

REGION H
Water Planning Group

BRAZOS ALLUVIUM COMMITTEE
MEETING MATERIALS

July 14, 2023

Common Region H Terms and Conversion Factors

List of Abbreviations

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
GPCD	Gallons Per Capita Per Day
GRP	Groundwater Reduction Plan
IFR	Infrastructure Finance Report
IPP	Initially Prepared Plan
MAG	Modeled Available Groundwater
MPC	Master Planned Community
MUD	Municipal Utility District
MWP	Major Water Provider
PDSI	Palmer Drought Severity Index
PWS	Public Water Supply
RFIG	Regional Flood Planning Group
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
UCM	Unified Costing Model
URS	Unique Reservoir Site
USS	Unique Stream Segment
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 = 1,120 ac-ft/yr

**Region H Water Planning Group
Brazos Alluvium Committee
10:00 AM Friday
July 14, 2023
Freese and Nichols Houston Office
10497 Town and Country Way, Suite 500, Houston, TX 77024**

AGENDA

1. Call to order.
2. Introductions.
3. **Receive public comments on specific issues related to agenda items 4 through 8.** (Public comments limited to 3 minutes per speaker)
4. Review the purpose and role of the Committee.
5. Review and discuss the results of recent analysis of the Brazos Alluvium.
6. Receive and discuss an updated presentation regarding the Brazos Alluvium and consider recommendations for presenting to the Brazos G Regional Water Planning Group on behalf of the Committee.
7. Discuss other comments or issues related to the Brazos Alluvium and consider making recommendations to the Region H Water Planning Group (RHWPG) regarding the alluvium in the 2026 Regional Water Planning cycle.
8. Discuss options for future Committee meetings.
9. **Receive public comments.** (Public comments limited to 3 minutes per speaker)
10. Adjourn.

Persons with disabilities who plan to attend this meeting and would like to request auxiliary aids or services are requested to contact Philip Taucer at (713) 600-6835 at least three business days prior to the meeting so that appropriate arrangements can be made.

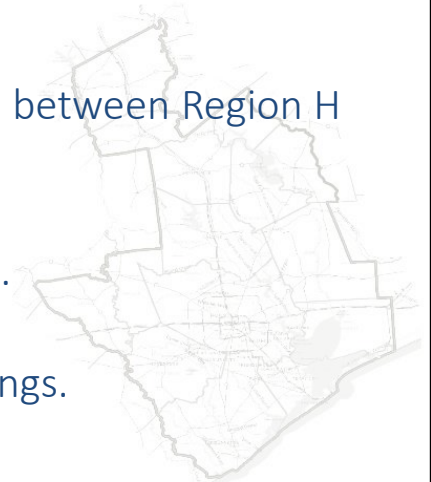
Agenda Item 4

Review the purpose and role of the Committee.

Agenda Item 4

Committee Purpose

- Coordinate, for planning purposes, with the Region G Planning Group on the Brazos Alluvium.
- Facilitate effective communication on this issue between Region H and G RWPGs during the 2026 cycle.
- Report to the Region H Chair when appropriate.
- Report to the Region H RWPG at regular meetings.



Agenda Item 6

Receive and discuss an updated presentation regarding the Brazos Alluvium and consider recommendations for presenting to the Brazos G Regional Water Planning Group on behalf of the Committee.

