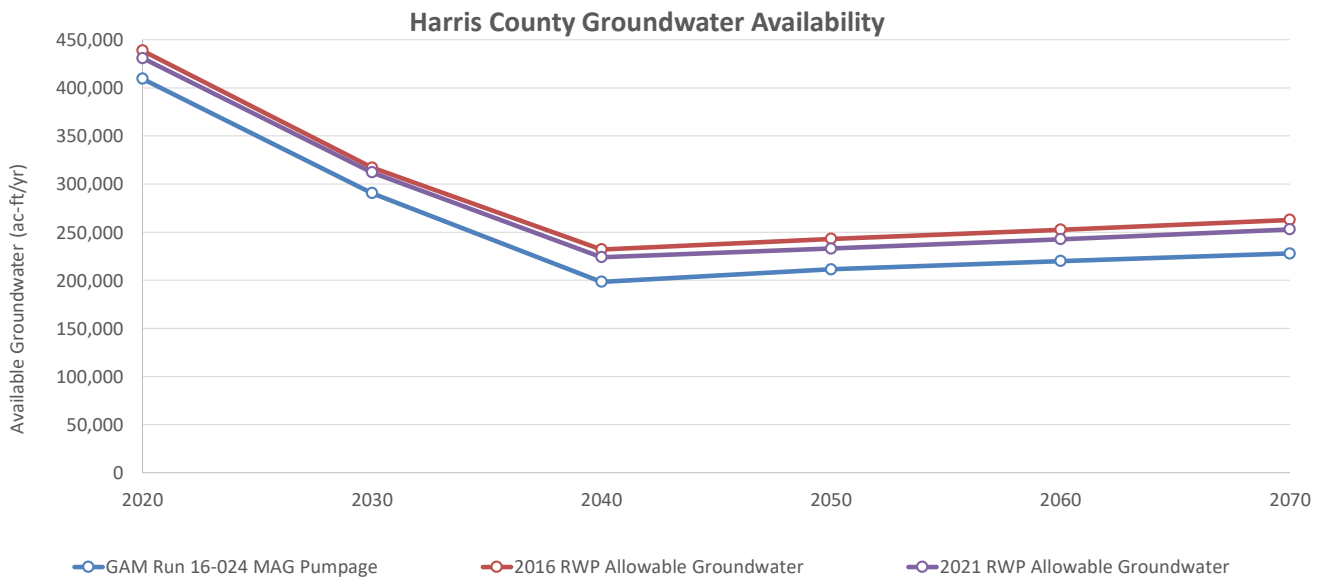
Agenda Item 7 Non-MAG Groundwater



Agenda Item 7 Non-MAG Groundwater

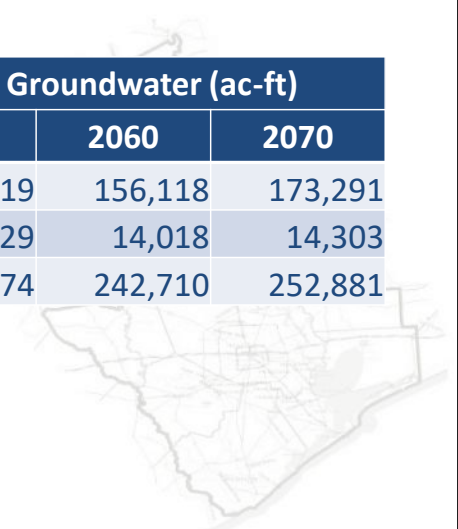


Agenda Item 7 Non-MAG Groundwater



Agenda Item 7 Non-MAG Groundwater

County	Estimated Gulf Coast Aquifer Allowable Groundwater (ac-ft)					
	2020	2030	2040	2050	2060	2070
Fort Bend	146,175	113,016	126,847	141,019	156,118	173,291
Galveston	11,788	13,094	13,410	13,729	14,018	14,303
Harris	430,930	312,250	224,125	232,974	242,710	252,881



Agenda Item 7 Non-MAG Groundwater

Action:

Authorize Consultant Team to update the source availability for the Gulf Coast Aquifer in Subsidence District counties.

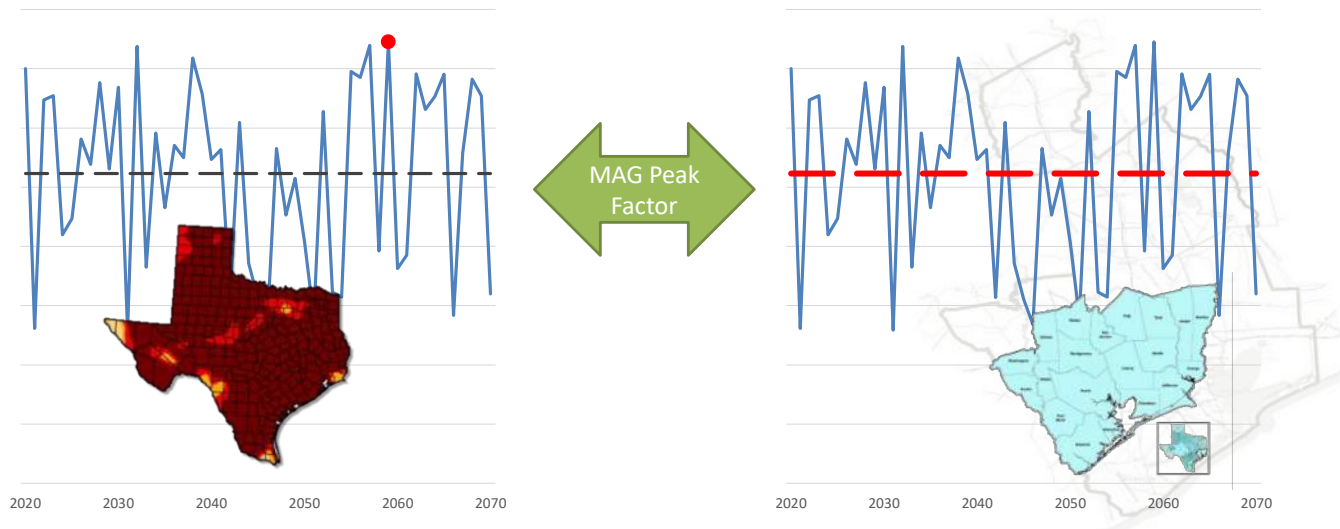


Agenda Item 8

Receive update from Consultant Team regarding Modeled Available Groundwater (MAG) Peak Factors and consider taking action to authorize the Consultant Team to submit the Peak Factor request to Texas Water Development Board (TWDB).

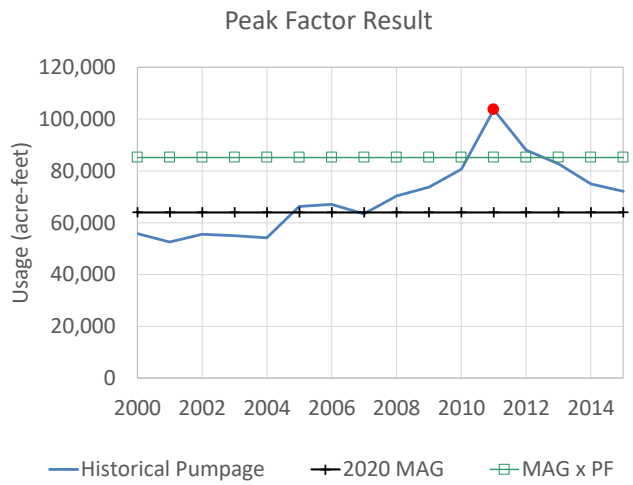
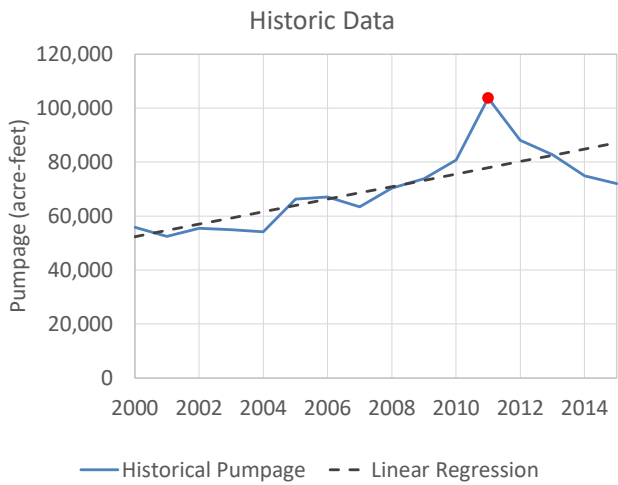
Agenda Item 8 MAG Peak Factors

A difference in planning...



