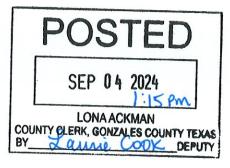
REGULAR BOARD MEETING GONZALES COUNTY UNDERGROUND WATER CONSERVATION DISTRICT MEETING OF THE BOARD OF DIRECTORS

The Directors of the Gonzales County Underground Water Conservation District will meet in a public session on September 10, 2024, immediately following the public hearing at 5:30 p.m., at the Gonzales County Underground Water Conservation District Office located at 522 Saint Matthew Street, Gonzales, Texas.

Note: Members of the public wishing to comment <u>must</u> attend the meeting in-person. However, any person may view or listen to the meeting via audio and video conference call. No participation or public comments will be allowed via video or conference call. The Audio and Video Conference Opens 5 minutes before the 5:30 p.m. beginning of the meeting.

GCUWCD September 10, 2024, Public Hearing Proposed Tax Rate and Regular Board Meeting

Sep 10, 2024, 5:30 – 7:30 PM (America/Chicago) **Please join my meeting from your computer, tablet or smartphone.** <u>https://meet.goto.com/645742965</u> **You can also dial in using your phone.** Access Code: 645-742-965 United States (Toll Free): <u>1 877 309 2073</u> United States: <u>+1 (646) 749-3129</u> **Get the app now and be ready when your first meeting starts:** <u>https://meet.goto.com/install</u>



The agenda is as follows:

- 1. Call to Order.
- 2. Public Comments. Limit to 3 minutes per person.
- 3. Consent Agenda (Note: These items may be considered and approved by one motion of the Board. Directors may request to have any consent item removed from the consent agenda for consideration and possible action as a separate agenda item):
 - a. Approval of minutes of August 13, 2024, Public Hearing.
 - b. Approval of minutes of August 13, 2024, Regular Board Meeting.
 - c. Approval of the Financial Report.
 - d. Approval of the District's bills to be paid.
 - e. Approval of the Mitigation Fund bills to be paid.
 - f. Approval of District Manager, Administrative Staff, Board Member, Field Technician, and Mitigation Manager Expenses.
 - g. Approval of Manager's Report (monthly report, transporter usage, drought index).
 - h. Approval of Well Mitigation Manager's Report (well mitigation progress).
 - i. Approval of Field Technician's Report (well registrations, water levels, water quality).
- 4. Discuss and possibly take action on any item removed from Consent Agenda.
- 5. Discuss and possibly take action on a resolution for a moratorium on new permits and permit amendments until the draft rules are adopted.
- 6. Discuss and possibly take action on setting the tax rate for the 2024 2025 fiscal year.
- 7. Discus and possibly take action on revisions to the District's fiscal year 2023 2024 budget
- 8. Discuss and possibly take action on the District's fiscal year 2024 2025 Budget.
- 9. Discuss and possibly take action on the District's Western Mitigation Fund fiscal year 2024 2025 budget.
- 10. Discuss and possibly take action on the District's Eastern Mitigation Fund fiscal year 2024 2025 budget.
- 11. Discuss and possibly take action on the scheduling of a draft District Rule amendment workshop.
- 12. Discuss and possibly take action on draft District Rule amendments.

REGULAR BOARD MEETING GONZALES COUNTY UNDERGROUND WATER CONSERVATION DISTRICT MEETING OF THE BOARD OF DIRECTORS

- 12. Discuss and possibly take action on draft District Rule amendments.
- 13. Executive session pursuant to § 551.074 Government Code for personnel matters.
- 14. Discus and possibly take action on the agenda layout, and general board policies regarding virtual public comments.
- 15. Discuss and take action on a permit renewal for an irrigation well in the Carrizo Aquifer for E.P. Valley.
- 16. Discuss and take action on a permit renewal for an irrigation well in the Carrizo Aquifer for Mr. Troy Kisner.
- 17. Discuss and take action on a permit renewal for an industrial well in the Carrizo Aquifer for Seger Family Investments, LLC.
- 18. Presentation on website navigation.
- 19. Presentation of legislative/legal updates from legal counsel.
- 20. Discussion of other items of interest by the Board and direction to management based on the items set forth above.
- 21. Adjourn.

The above agenda schedule represents an estimate of the order for the indicated items and is subject to change at any time. These public meetings are available to all persons regardless of disability. If you require special assistance to attend the meeting, please call 830.672.1047 at least 24 hours in advance of the meeting to coordinate any special physical access arrangements.

At any time during the meeting and in compliance with the Texas Open Meetings Act, Chapter 551, Government Code, Vernon's Texas Codes, Annotated, the Gonzales County Underground Water Conservation District Board may meet in executive session on any of the above agenda items or other lawful items for consultation concerning attorney-client matters (§ 551.071); deliberation regarding real property (§ 551.072); deliberation regarding prospective gift (§ 551.073); personnel matters (§ 551.074); and deliberation regarding security devices (§ 551.076). Any subject discussed in executive session may be subject to action during an open meeting.

POSTED THIS THE 4th DAY OF SEPTEMBER 2024 AT _____O'CLOCK by ______.

Gonzales County Underground Water Conservation District Minutes of the Board of Directors August 13, 2024 Public Hearing Draft Rules

Call to Order

The Board of Directors of the Gonzales County Underground Water Conservation District (the District) called a public hearing regarding the District's Draft Rules. The meeting was called to order at 5:31 PM. Present for the meeting were directors: Mr. Barry Miller, Mr. Mark Ainsworth, Mr. Michael St. John, Mr. Bruce Tieken. Mr. Glenn Glass was not in attendance. Also present for the meeting was GCUWCD General Manager Ms. Laura Martin, and legal counsel, Mr. Gregory Ellis. Other Attendees included: (See Attached List)

President of the Board to make comments

None.

Receive comments from the public on the District's proposed Draft Rules.

Ms. Sally Ploeger, landowner made a public comment, then Ms. Ploeger made a public comment on behalf of Mr. Ted Boriack, landowner who was not in attendance. Mr. Graham Moore, Alliance Regional Water Authority, Mr. Charlie Hickman, Guadalupe-Blanco River Authority, and Ms. Trish Carls, Canyon Regional Water Authority, made public comments. A recording of the board meeting and comments received are filed at the District office and on the District website.

Discussion of other items of interest by the Board and direction to management based on the items set forth above.

None.

Adjourn

A motion was made by Mr. Barry Miller to adjourn the meeting, and Mr. Michael St. John seconded the motion. The motion passed unanimously. The meeting adjourned at 5:50 PM.

Approved By:

September 10, 2024

HS

Gonzales County Underground Water Conservation District Minutes of the Board of Directors August 13, 2024 Regular Board Meeting

The regular meeting of the Board of Directors of the Gonzales County Underground Water Conservation District (the District) was called to order. Present for the meeting were directors: Mr. Bruce Tieken, Mr. Barry Miller, Mr. Mark Ainsworth, and Mr. Michael St. John. Mr. Glenn Glass was not in attendance Also present for the meeting were GCUWCD General Manager Ms. Laura Martin, and Legal Counsel Mr. Gregory Ellis. Other Attendees included: (See Attached List)

Call to Order.

The President of the Board called the meeting to order at 5:51 PM.

Public Comments. Limit to 3 minutes per person.

Ms. Sally Ploeger, landowner, made a public comment. A recording of the board meeting and comments received are filed at the District office and on the District website.

Consent Agenda (Note: These items may be considered and approved by one motion of the Board. Directors may request to have any consent item removed from the consent agenda for consideration and possible action as a separate agenda item):

- a. Approval of minutes of July 09, 2024, Regular Board Meeting.
- b. Approval of the Financial Report.
- c. Approval of the District's bills to be paid.
- d. Approval of the Mitigation Fund bills to be paid.
- e. Approval of District Manager, Administrative Staff, Board Member, Field Technician, Mitigation Manager Expenses.
- f. Approval of Manager's Report (monthly report, transporter usage, drought index).
- g. Approval of Well Mitigation Manager's Report (well mitigation progress).
- h. Approval of Field Technician Report (monthly report).

The consent agenda was reviewed by the Board of Directors. Mr. Barry Miller made a motion to approve the consent agenda. Mr. Mark Ainsworth seconded the motion. The motion passed unanimously.

Discuss and possibly take action on any item removed from Consent Agenda.

None.

Discuss and possibly take action on Receipt of the Certification of 2023 Appraisal Rolls for Gonzales and Caldwell Counties.

The Board of Directors received the 2023 Appraisal Rolls for Gonzales and Caldwell Counties. Mr. Ainsworth made a motion to accept and receive the Appraisal Rolls for Gonzales and Caldwell Counties. Mr. Michael St. John seconded the motion. The motion passed unanimously.

Discuss and possibly take action on revisions of the District's fiscal year 2023-2024 budget.

No action taken.

Executive session pursuant to §551.074 Government Code for discussion of personnel matters. No action taken.

Discuss and possibly take action on the District's fiscal year 2024-2025 budget. No action taken.

Discuss and possibly take action on setting Proposed Tax Rate for the District.

The General Manager and Board of Directors discussed the tax rate, and the rollback rate. Mr. Miller made a motion to set a proposed tax rate of 0.002817%. Mr. St. John seconded the motion. The motion passed unanimously.

Discuss and possibly take action on the Western Mitigation Fund fiscal year 2024-2025 budget. No action taken at this time. **Discuss and possibly take action on the Eastern Mitigation Fund fiscal year 2024-2025 budget.** No action taken at this time.

Discuss and possibly take action on renewal of CD #8549 at Sage Capital Bank expiring on August 14, 2024. The General Manager and Board of Directors discussed the various rates offered from the local banks on Certificates of Deposit over \$100,000. Mr. Miller made a motion to rollover CD#8549 into a Sage Capital Bank of Gonzales for 12 months at a 5.00% rate. Mr. St. John seconded the motion. The motion passed unanimously.

Discuss and possibly take action on adopting the GCUWCD Draft Rules.

No action was taken at this time.

Discuss and take action on a permit renewal for an irrigation well in the Carrizo Aquifer for well owners Ms. Sally Ploeger, Mr. Mark Ploeger, and Mrs. Mary Ann Menning.

The General Manager and the Board of Directors discussed the permit renewal to approve the permit renewal for an irrigation well in the Carrizo City Aquifer for Ms. Sally Ploeger, Mr. Mark Ploeger, and Mrs. Mary Ann Menning. Mr. Ainsworth made a motion to renew the permit. Mr. Bruce Tieken seconded the motion. The motion passed unanimously.

Discuss and take action on a permit renewal for Schertz-Seguin Local Government Corporation for Carrizo wells #1-12.

The General Manager and the Board of Directors discussed approving the permit renewal for Schertz-Seguin Local Government Corporation for Carrizo wells #1-12. Mr. Ainsworth made a motion to approve the permit renewal. Mr. St. John seconded the motion. The motion passed unanimously.

Discuss and possibly take action on a Bank Resolution to update bank signatures.

Mr. Miller made a motion to pass the bank resolution to update all bank signature cards with the current board members. Mr. Tieken seconded the motion. The motion passed unanimously.

Discuss and take action on a resolution adopting the revised Management Plan.

Mr. Miller made a motion to adopt and submit the revised Management Plan. Mr. St. John seconded the motion. The motion passed unanimously.

Presentation of legislative/legal updates from legal counsel.

Mr. Greg Ellis discussed Legislative and legal updates.

Discussion of other items of interest by the Board and direction to management based on the items set forth above.

Discussion took place about the S.O.A.H. preliminary hearing timeline. No action was taken.

Adjourn:

A motion was made by Mr. Ainsworth to adjourn the meeting and Mr. St. John seconded the motion. The motion passed unanimously. The meeting adjourned at 7:03 PM.

Approved By:

September 10, 2024

HS

Gonzales County Underground Water Conservation District Investment Report September 10, 2024

| | | Sept | tember 10, 20 | 24 | | | |
|--|---------------------------------------|---------------------------|-------------------------|---------------|--------------------|-----------|----------------|
| CD Information - District Fun | ds | | | | | | |
| | | | Purchase | | | | |
| Account | Place | Purchase Date | Value | Interest Rate | Maturity Date | As of | Amount |
| | | | | | | | |
| CD #11 | Sage Capital Bank | 8/4/2023 | \$152,818.77 | 5.15% | 2/4/2025 | 8/31/2024 | \$179,869.14 |
| CD #365 | Randolph Brooks FCU | 3/28/2023 | \$271,523.86 | | 9/28/2024 | 8/31/2024 | \$271,589.47 |
| CD #49 | Sage Capital Bank | 8/14/2024 | \$250,000.00 | 5.00% | 8/14/2025 | 8/31/2024 | \$285,521.75 |
| | | | | | Total CD's to Date | | \$736,980.36 |
| Market Comparisons | | | | | | | |
| Market Compansons | Tex Pool | | | 5.27% | | 9/5/2024 | |
| | 6 Mo. Treasury Yield | | | 4.74% | | 9/5/2024 | |
| | | | | | | | |
| Banking Information - Distric | | | | | | | |
| Account | Place | | | | | As of | Amount |
| #59 Money Market | Sage Capital Bank | | | | | 8/31/2024 | \$1,397,804.80 |
| #61 Operating | Sage Capital Bank | | | | | 8/31/2024 | \$23,499.32 |
| #356 Savings | Randolph Brooks | | | | | 8/31/2024 | \$1.00 |
| | | | | | Total Cook to Data | | ¢4 404 205 40 |
| Banking Information - Weste | rn Mitigation Fund | | | | Total Cash to Date | | \$1,421,305.12 |
| Account | Place | | | | | As of | Amount |
| #35 Money Market | Sage Capital Bank | | | | | 8/31/2024 | \$216,848.73 |
| #70 Operating | Sage Capital Bank | | | | | 8/31/2024 | \$2,132.93 |
| | Saye Capital Dalik | | | | | 0/31/2024 | φ2,102.95 |
| | | | | | Total Cash to Date | | \$218,981.66 |
| Banking Information - Easter | n Mitigation Fund | | | | | | |
| Account | Place | | | | | As of | Amount |
| #64 Money Market | Sage Capital Bank | | | | | 8/31/2024 | \$280,882.19 |
| #98 Operating | Sage Capital Bank | | | | | 8/31/2024 | \$2,134.03 |
| | | | | | | | |
| | | | | | Total Cash to Date | | \$283,016.22 |
| Weighted Average Maturity (WA | A M) | | | | | | \$2,660,283.36 |
| Using the Current Date and Maturity Dat | | 1) = | | | | | \$2,000,200.00 |
| The overall sum of each security's par a | | | the total of all invest | ments | | | |
| The overall sum of each security's paral | mount multiplied by its number of day | a to maturity, divided by | Reprting | mento. | | | |
| Security Description | Investment Amount | CD Start Date | Period Date | Mat. Date | Mat. in Days (DTM) | WAM | CD Term |
| Sage Capital CD #11 | \$179,869.14 | 8/4/2023 | 8/31/2024 | | 157 | 38.318 | 18 mo |
| Randolph Brooks CD #365 | \$271,589.47 | 3/28/2023 | 8/31/2024 | | 28 | 10.318 | 18 mo |
| Sage Capital CD #49 | \$285,521.75 | 8/14/2024 | 8/31/2024 | 8/14/2025 | 348 | 134.823 | 12 mo |
| CD Total | \$736,980.36 | of the of the | 0/0/112021 | 0/11/2020 | 010 | 183.459 | 121110 |
| | \$100,000.00 | | | | | 100.100 | |
| #59 Money Market | \$1,397,804.80 | | | | 1 | 0.727 | |
| #61 Operating | \$23,499.32 | | | | 1 | 0.012 | |
| #365 Savings | \$1.00 | | | | 1 | 0.000 | |
| #35 Money Market | \$216,848.73 | | | | 1 | 0.113 | |
| #70 Operating | \$2,132.93 | | | | 1 | 0.001 | |
| #64 Money Market | \$280,882.19 | | | | 1 | 0.146 | |
| #98 Operating | \$2,134.03 | | | | 1 | 0.001 | |
| Fund Total | \$1,923,303.00 | | | | | 1.000 | |
| | | | | | | | |
| Grand Totals | \$2,660,283.36 | | | | WAM | 184.459 | |
| | | | | | | | |

The portfolio of the Gonzales County Underground Water Conservation District is believed to be in compliance with the District's Board approved Investment Policy, State law, and the Investment Strategy.