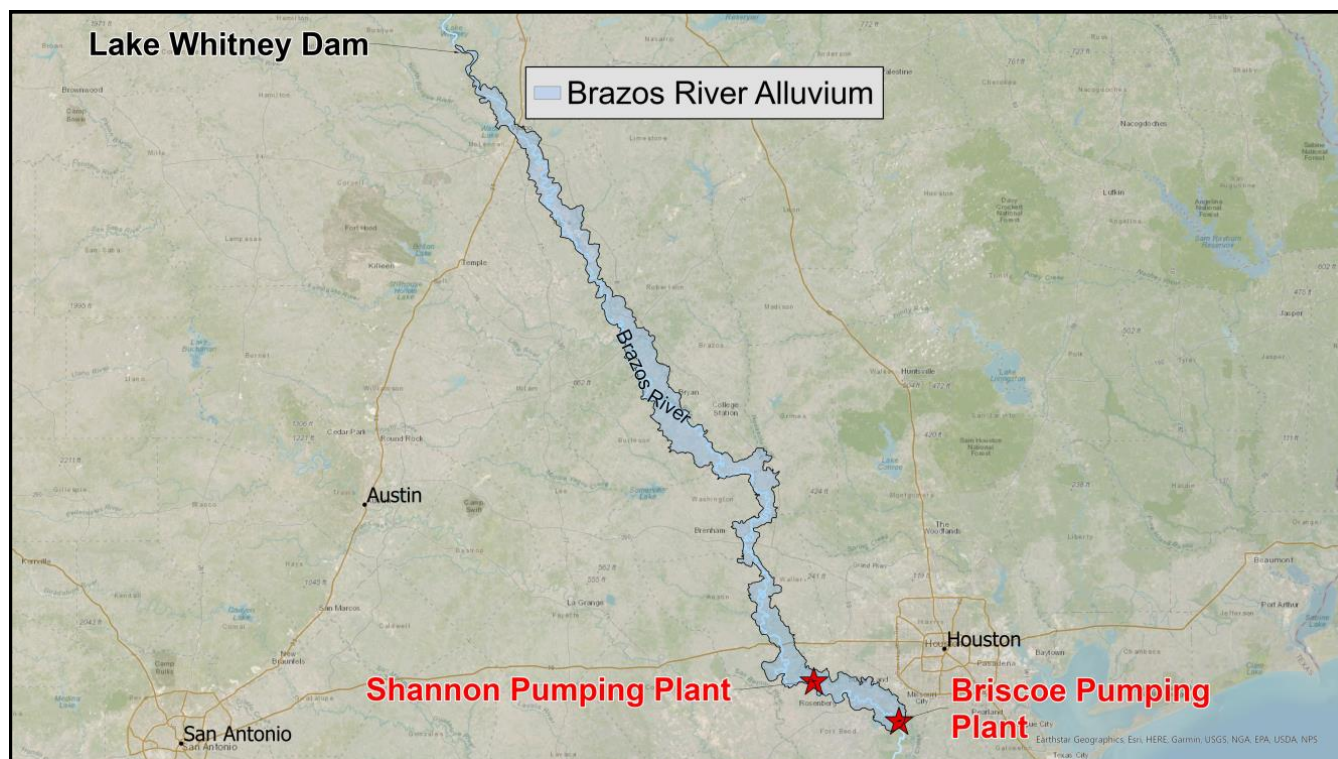
The Brazos Alluvium Aquifer

July 27, 2023

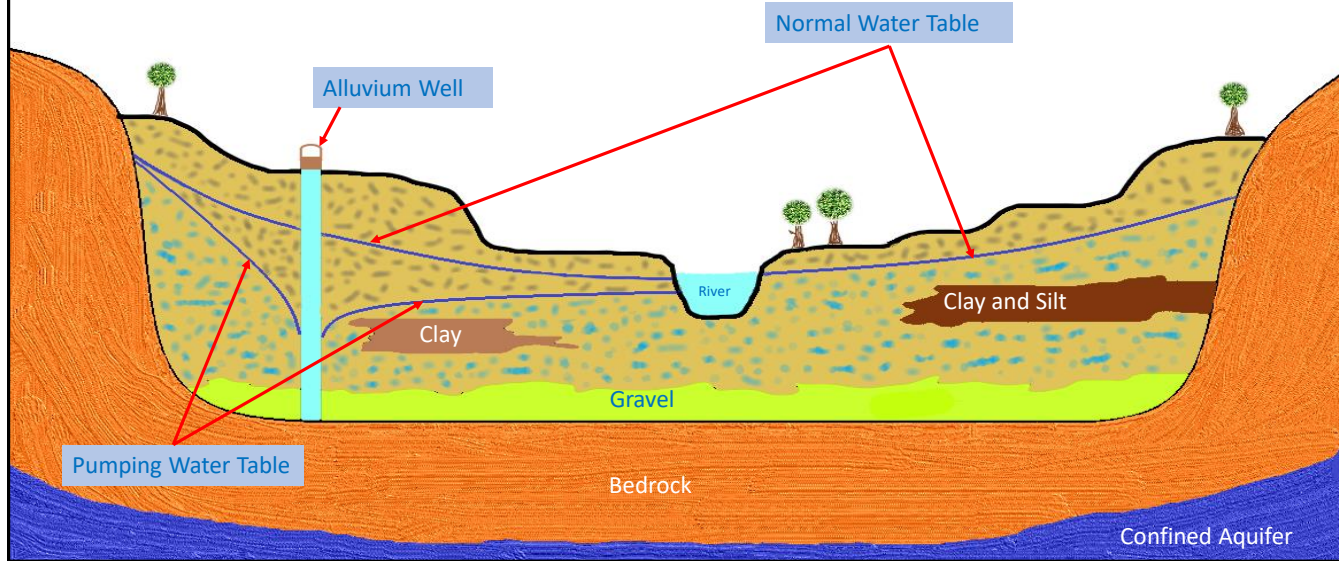