Agenda Item 8 MAG Peak Factors

- Maximum pumpage deviation from pumpage trend



Agenda Item 8 MAG Peak Factors

County	Groundwater-Limited Need	2020 MAG	Recommended Peak Factor	2020 MAG x PF	GCD/SD Decision
Austin		22,298	123.9%	27,631	approved
Brazoria	✓	50,417	140.9%	71,022	approved
Chambers	✓	22,951	121.4%	27,857	n/a
Liberty		43,229	105.8%	45,758	n/a
Madison (Sparta)*	✓	3,320	117.4%	3,898	approved
Montgomery	✓	64,005	133.2%	85,224	approved
Polk		21,810	113.7%	24,792	declined
San Jacinto		20,983	138.0%	28,947	declined
Walker		17,973	114.8%	20,626	approved
Waller		41,593	144.7%	60,184	approved

* With the exception of Madison County, all MAGs shown are for the Gulf Coast Aquifer.

Agenda Item 8 MAG Peak Factors

- Step 1: RWPG approval of concept
- Step 2: GCD approval
 - Bluebonnet GCD
 - Brazoria County GCD
 - Lone Star GCD
 - Mid-East Texas GCD
- Step 3: GMA 12 & 14 approval
- Step 4: RWPG approval to submit
- Step 5: TWDB consideration

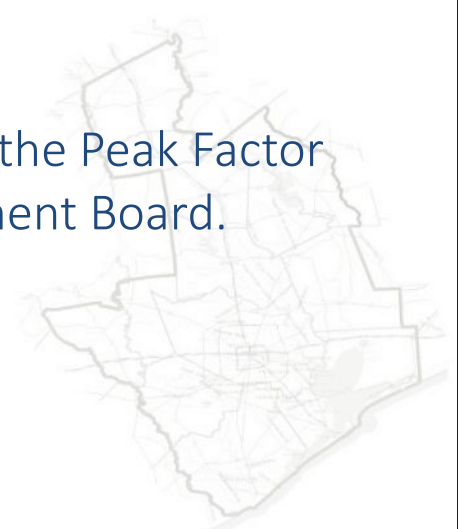


Agenda Item 8

MAG Peak Factors

Action:

Authorize Consultant Team to submit the Peak Factor request to Texas Water Development Board.



GMA and GCD Peak Factor Approval Documentation

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655 Conroe Park North Drive • Conroe, Texas 77303
local 936/494-3436 • metro 936/441-3437 • fax 936/494-3438
e-mail: lsgcd@consolidated.net • www.lonestargcd.org

Kathy Turner Jones
General Manager

October 3, 2018

Board of
Directors

Rick Moffatt
President

James M. Stinson, PE
Vice-President

Gregg Hope
Secretary

W. B. Wood
Treasurer

John D. Bleyl, PE

Jace A. Houston

Roy McCoy, Jr.

Webb Melder

M. Scott Weisinger, PG

The Honorable Mark Evans, Chair
REGION H WATER PLANNING GROUP
C/O San Jacinto River Authority
P.O. Box 329
Conroe, Texas 77305-0329

RE: MAG Peak Factors

Greetings:

On behalf of the Board of Directors of the Lone Star Groundwater Conservation District ("LSGCD"), I want to thank Courtney Corso and Philip Taucer with Freese and Nichols for their presentation providing LSGCD an overview of Region H Water Planning Group's consideration of MAG Peaking Factor(s) and recommendations for Montgomery County.

The LSGCD understands the implementation of MAG peak factor for this 5th cycle of RWP development is intended to bridge the gap between joint planning and regional planning perspectives, allowing RWPs to reflect how GCDs already are able to manage groundwater.

In that regard, at its meeting on July 10, 2018, the LSGCD board voted to accept Region H's recommended MAG Peak Factor of 133.2% for Montgomery County with an allowable pumpage of 85,224 acre/ft in each decade. For your convenience, a copy of the approved meeting minutes is hereto attached.

Should you need additional information, please feel free to contact me at your convenience.

Sincerely,

A handwritten signature in black ink, appearing to read "Kathy Turner Jones".

Kathy Turner Jones
General Manager

KTJ

Attachment

cc: Freese and Nichols

**LONE STAR
GROUNDWATER CONSERVATION DISTRICT**

July 10, 2018

MINUTES OF REGULAR MEETING

The Board of Directors of the Lone Star Groundwater Conservation District ("District") met in regular session, open to the public, in the Lone Star GCD - James B. "Jim" Wesley Board Room located at 655 Conroe Park North Drive, Conroe, Texas, within the boundaries of the District on July 10, 2018.

CALL TO ORDER:

President Moffatt presided and called to order the regular Board of Directors meeting at 10:06 AM, announcing that it was open to the public.

ROLL CALL:

The roll was called of the members of the Board of Directors, to wit:

John D. Bleyl, PE
Gregg Hope
Jace Houston
Roy McCoy, Jr.
Webb Melder
Rick J. Moffatt
Jim Stinson, PE
M. Scott Weisinger, PG
W. B. Wood

All members of the Board were present, with the exceptions of Director(s) Stinson, thus constituting a quorum of the Board of Directors. Also in attendance at said meeting were Kathy Turner Jones, General Manager; Samantha Reiter, Assistant General Manager; Brian L. Sledge, District Counsel, District staff, and members of the public. *Copies of the public sign-in sheets are attached hereto as Exhibit "A".*

PUBLIC COMMENTS:

Mike Stoecker provided public comment on the agenda item related to approval of the interlocal agreement for governmental functions and services for joint planning in GMA 14. Mr. Stoecker expressed concern over GMA 14's hiring of INTERA and that Lone Star should not be entering into any agreements and becoming obligated to expend funds when a new board will be elected in November, and the current board would be tying their hands. He noted that delaying GMA 14's activities for another three or four months would not matter in this instance. The

General Manager noted that GMA 14 had already approved hiring INTERA at a prior meeting, and that the item on the agenda today has to do with the cost sharing arrangement between the entities participating in GMA 14, of which Lone Star's share is \$35,000 for the planning cycle, and which has already been budgeted by Lone Star.

APPROVAL OF THE MINUTES:

President Moffatt stated the Board would consider all meeting minutes as listed for approval on today's agenda as one item. A motion was made to approve the meeting minutes by Director Houston and seconded by Director Bleyl. The motion to approve the minutes was approved unanimously by those present.

- a) June 12, 2018, Special Board Meeting
- b) June 12, 2018, Public Hearing on Permit Applications
- c) June 12, 2018, Notice to Call Election
- d) June 12, 2018, Regular Board of Directors Meeting

REGION H WATER PLANNING GROUP PRESENTATION – MAG PEAK FACTORS:

President Moffatt introduced the presentation by stating Regional Planning Groups when developing Regional Water Plans (RWPs) consider water supply availability under drought of record conditions and do not reflect wet year pumping, while the joint planning process for groundwater considers long-term average conditions. For the 5th cycle of RWP development, the Texas Water Development Board (TWDB) has allowed the implementation of MAG peak factors, which are multipliers greater than 100% applied to long-term Modeled Available Groundwater (MAG) values to estimate dry-year availability. The intent of the peak factor is to bridge the gap between joint planning and regional planning perspectives, allowing RWPs to reflect how GCDs already are able to manage groundwater. Philip Taucer and Courtney Corso with Freese & Nichols provided an overview of Region H Water Planning Group's consideration of a MAG Peaking Factor and recommendations for Montgomery County. Mr. Taucer emphasized that the MAG Peak Factor only relates to planned pumping. It does not limit permitting and does not guarantee approval of any future groundwater permit.

Following discussion, Director Bleyl motioned to accept Region H's recommended Peak Factor of 133.2% with an allowable pumpage of 85,224 acre/ft in each decade. Director Houston seconded the motion. The motion passed with Director(s) McCoy, Melder, and Weisinger voting in opposition.

COMMITTEE REPORTS:

A. Executive Committee and/or Settlement Committee – Rick Moffatt, Chair

- 1) Brief the Board on the Committee's activities since the last regular Board meeting – No meeting.
- 2) Defense of the following lawsuit: City of Conroe et al. v. Lone Star Groundwater Conservation District (and the District's directors and general manager in their

official capacities) – Mr. Sledge reported that an update had been presented in Executive Session.