Signed: Laura Martin, Investment Officer

Dated: 09 05 12024

GCUWCD BILLS TO BE PAID September 10, 2024

| GVTC (Local & Long Distance & Internet)-Paid | \$ | 279.23 |
|---|----------|-----------|
| City of Gonzales (Utilities)-Paid | \$ | 233.58 |
| Ricoh (Copier Rental)-Paid | \$ | 217.75 |
| Immense Impact (Annual website)-Paid | \$ | 499.00 |
| Post Office Box Rental | \$ | 266.00 |
| Hyatt Regency (TAGD Annual Summit)-Paid | \$ | 405.84 |
| Hi-Tech Pest Services | \$ | 95.00 |
| Caldwell County, County Clerk (post notice)-Paid | \$ | 2.00 |
| Lockhart Post-Register (Published Notices) | \$ | 1,032.00 |
| ESRI (ArcGIS Desktop) | \$ | 1,108.25 |
| Texas Water Conservation Association-Paid | \$ | 454.00 |
| GoToMeeting (Monthly Phone Charge)- Paid | \$ | 1.92 |
| H-E-B (Office Supplies)-Paid | \$ | 53.96 |
| Amazon (extention cord cover)-Paid | \$ | 42.06 |
| McElroy Sullivan Miller & Weber LLP (GBRA Hearing-August) | \$ | 8,110.30 |
| Coastal Office Solutions (office supplies, Invoice QE-47706-1 & QE- | | |
| 47708-1)-Paid | \$ | 151.99 |
| | <u> </u> | |
| Coastal Office Solutions (office supplies, Invoice IN-5333 & IN-5376) | \$ | 127.80 |
| Caldwell County Appraisal District (2024 4th QTR Coll.) | \$ | 17.31 |
| Caldwell County Appraisal District (2024 4th QTR Prop.) | \$ | 54.94 |
| Gonzales Central Appraisal District (2024 4th QTR Budget Share) | \$ | 748.25 |
| Synergisdic, LLC | \$ | 824.00 |
| Texas A&M AGRILIFE EXTENSION (Water Fair: WQ Samples)-Paid | \$ | 1,225.00 |
| Gonzales Inquirer (Published Notices) | \$ | 612.00 |
| Walmart (office supplies) | \$ | 35.86 |
| Total | \$ | 16,598.04 |

GCUWCD WMF BILLS TO BE PAID September 10, 2024

| | | |
|------|------|------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

TOTAL

\$0.00

GCUWCD EMF BILLS TO BE PAID September 10, 2024

| - |
|---|

TOTAL

\$0.00

Gonzales County Underground Water Conservation District Expense Report

Laura M. Martin

| | | | Beginning | Ending | |
|--|-------------|-------------|----------------|----------------|-------------|
| Nature of Trip/Date | From | To | Mileage | Mileage | Total Miles |
| 8/19 TAGD Fieldtrip to H2Oaks Facility | Office | San Antonio | 101537 | 101624 | 87 |
| | tonio | Home | 101624 | 101716 | 92 |
| 8/20 TAGD Summit | Home | San Antonio | 101716 | 101808 | 92 |
| 8/22 Return From TAGD Summit | San Antonio | Home | 101808 | 101901 | 92 |
| | | | | | 0 |
| | | | | Total Miles | 364 |
| | | | | Current Rate X | 0.67 |
| | | | Mileage X Rate | Subtotal | \$243.61 |
| 8/00 Hyatt Regency (Travel & Meetings) | | | | | \$77.84 |
| | | | | | |
| Telephone | | | | | \$70.00 |
| Period Covered August 1-31, 2024 Approved By: Date: September 10, 2024 | | | | Total Due | \$391.45 |



LAURA MARTIN PO BOX 363 GONZALES, TX 78629-0363

| Snapshot | of | your | bill | |
|-----------------|----|------|------|--|
| () | | | | |

(details on page 3)

Balance from last bill \$0.00

This month's charges \$359.67

Total due on Sep 4

You have Auto Pay scheduled for Sep 1, 2024.

If you don't pay the total charges due by the due date, you'll be charged 5% of the unpaid balance or S7, whichever is greater, if allowed by law in the state of your billing address.

Account: 788600115-00001 Invoice: 4690810128 Billing period: Jul 13 - Aug 12, 2024

Questions about your bill? verizon.com/support 800-922-0204

Ways to pay

My Verizon app

You can check your bill easily with the My Verizon app available in App Store or Google Play.

☐ Online

Go to go.vzw.com/bill and sign in to review your bill.

🕲 By phone

Simply dial **#PMT (#768)** on your phone and follow the instructions to pay.

(\$) Cash

Go to www.verizon.com/stores to find a Verizon Wireless store near you or find a Check Free Pay or Western Union near you to make a cash payment.

verizon

LAURA MARTIN PO BOX 363 GONZALES, TX 78629-0363 Bill date Account number Invoice number

\$359.67

August 12, 2024 788600115-00001 4690810128

Total Amount Due

Deducted from bank account on 09/01/24 DO NOT MAIL PAYMENT \$359.67

Please see back for instructions on writing to us.

PO BOX 16810 NEWARK, NJ 07101-6810

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Signatures Jour Mul

Join World of Hyatt today and start earning points for stays, dining and more. Visit worldofhyatt.com What point earning eligible What point redemption eligible

Gonzales County Underground Water Conservation District Mitigation Fund Expense Report

Link Benson

| | | | Beginning | Ending | |
|---|------|--------|-----------|------------------|--------------------|
| Nature of Trip/Date | From | То | Mileage | Mileage | Total Miles |
| 8/21 Ottine/Shelton | Home | Ottine | 129,994 | 130,022 | 28 |
| 8/21 Ottine/Shelton | Home | Ottine | 130,078 | 130,106 | 28 |
| | | | | | 0 |
| | | | | | 0 |
| | | | | | 0 |
| | | | | | 0 |
| | | | | | 0 |
| | | | | Total Miles | 56 |
| | | | | Current Rate X | 0.67 |
| Expenses | | | | Mileage Subtotal | \$37.52 |
| Phone | | | | | \$70.00 |
| August 1-31, 2024 Approved By : Date : September 10, 2024 | | | | Total Due | \$107.52 |

Gonzales County Underground Water Conservation District Field Technician Expense Report

Frank Agee

| | | | • | | |
|--|------|---------------------------|-----------|------------------|-------------|
| | | | Beginning | Ending | |
| Nature of Trip/Date | From | To | Mileage | Mileage | Total Miles |
| 8/1 Friedel/J-Bar-B & Drillink/Holmes Food In Home | Home | Northeastern Gonzales Co. | 26,223 | 26,269 | 46 |
| 8/2 Drillink/Holmes Food Inc. | Home | Northcentral Gonzales Co. | 26,270 | 26,310 | 40 |
| 8/7 One Source/Cochran | Home | Northwestern Gonzales Co. | 26,355 | 26,404 | 49 |
| 8/9 One Source/Cochran | Home | Northwestern Gonzales Co. | 26,404 | 26,454 | 50 |
| 8/15 MWCZ #9 & # 10 | Home | Northcentral Gonzales Co. | 26,538 | 26,590 | 52 |
| 8/19 Herbold/Holden | Home | Northcentral Gonzales Co. | 26,651 | 26,689 | 38 |
| 8/20 Herbold/Holmes/Cochran/Borehole | Home | Northcentral Gonzales Co. | 26,689 | 26,752 | 63 |
| 8/21 Herbold/Hahn | Home | Northcentral Gonzales Co. | 26,784 | 26,836 | 52 |
| 8/26 Schmidt/Niemeier | Home | NE & SE Gonzales Co. | 26843 | 26,939 | 96 |
| | Home | Southeastern Gonzales Co. | 26939 | 27,001 | 62 |
| | | | | Total Miles | 548 |
| | | | | Current Rate X | 0.67 |
| | | | | Mileage Subtotal | \$367.16 |
| Expenses | | | | | |
| Distilled Water Wash Bottle | | | | | \$10.27 |
| Folding Stands for pH meters | | | | | \$8.64 |
| Period Covered:August 1-31, 2024 Approved By: | | | | Total Due | \$386.07 |
| | | | | | · |

Gonzales County Underground Water Conservation District Administrative Assistant Expense Report

Haley Stakes

| Nature of Trin/Date | From | To | Beginning Mileade | Ending Mileage | Total Miles |
|---|------|------|----------------------|-------------------|-------------|
| 08/20 Caldwell County Justice Center(Post Notice) | ice | ccuc | 179.491 | 179,551 | 60 |
| | | | | | |
| | | | | | |
| | | | | Total Miles | 60 |
| | | | | Current Rate X | 0.67 |
| | | | | Mileage Subtotal | \$40.20 |
| Expenses | | | | | |
| | | | | | |
| | | | | | |
| Period Covered: August 1-31, 2024 Annroved Bv ⁻ | | | | Total Due | \$40.20 |
| Date: Septemer 09, 2024 | | | | | |

Gonzales County Underground Water Conservation District Manager's Report August 2024

On August 1st, I virtually attended the South Central Texas Regional Water Planning Group (SCTRWPG, Region L) meeting. A copy of the agenda is attached.

On August 2nd, I met with members of the Rules Committee, geologist, and legal counsel to discuss the rule workshop schedule, desired future conditions, and task orders for consultation.

On August 6th, I virtually met with Adam Conner, Central Texas Water Supply Planning Lead for Freese and Nichols, Inc. and members of County Line SUD to discuss potential management strategies they are submitting to SCTRWPG for the 2026 plan in the Gonzales County Underground Water Conservation District boundaries. These are in draft and are confidential.

On August 13th, I virtually met with panel members of the Texas Alliance of Groundwater District (TAGD) Summit panel presentation to discuss the upcoming panel presentation on Emerging Management Issues for Large-scale Production Permits. An article from the Texas Water Journal is attached.

On August 19th, I met with members of the Rules Committee to discuss rule workshop schedules and timelines. Then I went to San Antonio to the Texas Alliance of Groundwater Districts fieldtrip to San Antonio Water Systems Aquifer Storage and Recovery and Desalination Facility, H2Oaks water plant.

On August 20th-22nd, I attended the TAGD Annual Summit. I was a presenter on a panel discussing Emerging Management Issues for Large Scale Production. A copy of the agenda is attached.

On August 23rd, I met with James "Jim" Totten General Manager of Lost Pines GCD, and Mrs. Natasha Martin, legal counsel to discuss an interlocal agreement to share data and the possibility of mitigation over boundary lines.

On August 28th, I virtually attended the Texas Commission of Environmental Quality (TCEQ) Commission meeting. I had volunteered to be on a review panel for a Petition of Inquiry received on Lone Star GCD.

On August 29th, I virtually attended the Texas Water Foundation, Texas Runs on Water toolkit campaign seminar.

AQUA's July production was about 29.08 ac-ft which is about 6.97% of the monthly allowable production.

CRWA's August production was about 740.62 ac-ft which is about 106.81% of the monthly allowable production.

GBRA's August production was 45.54 ac-ft which is 3.64% of the monthly allowable production.

SAWS August production was about 851.80 ac-ft which is about 87.45% of the monthly allowable production.

SSLGC's August production was about 1567.69 ac-ft which is about 97.19% of the monthly allowable production.

The Palmer Drought Index, as of August 27, 2024, indicates that the District is currently under no drought conditions. The latest drought map shows overall increases in drought conditions in Western Texas in the week of September 09, 2024.

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

TAKE NOTICE that a meeting of the South-Central Texas Regional Water Planning Group (SCTRWPG) as established by the Texas Water Development Board will be held on Thursday, August 1, 2024 at 9:30 AM both in person and virtually. The inperson meeting will be held at the San Antonio Water System's Customer Service Building, Room CR-145, 2800 US Hwy 281 North, San Antonio, TX 78212. You can attend virtually on WebEx at

https://saws.webex.com/saws/j.php?MTID=m23e3d61939dadb5fc2ef0ae6eb50f466. The planning group members will consider and may take action regarding:

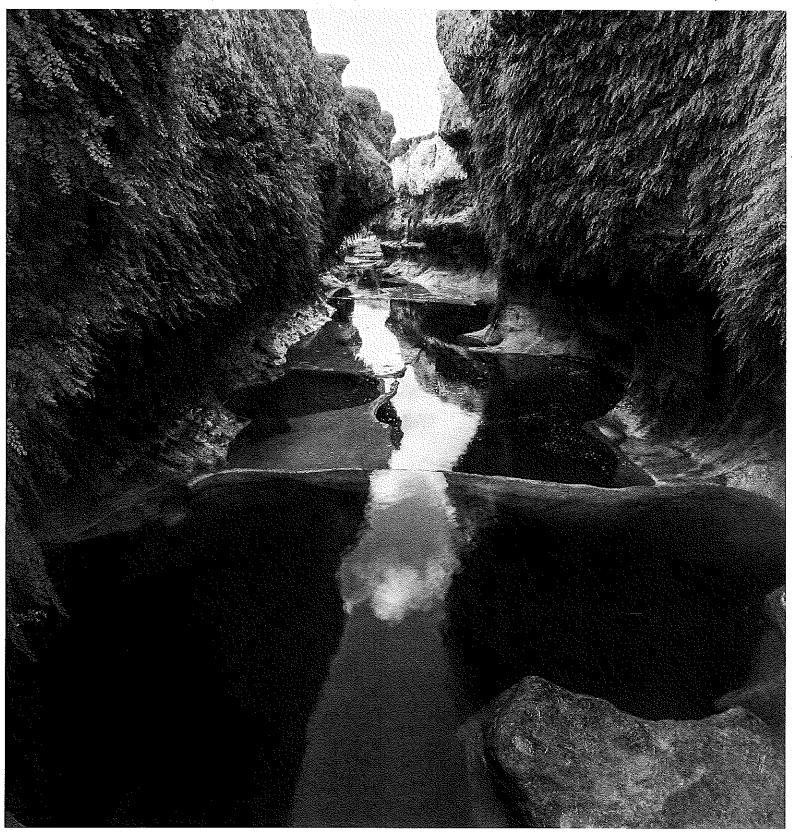
- 1. (9:30 AM) Roll-Call
- 2. Public Comment (Limited to 3 minutes)
- 3. Approval of the Minutes from the Previous Meeting of the South-Central Texas Regional Water Planning Group (SCTRWPG)
- 4. Status Reports and Communications by TWDB
- 5. Status Reports and Communications Related to Regional Water Planning including reports by the Chair, Regional Liaisons, Groundwater Management Area Representatives, and Members of the Planning Group
- 6. Consideration and Appropriate Action Regarding Briefings on Workgroup Activities:
 - a. Chapter 8 Policy and Legislative Recommendations Workgroup
 - b. Rural and Community Outreach Workgroup
- 7. Consideration and Appropriate Action Regarding Presentation by Technical Consultant Regarding Schedule and Progress Update
- Consideration and Appropriate Action for the Technical Consultant to Evaluate Weather Modification as a New Water Management Strategy
- Consideration and Appropriate Action Regarding Designation of the Nueces River Authority as a Wholesale Water Provider (WWP) as defined in 31 TAC §357.10(44) for Regional Water Planning Purposes
- 10. Discussion and Appropriate Action Regarding the Establishment of Additional Subcommittees
- 11. Schedule and Potential Agenda Items for the Next Meeting of the SCTRWPG
- 12. Public Comment (Limited to 3 minutes)
- 13. Adjourn

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

An online, pccr-reviewed journal published in cooperation with the Texas Water Resources Institute and the Bureau of Economic Geology

* Texas Water Journal

Volume 15 Number 1 | 2024





Volume 15, Number 1 2024 ISSN 2160-5319

texaswaterjournal.org

THE TEXAS WATER JOURNAL is an online, peer-reviewed, and indexed journal devoted to the timely consideration of Texas water resources management, research, and policy issues. The journal provides in-depth analysis of Texas water resources management and policies from a multidisciplinary perspective that integrates science, engineering, law, planning, and other disciplines. It also provides updates on key state legislation and policy changes by Texas administrative agencies.

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The Texas Water Journal is indexed by <u>Scopus</u>, <u>Google</u> <u>Scholar</u>, and the <u>Directory of Open Access Journals</u>.

Cover photo: The Narrows on the Blanco River. ©2020 Erich Ross Schlegel, Texas Water Foundation. **Texas Water Journal** Volume 15, Number 1, March 19, 2024 Pages 34-54

Case Study of Groundwater Management Issues at the Forefront of Large-scale Production from a Confined Aquifer: The Vista Ridge Project

Steven C. Young^{1*}, Carlos Rubinstein², and Russell Johnson³

Abstract: Continuing population growth, increasing demands for water, and declining water availability are statewide water concerns in Texas. The development and movement of water from where it is located to where it is needed entails benefits to the receiving area and concerns for the area of origin. The Vista Ridge Project serves as an on-point example and case study of issues that will be revisited with future large water projects across Texas. Water level declines in existing wells caused by production from the Vista Ridge well field was a focus of significant public discussion in 2022, including Texas House and Senate interim session hearings. This paper spotlights groundwater management issues related to the Vista Ridge Project, including well mitigation; impacts from groundwater production across groundwater conservation district boundaries; meaningful consideration of nine factors in Texas Water Code § 36.108 (d); achieving the balance between groundwater production and conservation in Texas Water Code § 36.108 (d-2); protection of property rights; and the need for both good science and good science communication during the joint-planning process.

Keywords: Mitigation, property rights, fair share, modeled available groundwater, Groundwater Management Area 12, Post Oak Savannah GCD, Lost Pines GCD, Vista Ridge, socioeconomic impacts, desired future conditions

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Received 14 June 2023, Accepted 20 December 2023, Published online 19 March 2024.

Citation: Young SC, Rubinstein C, and Johnson R. 2024. Case Study of Groundwater Management Issues at the Forefront of Large scale Production from a Confined Aquifer: The Vista Ridge Project. Texas Water Journal. 15(1):34-54. Available from: <u>https://doi.org/10.21423/</u> <u>twi.v15i1.7161</u>.