PRESENTER:

Jake Hollingsworth

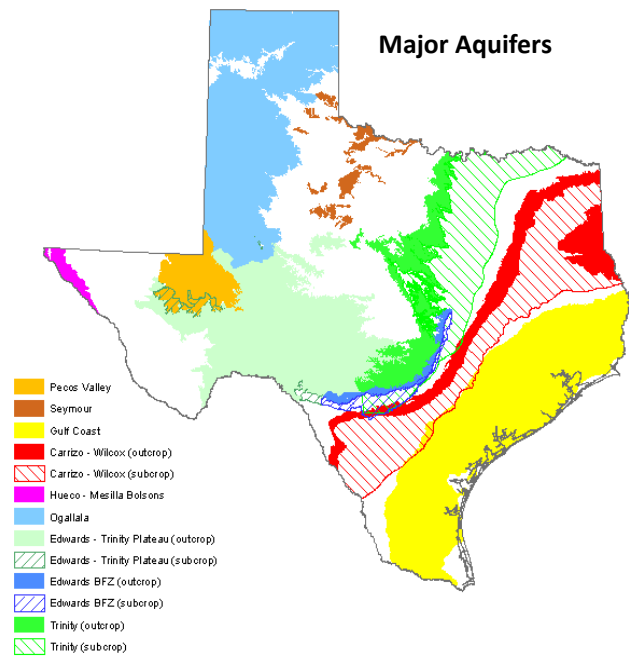
Gulf Coast Water Authority
Assistant General Manager