B. Water Awareness and Conservation Committee - Billy Wood, Chair

- 1) Brief the Board on the Committee's activities since the last regular Board meeting – No meeting.
- 2) Update on public outreach activities, water efficiency, and conservation efforts – James Ridgway – Mr. Ridgway provided a photo of the Texas 4-H Water Ambassadors visit on June 18th. Other topics discussed: the District's portable aquifer and its usefulness as a teaching aid in classroom settings, and outreach presentations at the Lone Star College's Discovery Camp. Announcements: the next meeting of the Water Efficiency Network is scheduled for Thursday, July 26th.

C. Rules and Regulatory Planning Committee – Jim Stinson, Chair

- 1) Brief the Board on the Committee's activities since the last regular board meeting – General Manager, Kathy Turner Jones reported the committee met on July 2nd and plan to meet again on July 31st before presenting draft recommendations for well spacing guidelines to the Board at the August board meeting.

D. Policy and Personnel Development Committee – Jace Houston, Chair

- 1) Brief the Board on the Committee's activities since the last regular Board meeting – No report.

E. Budget and Finance Development Committee – Billy Wood, Chair

- 1) Brief the Board on the Committee's Activities – No report. However, Director Wood stated that there would be a committee meeting scheduled soon to include the annual review of District water use fees.
- 2) Review of monthly financial reports – Director Wood reported that, for the month of June, revenue was budgeted at \$41,325—actual was \$116,335. Expenses were budgeted at \$157,303—actual expenses were \$82,189. Net income for the month was \$116,335. Year-to-date net income is \$419,827.
- 3) Review 2nd Quarterly Investment Report 2018 – General Manager, Kathy Turner Jones reported June 30, 2018 fund balances, including TexPool and First Financial Bank (FFB), as \$564,000 with approximately \$2.5 million in securities pledged.

F. Findings and Review Committee – Rick Moffatt, Chair

- 1) Brief the Board on the Committee's activities since the last regular Board meeting – President Moffatt reported no meeting.

- 2) Groundwater Management Area 14 -- update the board on the legal, technical, and financial issues related to joint planning activities and development of desired future conditions in GMA 14 - Ms. Jones reported that GMA 14 did not meet in June. Ms. Jones reminded directors that the planning group took action at their May meeting and authorized approval of the scope of work presented by INTERA Inc for professional services. The next meeting of the GMA 14 will be held on Wednesday, July 25th.

- (a) Discussion and possible action related to approving interlocal agreement for governmental functions and services related to the third round of Joint Planning in GMA 14 - Ms. Jones explained that GMA 14's proposed budget for services related to the third round of joint planning increased by 38% from costs associated with round two. The approved scope of work provides for one additional model run than scoped in the previous planning cycle and anticipates an increased number of meetings and increased costs of services over a three-year period.

GMA 14 consists of five groundwater districts, with the majority of the districts estimated to provide equal funding. Lone Star's proportionate funding obligation is \$35,000. Historically, both subsidence districts have contributed to the funding commitment by participating in the interlocal agreement(s). Further, it is anticipated that both Washington and Chambers counties plan to participate and will be contributing as well. Ms. Jones added that funds to cover the District's commitment have been approved and anticipated in the 2018 budget. Therefore, Ms. Jones recommended that the Board approve the Interlocal Agreement and the District's cost participation not to exceed \$35,000 for the 3rd round of joint planning.

Following discussion, Director Houston made the motion to authorize the general manager to enter into an interlocal agreement with GMA 14 for governmental functions and services related to the third round of joint planning, with a not to exceed of \$35,000. Motion was seconded by Director Bleyl. The motion passed with Director Melder opposing.

GENERAL MANAGER'S REPORT:

Ms. Jones reported that it had been a busy month. Ms. Jones gave an election update and reminded everyone that places for application on the ballot were open until 6 pm, August 23rd. The public is encouraged to visit the District's website to keep current with board election information.

GENERAL COUNSEL'S REPORT:

Mr. Sledge had nothing further as his report had been given in Executive Session. He made reference to the dichotomy of Mr. Stoecker's earlier comment; that on the one hand Mr. Stoecker was willing to delay the onset of INTERA's work by three or four months but on the

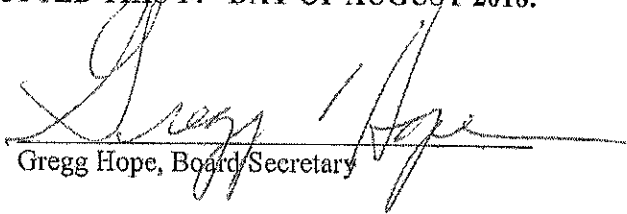
other hand in legislative hearings Mr. Stoecker's attorney argued the urgency to get the DFCs revised.

NEW BUSINESS:

There was no new business.

There being no further business, upon a motion made by Director Wood and seconded by Director Houston, the meeting was adjourned at 10:56 AM.

PASSED, APPROVED, AND ADOPTED THIS 14th DAY OF AUGUST 2018.


Gregg Hope, Board Secretary

CERTIFICATE FOR ORDER

THE STATE OF TEXAS §

COUNTY OF BRAZORIA §


The Board of Directors of the Brazoria County Groundwater Conservation District convened on the 12th day of July, 2018, and the roll was called of the duly constituted Board of Directors, to wit:

Alan Mueller	President
Patrick O'Day	Vice-President
Dennis Davenport	Secretary
Raymond Felder	Assistant Secretary
Ronnie Goolsby	Director

All of said members were present except Director Goolsby, thus constituting a quorum. Among other business, the following action was taken:

Motion by Director Davenport; Seconded by Director Mueller to **APPROVE** the use of peak factors at the proposed 140.87% where deemed appropriate to make the regional planning process consistent with the District's regulations and patterns of permitted and exempt water use for the 5th Cycle of the Regional Water Plan development. Motion approved with all Directors present voting aye.

SIGNED AND SEALED the 12th day of July, 2018.



Alan Mueller, President

MINUTES
MID-EAST TEXAS GROUNDWATER CONSERVATION DISTRICT
DIRECTORS MEETING/PUBLIC HEARING
August 21, 2018, 6:00 PM
Madisonville, Texas

Members present:

John Fryer, President
George Holleman, Vice President
William Parten, Secretary
Elyse Schill, Director
Clark Osborne, Director
John Alford, Director
Jim Nash, Director
Matt Way, Director
Kevin Council, Director

Also present:

David Bailey, General Manager
Greg Ellis, Attorney
Carl Robacker
Jason Afinowicz
Stephanie Bailey
Terri Council
Craig Schill
Mark Collins

The Public Hearing portion of the Mid-East Texas Groundwater Conservation District (GCD) Board/Public Hearing was called to order by President Fryer at 6:00 pm. During this time public comments were provided, either orally or written concerning the proposed Fiscal Year 2018 – 2019 budget and fee rates for the District. No comments were expressed either vocally or in writing. The Public Hearing was then adjourned at 6:02 pm.

The regular meeting of the District Board was then called to order by Pres. Fryer at 6:03 pm.

The minutes of the Directors Meeting held on June 26, 2018 were then reviewed. A motion was made by Dir. Osborne to approve the minutes as written. Motion was seconded by Sec. Parten and the motion passed unanimously.

The floor was open for public comments by Pres. Fryer. No comments were offered.

The next item on the agenda was the consideration and possible action on the proposed 2018 – 2019 fiscal year budget and fee rates for the District. After some discussion a motion was made to approved and adopt the proposed budget as presented as well as the fee rates used to fund said budget. Motion for approval and adoption was made by Dir. Nash and his motion was seconded by Dir. Alford. The motion passed unanimously upon a called vote by Pres. Fryer.

The Board then reviewed a new Water Well Drilling Permit applied for by Flo Community WSC in Leon County. The use of this water well will be for public water supply. The physical location of this well is at the corner of FM 1618 and CR 2761 in Buffalo TX and is proposed to be drilled to a depth of 2,000 feet into the Simsboro layer of the Wilcox aquifer. The anticipated production rate for the well is proposed to be 400 gallons per minute. Production volume for this proposed well will be incorporated into an existing permit with the District. Applicant is not requesting any additional water for permitting, they are just needing increased capacity to satisfy TCEQ requirements. District staff recommends that this drilling permit be approved. Comments

regarding this agenda item were offered by Carl Robacker and Mark Collins. Most of these comments dealt with surface completion and equipment necessary at this site for production. After a period of discussion, a motion was made by Sec. Holleman to approve the Drilling Permit as recommended by staff. This motion was seconded by Sec. Parten and the motion passed unanimously upon a vote called for by Pres. Fryer.