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Terms used in paper

| Acronym/Initialism | Descriptive Name |
|--------------------|---|
| af/yr | acre-feet per year |
| bgs | below ground surface |
| BVGCD | Brazos Valley Groundwater Conservation District |
| DFC(s) | desired future condition(s) |
| ft | feet |
| ft²/day | square feet per day |
| GAM(s) | groundwater availability model(s) |
| GCD(s) | groundwater conservation district(s) |
| GMA(s) | groundwater management area(s) |
| GULF | Gulf Coast Land Subsidence and Groundwater-Flow |
| GWAP | Groundwater Assistance Program |
| НВ | House Bill |
| LPGCD | Lost Pines Groundwater Conservation District |
| MAG(s) | modeled available groundwater(s) |
| PDL | protective drawdown limits |
| POSGCD | Post Oak Savannah Groundwater Conservation District |
| SAWS | San Antonio Water System |
| TCEQ | Texas Commission on Environmental Quality |
| TWC | Texas Water Code |
| TWDB | Texas Water Development Board |
| USC | United States Code |

INTRODUCTION

The 2022 Texas state water plan predicts that Texas's population will increase 73% between 2020 and 2070 (Texas Water Development Board [TWDB], 2022). During this 50-year period, the demand for municipal water will increase 66%, or approximately 3.3 million acre-feet per year (af/yr). The existing supply of water is projected to decline by 18% over the same period, primarily due to statewide aquifer depletion (TWDB, 2022). More than 25% of the growth in water usage is projected to occur in four Texas regional water planning groups. The water demand for these four regional water planning groups, which encompass the cities of Dallas, Fort Worth, Houston, San Antonio, and Austin, is projected to increase 2.5 million af/yr from 2020 to 2070 (TWDB, 2022).

The complexity of moving water to where it is needed will be a key factor in meeting Texas's unprecedented economic and population growth. Projects that move water from where it is located to where it is needed have socioeconomic impacts to both the receiving area as well as the area of origin. Updated groundwater modeling and proper construction of these models are indispensable to properly consider the benefits and impacts from such projects.

This paper presents a case study of the Vista Ridge Project—a large groundwater export project in Burleson County—that illustrates the controversies, uncertainties, impacts, and expenses associated with moving large volumes of groundwater to where it is needed in Texas and spotlights issues that will likely be of concern related to other Texas groundwater development projects in the near future. These issues include:

- The potential importance of a fair share doctrine to the protection of property rights, the production of groundwater, and the conservation of groundwater in place (see section elaborating on this topic);
- Consideration of permitted production as a factor when developing desired future conditions (DFCs) (*see section elaborating on this topic*);
- Consideration of local socioeconomic impacts from the groundwater's area of origin when developing DFCs (see section elaborating on this topic);
- Potential benefits from presenting spatial and temporal distributions of drawdowns and water levels generated by groundwater availability model (GAM) simulations used to develop DFCs (see section elaborating on this topic);
- Recognition of uncertainty in GAM predictions of drawdown and DFCs (see section elaborating on this topic); and
- Understanding the limitations of modeled available groundwater (MAG) as an indicator for assessing the achievement of a DFC (*see section elaborating on this topic*).

Given that groundwater water supply projects like the Vista Ridge Project are being considered across Texas, groundwater decision makers would benefit from a familiarization with the groundwater issues, science, modeling, and mitigating factors associated with the Vista Ridge Project. Additionally, now that the 88th Texas Legislature has passed bills partly informed by the experiences and actions to mitigate impacts from groundwater production for transport—such as the Vista Ridge Project—this case study should assist GCDs with developing mitigation policies and accomplishing their groundwater management goals.

The case study is organized into five additional sections. Section II provides information on the hydrogeology and production associated with the Vista Ridge well field and on the Post Oak Savannah Groundwater Conservation District (POSGCD) management strategies most relevant to permitting and regulating Vista Ridge. Section III discusses several of the complex issues associated with the Vista Ridge Project from the perspectives associated with the responsibilities assigned to GCDs and groundwater management areas (GMAs). Section IV provides recommendations for improving the management of the joint planning process for adopting DFCs. Section V provides references, and Section VI provides the attachment.

GENERAL INFORMATION

Vista Ridge Project

The Vista Ridge Project is in western Burleson County within a few miles of the Lee County border. In 2020, the Vista Ridge Project began producing 50,000–55,000 af/yr from the Carrizo-Wilcox Aquifer and transporting it through a 142-mile pipeline to San Antonio. Because of impacts on the water levels in existing wells, the Vista Ridge Project was a focus of significant public discussion in 2022, including Texas House and Senate interim session hearings, front-page newspaper articles, GMA 12 meetings, and GCD meetings. These discussions and concerns led to consideration of several bills attempting to address the issues during the 88th Texas legislative session.

Hydrogeological Conditions

Vista Ridge production occurs from the deep confined portion of the Carrizo-Wilcox Aquifer. The Carrizo-Wilcox Aquifer is composed of four geologic units, which from youngest to oldest (or from shallowest to deepest) are the Carrizo, Calvert Bluff, Simsboro, and Hooper aquifers. The Vista Ridge wells are completed in the Carrizo and Simsboro aquifers.

Figure 1 shows the locations of the Vista Ridge well field and areas where the four geologic units outcrop at ground surface. Figure 2 shows a vertical cross section of the Carrizo-Wilcox Aquifer along a transect that begins in Milam County and

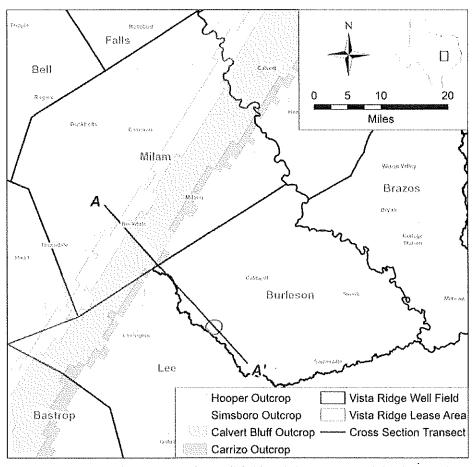


Figure 1. Location of the Vista Ridge well field and the outcrops of the four geologic units that comprise the Carrizo-Wilcox Aquifer (outcrop is where the aquifer intersects the ground surface).

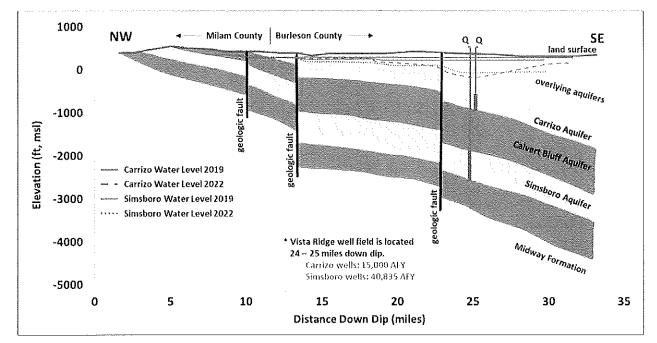


Figure 2. Vertical cross section along Transect A-A' in Figure 1 showing the four geological units that comprise the Carrizo-Wilcox Aquifer, the locations of several geologic faults, the Vista Ridge wells, and the Carrizo and Simsboro aquifer water levels in 2019 and 2022.

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passes through the Vista Ridge well field in Burleson County. The cross section shows that the Carrizo-Wilcox Aquifer dips toward the southeast and occurs at increasingly deeper depths toward the Gulf Coast. At the Vista Ridge well field, the tops of the Carrizo and the Simsboro aquifers occur at approximately 800 and 2,000 feet (ft) below ground surface (bgs), respectively. Also shown in Figure 2 are 2019 and 2022 water level surfaces for the Carrizo and Simsboro aquifers. A water level surface represents the height that water will rise in a well as a result of the hydraulic pressure in the aquifer. Water level is recorded relative to sea level and has the units of feet above mean sea level.

Aquifer systems can be categorized as either unconfined or confined. Unconfined aquifer conditions exist where the water level in a well occurs below the top of the aquifer, typically at aquifer outcrops. Confined aquifer conditions exist where the water level in a well occurs above the top of the aquifer. In an unconfined aquifer, a decline in a well's water level represents a reduction in the saturated thickness of the aquifer caused by removal of water from the pore spaces between the aquifer sands and clays. In a confined aquifer, a decline in a well's water level represents a change in the hydraulic pressure of the groundwater in a fully-saturated aquifer. If sufficient drawdown occurs, a confined aquifer system will transition from a confined aquifer into an unconfined aquifer.

The water levels in Figure 2 show that despite drawdowns of hundreds of feet in both the Carrizo and Simsboro aquifers in 2022, both aquifers remain fully saturated with water levels in the production wells occurring several hundred feet above the top of their respective aquifer.

Operation Permits, Wells, and Groundwater Production

The Vista Ridge production permit is associated with 29,026 acres of leased water rights, which under POSGCD rules allow a maximum annual production of 58,052 af/yr. The Vista Ridge permit has an annual production cap of 55,835 af/yr, which consists of 15,000 af/yr from the Carrizo Aquifer and 40,835 af/yr from the Simsboro Aquifer.

Vista Ridge began testing the well field and transmission system in late 2019. Delivery of groundwater to the San Antonio Water System (SAWS) started in April 2020. Groundwater production occurs from 18 wells: nine wells pump the Carrizo Aquifer, and another nine wells pump the Simsboro Aquifer. The nine Carrizo Aquifer wells have screened intervals that span the interval from about 800 to 1,250 ft bgs. The nine Simsboro Aquifer wells have screened intervals that span the interval from about 2,200 to 2,700 ft bgs. Through the end of 2022, the maximum permitted pumping rates for the Carrizo Aquifer and Simsboro Aquifer wells were 1,200 and 3,000 gallons per minute, respectively.

Drawdowns Generated from 2 Years of Vista Ridge Production

Figures 3 and 4 show drawdowns for the first 2 years of Vista Ridge production in the Carrizo and Simsboro aquifers, respectively. The drawdown contours were generated by interpolating water level changes (drawdown) between water levels measured prior to Vista Ridge's 2020 production and in early 2022. Within the well field, the drawdowns are approximately 400 and 300 ft in the Carrizo and Simsboro aquifers, respectively. The cones of depression created by the Vista Ridge pumping in the Carrizo and Simsboro aquifers extend approximately 15 and 25 miles into Lee County, respectively.

Post Oak Savannah Groundwater Conservation District

Groundwater production from the Vista Ridge Project is permitted by the POSGCD. The POSGCD was created in Milam and Burleson counties by House Bill (HB) 1784 in 2001 and a local confirmation election in November 2002. The POSGCD is a member of GMA 12, which sets DFCs for the Carrizo and Simsboro aquifers. POSGCD is bordered by two other GCDs that are members of GMA 12: Lost Pines GCD (LPGCD) to the southwest and Brazos Valley GCD (BVGCD) to the northeast. This section discusses several POSGCD management strategies and programs relevant to addressing impacts from large production projects such as the Vista Ridge Project.

Management Strategy: Management Zones and Management Areas

The POSGCD allows production up to a total of 2 aflyr for each acre tied to the permit application. This maximum production is allowed until changes in aquifer conditions or groundwater levels mandate curtailment of permitted production. Allocations of water per acre are not uncommon in water management and permitting. For evaluating and managing groundwater resources, POSGCD has assigned each of its aquifers to a separate management zone and has subdivided the management zones into management areas. POSGCD has adopted DFCs for the Carrizo and Simsboro aquifers that are in Table 1. The DFCs represent the average predicted drawdown across the entire aquifer from January 2011 to January 2070. The protective drawdown limits (PDLs) in Table 1 were derived using the same methodology and GAM simulations used to determine DFCs, except the management areas cover only a portion of the aquifer instead of the entire aquifer. POSGCD created the PDLs to address concerns about potential problems with enforcing DFC compliance caused by the absence of monitoring wells across large areas of the aquifer.

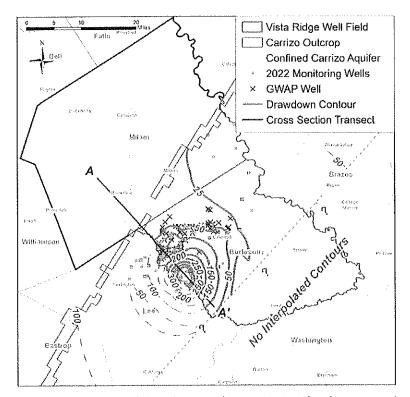


Figure 3. Contours of drawdown in the Carrizo Aquifer that occurred from 2019 to 2022 based on interpolation of measured water level data. Also shown are the location of 92 Carrizo Aquifer wells that Post Oak Savannah Groundwater Conservation District assisted through its Groundwater Assistance Program (GWAP).

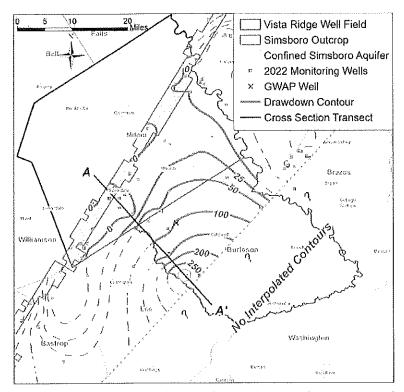


Figure 4. Contours of drawdown in the Simsboro Aquifer that occurred from 2019 to 2022 based on interpolation of measured water level data.

| Aquifer | Average draw | down January 2011–D | ecember 2069 |
|--------------------|---------------------------|------------------------------|------------------------------|
| management zone | DFC for entire aquifer | PDL for Management Area 1 | PDL for Management Area 2 |
| Carrizo | 146 | 75 | 175 |
| Simsboro | 278 | 91 | 335 |

Table 1. Post Oak Savannah Groundwater Conservation District desired future conditions (DFCs)and protective drawdown limits (PDLs) for the Carrizo and Simsboro aquifers.

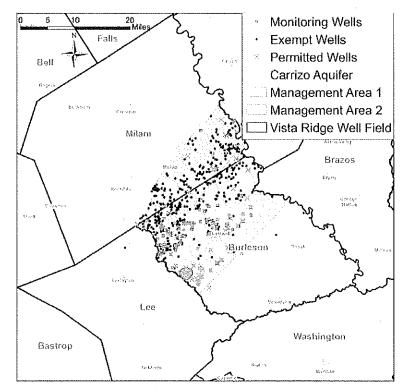


Figure 5. Areal extend of the Carrizo Aquifer and two management areas associated with Post Oak Savannah Groundwater Conservation District desired future conditions and protective drawdown limits.

Figure 5 shows the management areas associated with the two PDLs for the Carrizo Aquifer. Both management areas have monitoring wells spatially distributed throughout the entire area.

Management Strategy: Curtailment of Production

POSGCD rules that govern reductions in permitted production are summarized as follows:

• Preventing DFCs or PDLs exceedances: POSGCD has three threshold levels (1, 2, and 3) to gage compliance to DFCs and PDLs. Each increasing threshold level provides for an increased level of response. POSGCD has rules to authorize the development of plans for reducing permitted production when threshold level 3 has been exceeded. Threshold level 3 is reached when 75% of a DFC or a PDL has been achieved.

 Restoration of aquifer conditions after an unreasonable impact: Before granting or denying a permit, Texas Water Code (TWC) § 36.113 (d) (2) requires GCDs to consider if the permitted production would unreasonably affect existing groundwater and surface water resources or existing permit holders. POSGCD defines unreasonable impacts in their Rule 16.4.6 (POSGCD, 2023a). POSGCD considers the impacts from an aggregate of wells associated with one or more permits to be unreasonable if pumping from the aggregated wells by themselves and not part of the aggregate of permitted wells caused by any one of several conditions. For the confined aquifer conditions occurring at the Vista Ridge

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Project, POSGCD Rule 16.4.6 states unreasonable impacts to groundwater are defined as more than a 100foot reduction and more than a 40% reduction in water level above the top of the aquifer being pumped along any part of the boundary of the permit's property.

Groundwater Assistance Program

POSGCD began developing its Groundwater Assistance Program (GWAP) in early 2016, received public comment throughout 2017, and adopted the program on January 9, 2018. The primary objective of GWAP is to predict and provide corrective action for landowners whose wells experience water level declines below the pump due to regional pumping in GMA 12. Corrective actions provided by GWAP include, but are not limited to, lowering a pump in a well, modifying the construction of an existing well, or drilling a new well. In most cases, these actions result in the pump being set at a depth that is below the anticipated 30-year water level decline. To be eligible for funding under GWAP, a well must be a low capacity non-exempt well or an exempt well. Another eligibility requirement for GWAP assistance is that the landowner commits to the well becoming a part of the POSGCD monitoring program. As of December 2022, GWAP had addressed 100 wells. Out of these 100 wells, 92 are Carrizo Aquifer wells, the locations of which are shown in Figure 3.

TEXAS WATER CODE § 36.0015 (b) REQUIREMENTS OF GROUNDWATER CONSERVATION DISTRICTS

Per TWC § 36.0015 (b), GCDs have the responsibility "to protect property rights, balance the conservation and development of groundwater to meet the needs of this state, and use the best available science in the conservation and development of groundwater through rules" (TWC § 36, 2023. § 36.0015 (b)). Per TWC § 36.108 (d-2), within a GMA, GCDs are required to adopt DFCs that "provide a balance between the highest practicable level of groundwater production and the conservation, preservation, protection, recharging, and prevention of waste of groundwater and control of subsidence in the management area" (TWC § 36, 2023, § 36.0018 (d-2)).