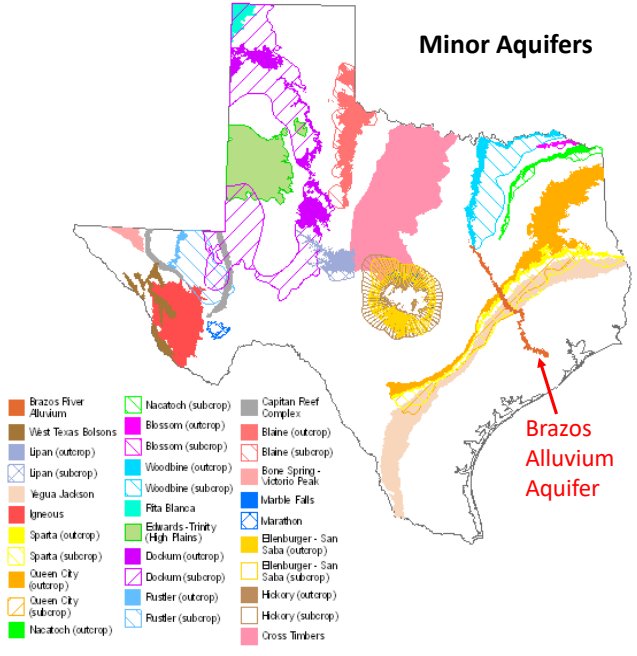
Brazos Alluvium



Major Aquifers

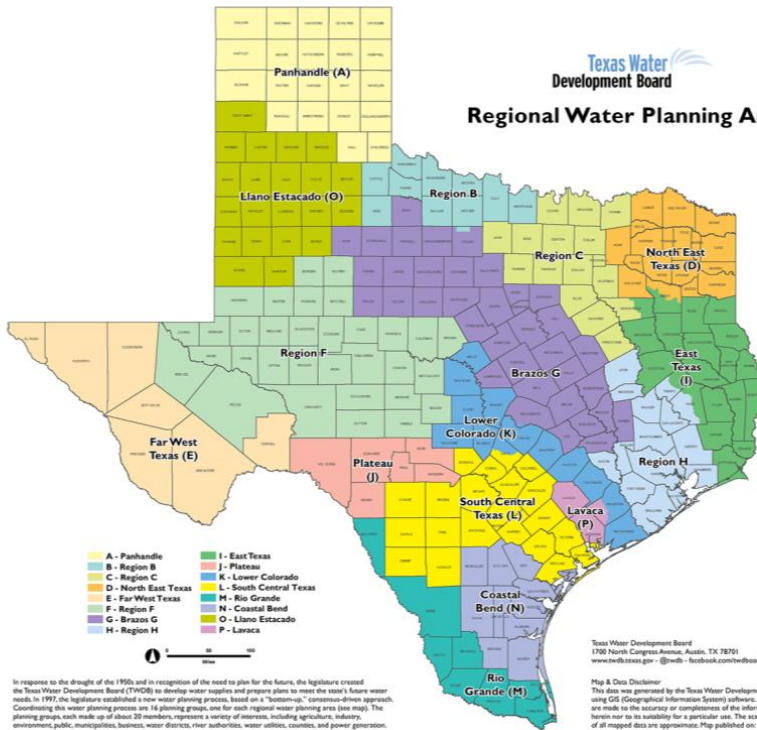


Minor Aquifers