The next item on the agenda was a presentation given by Jason Afinowicz of Freese & Nichols, Inc. regarding the possible need of a Modeled Available Groundwater (MAG) peaking factor for the Sparta aquifer in Madison County. Freese & Nichols is the consulting firm contracted by the Region H Water Planning Group for technical and hydrological services. Mr. Afinowicz provided a handout (see attached) that he used to explain this observed need and how it might be implemented. After his presentation several questions were asked by the Board regarding model accuracy and the effects of applying a peaking factor to the MAG. After a lengthy discussion a motion was made by Dir. Council to approve a MAG Peaking Factor for the Sparta aquifer in Madison County for the current round of Region H regional planning as proposed by Region H Water Planning Group consultants. The motion was seconded by Dir. Way and the motion passed unanimously upon a called vote.

The Board then heard a report from Greg Ellis, attorney for the District regarding an update on an Attorney General's Opinion filed by the District referenced as RQ-0241-KP. Mr. Ellis informed the Board of the status of this opinion as well as his desire to file a brief with the Attorney General questioning changes that were made by Senator Schwertner's office, who carried this opinion request for the District. Verbal approval was given by the Board to pursue this brief to obtain clarification on changes made to the original filing. Any briefs filed will be provided to the District for review.

The next item on the agenda was the consideration and possible action on a Legislative Services Agreement with Gregory M. Ellis, Attorney at Law. This document is to provide legislative services for the District indicating four (4) options for consideration. After a review of these options and after some discussion a motion was made by Sec. Parten to approve Option 2 on this agreement (see attached). This motion was seconded by Dir. Alford. This motion then passed unanimously upon a called vote.

The Board then reviewed a Master Technical Services Agreement with INTERA, Inc. to provide hydrogeologic services for the District. This item was tabled from a previous meeting until more information was obtained. After a review of revisions proposed and partially implemented by INTERA the Board, upon a recommendation by staff and Mr. Ellis, voted to approve this agreement. A motion to that effect was offered by Dir. Osborne with a second to the motion given by Dir. Way. The motion passed unanimously with a called vote by Pres. Fryer.

Manager's Report was then submitted by David Bailey, General Manager of District activities since June 26, 2018. Highlights of the report are listed below:

- Executive Committee meeting in Buffalo on July 23, 2018.
- Participated in a Texas Alliance of Groundwater Conservation District Finance Committee conference call on July 23, 2018.

- Attended the Region H Water Planning Group meeting held in Conroe on August 1, 2018 as a voting member of Groundwater Management Area (GMA) 12.
- Attended the Texas Alliance of Groundwater District business meeting in Austin on May 21, 2018.
- Attendance at the Milam/Burleson County Groundwater Summit in Caldwell on August 15, 2018.
- Attended the Region C WPG meeting held in Arlington on August 20, 2018, 2018 as a voting member for GMA 12.
- Provided the following reports to the Board: Current Investment Report; Drought Report.
- Upcoming events: 7th Annual TAGD Groundwater Summit, San Antonio – 8/28-30/2018; Production fee invoice mailing – 9/7/2018; TAGD Leadership Training, Austin – 10/24/2018.

The Board then reviewed the financial reports and agreed that the reports were in order and that all payments were justified. A listing of the bills approved for payment is attached. The bills and financial records as presented were approved with a motion by Sec. Parten. Motion was seconded by Dir. Council and motion passed unanimously.

The date, time and place of the next meeting were tentatively set for **Tuesday, October 23, 2018 at 6:00 PM in Centerville.**

With no further business, the meeting was adjourned at 7:20 pm.

Minutes approved by the Board of Directors (date) _____

Secretary

President

William Parten

John Fryer

BLUEBONNET GROUNDWATER CONSERVATION DISTRICT

Board of Directors Meeting

Wednesday, September 19, 2018
6:00 PM

Bluebonnet Groundwater Conservation District
Board Room, Suite B & C
303 East Washington Avenue
Navasota, Texas

In attendance:

Directors – Huebner, Vaughn, Kembro, Beckendorff, Muse, Blezinger, Minze, Fairchild, Brown, Hopper, Patout
Staff - General Manager Holland, Office Manager Jensen

Visitors – Dr. Bill Hutchison

AGENDA

1. **Call to order**
There being a quorum present, the Board of Directors Meeting and Public Hearing was called to order by the President at 6:01pm.
2. **Public Comment**
No public comment
3. **Public Hearing on proposed revisions to District Management Plan.**
No public comment. Public hearing closed at 6:03pm
4. **Discussion and possible action to approve revising and readopting the District Management Plan and adopting a resolution approving revising and readopting the District Management Plan.**
Director Muse moved that the Board readopt Management Plan. Director Kembro seconded. **Motion carried.**

****Skip to item # 18 and #19** Presentation by Dr. Bill Hutchison**

18. Discussion and possible action to accept recommended MAG Peaking Factors for District to Region H Regional Water Planning Group.
Director Brown moved that the Board accept MAG Peaking Factors for District to Region H Regional Water Planning Group. Director Vaughn seconded. **Motion carried.**

19. Discussion and possible action to approve recommendations, budget and schedule with groundwater model development.

Director Vaughn moved that the Board approve recommendations, budget and schedule with groundwater model development. Director Muse seconded. **Motion carried**

****Back to agenda item #5****

5. **Discussion and possible action to approve minutes of April 18, 2018 Board Meeting.**
Director Minze moved that the Board approve minutes. Director Kembro seconded. **Motion carried.**
6. **Discussion and possible action to approve amended Board Policies and Investment Policy and adopting a resolution approving the Investment Policy and appointing an Investment Officer.**
Director Brown moved that the Board approve amended Board Policies, et al. Director Muse seconded. **Motion carried.**
7. **Discussion and possible action to approve Resolution Authorizing Participation in the TexPool Investment Pools and Designating Authorized Representatives.**
Director Minze moved that the Board approve Resolution. Director Hopper seconded. **Motion carried.**
8. **Discussion and possible action to approve Groundwater Management Area 14 Interlocal Agreement.**
Director Muse moved that the Board approve GMA 14 Interlocal Agreement. Director Kembro seconded. **Motion carried.**
9. **Discussion and possible action to approve quarterly Financial Report.**
Director Beckendorff moved that the Board approve Quarterly Financial Report. Director Vaughn seconded. **Motion carried.**
10. **Discussion and possible action to approve quarterly Investment Report.**
Director Kembro moved that the Board approve the quarterly Investment Report. Director Huebner seconded. **Motion carried.**
11. **Discussion and possible action to accept quarterly Drought Status Assessment.**
Director Beckendorff moved that the Board accept the quarterly Drought Status Assessment. Director Kembro seconded. **Motion carried.**
12. **Discussion and possible action to approve employment contract for GM Holland.**
Director Vaughn moved that the Board approve the employment contract for GM Holland. Director Muse seconded. **Motion carried.**
13. **Discussion and possible action to approve Amended FY 2018 District Budget.**
Director Minze moved that the Board approve Amended FY 2018 District Budget. Director Muse seconded. **Motion carried.**
14. **Discussion and possible action to approve FY 2019 District Budget.**
Director Hopper moved that the Board approve the FY 2019 District Budget. Director Vaughn seconded. **Motion carried.**

15. Discussion and possible action to approve designations for Money Market Account.

Director Minze moved that the Board approve designations for Money Market Account. Director Beckendorff seconded. **Motion carried.**

16. Discussion and possible action to designate dates and times for FY 2019 Board of Directors Meetings.

No vote.

17. Discussion and possible action to approve membership to the Texas Ground Water Association.

Director Vaughn moved that the Board approve membership to the Texas Ground Water Association. Director Kembro seconded. **Motion carried.**

20. General Managers Report

a. Well Registration/Permitting

b. GMA 14

c. TAGD & TWCA

i. 2018 Texas Groundwater Summit, August 28-30, 2018 at the Hyatt-Hill Country in San Antonio

d. Legislative & Case Law Update

e. Region G & H RWPG

f. Vehicle Summary

g. HYDROS update

21. Date for next Board meeting October 17, 2018.

22. Adjourned at 7:47pm

Agenda items may be considered, discussed and/or acted upon in a different order than the order set forth above.

The Board approved the above minutes of the regular meeting of the Board of Directors of the Bluebonnet Groundwater Conservation District, held on September 19, 2018, on October 17, 2018.