Protect Property Rights

TWC § 36.002 recognizes that landowners own the groundwater below the surface of their land as real property. The TWC also authorizes GCDs to regulate the drilling and operation of wells within their jurisdiction. Despite assigning the GCD responsibilities to protect property rights, the TWC does not clearly articulate what that protection entails, much less how it should be implemented. Relevant to any discussion of property rights is the evolution of case law regarding groundwater as a property right. For that reason, this paper includes Attachment A, which provides a historical account of case law on the ownership of groundwater in Texas.

Property Right Issues Raised by Well Owners Affected by Vista Ridge Production

The Vista Ridge Project gained increased statewide attention with an August 2021 Texas Tribunc article entitled Central Texas Landowners Blame SAWS Vista Ridge Pipeline for Dry Wells (Douglas, 2021). The article states that dozens of landowners in LPGCD have lowered their water pumps because of declines in water levels attributed to the Vista Ridge Project. Public hearings were conducted by the Texas House Committee on Natural Resources on August 24, 2022, and by the Texas Senate Committee on Water, Agriculture & Rural Affairs on November 16, 2022. During both hearings, rural landowners from LPGCD voiced complaints over the Vista Ridge Project. The complaints included a loss of property rights caused by lower water levels, the financial burden of lowering pumps, no access to a well assistance program similar to POSGCD's GWAP, no evaluation of local socioeconomic impacts of Vista Ridge permits as part of the DFC process, and the injustice of water marketers profiting at the expense of rural landowners.

During the 2022 House interim session hearing, the LPG-CD president's concern regarding the impacts of the Vista Ridge Project on Lee County was conveyed in the testimony: "One option is for us [i.e., LPGCD] to file a petition with TCEQ asserting that Post Oak is not properly managing their groundwater, not considering unreasonable impacts, nor balancing groundwater production with conservation as required by statute. Though Chapter 36 is a great tool to assist districts in managing their groundwater resources in a fair and equitable manner, much is open to interpretation" (<u>Texas House Committee on Natural Resources, 2022, 4:34:42</u>).

Potential Importance of a Fair Share Doctrine to the Protection of Property Rights, the Production of Groundwater, and the Conservation of Groundwater in Place

Fair share is relevant to the discussion of the protection of property rights since the opinion in *Edwards Aquifer Authority v. Day* (2012). Case law has established that groundwater is a vested right and regulation cannot unreasonably deprive landowners of their vested groundwater rights without just compensation. However, because fair share has not been explicitly applied in evaluating GCD regulations and is not defined in TWC § 36, the application of fair share to permit decisions remains unexplained by the courts. Consequently, a landowner's property right to preserve, protect, and produce ground-

water is for all practical purposes determined by the rules of capture or the groundwater rules of a GCD or of a conservation district.

Per TWC § 36.0015, GCDs are required to use the best available science to develop rules associated with conservation and development of groundwater (TWC § 36.2023). A sensible assumption for TWC § 36.0015 is to promote similar and reasonable groundwater rules and by extension similar protection of property rights for landowners sharing the same aquifer but located in adjacent GCDs. Yet the rules developed by POSGCD and LPGCD to regulate production from the Carrizo-Wilcox Aquifer in Burleson and Lee counties have substantial differences. The differences in LPGCD and POSGCD rules and policies concerning the protection of property and a fair share doctrine would seemingly be the basis for the concerns raised by the LPGCD president during the 2022 Legislature interim hearings (Texas House Committee on Natural Resources, 2022, 4:34:42).

The decisions of the courts discussed in Attachment A suggest that the fair share doctrine applicable to mineral ownership and development, if applied to groundwater, will need to be modified to account for how groundwater differs from oil/ gas in both its source and uses. Policies regarding a fair share doctrine for groundwater property rights should therefore consider, among other factors, the following: (1) historic use; (2) provisions for future use because unlike oil and gas, it is replenished; (3) consequences caused by the use of groundwater, such as environmental impacts or land subsidence; (4) prevention of waste; (5) considerations for groundwater's many uses from irrigation and industry to drinking and recreation; and (6) just compensation for a possible taking. Both POSGCD and LPG-CD have comparable rules that address several of these items, including well spacing, achievement of the DFCs, the prevention of waste, consideration of environmental impact, and land subsidence. For this paper, we have focused on noticeable differences between the POSGCD and LPGCD rules as related to protection and production of groundwater. The comparison is based on GCD rules that were in existence at the time of the legislative interim hearings in 2022. Since that time, LPG-CD, POSGCD and BVGCD have adopted and are considering additional rule changes (BVGCD, 2023; LPGCD, 2023; POSGCD, 2023a).

- Historical use: POSGCD rules recognize historical production and provide greater protection than do the rules for non-historical production permitted since the creation of POSGCD. LPGCD rules do not provide for permitting of historic use.
- 2. Fair opportunity to extract groundwater: POSGCD rules recognize a correlative right of 2 af/yr per acre assigned to the permit to as the maximum annual production associated with a permit. The 2 af/yr/ac production rate was adopted by POSGCD primarily to accommodate

irrigation needs for agricultural use but extends to all types of permitted use to provide the same property right regardless of usage. LPGCD does not use a correlative right approach in its rules or permitting decisions. LPG-CD requires the applicant to prove the amount needed for the intended use. The applicant then negotiates with district staff to agree on a permit amount. If accepted, the application is then sent to the LPGCD board for approval, or the applicant, if unsatisfied, can request a contested case hearing.

- 3. Reductions in authorized production to prevent unreasonable impacts: POSGCD adopted rules regarding unreasonable impacts to help protect and protect the groundwater levels at the property boundary near large capacity well fields. These rules augment POSGCD well spacing rules and are intended to discourage a permittee from disproportionately concentrating production within a small portion of the permitted acreage near the property boundary.
- Well assistance/mitigation: Throughout Texas, some per-4.mit applicants have voluntarily created mitigation programs to address impacts to existing wells. In POSGCD, mitigation programs with a specifically targeted set of landowners were created and executed by the permittees for the Vista Ridge, Blue Water 130, and Sandow Lakes Properties Projects. As previously discussed, POSGCD began using these funds to establish GWAP in 2018. In LPGCD, Recharge Water LP agreed that the issued permits would require funding a well mitigation program that can be accessed after Recharge Water LP begins production. During the House testimony, the LPGCD president explained that LPGCD had started a program to reimburse well owners for their mitigation efforts but had terminated it after being threatened with litigation by an attorney. At the time of the hearing, LPGCD had no mitigation program similar to POSGCD's GWAP (Texas House Committee on Natural Resources, 2022, 4:29:46).

The comparison of the two sets of GCD rules illustrates the significant differences in how POSGCD and LPGCD were managing and regulating groundwater resources in 2022. The differences occurred despite the two GCDs overlying the same aquifers and the TWC requirements to use best available science in rulemaking and to protect property rights. The notable differences in rules between the two GCDs likely causes landowners in both GCDs to question whether their GCD is appropriately protecting their property rights when a large well field is permitted near their well(s). In the case of the Vista Ridge well field, a disproportionate number of LPGCD landowners as compared to POSGCD landowners vocalized their discontentment with the Vista Ridge Project. Based on testimonies, the LPGCD president's and LPGCD landowners' concerns go

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beyond the lack of a well assistance program like POSGCD and includes several of the components of a fair share doctrine for groundwater that have been previously discussed.

Emerging Issues

As the demand for groundwater in central Texas increases, the question of how to balance property rights and manage groundwater production and protection will grow increasingly more contentious. The evolution of statutes and rules related to protecting property rights could address a number of issues, including the following:

- Whether the courts will apply the fair share doctrine to their evaluations of production authorizations and permits;
- What role the Legislature will play in outlining the authority of groundwater districts to regulate; and
- How GCD rules will evolve to strike an appropriate balance between producing and protecting the groundwater with appropriate consideration for the protection of historical use, current use, and future use, while recognizing the vested property rights of the landowners and a responsibility to meet the needs of the state.

Balance the Conservation and Development of Groundwater to Meet the Needs of the State

TWC § 36.0015 (b) tasks GCDs with the responsibility to balance the conservation and development of groundwater to meet the needs of the state of Texas. This responsibility overlaps with responsibilities in TWC § 36.108 (d-2), which requires GMAs to adopt DFCs that "must provide a balance between the highest practicable level of groundwater production and the conservation, preservation, protection, recharging, and prevention of waste of groundwater and control of subsidence in the management area" (TWC § 36, 2023, § 36.108 (d-2)). This section discusses some of the challenges faced by GMAs and GCDs when achieving these balancing requirements.

Overview of the Joint Planning Process

The joint planning process requires GMAs to adopt DFCs every 5 years. TWC § 36.001 defines DFCs as a "quantitative description, adopted in accordance with Section 36.108, of the desired condition of the groundwater resources in a management area at one or more specified future times" (TWC § 36, 2023, § 36.001 (30)). TWDB equates a DFC as a representation of "a management goal that captures the philosophy and policies addressing how an aquifer will be managed" (Mace et al., 2006, p. 3; Mace et al., 2008, p. 3). After a GMA adopts its DFCs, TWC § 36.1084 (b) requires TWDB to determine a

MAG for each management area that the districts have adopted a DFC (<u>TWC § 36, 2023</u>). A MAG is defined as "the amount of water that may be produced on an average annual basis to achieve a desired future condition established under Section 36.108" (<u>TWC § 36, 2023, § 36.001 (25)</u>). The MAGs are then incorporated into regional water plans and used to determine future available water and as part of the evaluation to determine if a water project is eligible for financial assistance from the State Water Implementation Fund for Texas (SWIFT).

Consideration of Permitted Production as a Factor When Developing DFCs

Like many other GMAs, GMA 12 used GAM simulations to predict drawdown impacts caused by different future pumping scenarios to help evaluate DFCs. After 20 GAM simulations, GMA 12 selected Run S-19 in November 2021 for developing and justifying DFCs (<u>Daniel B. Stephens & Associates et al.</u>, 2022; <u>POSGCD</u>, 2023b). Most of the GMA 12 future pumping scenarios, including Run S-19, were based on a combination of permitted and anticipated pumping.

Prior to adopting GAM Run S-19, POSGCD discovered that GAM simulations that incorporated Vista Ridge's full permitted production of 15,000 af/yr from the Carrizo Aquifer predicted what POSGCD deemed as an undesirable amount of drawdown in about 140 Carrizo Aquifer wells in Burleson County (INTERA Incorporated, 2020; INTERA Incorporated, 2021a, 2021b; POSGCD, 2021b, 2021c; Wise, 2021). To reduce the Vista Ridge pumping to a level that would achieve a balance between development and conservation, POSGCD proposed to GMA 12 that Vista Ridge reduce Vista Ridge maximum production in the Carrizo Aquifer from 15,000 af/yr to about 9,000 af/yr, in the GAM, so that the maximum total Carrizo Aquifer production in POSGCD would be reduced from 18,200 af/yr to about 12,000 af/yr (INTERA Incorporated, 2021a). During their meeting on January 15, 2021, GMA 12 voted 4-1 (with POSGCD opposing) to not only to maintain Carrizo Aquifer pumping rate in the GAM simulations at 15,000 af/yr for the Vista Ridge Project but to keep that pumping rate until 2070, which is 18 years beyond when the 40-year Vista Ridge permit expires (GMA 12, 2021).

To justify their request to represent Vista Ridge Carrizo Aquifer production as 9,000 af/yr in the GAM simulations instead of the permitted production of 15,000 af/yr, POSGCD (2021a, 2021b) argued that: (1) there are no requirements in the TWC to include all permitted production in the GAM DFC simulations; (2) POSGCD had developed DFCs for the Carrizo-Wilcox Aquifer primarily using spreadsheet calculations with minimal reliance on GAM simulations and permitted production amounts in previous joint planning cycles; (3) the GAM simulations predicted that Vista Ridge's production of 15,000 af/yr from the Carrizo Aquifer would lower water 44

Case Study of Groundwater Management Issues at the Forefront of Large-scale Production from a Confined Aquifer: The Vista Ridge Project

levels below pump elevations in an objectionable number of exempt wells; and (4) a reduction in the drawdowns simulated from a Vista Ridge production amount of 15,000 af/yr from the Carrizo Aquifer is warranted in order to achieve the balance required in TWC § 36.108 (d-2) (<u>POSGCD, 2021b</u>, <u>2021c</u>; <u>Wise, 2021</u>).

During 2020 and 2021, GMA 12 had multiple discussions about whether all of Vista Ridge Project permitted production in the Carrizo Aquifer should be included in GAM DFC simulations. Several GCDs voiced concerns about legal action from Vista Ridge if GMA 12 did not include the full Vista Ridge production. Both BVGCD (2021) and Vista Ridge Blue Water (Terrill & Waldrop, 2020) sent letters to POSGCD to explain the rationale for keeping the Vista Ridge Carrizo Aquifer production at 15,000 af/yr in the GAM simulations. Below are excerpts from their letters:

"To that end, it is essential that the 15,000 acre-feet of known, permitted Carrizo Aquifer production for the Vista Ridge Project be included in the model input in this DFC/MAG planning cycle to comply with the legal requirements of Chapter 36" (Terrill & Waldrop, 2020). "The desired future conditions ('DFCs') adopted under Section 36.108 of the Texas Water Code, are a joint planning tool of the management area that must include in its planning numbers the groundwater permits issued by each groundwater district that are currently in effect, as well as known production. ... The request of Post Oak Groundwater Conservation District (POSGCD) to use a Groundwater Availability Model ("GAM") run that does not include all known permitting and production in all districts is not only troubling for transparency and accuracy issues, but also for the precedence that it sets in the GMA of not acknowledging each district's local permitting. Although POSGCD this time is voluntarily asking GMA 12 to disregard permits that it has issued, it is concerning that the precedent would be set for the permits issued by the constituent districts to be involuntarily disregarded by the GMA in the future" (BVGCD, 2021).

Consideration of Local Socioeconomic Impacts from the Groundwater's Area of Origin When Developing DFCs

The TWC lists two key requirements for developing DFCs. TWC § 36.108 (d) states that the districts shall consider nine factors when developing the DFCs, and TWC § 36.108 (d-2) states that DFCs "must provide a balance between the highest practicable level of groundwater production and the conservation, preservation, protection, recharging, and prevention of waste of groundwater and control of subsidence" (TWC § 36, 2023, § 36.108 (d-2)).

During the House and Senate public hearings concerning Vista Ridge and during GMA 12 meetings, LPGCD landowners expressed concerns that GMA 12 was not adequately considering the nine factors. A specific concern was an alleged inadequate consideration of the socioeconomic impact to existing exempt wells and specifically those wells near Vista Ridge. As discussed in a recent Environment Defense Fund report (<u>Rubinstein & Puig-Williams, 2023</u>), GMA 12 and most other GMAs met the TWC requirement for considering the socioeconomic impacts by presenting the TWDB socioeconomic impacts for regional water planning groups, which focuses on the impacts of not meeting the identified water needs in their regional water plans.

A criticism of using the TWDB socioeconomic analysis is that it does not address the socioeconomic impacts associated with declining aquifer levels from increased groundwater pumping and drought, which can result in local socioeconomic consequences, such as impacts to groundwater wells or aquifer interactions with surface water. As a result, the TWDB analysis is not directly applicable for evaluating the differences in socioeconomic impacts associated with different DFCs, including impacts to existing wells. An alternative or supplement to using the TWDB socioeconomic analysis is one that considers localscale impacts resulting from the water level changes predicted by the DFC GAM simulation. One such approach is discussed by Thompson et al. (2020), who describe a methodology that includes evaluating the increased costs associated with lowering pumps, replacing pumps, and operating pumps as water levels in existing wells decline over time because of regional pumping. When POSGCD (POSGCD, 2021b, 2021c) presented their case to GMA 12 to reduce the Vista Ridge Carrizo Aquifer pumping in the GAM simulations, their evaluation was similar to that of Thompson et al. (2020). POSGCD predicted drawdowns at existing wells and identified wells where pumps would require lowering to maintain the productivity of the well. The approaches used by Thompson et al. (2020) and POSGCD for assessing local-scale drawdown-related socioeconomic impacts at individual wells is straightforward and provides the type of information that well owners can understand.

Put another way, the socioeconomic impact analysis currently undertaken by GMA 12 and other GMAs thus far is a one-way consideration of how insufficient additional water supply development impacts the area of need. As reflected in this paper, and certainly a central consideration, the impacts to the area of the groundwater origin must be recognized and quantified as part of a proper assessment of overall socioeconomic impacts. Although not comprehensive, the evaluations conducted by POSGCD and Thompson et al. (2020) provide a mechanism to help recognize local-scale impacts that have been largely ignored by GMA 12 and other GMAs.