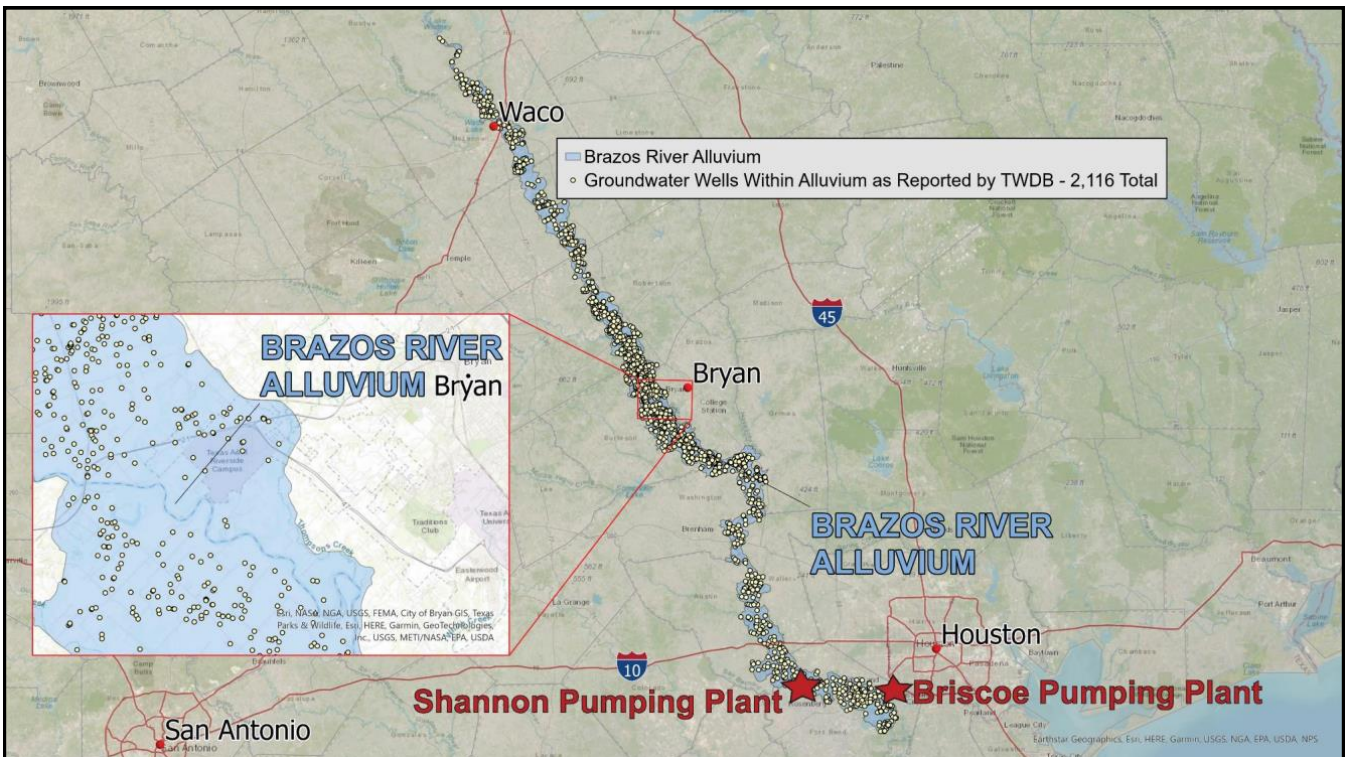


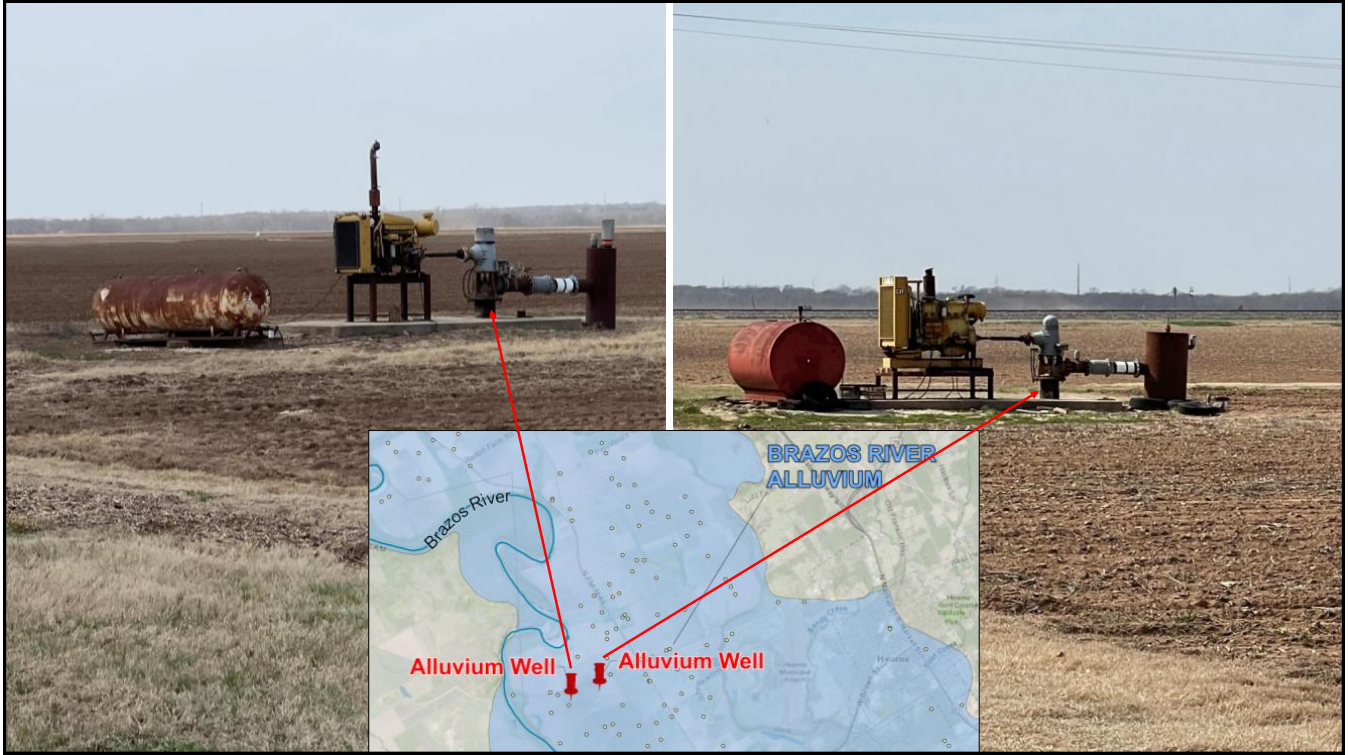
Texas Water Development Board
Regional Water Planning Areas