J Jared Patout, President

ATTEST:

David Minze, Vice President



Groundwater Management Area #14

PO. Box 1407, Jasper, Texas 75951
Phone: 409/383-1577 • fax 409/383-0799

October 22, 2018

Member Districts:

Southeast Texas GCD
John M. Martin
Chair

Bluebonnet GCD
Zach Holland
Secretary

Brazoria GCD
Sherry Plentl

Lone Star GCD
Kathy Turner Jones

Lower Trinity GCD
Gary Ashmore

Interlocal Participants:

Harris Galveston Subsidence District
Mike Turco

Fort Bend Subsidence District
Robert Thompson

Chambers County
Pudge Willcox

Washington County
Judge John Brieden

The Honorable Mark Evans, Chair
REGION H WATER PLANNING GROUP
C/O San Jacinto River Authority
P.O. Box 329
Conroe, Texas 77305-0329

RE: MAG Peak Factor recommendations for REGION H

Greetings:

Groundwater Management Area #14 (GMA 14) understands the implementation of MAG peak factors for this 5th cycle of RWP development is intended to bridge the gap between joint planning and regional planning perspectives. In that regard, GMA 14 convened a meeting on September 26, 2018 at which GMA14 district representatives voted to confirm acceptance of Region H's recommended MAG Peak Factor for the Lone Star Groundwater Conservation District, Bluebonnet Groundwater Conservation District, and the Brazoria Groundwater Conservation District.

Minutes of the September 26, 2018 GMA14 joint planning committee meeting documenting the unanimous agreement will be considered for approval at GMA 14's January 30, 2019 meeting. A copy of those minutes will be transmitted to you after their approval to complete administrative requirements. In the interim, attached is a copy of the GMA's September 26th posted agenda with agenda item #15 highlighted as reference to this action taken by the planning committee group.

Should you need additional information, please feel free to contact me at your convenience.

Sincerely,

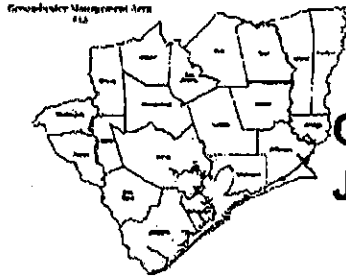
John M. Martin
Chair

KTJ

Attachment

cc: Freese and Nichols

3



DOC# 18-1320
 POSTED
 09/13/2018 12:54PM
 Shelby Curry
 MARK TURNBULL, COUNTY CLERK
 MONTGOMERY COUNTY, TEXAS

**GROUNDWATER MANAGEMENT AREA 14
 JOINT PLANNING COMMITTEE MEETING**

NOTICE OF OPEN MEETING

As required by Section 36.108(e), Texas Water Code, a meeting of the **Groundwater Management Area 14 Joint Planning Committee**, comprised of representatives from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 14—Bluebonnet GCD, Brazoria County GCD, Lone Star GCD, Lower Trinity GCD, and Southeast Texas GCD—will be held on **Wednesday, September 26, 2018, at 10:00 A.M. at the offices of the Lone Star Groundwater Conservation District, located at 655 Conroe Park North, Conroe, Texas 77303.**

At this meeting, the following business may be considered and recommended for Joint Planning Committee possible action:

1. Call to order
2. Welcome and Introductions
3. Public Comment
(Public comment is limited to a maximum of 5 minutes per speaker and/or 30 minutes total for all speakers)
4. Receipt of Posted Notices
5. Discussion and possible action to approve minutes of the July 25, 2018, GMA 14 Joint Planning meetings

Meeting will be convened as a meeting of the GMA 14 Joint Planning Interlocal Agreement Participants.

6. Presentation of information from the Texas Water Development Board and discussions of items of interest to the GMA.
7. Receive update from the Harris Galveston Subsidence District on recent research and subsidence in the Region – Van Kelly (INTERA)

8. **GMA 14 Interlocal Agreements Financial Report**
 - a. Financial Report (HGSD)
 - b. Status report from participants on interlocal participation
9. Discussion, nomination, and possible action designating Chair to serve for the GMA14 Planning Group
10. Discussion, nomination, and possible action designating Secretary to serve for the GMA 14 Planning Group
11. Discussion, nomination, and possible action to designate GMA 14 representative and alternate to Regional Water Planning Groups G, H, & I.
12. Reports - GMA 14 regional water planning group(s) representation.
 - a. Region G – Zach Holland
 - b. Region H – Kathy Turner Jones/Gary Ashmore
 - c. Region I – John Martin
13. Discussion regarding path forward for GMA 14 to accomplish statutory mandates for Round 3 Joint Planning.
14. Presentation and discussion of recent activities of interest or accomplishments impacting the GMA 14 planning group.


GMA 14 Joint Planning Interlocal Agreement Participants meeting will be adjourned.

Meeting will continue as a meeting of the GMA 14 District Representatives only.

15. Discussion and possible action regarding MAG Peak Factor recommendations for Regional Planning Groups H, and/or I.
16. Other business.
17. Discussion of next meeting date, location, and agenda items.
18. Adjourn.

Further information, questions, or comments concerning any aspect of the above meeting(s) should be directed to Kathy Turner Jones, Lone Star Groundwater Conservation District, 655 Conroe Park North Drive, Conroe, TX 77303; kjones@lonestargcd.org, or (936) 494-3436.

Come to hand and posted on a Bulletin Board in the Courthouse, Montgomery County, Texas, on this, the 13 day of September, 2018, at _____M.



Kathy Turner Jones, Chair
GMA 14 Planning Group

_____, Deputy Clerk

_____ County, Texas

GROUNDWATER MANAGEMENT AREA 12 MEETING
October 9, 2018 – 10:00 am
Post Oak Savannah GCD Offices
310 East Avenue C
Milano, Texas

GMA 12 Members Present

Gary Westbrook	POSGCD
Jim Totten	LPGCD
David Van Dresar	FCGCD
David Bailey	METGCD
Alan Day	BVGCD

GMA 12 Members Absent

None

Others Present

	Entity
Elaine Gerren	POSGCD
Bobby Bazan	POSGCD
Doug Box	POSGCD
John Seifert	WSP
Steve Young	Intera
Andy Donnelly	DBS&A
Natalie Ballew	TWDB
Blaire Parker	SAWS
James Bene'	RW Harden
Pat Reilly	Blue Water
Mike Keester	LRE Water, LLC
D.R. Gosnami	R. W. Harden
James Beach	WSP
Steve Box	Environmental Stewardship
Stephen Maldonado	City of College Station
David Dunn	HDR / Brazos G
Nathan Ausley	Self
Shan Rutherford	Terrill & Waldrop
Gary Mechler	City of College Station
Barbara Boulware	The Knight Law Firm
Steve & Dorothy Mayer	Self

Bill Riley
Eddy Young

Major Oak Power

DRAFT

MINUTES

1. Invocation

Invocation was given by David Bailey.

2. Call meeting to order and establish quorum

Gary Westbrook, serving as chair for this meeting, called the meeting to order by at 10:00 a.m. and noted that all voting members of GMA 12 were present.

3. Welcome and introductions

Each District and their voting representative introduced themselves.

4. Minutes of May 11, 2018 GMA 12 Meeting

The minutes of the May 11, 2018 meeting were presented. After brief discussion, a motion was made by Alan Day to approve the minutes. The motion was 2nd by David Van Dresar. The motion passed unanimously.

5. Report from Intera, Inc. on Update on Central Carrizo-Wilcox/Queen City-Sparta Groundwater Availability Model

A presentation was given on this item by Dr. Steve Young of Intera, Inc. entitled "Update to the Carrizo-Wilcox Groundwater Availability Model (GAM)". Dr. Young answered several questions from the audience.

6. Report from GMA 12 consultants regarding comparisons of simulated drawdowns based on the Run 12 well file produced by the previous Central Carrizo-Wilcox City-Sparta Groundwater Availability Model and the updates Central Carrizo-Wilcox/Queen City-Sparta Groundwater Availability Model

Andy Donnelly gave a presentation entitled, "Differences Between the Previous and Updated GAM." He stated that there could be different methods used moving forward to run this new GAM as compared to the previous GAM. A report will be sent to the Texas Water Development Board by month's end. A representative of TWDB noted that TWDB probably will not provide comment, but might request methodology from GMA 12 concerning use of the updated GAM in GMA 12 work. Gary Westbrook reminded that even though the consultants of GMA 12 member Districts would need to discuss use of the updated GAM further, all discussions and decisions will be made in public meetings properly posted and discussed according to the requirements of the Texas Open Meetings Act.

7. Discussion and possible action on the approval of a 1.17 Modeled Available Groundwater Peaking Factor for the Sparta Aquifer in Madison County in response to a proposal from Region H

David Bailey gave a presentation which was given to the Mid- East Texas GCD board by Freese and Nichols entitled, "Consideration of a MAG Peaking Factor for the 2021 Region H Regional Water Plan." Mr. Bailey explained the presentation and stated the METGCD Board had approved the request. A motion was made by David Bailey to approve a 1.17 Modeled Available Groundwater Peaking Factor for the Sparta Aquifer in Madison County in response to a proposal from Region H. The motion was 2nd by Alan Day. The motion carried unanimously.