Emerging Issues

Among the emerging questions at the forefront of groundwater management issues with TWC § 36.108 (d-2) are:

- What are reasonable criteria for defining a "highest practicable level of groundwater production"?
- What are reasonable criteria for evaluating whether DFCs provide a balance between the opposing objectives of production and protection of groundwater?
- Should the evaluation of the balance requirement be determined piecemeal by each GCD or globally by the GMA?

Possible drivers in evaluating balance requirements in TWC § 36.108 (d-2) are considerations for the nine factors per TWC § 36.108 (d), a fair share doctrine applicable to groundwater, and mitigation programs. The last issue may be fast approaching some GMAs, including GMA 12. Within 5-10 years, GMA 12 may have at least three additional well fields besides the Vista Ridge's well field that are within a few miles of a GCD boundary, exporting groundwater outside of GMA 12. These three known projects will export groundwater to a Samsung plant in Taylor, Texas, and to the cities of Georgetown, Hutto, and Manor. The transport permits for all four water supply projects will likely exceed 110,000 af/yr-thus, the fees associated with the passage of HB 3059 during the 88th legislative session could be substantial. HB 3059 authorizes a GCD to use fees collected from the export of water to maintain the operability of wells significantly affected by groundwater development, develop and distribute alternative water supplies, or conduct aquifer monitoring, data collection, or science (Kirkle et al., 2023). An emerging issue that will impact the functionality among GCDs in a GMA is how the GCDs decide to share fees authorized by HB 3059 with their neighboring GCDs and whether well owners believe that their GCDs are adequately funding the mitigation of impacted wells.

During the third joint planning cycle that was completed in January 2022, subtle but significant changes occurred in how GMA 12 developed its GAM simulation for DFC evaluations compared to previous joint planning cycles. One change was a greater emphasis on representing permitted production in the GAM simulation for evaluating and developing DFCs. Another change was to not allow POSGCD to determine how to represent its permitted production in the GAM simulations. During the first two joint planning cycles, GMA 12 allowed all GCDs to unilaterally determine how to represent their permitted production in the GAM simulations. Although we can only speculate why these two changes occurred, the GMA 12 meetings provide ample evidence that a motivation for these two changes were concerns of a takings claim by the Vista Ridge Project and other water supply projects if their permitted production were not adequately accounted for in the MAG

values determined by TWDB. The use of GAM Run S-19 to develop DFCs for GMA 12 raises several questions about the joint planning process, which include:

- Is there a point where the DFC process can become over-reliant on GAM simulations given the inherent limitations and deficiencies of GAMs?
- Under what circumstances, if any, should individual production permits be treated differently in generating future pumping scenarios used in GAM simulations to develop DFCs?
- Was GMA 12's veto of POSGCD's request to underrepresent the Vista Ridge Carrizo Aquifer production in the GAM simulations appropriate given the requirements in TWC § 36.108 (d) and TWC § 36.108 (d-2)?

Communicating the Use of Best Available Science

During the 2022 Senate and House interim hearings, there were several inferences that bad science may have contributed to some well owners being caught off guard by the large drawdowns associated with Vista Ridge production. This section discusses the science relevant to DFCs, MAGs, impacts caused by Vista Ridge production in GMA 12, uncertainty associated with the GAM predictions, and the importance of good communication of the science to policy makers and the public.

Potential Benefits from Presenting the Spatial and Temporal Distributions of Simulated Drawdowns and Water Levels Associated with GAM Simulations Used to Develop DFCs

In GMA 12, as in some other GMAs, creating DFCs has evolved into a process where the pumping rates used in GAM simulation for DFC evaluations are based on existing and anticipated operational permits. Because they incorporate numerous permits across a GMA, the output from these simulations, if analyzed and visualized properly, could provide valuable information for areas with the greatest adverse impacts to groundwater levels and surface water flows. The Vista Ridge Project is included in most of GMA 12 GAM simulations, including Run S-19. Run S-19 therefore contains information about the spatial and temporal distributions of simulated drawdowns that is potentially useful for planning and anticipating future impacts to existing wells.

Figures 6–9 have been generated to show how much greater and quicker drawdowns can occur in the localized area around the Vista Ridge Project compared to the timing and magnitude of a DFC at a regional scale. Figure 6 shows the contours of drawdowns that are predicted to occur in 2011–2070 in the Carrizo and Simsboro aquifers within about 35 miles of the

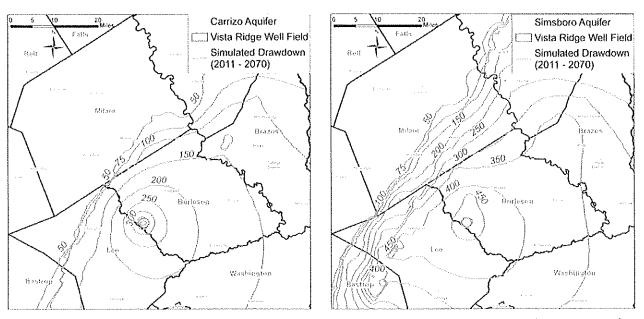


Figure 6. Contours of simulated drawdown from January 2011 to January 2070 for the Carrizo and Simsboro aquifers based on Groundwater Availability Model Run S-19.

Vista Ridge well field. The contours indicate that drawdowns greater than 300 and 450 ft occur in the Carrizo and Simsboro aquifers, respectively. Figure 7 displays charts of the Simsboro Aquifer spatial distribution of drawdown as a function of aquifer area distributions for POSGCD and LPGCD. For both POSGCD and LPGCD, charts show: (1) only 15% of the Simsboro Aquifer area has predicted drawdowns within 50 ft of the DFCs; (2) more than 33% of the Simsboro Aquifer area has drawdowns greater than 100 ft than the DFCs; and (3) drawdowns greater than 500 ft occur in both POSGCD and LPGCD. Figure 8 shows that after 4 years of Vista Ridge production, more than one-third (33%) of the Simsboro and Carrizo aquifers' DFCs would be "achieved" in Lee and Burleson counties. This means that 33% of the average drawdown that was planned to occur in 59 years would occur in only 4 years, 2020-2023. Figure 9 shows that approximately 180 Carrizo Aquifer wells and 30 Simsboro Aquifer wells would experience more than 100 ft of drawdown after 3 years of Vista Ridge pumping.

If these types of figures were regularly discussed in GMA 12, landowners in Lee County would have known that the large drawdowns they experienced in 2021 and 2022 were predicted by the GAM simulations. Besides providing information that could help attract well owners to the DFC process, illustrations of spatial and temporal distributions of predicted drawdown could provide information to better assist general managers and board members of GCDs to manage, plan, and regulate the groundwater production and mitigate well impacts.

Recognition of Uncertainty in GAM Predictions of Drawdowns and DFCs

Because of the large size of many GAMs (for instance, the GAM for the central portion of the Carrizo-Wilcox Aquifer covers more than 26,000 square miles), GAMs often have a wide variation in the types, quality, and amount of data used to develop and calibrate different modeled areas. As a result, a GAM's predictions of water level change will often contain different degrees of uncertainty and error for different areas of interest.

The GAM currently being used by GMA 12 for the Carrizo-Wilcox Aquifer was developed in 2020 (Young et al., <u>2020</u>). This GAM was developed in response to concerns by GMA 12 about the suitability of using a GAM (Young et al., 2018) that was developed in 2018 prior to any data regarding the impacts that the large production from Vista Ridge would have on groundwater resources. These concerns included: (1) historical water levels from only one Simsboro Aquifer well in Burleson County was used in calibrating the model; (2) the maximum annual production from the Simsboro Aquifer in Burleson County during the GAM calibration period was only 140 af/yr, which is too low a production rate to validate the GAM's capability to predict drawdown caused by production of 35,000 af/yr; and (3) the GAM calibration did not incorporate the simulation of the nine Simsboro Aquifer pumping tests conducted by Vista Ridge. As a result of these concerns, GMA 12 performed a recalibration of the 2018 GAM to create

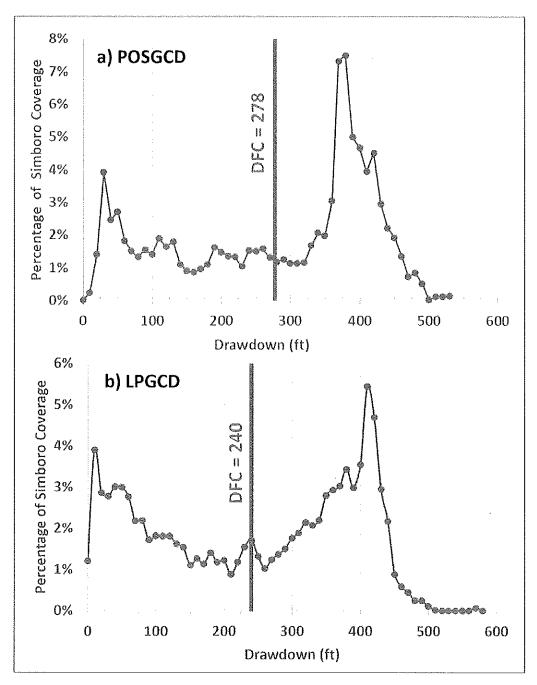


Figure 7. Distributions of the Simsboro Aquifer drawdowns simulated by Run S-19 that are used to determine the desired future conditions for Post Oak Savannah Groundwater Conservation District (POSGCD) and Lost Pines Groundwater Conservation District (LPGCD). Note the bin size for the x-axis is 10 feet (ft).

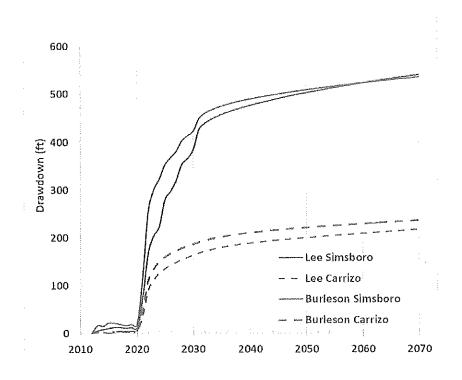


Figure 8. Evolution of the average drawdown calculated from Run S-19 for the Simsboro and Carrizo aquifers in Burleson and Lee counties.

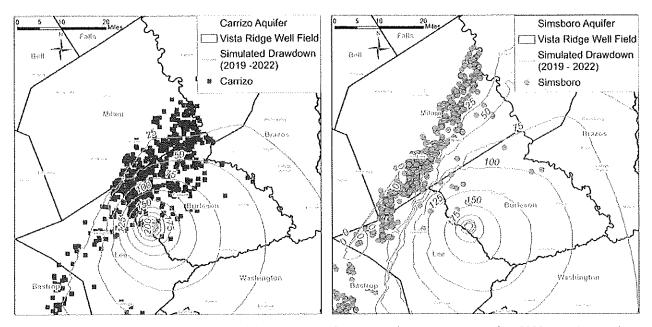


Figure 9. Contours of drawdowns simulated from Run S-19 from December 2019 to December 2022 superimposed on the locations of exempt wells in the Lost Pines and Post Oak groundwater conservation districts database for the Carrizo and Simsboro aquifers.

Table 2. Comparison of the average drawdown predicted in Lost Pines Groundwater Conservation District (LPGCD) and Post Oak Savannah Groundwater Conservation District (POSGCD) from 2011 to 2070 based on Groundwater Availability Model (GAM) Run S-19 and on a GAM simulation with the same annual pumping equally distributed across the groundwater conservation districts (GCDs) by aquifer.

| GCD | Aquifer | MAG ¹ (acre- feet per year) | Average drawdown (feet) 2011–2070 based on pumping distribution | |
|--------|----------|---|---|--|
| | | | Based on Run S-19 | Based on distributing pumping from Run S-19 across the entire aquifer by county |
| LPGCD | Carrizo | 12,980 | 134 | 49 |
| | Simsboro | 79,945 | 238 | 61 |
| POSGCD | Carrizo | 18,206 | 146 | 56 |
| | Simsboro | 79,422 | 236 | 87 |

the 2020 GAM. The 2020 GAM was developed using both a regional-scale calibration using historical water levels from 1930 to 2010 across the entire model domain and a series of local-scale calibrations using 36-hour pumping tests performed at each of the nine Simsboro Aquifer wells. A major change effected by the recalibration was doubling the Simsboro Aquifer transmissivity values from about 7,000 square feet per day (ft²/day) to about 15,000 ft²/day in the vicinity of the well field for the Vista Ridge Project (Daniel B. Stephens & Associates et al., 2020).

Realizing the importance of calibrating GAMs at both local and regional scales for improved GAM predictions, POSGCD has an ongoing program to improve the calibration for the central portion of the Carrizo-Aquifer GAM by using the calibration software called PEST++ (White et al., 2020), which helps quantify uncertainty in predictions of drawdowns. Figure 10 shows the uncertainty in the prediction of the POSGCD DFCs for the Simsboro Aquifer using GMA Run S-12, which preceded Run S-19 after the GAM recalibration had been expanded to include simulating the evolution of the drawdown cone case by Vista Ridge production from 2020 to 2021. The drawdown results in Figure 10 were generated from the statistics of 100 runs and average 292 ft with standard deviation of about 11 ft (Young et al., 2021). The prudent application of PEST++ offers considerable promise in helping GCDs understand predictive uncertainty and how to reduce it. An example of applying PEST++ to quantify predictive uncertainty is provided by Ellis et al. (2023), who document the development and application of the Gulf Coast Land Subsidence and Groundwater-Flow (GULF) groundwater model for GMA 14.

Understanding the Limitations of Modeled Available Groundwater as an Indicator for Assessing the Achievement of Desired Future Conditions

After the Vista Ridge Project began pumping in 2020, several landowners in POSGCD became concerned that the permitted production and the actual production volumes from the Carrizo and Simsboro aquifers in POSGCD were greater than the respective MAG for each aquifer. These concerns were expressed during GMA 12 meetings and were part of an inquiry submitted to the Texas Commission on Environmental Quality (TCEQ).

Table 2 shows the importance of pumping location to achieving a DFC. This demonstration involves performing a variation of Run S-19 by reallocating the annual pumping so that the total annual pumping in each GCD is distributed evenly across the entire GCD by aquifer. The reallocation was achieved by determining the annual amount of pumping per square mile per aquifer for each GCD then applying the rate for each respective GCD to each aquifer grid. This reallocation will cause the MAG to be spread uniformly across each aquifer in each GCD. The model results in Table 2 show that changing the location of the pumping while maintaining the MAG can reduce the value of a calculated DFC by about 60% for both the Carrizo and Simsboro aquifers. The results in Table 2, along with the understandings that GAMs are not perfect predictors of an aquifer drawdown and that the future hydrogeological conditions are unknown, are substantial reasons why a MAG may not be a reliable indicator of whether a DFC will be achieved if the MAG is pumped on an annual basis.

Emerging Issues

Because of HB 3059 becoming law and the potential importance of GAMs to GCDs' management decisions, an emerging issue will be the emphasis placed on developing GAMs for the purpose of improving their capabilities to support predictions of localized impact from pumping; evaluation of permit applications for production; development of mitigation strategies; evaluation of DFCs; and implementing curtailment of permitted production. A relatively recent advancement with constructing models that will greatly enhance the utility of GMA is using a groundwater code called MODFLOW 6 (Langevin et al., 2021). MODFLOW 6 allows submodels, which cover small areas of interest, to be built into a much larger regional model. GAMs built using MODFLOW 6 will allow GCD consultants to straightforwardly refine and recalibrate GAMs in one or more well fields of interest.

An emerging issue with groundwater management is improved coordination among GCDs in a GMA to coordinate and integrate their design monitoring of well networks, measurement of water levels, and evaluation of compliance with DFCs. Ideally, the GCDs in the same GMA should have similar, if not identical, methods for collecting data and evaluating DFC compliance. The inconsistency in how GCDs in a GMA collect and evaluate water level data for DFC compliance can only work against a GCD trying to demonstrate a DFC violation and the need for curtailment of production.

As the discussion continues regarding the need to improve the GAMs, it is necessary to acknowledge that, despite the known limitations with the current set of GAMs, the GAMs remain our best available science for developing DFCs and MAGs. Even with those limitations, GAMs may be reasonably good predictors of pumping impacts for some areas of interest. To better understand GAMs' potential limitations and how these limitations may be GMA- and problem-dependent, the issue of predictive uncertainty will likely become increasingly important. The importance of uncertainty is recognized by the U.S. Code (USC), which is the codification of the statutory laws of the United States. The USC Title 33 § 1321 (a) (27) (c) definition of "best available science" includes the requirement that it "clearly documents and communicates risks and uncertainties in the scientific basis for such projects" (USC 33 § 1321, 2023, § 1321 (a) (27) (C)). The importance of communicating risks and uncertainties is an important and emerging issue for GCDs to address soon as they adopt DFCs.