TWDB Regional Water Planning



TNRIS





The Brazos River
2020



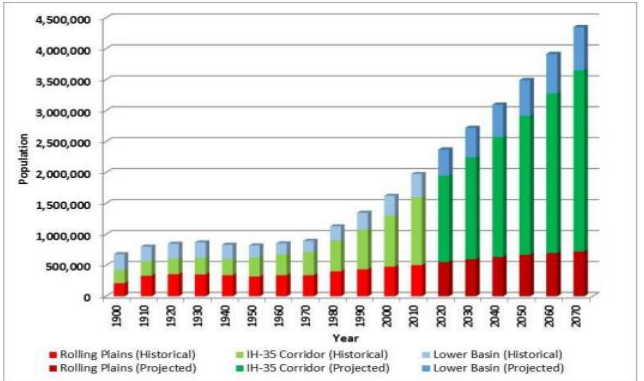
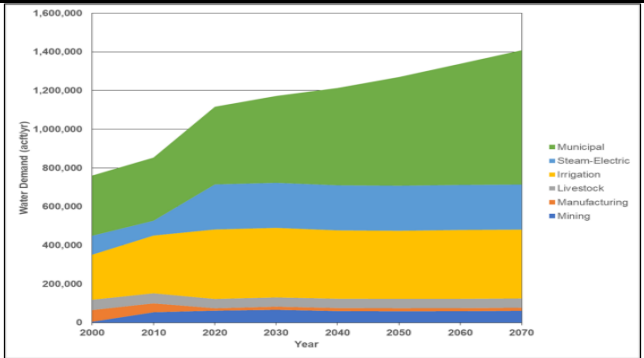
Region G Growth Stats

Total Use by Source	1980	2017
Groundwater	270,270	432,527
Surface Water	274,999	445,650
Region Total	545,269	878,177

Aquifer Use	1980	2017
Brazos Alluvium	29,426	133,065

Population	2020	2070
Region G	2,371,064	4,351,042

Data & Chart Source:
2021 Brazos G Regional Water Plan



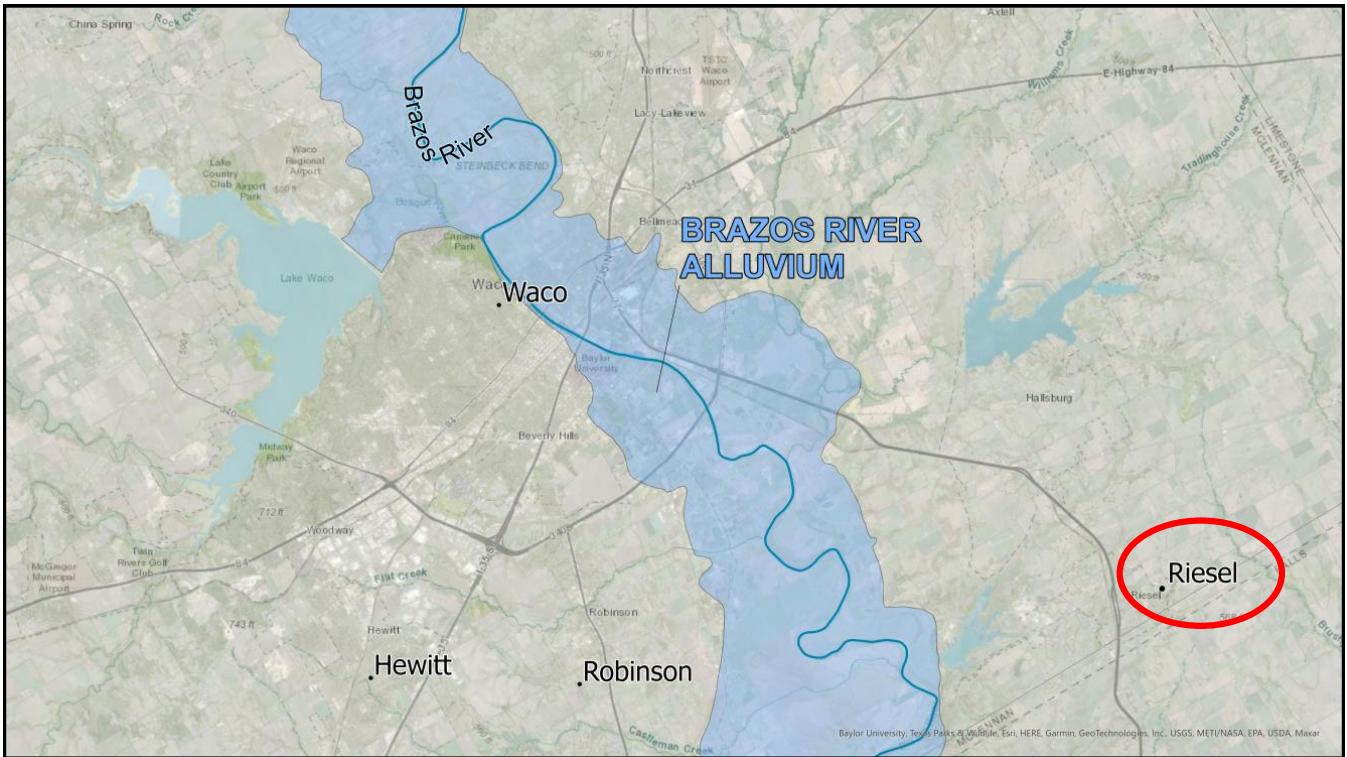
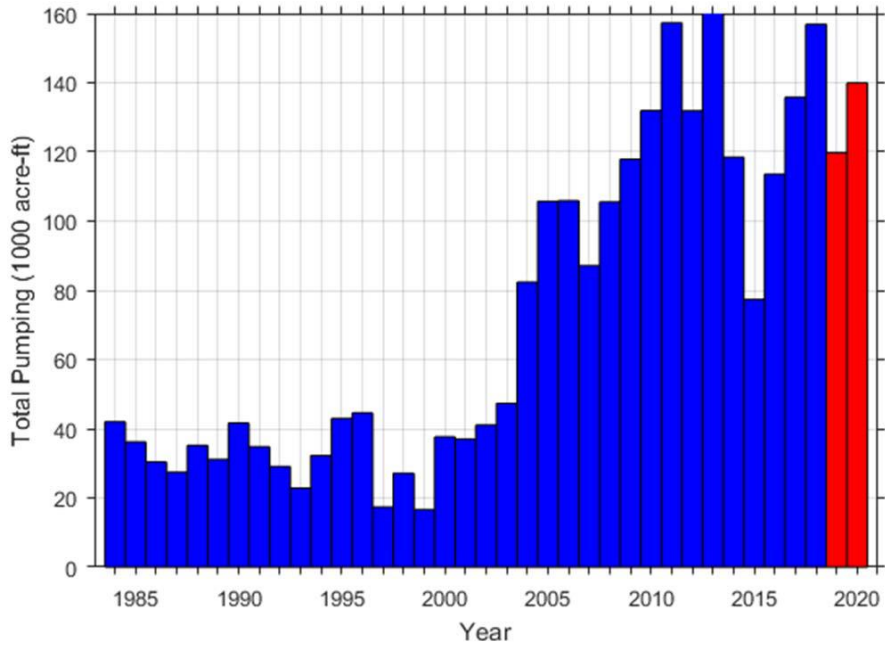
2022 Modeled Available Groundwater – Brazos Alluvium