8. Update from Groundwater Conservation Districts' (GCDs) of GMA 12 on joint planning and compliance with Chapter 36.108, State Water Code

Gary Westbrook provided a summary of the recent work by POSGCD including adoption of a guidance document for methodology in monitoring and DFC Compliance. He further noted the District's Monitoring

Well network was at 200 monitoring wells and he stated based on a report provided at an earlier DFC Committee meeting of the District, Post Oak Savannah GCD is compliant with DFCs and its management plan. Alan Day reviewed the process at the Brazos Valley GCD stating BVGCD was also compliant and was complimentary of POSGCD staff taking input on their compliance document. He also stated BVGCD is awaiting approval from TWDB of the District's recently revised Management Plan. David Van Dresar with the Fayette County GCD stated that FCGCD is also waiting approval of their Management Plan from TWDB. Jim Totten with the Lost Pines GCD stated that they are considering using a Hybrid of the POSGCD shallow management zone restrictions on drawdown for established DFC Compliance. David Bailey noted METGCD is acquiring additional monitoring wells.

9. Discussion on possible common website for GMA 12 to house all information and data

Alan Day provided discussion on possible work from Halff, Inc. to provide a common website committed to storing and making available to the public all monitoring information from each GCD in GMA 12. After discussion, Mr. Day agreed to invite Erin Halff, Inc. to the next GMA 12 meeting for further discussion.

10. Public Comment

Mr. Westbrook invited public comment from all in attendance. No Public Comment was offered.

11. Agenda items and Date for next meeting

All agreed the target a meeting for early January 2019. Also, agenda items for that meeting would include possible common website for GMA 12, discussion of options and methodology for describing and measurement of compliance for DFCs, discussion of options and methodology for running the updated GAM, and any additional items deemed appropriate to GMA 12 at that time.

12. Adjourn

The meeting was adjourned at 11:33 pm.

THE ABOVE MINUTES OF THE MEETING OF GROUNDWATER MANAGEMENT AREA 12 HELD ON OCTOBER 9, WERE APPROVED AND ADOPTED BY GMA 12 ON _____, 2019.

ATTEST:

Mid-East Texas Groundwater Conservation District

Fayette County Groundwater Conservation District

Brazos Valley Groundwater Conservation District

Lost Pines Groundwater Conservation District

Post Oak Savannah Groundwater Conservation District

DRAFT

Agenda Item 9

Receive update from Consultant Team regarding status of investigation of water supply alternatives for the 2021 Region H Regional Water Plan.

Agenda Item 9 Water Supply Investigations

- Primarily initial stages
 - Update and Reallocation to WUGs
 - Comprehensive Cost Updates
 - Expanded Use of Groundwater
 - Aquifer Storage and Recovery
 - Municipal Conservation
- Accelerate after existing supply refinement



Agenda Item 9 Water Supply Investigations

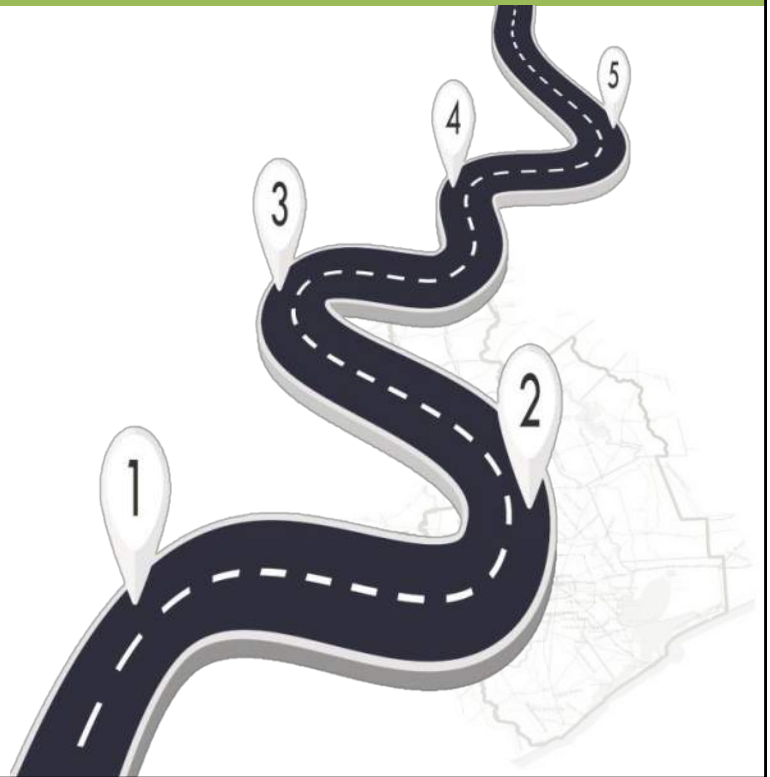
- Development of WMS Planning Database
 - Nearing completion
 - Key to efficient Plan development
- Groundwater Reduction Plans
 - In progress
 - Interrelated with existing supplies
- Irrigation Conservation
 - Similar approach to 2016 RWP
 - ≈93,500 ac-ft
 - Primarily Brazoria, Chambers, Liberty Counties



Agenda Item 9 Water Supply Investigations

Key Steps in the Path

- Finalize existing groundwater availability
- Final Unified Costing Tool
- TWDB Conservation and Drought tools
- Utility WCPs and DCPs



Agenda Item 10

Receive report from Consultant Team and Water Management Strategy Committee regarding potential WMS analyses and consider taking action to approve a notice-to-proceed request and authorizing the Consultant Team and San Jacinto River Authority to submit the request to TWDB, coordinate with TWDB as needed on follow-up information, and execute the subsequent contract amendment issued.

Agenda Item 10 WMS Analyses

- Funded under Phase 2
- \$948,695 for Region H
- Additional steps for release
 - Scope and fee request
 - TWDB approval
- Can make multiple requests
 - Better assess RWP focus
 - Inter-task flexibility
- First request in April 2018



Agenda Item 10 WMS Analyses

Brackish Groundwater and Groundwater Blending

Scope and Budget

- Assess viable areas and entities
- Coordinate with current users regarding expansion
- Update of technical details
- Budget of \$32,300

Key Considerations

- Increased implementation
- Location-specific regulatory framework
- Potential to facilitate other strategies

Agenda Item 10 WMS Analyses

Regional Return Flows

Scope and Budget

- Evaluate source potential for updated WUG definition and new permits
- Assess potential impacts of conservation
- Coordinate with sponsors on implementation concepts
- Budget of \$45,900

Key Considerations

- San Jacinto Basin
- Potential for large supply volume
- Increase with population
- Infrastructure shared with other supplies / WMS

Agenda Item 10 WMS Analyses

WUG-Level Reuse

Scope and Budget

- Coordinate with sponsors on status
- Entities identified in 2016 RWP and existing supply analysis
- Update of technical details
- Budget of \$21,900

Key Considerations

- Viable across region
- Expansions and inclusion in new development
- Primarily direct reuse

Agenda Item 10 WMS Analyses

BRA System Operation Permit

Scope and Budget

- Review permit as granted
- Coordinate with BRA and Brazos G on volume available to Region H
- Identify likely entities
- Update of technical details
- Budget of \$20,200

Key Considerations

- Brazos and San Jacinto-Brazos
- Potential as important supply in lower basin
- Infrastructure and costs shared with other supplies / WMS

Agenda Item 10 WMS Analyses

Interbasin Transfers

Scope and Budget

- Coordinate with sponsors regarding updates to capacity, timeline, and cost
- Refine RWP-level estimates of components and routing.
- Budget of \$60,600

Key Considerations

- Potential for large supply
- Facilitate other WMS and projects
- Extensive infrastructure required
- Interregional coordination

Agenda Item 10 WMS Analyses

Northeast Water Purification Plant Expansion

Scope and Budget

- Coordinate with COH on project development
- Identify expected changes to capacity, timeline, cost, and other technical details
- Budget of \$36,900

Key Considerations

- Large volume project
- Multi-phase
- Key to implementation of other WMS and projects

Agenda Item 10 WMS Analyses

Other Facility and Storage Projects

Scope and Budget


- Coordinate with sponsors regarding status of projects
- Update of technical details including yield, cost, and other project-specific factors
- Budget of \$130,300