RECOMMENDATIONS

We, the authors, recognize that we each represent different groundwater-related points of view and skill sets. Among these are legal, hydrogeologic, and policy considerations. The purpose of writing this case study was, in our view, to review and learn from what has taken place in GMA 12 related to largescale water transfers, current joint planning and modeling limitations, real world impacts, and mitigation efforts. As noted in this paper, the 88th Legislature has recognized some of these limitations and impacts and has taken action to address some of these concerns. We welcome the recent legislative action including the enactment of HB 3059. In the spirit of continued improvement, informed by a retrospective review of what has taken place, and in this case, the lessons learned from the Vista Ridge Project, we offer recommendations that we feel could, in total or in part, assist in consideration of additional large-scale water transfers in other similarly situated parts of the state. We recognize that site- and case-specific considerations may differ. Thus, based on our review of the impacts of the Vista Ridge Project on groundwater management in GMA 12, we recommend that the following topics be considered for future discussions:

- Explore options for clarifying the language in TWC § 36 regarding the balance requirements in TWC § 36.108 (d-2) and TWC § 36.0015 (b) to help guide GMAs and GCDs with accomplishing the intent of the statute;
- Expand TWDB's role to authorize-only upon petition 2. by an affected landowner within a GCD-for TWDB to undertake a limited review of the explanatory report beyond an administrative review. An expanded review could include determining whether the GMA and the explanatory report have, in fact, (1) undertaken substantial review and applicability of the nine factors outlined in TWC § 36.108; (2) meaningfully and appropriately evaluated the "balance test" in TWC § 36.108 (d-2); and (3) adequately addressed the concerns and questions submitted to a GMA during the public comment period on the proposed DFCs. This recommendation recognizes the increased transparency requirements of GCDs in the development, consideration, and adoption of a DFC as enacted by the Legislature during the 88th legislative session as HB 3278. The review would not authorize TWDB to determine the appropriateness of the DFC, but rather to recommend additional data and analysis that should be considered by the GCD in developing a DFC under a process that has been, upon TWDB review, found to have not meaningfully considered the nine elements under the TWC;
- Provide TWDB with appropriate funding to support the development and improvement of the data and capability of GAMs to evaluate the environmental and localized socioeconomic impacts of proposed DFCs; and
- Provide GMAs with funding to improve communication of the science, improve public participation, and prepare explanatory reports that document a meaningful consideration of the nine factors in TWC § 36.108 (d).

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ATTACHMENT A: GROUNDWATER OWNERSHIP IN TEXAS

Although the rule of capture has been the law in Texas since 1904 and has been consistently described as a property right incident to ownership, the courts were never required to define the exact nature of the right until regulation of these rights became authorized through groundwater conservation districts. Beginning with Houston & T.C. Ry. Co. v. East (1904). the courts described the rule of capture as a right but never clearly defined when or if the right is a vested real property right protected by the constitutional prohibition against a governmental taking without compensation. In Houston & T.C. Ry. Co. v. East (1904), the Texas Supreme Court, citing New York law, stated: "So the owner of land is the absolute owner of the soil and of percolating water, which is a part of, and not different from, the soil" (Houston & T.C. Ry. Co. v. East (1904), p. 4). Similarly, in Pecos County, the El Paso Court of Appeals stated:

"It seems clear to us that percolating or diffused and percolating waters belong to the landowner, and may be used by him at his will . . . These cases seem to hold that the landowner owns the percolating water under his land and that he can make a non-wasteful use thereof, and such is based on a concept of property ownership" (*Pecos County Water Control & Improvement District No. 1 v. Williams*, 1954, p. 1).

The nature of the groundwater right and whether it was vested remained hotly debated yet unresolved until the Supreme Court's decision in *Edwards Aquifer Authority v. Day* (2012). On February 24, 2012, the Supreme Court issued a 50-page, unanimous opinion confronting and answering for the first time the question of whether a landowner's groundwater rights are a vested real property right protected by the Texas and U.S. Constitutions' prohibitions against uncompensated taking. The opinion begins with a succinct summary of the issue presented in the decision:

"We decide in this case whether landownership includes an interest in groundwater in place that cannot be taken for public use without adequate compensation guaranteed by Article 1, § 17(a) of the Texas Constitution. We hold that it does" (*Edwards Aquifer Authority v. Day*, 2012, p. 2).

The court noted that while it had never addressed the issue regarding groundwater, it had done so long ago with respect to oil and gas, to which the rule of capture also applies. The court, quoting its previous decisions, noted that the right to the oil and gas beneath a landowner's property is an exclusive and private property right inherent in landownership, which may not be deprived without a taking of private property.

The Supreme Court found that there was no basis in the differences cited between groundwater and oil and gas to con-

clude that the common law recognized a vested ownership of oil and gas in place but not groundwater. Specifically, the court explained:

"In our state the landowner is regarded as having absolute title and severalty to the oil and gas in place beneath his land. The only qualification of that rule of ownership is that it must be considered in connection with the law of capture and is subject to police regulations." The oil and gas beneath the soil are considered a part of the realty. Each owner of land owns separately, distinctly and exclusively all the oil and gas under his land and is accorded the usual remedies against trespassers who appropriate the minerals or destroy their market value.

We now hold that this correctly states the common law regarding the ownership of groundwater in place" (*Edwards Aquifer. v. Day*, 2012, p. 2).

The court cited the legislative revisions to TWC § 36.002 demonstrating the Legislature's understanding of the interplay between groundwater ownership and groundwater regulation.

The opinion in *Edwards Aquifer Authority v. Day* resolved decades of conflict concerning the nature of the ownership right held by landowners in groundwater in Texas. By applying the case law applicable to oil and gas, the Supreme Court has determined that groundwater is "owned in place" in *Edwards Aquifer v. Day* (2012, p. 9) by the landowner and that this ownership right can support a claim for uncompensated taking under the state and federal constitutions.

The Supreme Court further signaled that it would rely on its over 100 years of decisions applying the absolute ownership rule to oil and gas disputes in resolving groundwater issues in its decision in Coyote Lake Ranch LLC v. City of Lubbock (2016). The City of Lubbock had purchased and held the groundwater rights under the Coyote Lake Ranch for years. New owners of the property objected to plans announced by the city to drill 60+ wells on the ranch to produce and transport groundwater to the city. On review of a judgment favorable to the landowner, the Supreme Court determined that the severed groundwater right was, like a severed mineral interest, the dominant estate, with the right to use the surface to access the groundwater. However, the court ruled that, like in oil and gas law, the Accommodation Doctrine applied to the exercise of this right. In summary, this means the groundwater estate, in exercising it rights, must act with due regard for the surface owner's use.

This decision indicates that the courts will likely consider its decisions in disputes involving minerals on issues arising in groundwater disputes involving permitting. The ownership rights must be considered and addressed by groundwater districts in striking the appropriate balance between conserving and protecting the groundwater resources within their jurisdic-

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tion while recognizing the vested property rights of the landowners subject to regulation.

The courts' decisions make clear two fundamental principles: (1) that groundwater rights are a vested property right protected from governmental action that constitutes a taking of that right without just compensation; and (2) that the courts will consider case law in disputes involving oil and gas in deciding conflicts regarding groundwater.

Groundwater districts need to be mindful of the judicial precedents established in evaluating oil and gas regulatory programs and impacts on landowners' vested rights in the minerals below ground. One important and likely relevant concept is that regulation cannot unreasonably deprive the landowner of their fair share of the managed resource (<u>Atlantic Refining Co. n.</u> <u>Railroad Commission, 1961</u>). While the goals and consequences of groundwater management are distinctly different than in mineral development, the courts will consider oil and gas precedents in deciding whether regulatory decisions made by groundwater districts limit the landowners' groundwater ownership rights to the extent that a constitutionally prohibited taking has occurred.

This tension is particularly acute when districts protect existing use by limiting or preventing future use. The Rule of Capture, as a legal principle, provides no protection for historic use. Landowners who have conserved the resource by not producing from it can have their rights limited to protect the resource and historic use, but the courts will consider oil and gas decisions in determining if limiting those rights rises to the level of a taking. At the same time, they must consider how the goals of groundwater regulation differ from the goals of regulation of oil and gas. As the Supreme Court noted in *Edwards Aquifer Auth. v. Day* (2012):

"The principal concerns in regulating oil and gas production are to prevent waste and to provide a landowner a fair opportunity to extract and market the oil and gas beneath the surface of the property. Groundwater is different in both its source and uses. Unlike oil and gas, groundwater in an aquifer is often being replenished from the surface, and while it may be sold as a commodity, its uses vary widely, from irrigation, to industry, to drinking, to recreation. Groundwater regulation must take into account not only historical usage but future needs, including the relative importance of various uses, as well as concerns unrelated to use, such as environmental impacts and subsidence" (*Edwards Aquifer Auth. v. Day*, 2012, p. 18).

How this balance will be struck will be the subject of future court decisions.

Laura Martin

From: Sent: To: Cc: Subject:

Follow Up Flag: Flag Status: Texas Alliance of Groundwater Districts <TAGD@wildapricot.org> Friday, August 16, 2024 12:36 PM Laura Martin Haley Stakes Monday Field Trip: Important Information

Follow up Completed

Dear Laura,

We're excited that you've registered for the pre-conference educational field trip to the San Antonio Water System (SAWS) H2Oaks Center, taking place from 12:30-4:30 pm on Monday, August 19, the day before the Texas Groundwater Summit begins. This is a unique opportunity to explore one of the most innovative water facilities in Texas. Click <u>here</u> to learn more about the facility.

Note: We do still have a few spots available! Any interested colleagues can register <u>here</u>.

Field Trip Team:

- Blaire Parker is the SAWS representative for the field trip and will be on the bus available for any SAWS-specific questions. Thanks to Blaire and other SAWS staff for coordinating this opportunity and providing transportation and snacks!
- Kelley Cochran, TAGD Parliamentarian and General Manager of Guadalupe County GCD, will serve as the TAGD liaison and field trip "captain." Make sure to check in with her when you arrive.

Logistics & Details:

- **Meeting Spot:** Please meet at the Windmill Motor Court Foyer at 12:30. Our field trip team will be there to greet you and get everyone on the bus. See a map of the hotel with the meeting space circled <u>here</u>.
- **Transportation:** We will be providing transportation from the Hyatt Regency Hill Country Resort to the H2Oaks Center and back.
- **Refreshments:** While lunch will not be provided, snacks and drinks will be available upon our arrival at the H2Oaks Center.
- Registration: If anyone else from your organization would like to join and hasn't registered yet, we still have a few spots left. Please encourage them to sign up by clicking the yellow "Register" button <u>here</u>.

Helpful Tips:

- Please bring a refillable water bottle if you would like to enjoy water during your visit.
- Wear comfortable, closed-toe walking shoes, and dress appropriately for the weather. While most of our time will be spent indoors, there will be some walking around the facility.
- Restroom facilities will only be available on the bus and at the H2Oaks Center, so please plan accordingly.

We look forward to seeing you on Monday for what promises to be a fun and educational experience! If you have any questions before the trip, feel free to reach out. However, TAGD staff availability will be limited on Monday, so for any last-minute questions or updates on that day, please email <u>blaire.parker@saws.org</u>, <u>kelley@gcgcd.org</u>, AND <u>summit@texasgroundwater.org</u> so your issue can be handled accordingly.

Thank you,

The TAGD Team



AGENDA

Monday, August 19 – Optional field trip add-on to San Antonio Water System H2Oaks Center

Day 1 – Tuesday, August 20

| 8:30am | Registration Table Opens |
|------------------|---|
| 9:30am – 11:00am | TAGD Annual Membership Meeting |
| 1:00pm – 3:00pm | Welcome Address Adam Foster, Executive Director, Texas Alliance of Groundwater Districts |
| | Groundwater Rights in Texas Charles Porter, Real Estate & Water Rights Consultant |
| | Panel - Playing by the Rules: GCD Violations & Enforcement Moderator: Drew Satterwhite, General Manager, Canadian River Municipal Water Authority John Martin, General Manager, Southeast Texas GCD Dave Mauk, General Manager, Bandera County River Authority & Groundwater District Stacey Reese, Attorney, Stacey Reese Law Patrick Wagner, General Manager, Middle Trinity GCD |
| | Hydrogen Energy Value Chain and Impacts on Water Ning Lin, Center for Energy Economics Chief Economist, Bureau of Economic Geology |
| 3:00pm – 3:30pm | Afternoon Break (Sponsored by Edwards Aquifer Authority, Halff Associates, and McElroy Sullivan Miller & Weber LLP) |
| 3:30pm – 5:15pm | Keynote Address – Communication: The Last Frontier in Science Dr. "Hurricane Hal" Needham, Extreme Weather and Disaster Scientist, GeoTrek |
| | Panel - All the Small Things: Studying & Managing Minor Aquifers Moderator: Amy Bush, Hydrologist, RMBJ Geo Natalie Ballew, Groundwater Division Director, Texas Water Development Board Blaine Hicks, Staff Geologist, Upper Trinity GCD Bill Hutchison, Independent Groundwater Consultant Kevin Urbanczyk, Director of Rio Grande Research Center, Sul Ross State University |
| 5:15pm – 6:15pm | Welcome Reception (Sponsored by Brazoria County GCD) |



Day 2 – Wednesday, August 21 (continued)

| 1:30pm – 3:00pm | Breakout Track B – Waste Not, Want Not: Advancements in Produced Water Reuse |
|-----------------|---|
| | Critical Minerals in Produced Water |
| | Brent Elliott, Associate Research Professor, Bureau of Economic Geology |
| | Land Application of Produced Water |
| | Adrianne Lopez, Technical Research & Development Manager, Texas Pacific |
| | Water Resources |
| | New Rules for Oil & Gas Waste Pits and Recycling Facilities |
| | Virginia Palacios, Executive Director, Commission Shift |
| 1:30pm – 3:00pm | Breakout Track C – Navigating the Intersections of Local Regulation |
| 1.30pm - 3.00pm | Primer on the PUC and Water Providers |
| | Adam Friedman, Partner, McElroy Sullivan Miller & Weber LLP |
| | Annexation and CCN Issues |
| | Emily Rogers, Managing Partner, Bickerstaff Heath Delgado Acosta LLP |
| | Opportunities in Subdivision Regulation |
| | Marisa Bruno, Water Program Manager, Hill Country Alliance |
| | Mansa Brano, Water Program Manager, Thi Country Amance |
| 3:00pm – 3:30pm | Afternoon Break (Sponsored by Edwards Aquifer Authority, Halff Associates, and McElroy |
| o.oopin o.oopin | Sullivan Miller & Weber LLP) |
| | |
| 3:30pm – 5:00pm | <u> Breakout Track A (repeat) – Fundamentals of Groundwater Management</u> |
| | Basics of Bottom-Up Water Planning in Texas |
| | Robert Bradley, Groundwater Technical Assistance Manager, Texas Water |
| | Development Board |
| | Demystifying GCD Permitting |
| | Jake Steen, Attorney, Lloyd Gosselink Rochelle & Townsend |
| | Anatomy of a Well |
| | Joel Pigg, Texas Well Owner Network Coordinator, Texas A&M AgriLife Extension |
| | |
| | Breakout Track B – Local Science Developments |
| | Hydrostratigraphic Model of the Trinity Aquifer for a Portion of Central Texas |
| | Vince Clause, Texas Groundwater Lead, LRE Water |
| | San Solomon Springs Studies |
| | Rebecca Nunu, Principal Geoscientist, Edwards Aquifer Authority |
| | Planning, Leadership, and Science: Developing the Bandera Well Longevity Model |
| | James Golab, Innovative Water Technologies Manager, Texas Water Development Board |
| | |
| 3:30pm – 5:00pm | Breakout Track C – Leading Them to Water: Effective Public Outreach |
| | Applying Adult Learning Strategies for Better Engagement |
| | Amy Hays, Assistant Director of Development & Outreach, Oka Water Institute |
| | Outreach by Meeting People Where They're At |
| | Greg Wukasch, External Affairs Manager, San Antonio Water System Making a Splash With Storytelling |
| | Waking a Spiach With Storytolling |
| | Leah Cuddeback, Storytelling & Public Engagement Manager, Hill Country Alliance |

2024 TEXAS GROUNDWATER SUMMIT

Hyatt Regency Hill Country • San Antonio, TX • August 20-22

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Day 2 - Wednesday, August 21 (continued)

- **5:00pm 6:00pm Happy Hour Reception** (Sponsored by INTERA)
- 8:00pm 10:00pm Drinks & Desserts Networking Event (Sponsored by Real Edwards Conservation & Reclamation District)