GAM Run 21-017 MAG: Modeled Available Groundwater for the Aquifers in Groundwater Management Area 12
November 1, 2022
Page 22 of 62

TABLE 11 MODELED AVAILABLE GROUNDWATER FOR BRAZOS RIVER ALLUVIUM AQUIFER IN GROUNDWATER MANAGEMENT AREA 12 SUMMARIZED BY COUNTY FOR EACH DECADE BETWEEN 2020 AND 2070. VALUES ARE IN ACRE-FEET PER YEAR. GCD = GROUNDWATER CONSERVATION DISTRICT.

GCD	County	Aquifer	2020	2030	2040	2050	2060	2070
Brazos Valley GCD	Brazos	Brazos River Alluvium	77,816	76,978	76,393	76,195	76,100	76,039
	Robertson	Brazos River Alluvium	55,907	55,424	55,157	54,839	54,723	54,618
Post Oak Savannah GCD	Burleson	Brazos River Alluvium	32,222	32,207	32,207	32,206	32,206	32,206
	Milam	Brazos River Alluvium	31,412	31,375	31,366	31,362	31,359	31,358
Total			197,357	195,984	195,123	194,602	194,388	194,221

Total Alluvium Pumping by Year



NOTICE OF OPEN MEETING

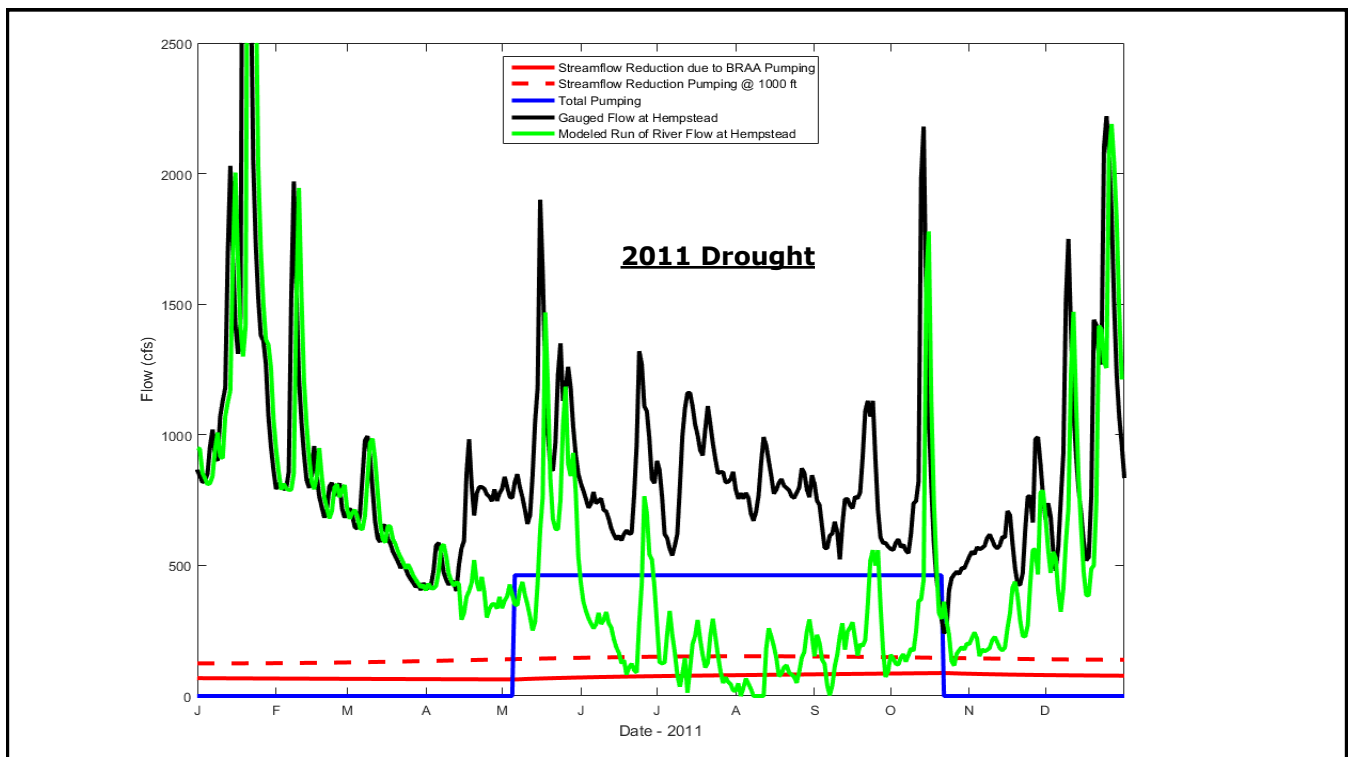
BRAZOS G REGIONAL WATER PLANNING GROUP

Virtual Meeting

10:00 a.m. – October 28, 2020

AGENDA

1. CALL MEETING TO ORDER
2. INVOCATION
3. NOTICE OF MEETING
4. ATTENDANCE AND ANNOUNCEMENTS
5. PUBLIC INPUT - Public questions and comments on agenda items or water planning issues
(limited to 5 minutes each)
6. PROGRAM
 - 6.1. Report and possible discussion on report from Texas Water Development Board (TWDB) staff.
 - 6.2. Discussion and possible action to support a Waiver of Consistency for the City of Riesel Arsenic Reduction Project.
 - 6.3. Discussion and possible action to consider requests from various entities to participate in Flood Infrastructure Fund Category 1 Watershed Studies.
 - 6.4. Discussion and possible action adopting the final 2021 Brazos G Regional Water Plan, pending textual changes necessary to address comments received and authorizing BRA and HDR to submit the final plan to TWDB when ready, but no later than November 5, 2020.
 - 6.5. Report and possible discussion on updates from other regional water planning groups (Regions B, C, F, H, K, L & O).
 - 6.6. Report and possible discussion on Groundwater Management Area (GMA) activities.