Key Considerations

- Multiple WMS across region
- Includes Allens Creek, Dow storage, CLCND West Chambers, seawater desal., and other facility projects

Agenda Item 10 WMS Analyses


Task	Cost
Brackish Groundwater and Groundwater Blending	\$32,300
Regional Return Flows	\$45,900
WUG-Level Reuse	\$21,900
BRA System Operation Permit	\$20,200
Interbasin Transfers	\$60,600
Northeast Water Purification Plant Expansion	\$36,900
Other Facility and Storage Projects	\$130,300
TOTAL	\$348,100
REMAINING UNASSIGNED	\$118,395



Agenda Item 10 WMS Analyses

Action:

Approve the notice-to-proceed request and authorize the Consultant Team and San Jacinto River Authority to:

1. Submit the request to TWDB.
 2. Coordinate with TWDB as needed on follow-up information.
 3. Execute the subsequent contract amendment issued.
- 

ASR	Conservation/Drought Management	Groundwater Desal	Groundwater Dvp	Reuse	New Major Reservoir	Other Surface Water	Seawater Desal	Conjunctive Use	Other WMS (Subordination, etc)	Region	Overall TWDB Task Number	SubTask WMS evaluation number	SubTask WMS	SubTask Scope of Work Write-up	Deliverable	SubTask Budget (\$)	WUG(s) &/OR WWP Entities Potentially Served by WMS(s)	Addressing a changed condition from previous cycle? If yes, describe the changed condition.	When was this WMS identified by RWP/PG as potentially feasible?	Was the WMS evaluated in any previous Regional Water Planning Cycles?	Is evaluation a limited update to previous technical evaluation? If no, indicate specific update in subtask sow column E
		X								H	5A	05.4	Brackish Groundwater and Groundwater Blending	Identify areas within Region H where water from two different aquifers could be blended to obtain a combined supply not requiring advanced treatment. Assess viable areas in the context of current regulatory structures to identify areas or entities that could benefit from blended groundwater sources. Coordinate with current users of brackish water regarding potential future expansions of brackish groundwater capacity. Update technical details, yields, costs, and other appropriate factors as applicable.	Technical memorandum describing strategy and summarizing as applicable supply sources and quantities, sponsors and users, facility locations, implementation schedule, cost, issues and considerations regarding implementation, and relevant references.	\$ 32,300	Multiple potential WMPs and WUGs in Region H in proximity to brackish groundwater	Yes - increased development of brackish groundwater supplies in the Region	Was a recommended WMS in 2016 Regional Water Plan	Yes - 4th planning cycle	No
				X						H	5A	06.1	Regional Return Flows	Evaluate potential source availability with consideration for updated demand distribution, utility-based WUG boundaries, and existing and pending reuse authorizations. Incorporate conservation WMS data from the 2016 RWP to assess potential impacts to source availability. Coordinate with strategy sponsors regarding implementation concepts. Update technical details, yields, costs, and other appropriate factors as applicable.	Technical memorandum describing strategy and summarizing as applicable supply sources and quantities, sponsors and users, facility locations, implementation schedule, cost, issues and considerations regarding implementation, and relevant references.	\$ 45,900	WMPs and WUGs in the San Jacinto River Basin	No	Yes - 4th planning cycle	Yes	
				X						H	5A	06.2	WUG-Level Reuse	Coordinate with strategy sponsors regarding the status of the project. Update technical details, yields, costs, and other appropriate factors as applicable. Strategies include potential WUG-level reuse projects for sponsors identified in the 2016 RWP, potential expansion of current reuse facilities, and wastewater reclamation for municipal irrigation.	Technical memorandum describing strategy and summarizing as applicable supply sources and quantities, sponsors and users, facility locations, implementation schedule, cost, issues and considerations regarding implementation, and relevant references.	\$ 21,900	Multiple potential WUGs in Region H	Varies by project	Yes - 1st, 2nd, 3rd, and 4th planning cycles	Yes	
						X				H	5A	07.1	BRA System Operation Permit	Review water right language for BRA System Operation Permit as well as technical information regarding implementation from 2016 RWPs for Regions H and G. Coordinate with the Brazos River Authority and Brazos G Water Planning Group regarding anticipated supply volumes potentially available to Region H. Identify likely entities to benefit from the project. Update technical details, yields, costs, and other appropriate factors as applicable.	Technical memorandum describing strategy and summarizing as applicable supply sources and quantities, sponsors and users, facility locations, implementation schedule, cost, issues and considerations regarding implementation, and relevant references.	\$ 20,200	WUGs and WMPs in the Brazos and adjoining coastal basins	Yes - Continued evolution of permit development	Yes - 2nd, 3rd, and 4th planning cycles	No	

ASR	Conservation/Drought Management	Groundwater Desal	Groundwater Dvp	Reuse	New Major Reservoir	Other Surface Water	Seawater Desal	Conjunctive Use	Other WMS (Subordination, etc)	Region	Overall TWDB Task Number	SubTask WMS evaluation number	SubTask WMS	SubTask Scope of Work Write-up	Deliverable	SubTask Budget (\$)	WUG(s) &/OR WWTP Entities Potentially Served by WMS(s)	Addressing a changed condition from previous cycle? If yes, describe the changed condition.	When was this WMS identified by RWPG as potentially feasible?	Was the WMS evaluated in any previous Regional Water Planning Cycles?	Is evaluation a limited update to previous technical evaluation? If no, indicate specific update in subtask sow column E
						X				H	5A	07.2	Interbasin Transfers	Examine available literature regarding potential inter-basin transfers to supply users in Region H, including strategies considered or recommended in prior RWPGs. Coordinate with sponsors regarding the status of projects and sponsor analyses, including expected changes to project capacity, implementation timeline, and costs. Where applicable, refine RWP-level estimates of infrastructure components and potential transfer routing. Update technical details, yields, costs, and other appropriate factors as applicable.	Technical memorandum describing strategy and summarizing as applicable supply sources and quantities, sponsors and users, facility locations, implementation schedule, cost, issues and considerations regarding implementation, and relevant references.	\$ 60,600	Multiple potential WWTPs and WUGs in Region H	Yes - Changes in supply reservations among basins	Considered or recommended in 2001, 2006, 2011, and 2016 Regional Water Plans	Yes - 1st, 2nd, 3rd, and 4th planning cycles	No
								X		H	5A	08.1	Northeast Water Purification Plant Expansion	Coordinate with the City of Houston regarding the status of project development and identify any expected changes to project capacity, implementation timeline, and costs. Update technical details, yields, costs, and other appropriate factors as applicable.	Technical memorandum describing strategy and summarizing as applicable supply sources and quantities, sponsors and users, facility locations, implementation schedule, cost, issues and considerations regarding implementation, and relevant references.	\$ 36,900	WWTPs and WUGs receiving supply from the NEWPP	No	Was a recommended WMS in 2011 and 2016 Regional Water Plans	Yes - 3rd and 4th planning cycles	Yes
								X		H	5A	08.2	Other Facility and Storage Projects	Coordinate with identified or potential sponsors regarding the status of projects. Update technical details, yields, costs, and other appropriate factors as applicable. Strategies include Allens Creek Reservoir, Dow storage expansion, CLCND West Chambers System, seawater desalination, and other treatment, transmission, and storage projects.	Technical memoranda describing strategy and summarizing as applicable supply sources and quantities, sponsors and users, facility locations, implementation schedule, cost, issues and considerations regarding implementation, and relevant references.	\$ 130,300	Multiple	Varies by project	Various infrastructure and storage concepts in prior Regional Water Plans	Yes - 2nd, 3rd, and 4th planning cycles	Yes
REGION-SPECIFIC SUBTASKS TOTAL BUDGET																\$ 348,100					

Agenda Item 11

Discuss the 86th Regular Session of the Texas Legislature
and Approve the Region H Water Planning Group Legislative
Committee.

Agenda Item 11 Legislative Session



- 86th Texas Legislature
- Begins January 8, 2019
- Concludes May 27, 2019
- Prior sessions have impacted RWP/SWP process



Agenda Item 11 Legislative Session

Action:

Approve the Region H Water Planning Group Legislative Committee.



Agenda Item 13

Agency communications and general information.

Texas Water Development Board

P.O. Box 13231, 1700 N. Congress Ave.
Austin, TX 78711-3231, www.twdb.texas.gov
Phone (512) 463-7847, Fax (512) 475-2053

Mr. Jace Houston
General Manager
San Jacinto River Authority
P.O. Box 329
Conroe, TX 77305

RE: Regional Water Planning Contract with the San Jacinto River Authority; Contract No. 1548301836, Technical Memorandum

Dear Mr. Houston:

Staff members of the Texas Water Development Board (TWDB) have completed their review of the Technical Memorandum under the above referenced contract and found the deliverable to be administratively complete.