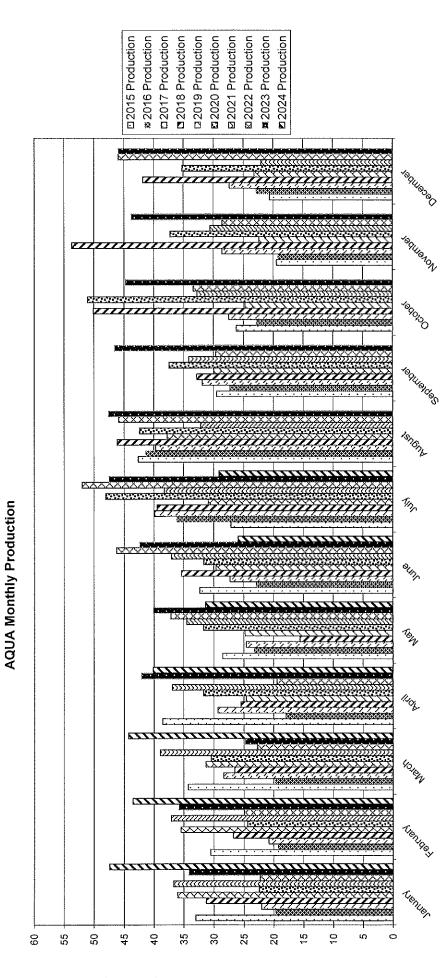
Day 3 - Thursday, August 22

| 7:45am – 8:15am | Breakfast Taco Bar (Sponsored by Olsson and Upper Trinity GCD) |
|------------------|---|
| 8:15am – 10:00am | Welcome Adam Foster, Executive Director, Texas Alliance of Groundwater Districts |
| | Panel - Emerging Management Issues for Large-Scale Production Permits Moderator: John Dupnik, Deputy Executive Administrator, Texas Water Development Board |
| | Russell Johnson, Partner, McGinnis Lochridge LLP |
| | Laura Martin, General Manager, Gonzales County UWCD |
| | Carlos Rubinstein, Principal, RSAH2O |
| | Steve Young, Principal Geoscientist, INTERA |
| | Panel – Groundwater Crossroads: Perspectives From Agriculture, Ranching, and Wildlife |
| | Moderator: Jim Bradbury, Partner, James D. Bradbury PLLC |
| | Andrew Earl, Director of Conservation, Texas Wildlife Association |
| | David Gibson, Executive Director, Texas Corn Producers |
| | James Oliver, Board Member, Texas & Southwestern Cattle Raisers Association |
| 10:00-10:30 am | Morning Break (Sponsored by Edwards Aquifer Authority, Halff Associates, and McElroy Sullivan Miller & Weber LLP) |
| 10:30-12:15pm | Current Legal Issues - Litigation and GCD Action Appeals |
| | Greg Ellis, Attorney, GM Ellis Law Firm Deborah Trejo, Partner, Kemp Smith Law |
| | Head Above Water: How Professionals Can Avoid Burnout (1-Hour Ethics) |
| | Paul Jacobs, Staff Attorney, Texas Lawyers' Assistance Program |

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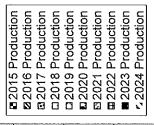


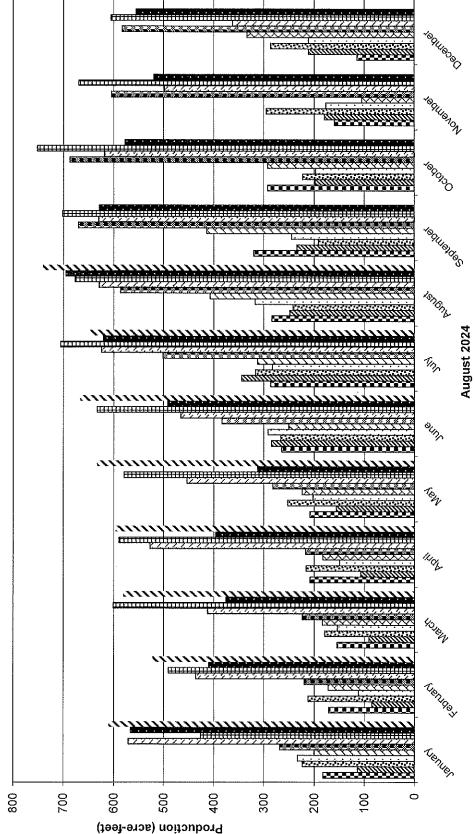
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| 1388.570 14,146 15,974 15,974 15,974 15,976 15,7786 17,738 15,7785 15,7785 37,7785 37,7785 37,7785 37,7785 37,7785 37,7785 37,7785 37,7785 37,7785 37,7785 37,7785 36,5553 37,7785 36,5553 37,7785 36,5556 37,7785 36,5565 37,778 36,5565 37,778 36,5565 37,778 36,5565 37,778 36,5565 37,778 36,5565 37,778 36,5565 37,778 36,5565 37,778 36,5565 37,778 36,5565 37,778 36,5565 36,778 36 | line line | 1,384,411 | | 1,611,866 | | 2,195,686 | | 1,621,301 | | | | | 1.1 | 006,457 | F | 084,196 | | 1.797.787 | | 537.782 | |
| | | | 14,146 | | 15,974 | | 18,286 | | 16.001 | <u>ور</u> | 17,986 | | 19.744 | | 20.738 | | 20.948 | | 5 E.C. | | 12 624 |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | ay | 1,398,970 | | | | 2,215,313 | | | | | - | 1 | 1 | 327.884 | <u></u> . | 108.715 | | 1.836.559 | - | 552.253 | Ĩ |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | - | | 14,559 | | 17,242 | | | | 17,142 | | 19.745 | | | | 21.427 | - | | - | 38.772 | | 14 47 |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | ne | 1,414,454 | | 1,647,210 | | 2,236,176 | | 1,655,980 | | | - | | | 050.315 | | 131.781 | | 1.877.316 | | 567 752 | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | 15,484 | | 18,102 | | | | 17 537 | 4.1 | 21 071 | | | | 22 431 | | 23.066 | | 40.757 | | 17.10 |
| 1446,710 15,128 17,582 20,073 17,723 17,723 20,445 23,056 1008,584 23,046 39,046 566,360 1,446,710 17,128 1,655,399 20,297 1693,323 20,120 1367,163 23,066 1,160,416 23,046 59,046 566,360 1,446,710 17,128 20,297 1693,323 20,120 23,566 1,267,163 24,671 25,560 1,180,416 29,046 566,360 1,445 20,297 23,566 20,120 23,566 24,571 25,560 1,180,416 25,268 44,443 566,360 0ms* 116517 1567 23,566 15714 25,660 1,7212 1,7328 303555 for the Production 556,70 15714 168,366 17712 173286 303555 for the Production A1773 414,36 558,24 531,80 932,71 173286 303555 for the Production A1667 558,24 531,80 172127 173286 303555 for the Production A1667 558,24 531,80 </td <td>λ</td> <td>1,429,582</td> <td></td> <td>1,665,102</td> <td>-</td> <td>2.256.249</td> <td></td> <td>1.673.703</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>72 724</td> <td>-</td> <td>155 128</td> <td></td> <td>1 916 362</td> <td></td> <td>579 438</td> <td>5</td> | λ | 1,429,582 | | 1,665,102 | - | 2.256.249 | | 1.673.703 | - | | | | | 72 724 | - | 155 128 | | 1 916 362 | | 579 438 | 5 |
| 1.446.710 1.686,399 2.279,255 1.693,823 913,978 1.267,163 1.008,584 1.180,416 1.960,805 4.4,433 569,360 1.146.71 17.128 20,207 23,006 165,7120 23,586 1.960,805 4.4,433 569,360 1.146.71 156.71 157 25,860 25,860 25,860 25,286 4.4,433 1.157 156.71 157 25,860 157,127 170,256 25,286 1.4433 1.165.7 136.77 155.76 155.136 157.134 16836 177.127 1732.26 3032.55 1.165.7 136.77 157.134 168386 177.127 1732.86 3032.55 1.171.7 7.0.63 532.24 561.80 9.32.77 3032.55 157.17 1732.86 3032.55 1.165.7 1.167.7 168.36 1.77.127 1.732.86 3032.55 156.76 3032.55 156.76 3032.55 156.76 157.76 1732.86 3032.55 157.76 1732.86 3032.55 157.76 1732.86 157.77 1732.86 157.77 | _ | | 15,128 | | 17,892 | | 20,073 | • | 17.723 | | | | | | | - | | | 39.046 | - | 1168 |
| TT,128 20,297 20,297 20,206 20,120 20,506 24,671 1000 00 25,268 1000 00 24,443 0000000 Intervent 16,17 13671 13671 15570 135718 157134 168386 177127 173286 303255 Intervent 357.58 13677 155670 135718 157134 168386 177127 173286 303255 Intervent 357.58 16716 558.58 177123 173286 303255 Intervent 106.81 106.81 106.81 302.71 303255 If Torve 496.09 Percentage of veative production 50.05 516.76 528.24 531.60 902.71 | 0 | | | | | 2 279 255 | | 1 693 823 | | | | | | 108 584 | - | 180 116 | | 1.060 POF | | 000 300 | |
| 116517 136718 157134 185385 177127 173285 357.38 419.73 414.88 482.23 516.76 528.24 531.80 1165 T 740.62 1351.88 157134 185385 177225 3033255 1165 T 136.71 1357.88 157134 185385 177225 3033255 1165 T 740.62 136.81 157134 185385 177225 3033255 1165 T 740.62 106.81 516.76 528.24 531.80 932771 105 S1 106.81 60.055 528.24 531.80 932771 4936 O9 Percentace of veariv production 60.055 528.24 531.80 932771 | 0 | | 17.128 | 20, 2.2 | 20,297 | | 23,006 | 1,000,000 | 20,120 | 1949 | | | | +00.000 | 11.22 | 100,410 | | | 44 443 | 000,000 | 16.92 |
| 116517 136771 156670 135188 157134 168386 177228 303925 1 357 58 47773 414.88 157134 168386 177228 303925 1 aduction in ACFT 70.62 13518 157134 168386 177228 303925 1 thity allowable for current mo. 106.81 106.81 106.81 106.81 106.81 | bt. | | | | | | • • | | • | | | | | | | | | | | | |
| 116517 136771 155670 135788 157134 168386 172127 173286 303925 1 357 58 41973 414.88 157134 168386 172127 173286 303925 1 404 cton in AC/FT 740.62 106.81 106.81 516.76 528.24 531.60 932.71 5 4996.09 Percentage of vearity broduction 60.05 | | | | | | | | | | | | | | | | | | | | | |
| 116517 136771 156570 135188 157134 16836 172127 173286 303925 1 357 58 419.73 414.98 482.23 516.76 528.24 531.80 932.71 this allowable for current mo. 4986.09 Percentage of vearity broduction | | | | | | | | | | | | | | | | | | | | | |
| 116517 136771 156670 135188 157134 168386 172127 173286 303925 1 357 58 419.73 414.88 157134 168386 172127 173286 303925 1 duction in ACFT 740.62 414.88 482.23 516.76 528.24 531.80 932.71 thib allowable for current mo. 106.81 106.81 60.05 | 2 | | | | | | | | | | | | | | | | | | | | a standard |
| 116517 136771 155670 135188 157134 168386 172127 173286 303925 1 357 58 419.73 414.88 157134 168386 172127 173286 303925 1 4uction in AC/FT 740.62 414.88 482.23 516.76 528.24 531.60 932.71 5 thit allowable for current mo. 936.09 Percentage of vearity production | ç | | | | | | | | | | | | | | | | | | | | |
| 116517 136771 155670 135188 157134 168386 177127 173286 303925 1 357,58 419.73 477,73 414,88 482.23 516,76 528,24 531,80 932,71 352,55 1 duction in AC/FT 740,62 477,73 414,88 482,23 516,76 528,24 531,80 932,71 35 thity allowable for current mo. 740,62 106,81 66,05 516,76 528,24 531,80 932,71 35 | , | | | | | | | | | | | | | | | | | | | | |
| 357.58 4.19.73 4.77.73 4.14.88 482.23 5.16.76 528.24 531.80 932.71 duction in AC/FT 740.62 4.14.88 482.23 5.16.76 5.31.80 932.71 thly allowable for current mo. 106.81 106.81 60.05 5.00 5.16.76 5.28.24 5.31.80 932.71 | tal Gall | lons* | 116517 | | 136771 | | 155670 | | 135188 | | 157134 | | 168386 | | 172127 | | 173286 | | 303925 | | 108978 |
| duction in AC/FT 740.62 thly allowable for current mo. 106.81 4996.09 Percentage of vearly production 60.05 | tal AC/ | ۲ | 357.58 | | 419.73 | | 477.73 | | 414.88 | | 482.23 | | 516.76 | | 528.24 | | 531,80 | | 932.71 | | 334.44 |
| uthly allowable for current mo. 106.81 4995.09 Percentade of vearly production | rrent N | fonth Production in | AC/FT | | 740.62 | | the second of the second s | | And the second second second second second second second | The A Company's A Marca and a Marca and and | A LANDAR AND A STREAM AND A LANDAR | | an and a guide to provide the second s | 1 - There is a prove of the second second | And second memory with the party | and a contraction of a state of a state of a second state of a second state of the sec | an automatical substantial sector and the sector of the se | a de la sector esta o constante en la sector de la sector d | and a submer of the submersion | للعليب سالح الماسية سالحصوف والم | |
| 4996.09 Percentage of yearly production | rcenta | ge of monthly allows | able for cu | irrent mo. | | 106.81 | | | | | | | | | | | | | | | |
| | tal AC. | IFT for yr | 4996.09 | | ercentade | of vearly pro | duction | 60.05 | | | | | | | | | | | | | |

Canyon Regional Water Authority Wells Ranch Water Meter Reading - Usage 2024



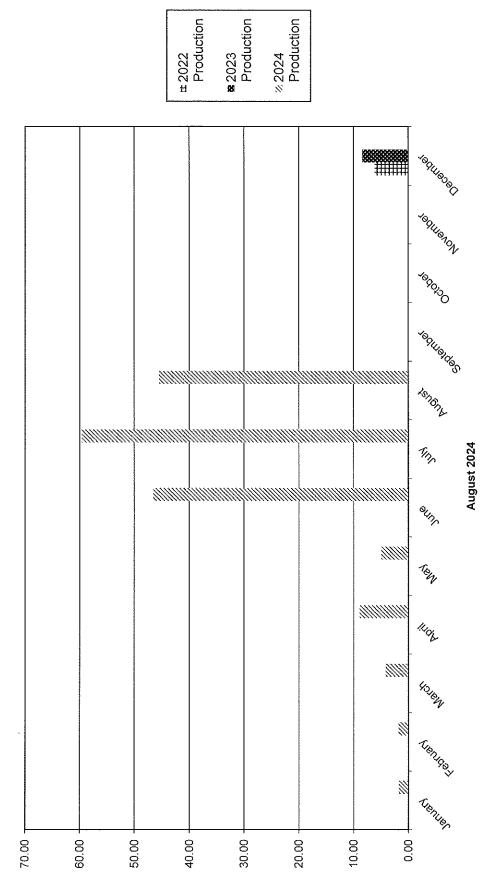


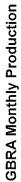
CRWA Monthly Production

Gudalupe-Blanco River Authority Meter Reading - Usage 2024

| Meter Usage Meter Usage <t< th=""><th></th><th>Well #1</th><th>Well #2</th><th>Mall #3</th><th>ruoz Well#4</th><th>r 003 Well #5</th><th>Vou Well#6</th><th>C007 Well #7</th><th></th></t<> | | Well #1 | Well #2 | Mall #3 | ruoz Well#4 | r 003 Well #5 | Vou Well#6 | C007 Well #7 | |
|---|--|---------|---------|----------------|----------------|------------------|---------------|-----------------|----|
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Date | | | | | | | | BW |
| 58.815 0 0 0 0 0 570,700 704 58.815 0 0 0 0 0 0 570,700 704 58.815 0 0 0 0 0 0 704 58.815 0 0 0 0 0 0 570,700 704 58.815 0 0 0 642,800 643 1,286 7124 704 704 58.815 135,000 135 0 0 1,286 725,000 1,274,700 860 860 1.757,206 1,767 1546 1,345,800 1,366 1,385,46 3,805,461 3,805 5,911,182 6,423 1.767,206 1,767 1,743,498 1,960 2,983,646 3,805,461 3,805 5,911,182 6,423 1.777,206 1 1,564 1,364 3,805,461 3,805 5,811,482 6,423 4,321 1.777,206 1 <td> </td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Feb | | | | | | | 5 | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 14 | | | | | | | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | Apr | | | | | | | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | | | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | June | | | | | | 775.000 | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | <u> 1975</u> | | | | 966 058 | | | | |
| 5,794 5,405 6,261 5,564 10,182 8,042 17,78 16,59 31,25 24,68 24,68 | Aug | 1,76 | | | 2,920,261 | | 5,812,966 | | |
| 5,794 5,564 10,182 8,042 17,78 16,59 19,21 17,08 31,25 24,68 | 1923 | | | | | | | | |
| 5,794 5,406 6,261 5,564 10,182 8,042 17.78 16.59 19,21 17,08 31,25 24,68 | i se | | | | | | | | |
| | <u> </u> | | | 6,261 19.21 | 5,564 17.08 | 10,182 | | 15,205 46.66 | |

galions in thousands



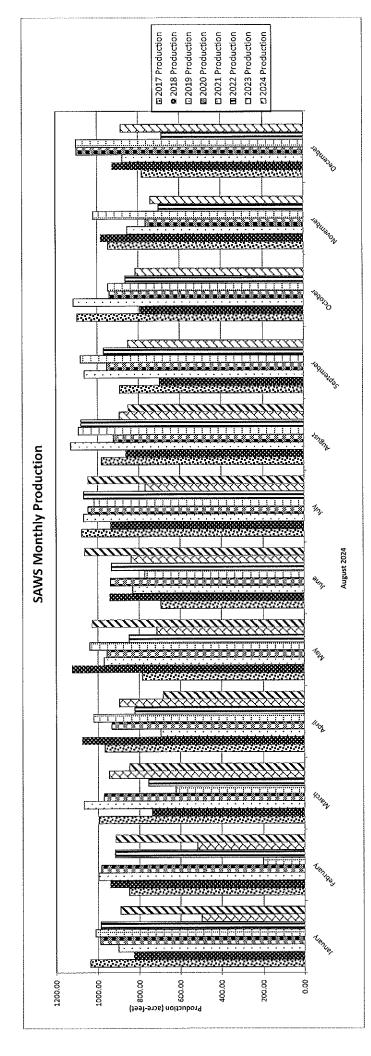


PRODUCTION (acre-feet)