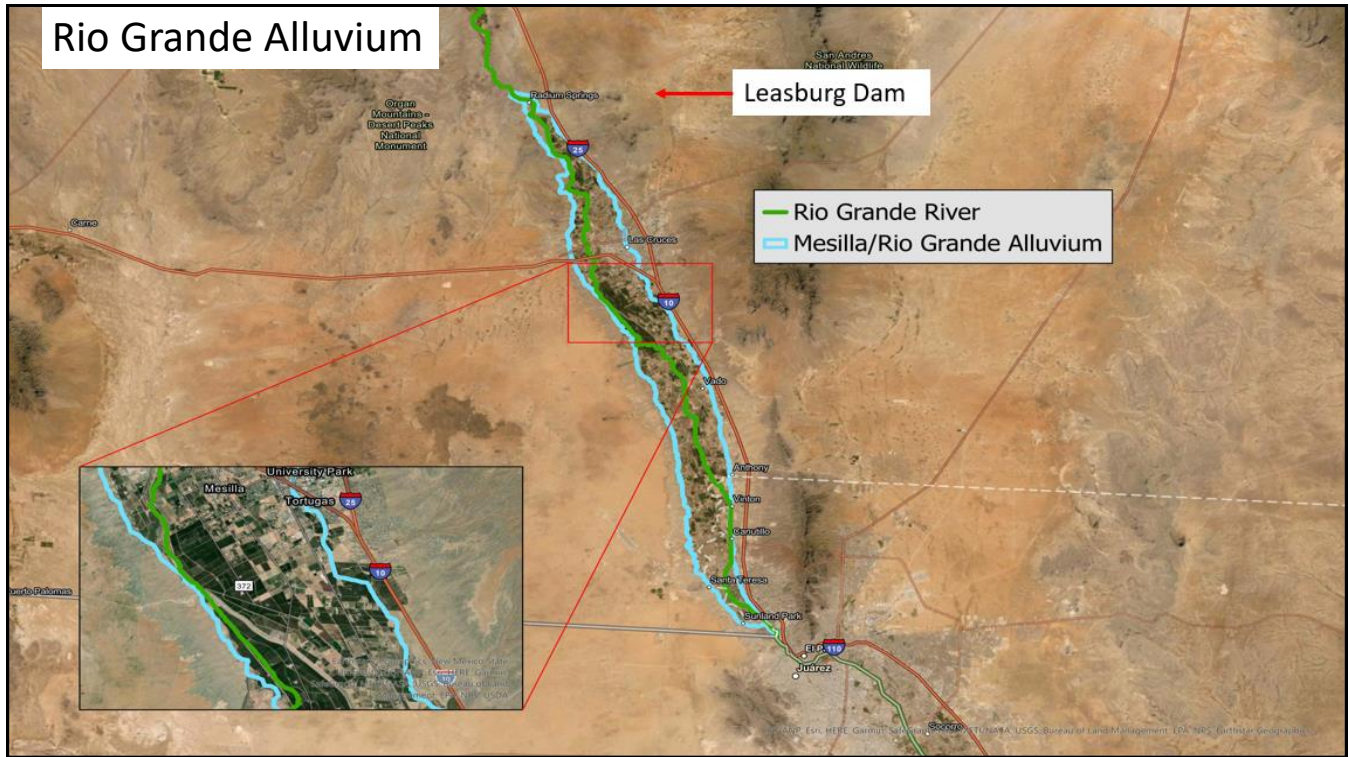




Rio Grande at Low Flow Conditions in El Paso



The Brazos River 2009



Conjunctive Management of Surface Water and Groundwater Resources

**ESSENTIALS OF
TEXAS
WATER
RESOURCES**

MARY K. SAHS
EDITOR

SIXTH EDITION

Considerations

- Region G create a Brazos Alluvium Committee to partner with the Region H Brazos Alluvium Committee
- Continue to minimize the availability of Brazos Alluvium Aquifer in the Regional Planning Process
- Support:
 - ❖ Allens Creek
 - ❖ Desalination
 - ❖ Reuse

The Brazos Alluvium Aquifer

July 27, 2023

PRESENTER:

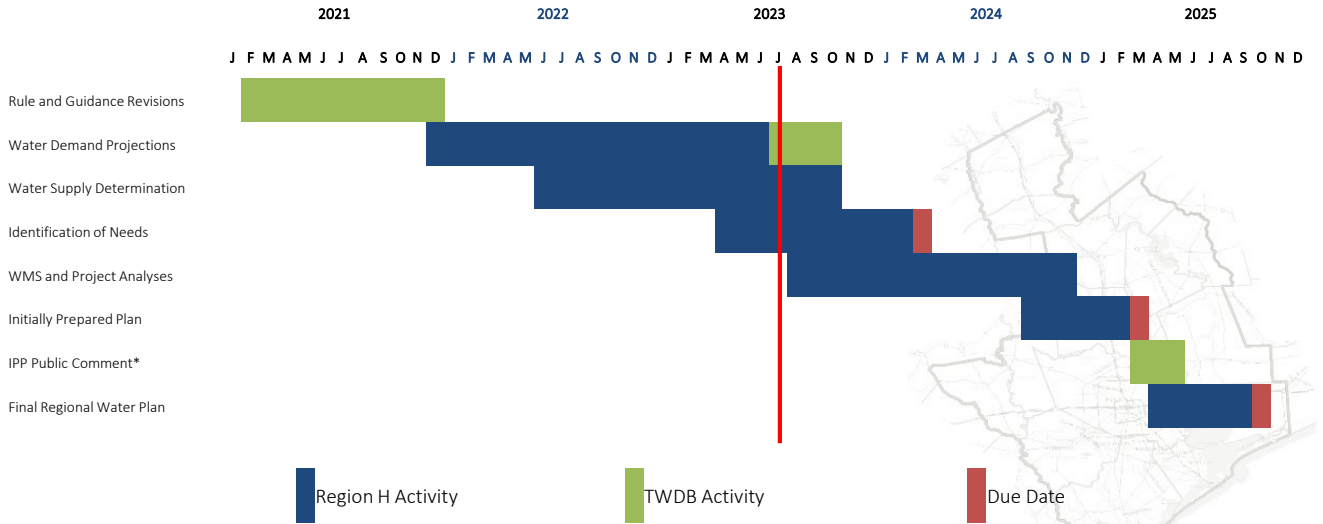
Jake Hollingsworth

Gulf Coast Water Authority
Assistant General Manager

Agenda Item 8

Discuss options for future Committee meetings.

Agenda Item 8 Committee Schedule



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

Agenda Item 8 Committee Schedule

Date	Scheduled Events/Tasks
07/2023	Committee Meeting
08/2023	RWPG Meeting
11/2023	RWPG Meeting
03/2024	Technical Memorandum due to TWDB