The TWDB recognizes that estimates and assignment of water supply and need volumes remain dynamic throughout the planning cycle and may change after receipt of the Technical Memorandum. All state water plan database (DB22) data entry should be completed and data checks and any associated appeals resolved by the submittal of the Initially Prepared Regional Water Plan.

The TWDB acknowledges Region H's declaration in its Technical Memorandum not to pursue simplified planning.

Additionally, as Region H continues to allocate water source availability and begins evaluations of potentially feasible water management strategies, we encourage you to coordinate with your neighboring regions to proactively identify and work cooperatively to avoid potential interregional conflicts.

If you have any questions, please feel free to contact Lann Bookout of our Regional Water Planning staff at 512-936-9439 or via email at lann.bookout@twdb.texas.gov.

Sincerely,



Jessica Zuba
Deputy Executive Administrator

Date: 10-2-18

cc: Mark Evans, RWPG Chair
Philip Taucer, Freese and Nichols, Inc.
Lann Bookout, TWDB

Our Mission

To provide leadership, information, education, and support for planning, financial assistance, and outreach for the conservation and responsible development of water for Texas

Board Members

Peter M. Lake, Chairman | Kathleen Jackson, Board Member | Brooke T. Paup, Board Member
Jeff Walker, Executive Administrator

TO: Board Members

THROUGH: Jeff Walker, Executive Administrator
David Carter, Director, Support Services and Contracts
Jessica Zuba, Deputy Executive Administrator, Water Supply & Infrastructure

FROM: Temple McKinnon, Director, Water Use, Projections & Planning

DATE: August 23, 2018

SUBJECT: Facilitation Contract for Uniform Standards Stakeholder Committee Prioritization Process

ACTION REQUESTED

Consider authorizing a transfer of funds in an amount not to exceed \$15,000, from the Water Assistance Fund to the Research and Planning Fund, to contract for facilitation services to assist the stakeholders committee of regional water planning group chairs review and/or modify the uniform standards for project prioritization for the 2021 regional water plans.

BACKGROUND

House Bill 4 (83rd Legislature) established a project prioritization process to be conducted by the regional water planning groups. As part of this process, Texas Water Code § 15.436 required the Texas Water Development Board (TWDB) to create a stakeholders committee (Committee) composed of regional water planning groups chairs or their designees to establish uniform standards to be used by the regional water planning groups in prioritizing projects in their regional plans. These project prioritizations are one of the criteria utilized by TWDB for prioritizing State Water Implementation Fund for Texas projects. Additionally, the TWDB is required to consult the Committee from time to time regarding regional prioritization of projects.

Uniform standards for project prioritization were initially developed by the Committee, through a facilitated effort, in November 2013 and were approved by the Board at their December 5, 2013 meeting. These standards were applied to projects in the 2011 regional water plans by the regional water planning groups and final project prioritizations were submitted to the TWDB on September 1, 2014. The Committee reconvened through a facilitated effort on January 13, 2015 to review the uniform standards prior to the

Our Mission : **Board Members**

To provide leadership, information, education, and support for planning, financial assistance, and outreach for the conservation and responsible development of water for Texas : Peter M. Lake, Chairman | Kathleen Jackson, Board Member | Brooke T. Paup, Board Member
: Jeff Walker, Executive Administrator

prioritization of projects in the 2016 regional water plans. The Committee voted to make no changes to the uniform standards and project prioritizations were submitted along with the 2016 regional water plans by December 1, 2015.

The TWDB has recommended to the Committee that they reconvene at least once per planning cycle to review the uniform standards that have been adopted. At a May 2018 conference call with regional water planning group chairs, it was requested that the TWDB schedule a meeting of the Committee the last week of November 2018. To support the Committee's review of the uniform standards for project prioritization of the 2021 regional water plans, the Executive Administrator is recommending to again contract with a facilitator to assist in the Committee's work effort. To execute this contract, funds must be transferred from the Water Assistance Fund to the Research and Planning Fund.

KEY ISSUES

The total amount of the facilitation contract is an amount up to and not to exceed \$15,000.

RECOMMENDATION

The Executive Administrator recommends approving transfer of funds from the Water Assistance Fund to the Research and Planning Fund to support the facilitation of the Uniform Standards Stakeholder Committee.

Agenda Item 14

Receive presentation from Galveston Bay Foundation regarding the 2018 Galveston Bay Report Card.

ABOUT THE REPORT CARD: www.GalvBayGrade.org

The screenshot displays the website's header with the title "GALVESTON BAY REPORT CARD" and the HARC logo. A navigation menu includes "OVERVIEW", "FIND YOUR WATERSHED", "SEE THE GRADES", "WHAT YOU CAN DO", "COVER STORIES", and "CONTACT US". The main content area features a banner for "THE 2016 GALVESTON BAY REPORT CARD – WHAT'S NEW THIS YEAR?". Below this, there are sections for "THE 2016 GALVESTON BAY REPORT CARD – WHAT'S NEW THIS YEAR?", "COVER STORIES", "WHAT'S THE DEAL WITH FLESH-EATING BACTERIA IN GALVESTON BAY?", "REPORT CARD TOOLS", and "WETLANDS AS A WATER STRATEGY". A prominent "FIND YOUR WATERSHED" button is overlaid on a map, with the text "VISIT GALVBAYGRADE.ORG TO LEARN MORE". The map shows various bays and rivers, including Cedar Bayou, San Jacinto River, Houston Ship Channel, and others. At the bottom of the screenshot, a partial headline reads: "BODY OF WATER WITH A FREE CONNECTION WITH THE OPEN SEA – AND IT STARTS IN YOUR".

The photograph shows a large group of sandhill cranes standing in a shallow, grassy wetland area. In the foreground, there is a green overlay with a legend for the report card grades. The legend consists of six circular icons, each containing a letter and a corresponding description below it:

- A** EXCELLENT
- B** GOOD
- C** ADEQUATE FOR NOW
- D** REQUIRES ACTION
- F** CRITICAL
- I** INSUFFICIENT DATA

COASTAL CHANGE C



INDICATORS	
Freshwater Inflows	C
Sea Level Rise	F
Winter Water Temperature	A
Water PH	A

What Can You Do?

Our Actions Impact Coastal Resilience
 • Help to conserve water by watering your lawn an hour once a week.

WILDLIFE D



INDICATORS	Galveston Bay	Rivers & Bayous
Shellfish	D	
Fish	C	
Birds	C	
Invasive Species	B	D

What Can You Do?

Take Care of Animals, Land and Sea
 • If you don't know it, don't grow it, or throw it! Plant native plants and never release unwanted pets into local habitats and waterways.

WATER QUALITY A



INDICATORS	Galveston Bay	Rivers & Bayous
Nitrogen	A	A
Phosphorous	A	B
Dissolved Oxygen	A	A

What Can You Do?

A Little Goes A Long Way
 • Apply lawn fertilizers sparingly, if at all, and avoid overuse near bodies of water.

POLLUTION EVENTS & SOURCES C



INDICATORS	Galveston Bay	Houston Ship Channel	Total No. of Spills	Total Volume of Spill
Toxic Metals in Sediment	A	B		
Organic Toxins in Sediment	I	B		
Diakon in Sediment	I	D		
Oil Spills	I		B	A
Litter & Trash	I	I		

What Can You Do?

Prevent Pollution in Your Area
 • Reduce trash by decreasing daily use of plastic bottles, plastic bags, and straws.

HABITAT D



INDICATORS	
Saltwater Wetlands	I
Freshwater Wetlands	I
Underwater Grasses	C
Oyster Reefs	I

What Can You Do?

Save the Land We Love
 • Volunteer to restore habitat around the Bay or conserve land by donating to a land trust or conservation easement.

HUMAN HEALTH RISKS C



INDICATORS	Galveston Bay	Rivers & Bayous
Seafood Consumption Safety	C	D
Recreation Safety	A	B

What Can You Do?

Protect Family, Friends, and Yourself
 • Properly dispose pet waste in the trash.

2018 GALVESTON BAY @ REPORT CARD

#GalvBayGrade18

www.galvbaygrade.org

LIVE, WORK, OR PLAY BY GALVESTON BAY?

Help us reach a straight "A" Bay:

- **Visit** galvbaygrade.org
- **Request** a presentation from Report Card Coordinator T'Noya Thompson. Email tthompson@galvbay.org

www.galvbay.org

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GALVESTON BAY STARTS IN OUR BACKYARD.