San Antonio Water System Meter Reading - Usage 2024

| a a L | e7 404 02 | cn'ini'i¢ | \$7,301.94 | ¢6 765 04 | +e'rn / nd | \$5,447,41 | \$8,205.66 | | \$8,498.14 | \$8,357.15 | \$6 752 70 | | | | 2,388,948 7,331,41 | \$58,429.97 |
|------------------------------------|-----------|-----------|--------------|-----------|------------|------------|------------|-----------|---------------|------------|------------|---|------------|-----|-------------------------------|--|
| ž | 0104 | 1.4500 | 6,079 | 5 717 | 5 | 5,037 | 7,050 | | 6,991 | 6.829 | 7 452 | <u> </u> | | | | |
| 15 Isade | 100 91 | 40,307 | 54,240 | 54 110 | 5 | 59,924 | 28,445 | 1 | 35,633 | 57,575 | 38 346 | 2 | | | 375,181 1151.39 | Total Dollars |
| P048 Well WG-15 Meter IIsage | 3,525,513 | 3,579,754 | | 3,633,864 | 3.693.788 | | 007'77 | 3,757,866 | 3.815.441 | | 3,853,788 | | | | | ÷ |
| | | | 12,212 | 3,6 | | 45 | 30,785 | 3,7 | 41,522 3.8 | 47,250 | 57 654 3,8 | | | | 343 3.83 | |
| P047 Well WG-14 | | | 12, | ŶŸ | Í | | 30, | | 41, | 47. | 2 | | | | 229,343 703.83 | |
| P047 Well WG | 4,645,916 | 4,658,128 | | 4,703,000 | 4.703.044 | | 4,130,623 | 4,762,979 | 4.810.229 | | 4,862,883 | | | | | |
| 3-10 112206 | 101 | 400,40 | 47,915 | 10 257 | 100'61 | 21,756 | 48,559 | | 16,547 | 30,718 | 41 493 | 3 | | | 280,698 861,43 | |
| P044 Well WG-10 Meter | 1 | 2,964 | | 2.321 | 1.078 | | 10017 | 3,199,184 | 3.229.901 | | 1,394 | | | | | |
| 2 | | 3,092,964 | 1 | 3,112,321 | 3.134.078 | 111 | | 3,199 | - 1 - 1 | | 3,171,394 | | | | 32 32 | |
| P043 fell WG-9 | | 284.92 | 53,882 | 20 200 | | 59,816 | 53,131 | | 54,927 | 57,830 | 55.813 | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | | 453,038 1390.32 | |
| P043 Well WG-9 Meter | 276,716 | 330,598 | | 388,804 | 448.620 | 124 AF4 | Le/'ine | 556,679 | 614.509 | | 670,322 | ar further a | | | an the first second second | |
| C-8 115200 | c | n | 0 | 046 | 847 | 169 | 34,622 | | 45,298 | 25,827 | c |)) | | | 106,168 325.82 | |
| P042 Well WG-8 Meter | | 4,235,138 | | 4,235,387 | 4.235.556 | | 111,012 | 5,415,476 | 4.341.302 | | 4,341,302 | | | | | 62.73 |
| | | 4.2 | 21,206 | 4 | | 0 | 0 4 | 5. | 0 | 212 | ç | <u>.</u> | | | 51.170 157.04 | |
| P041 Well WG-7 Meter Ilsace | 5 | | | | | | | 1 | | I | | | | | | |
| Meter | 528,455 | 549,661 | | 549,661 | 549.661 | | 048,00 | 549,661 | 549.873 | | 549,883 | | | | | ' year |
| -6 Ireano | | 2 | 117 | ~ | t | 4 | 29,141 | | 38,375 | 41,331 | 34 179 | | | | 143,162 439.35 | % of prod. for year |
| P040 Well WG-6 Mater | 4,328,423 | 4,328,540 | | 4,328,544 | 4.328.559 | | 660'70 | 4,396,075 | 4.437.406 | - | 4,471,585 | | | | | 87.45 % (|
| | - | 4.3 | | | | | | 4,3 | 54,440 4.4 | | | | | | 162 .67 | 851.80 |
| P039 ell WG-5 | | | 51,885 | COS 75 | | 16,379 | 53,747 | | | 57,480 | 55 065 | | | | 380,162 1166.67 | 851 |
| P039 Well WG-5 Mater | 3,080,151 | 3,132,036 | | 3,169,429 | 3.185.707 | | 9,238,309 | 3,293,994 | 3.351.474 | | 3,406,538 | | | | | it month |
| | | 40'470 | 56,699 | 87 16E | | 64,830 | 56,847 | | 60,173 | 22,893 | C | 2 | | | 370,026 1135.57 | Current Month Production in ac/ft 851.80 % of monthly allowable for current month Total ac/ft for year |
| P036 Well WG-2 | 7,811 | 3,044,510 | | 3,106,674 | 3.171.504 | | 100'0 | 3,288,524 | 3.311.417 | | 1,417 | | | | * | h Product alfowable year |
| P036 Well WG-2 Date Meter | 2,987,811 | | 999 1993 | | | | | •• | | | 33,211,417 | t | | | Total Galions* Total ac/ft | rent Mont f monthly al ac/ft for |
| ž. C | Jan | Feb | ¹ | Mar | Apr | | NIZY | June | Julv | | Aug | Sept | Oct Nov | Dec | Tot | 1 % C II |

gallons in thousands

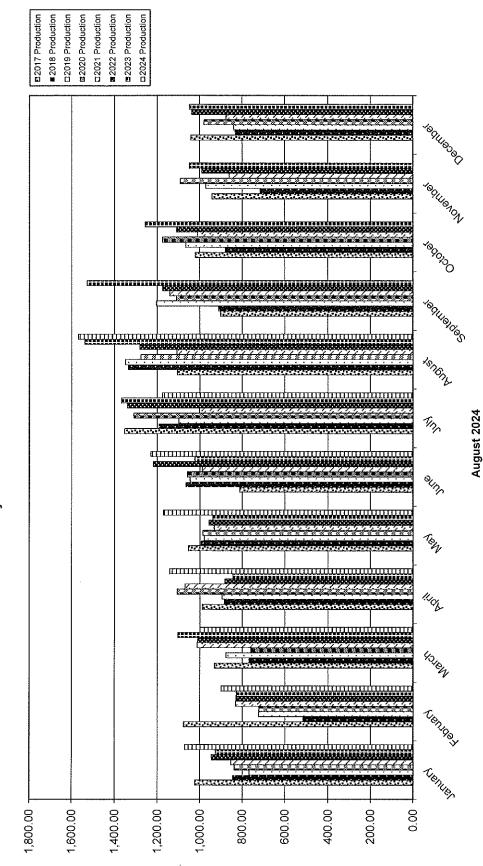


Schertz-Seguin Local Government Corporation Meter Reading - Usage 2024

| Metric Usage Metric Metric M | | P007 Well #1 | P008 Well #7 | P009 | | P010 Wall#4 | PL | P011 Mail #5 | P012 Mali#6 | | P016 Mall #7 | | P017 Well #8 | | P031 Well#9 | PC | P032 Wall #10 | P033 Well #11 | | P034 Well #12 | | | |
|--|---------|---|--|---------|--------------------|----------------|---------|-----------------|----------------|-----------|-----------------|-------|-----------------|----------|--|----------|------------------|------------------|--------|------------------|------------|---|-----------|
| 900,300 15,00 236,712 366,717 <th< th=""><th>Date</th><th>. 73</th><th></th><th></th><th></th><th>eter Usag</th><th></th><th></th><th>Meter U</th><th></th><th></th><th></th><th></th><th>je Metei</th><th></th><th>Me</th><th></th><th>-</th><th>Isage</th><th>1.151</th><th>sage</th><th></th><th>Fees</th></th<> | Date | . 73 | | | | eter Usag | | | Meter U | | | | | je Metei | | Me | | - | Isage | 1.151 | sage | | Fees |
| BILOR 16 km 208 km 43 mm 43 mm <t< td=""><th>Jan</th><td>890,980</td><td>287,534</td><td>836,744</td><td>36</td><td>5,702</td><td></td><td></td><td>541,090</td><td> </td><td>331,250</td><td>9</td><td>ł</td><td>2,898,5</td><td>156</td><td>2,349,30</td><td>4</td><td>3,151,746</td><td>4.</td><td></td><td></td><td></td><td></td></t<> | Jan | 890,980 | 287,534 | 836,744 | 36 | 5,702 | | | 541,090 | | 331,250 | 9 | ł | 2,898,5 | 156 | 2,349,30 | 4 | 3,151,746 | 4. | | | | |
| 881.016 287.534 882.514 379.411 3.79.417 287.612 5.47.17 2.84.71 2.84.71 2.84.71 2.84.71 2.84.71 2.84.71 2.84.71 2.84.71 2.84.66 2.84.16 < | | | | 4 | 43,511 | 35,4 | (0 | 309 | - 1 | 36,977 | 2 | | 43,0 | 164 | | | 43,703 | | 0 | | | | 8,530.10 |
| 36 27,334 0 96,046 45,773 45,660 23,137 413,577 5,711 <th< td=""><th>Feb</th><td></td><td>287,534</td><td>882,614</td><td>37</td><td>9,481</td><td>287</td><td></td><td>570,27</td><td></td><td></td><td>5</td><td>60,041</td><td>2,947,8</td><td></td><td></td><td>1</td><td>100</td><td>4,1</td><td>619,306</td><td>- 3</td><td>÷</td><td></td></th<> | Feb | | 287,534 | 882,614 | 37 | 9,481 | 287 | | 570,27 | | | 5 | 60,041 | 2,947,8 | | | 1 | 100 | 4,1 | 619,306 | - 3 | ÷ | |
| 317.354 267.754 267.763 47.853 2.36,745 4.36,75 2.36,765 4.36,75 < | | | | 4 | 15,870 | 13,7 | 6 | 0 | | 181 | 20 | | 48,6 | 150 | | 1.13 | 20,297 | 20 | 0 | Ð | 204 | | 7,172.15 |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | Mar | | | 926,049 | 41 | 9,583 | 295, | | 87,06 | | | | 08,379 | 2,992,1 | | | | Ċ. | 4,4 | | | | |
| 697,100 287,54 0 957,457 4,156 3,44,526 8,30,57 4,577 4,726,60 57,76 4,726,60 57,77 4,777 4,727 4,727 4,727 4,727 4,727 4,727 4,727 4,727 4,727 4,727 4,726 4,726 4,726 4,727 | | | | 4 | 13,435 | | 02 | 7,471 | | | | | 48,3 | 138 | | | | | | | | | 7,977.73 |
| 1083 50.43 50.43 50.43 50.13 41.368 41.366 41.368 41.366 41.368 41.368 41.366 41.368 41.366 41.368 41.366 41.368 41.366 41.366 41.366 41.366 | Apr | 897,100 | 287,534 | 967,437 | 4 | 3,137 | 340,512 | Sector Sector | 630,027 | 4.0.0 | 452,372 | 7 | 47,217 | 3,040,9 | - 10 | - 1 | 7 2000000 | | 4 | | | | |
| 22.14.36 237.53.4 13.413 3.46.861 3.14 24.86.1419 3.16.57/4 2.461.149 3.15.337 11.115 4.777 4.777 4.477 2.461.149 3.16.57/4 4.477 2.461.149 3.1737141 10.161 8.027 5 973.275 51.80 61.061 4.577 3.3361 61.774 4.4747 4.4774 4.4747 4.4774 4.4747 4.4774 4.4747 4.4774 4.4747 4.4747 4.4774 4.4747 4.4774 4.4747 4.4747 4.4747 4.4747 4.4747 4.4747 4.4747 4.4747 4.4747 4.4747 4.47474 4.4747 4.47474 | | 90 | | 4 | 41,388 | 100 | 54 | 45,369 | | 959 | 517 | 52 | 38,8 | 138 | 2022 | - 10 | | 11 | 4,566 | | 8,780 8,4 | | 9,097.55 |
| 247.32/6 24.36/1 64.76/4 42.47 43.00 53.16 54.741 60.101 53.76 10.161 64.76/4 43.04 24.1355 43.867 43.877 10.161 64.76/4 43.971 64.76/4 43.971 64.76/4 43.971 64.76/4 43.971 64.76/4 43.971 64.76/4 43.971 64.76/4 43.971 64.76/4 43.96/3 13.7716 13.716 13.716 13.716 13.716 13.716 13.716 13.716 13.716 13.716 13.716 13.716 13.716 13.716 13.716 13.716 13.716 13.716/14 10.0141 10.0141 </td <th>May</th> <td>921,436</td> <td>287,534</td> <td>13,413</td> <td></td> <td>5,881</td> <td>374,892</td> <td></td> <td>683,942</td> <td></td> <td>198,343</td> <td>ĸ</td> <td>92,125</td> <td>3,105,7</td> <td>'04</td> <td>2,461,41</td> <td></td> <td>3,159,357</td> <td>4</td> <td>737,141</td> <td></td> <td></td> <td></td> | May | 921,436 | 287,534 | 13,413 | | 5,881 | 374,892 | | 683,942 | | 198,343 | ĸ | 92,125 | 3,105,7 | '04 | 2,461,41 | | 3,159,357 | 4 | 737,141 | | | |
| 973.215 287.534 61.061 47.640 377.107 738.215 54.741 843.514 317.4714 64.7471 47.862 49.946 3.165.265 49.946 3.165.265 47.7141 0 8.085 1.005.375 51.300 47.377.141 0 8.085 8.01.00 3.255.72 61.010 2.544.233 3.166.259.06 4.737.141 0 7.675 6.0100 2.574.566 3.264.756 3.264.756 3.264.756 3.264.756 3.264.756 3.264.756 3.277.141 0 7.675 6.0100 7.675 6.0100 7.675 6.0100 7.675 6.0100 7.675 8.0100 7.675 8.0100 7.675 8.0100 7.675 8.0100 7.675 8.0100 7.675 8.0100 7.675 8.0100 7.675 8.0100 7.675 8.0100 7.675 8.0100 7.675 8.0100 7.675 8.0100 7.675 8.0100 7.675 8.0100 7.675 8.0100 7.675 8.0100 7.675 8.0100 7.675 | | 24.3 | 36 0 | 4 | 45,976 | 3,7. | 44 | 88 | -' | 915 | | | | 108 | | | 42,472 | | 11,115 | | | | 9,343.38 |
| 1.02.57 51.840 0 0.2754 47.646 2.215 788.15 52.277 588.168 43.128 53.35.742 68.010 2.49.46 2.55.906 47.77.141 0 7.77.141 1.026.376 53.100 287.534 0 106.276 47.37.141 53.227 53.666 3.23.57.42 61.028 2.54.223 37.668 47.77.141 0 7.77.141 2.53.012 9.50.000 4.79.028 2.54.756 7.77.161 2.76.466 2.76.466 2.76.4 | June | 973,276 | | 61,061 | _ | 3,897 | 377,107 | | 736,213 | 1.1.1 | | A. | 43,514 | 3,174,7 | | | 5 | 3,185,265 | 4 | 737,141 | | | |
| 1 (06.376 287.54 106.276 32.867 2.737,141 7.87,141 7.75,141 <t< th=""><th></th><th></th><th></th><th></th><th>_</th><th>2.0</th><th>16</th><th>3</th><th></th><th>271</th><th>20</th><th>50</th><th>51.3</th><th>83</th><th></th><th></th><th></th><th></th><th>25,908</th><th></th><th></th><th></th><th>9,832.08</th></t<> | | | | | _ | 2.0 | 16 | 3 | | 271 | 20 | 50 | 51.3 | 83 | | | | | 25,908 | | | | 9,832.08 |
| 1.003.400 53.100 166.128 47.3215 458.913 0 2.120 846.671 52.302 53.03.619 61.028 57.456 3.303.619 61.328 47.36,483 55.900 47.36,483 55.900 47.36,483 55.900 47.36,483 55.900 47.36,483 55.900 47.36,483 55.900 47.36,483 55.900 47.96,483 55.900 47.96,483 55.900 47.96,483 55.900 47.96,483 55.900 47.96,483 55.900 47.96,483 55.900 47.96,483 55.900 47.96,483 55.900 47.96,483 55.900 47.96,483 55.900 47.96,483 55.900 47.96,483 55.900 47.96,483 55.900 47.96,483 55.900 47.96,483 55.900 47.96,483 55.900 47.96,483 55.900 56.4768 55.900 57.4768 55.900 57.4768 55.900 57.4768 55.900 57.96,483 57.716 57.716 57.716 57.716 57.716 57.716 57.716 57.716 57.716 57.716 | July | | | | 43 | 3,897 | 379,227 | | 88,515 | | | | 79,170 | 3,235,7 | | | | 3,228,668 | | 737,141 | | | |
| 1003.400 303.566 156.128 47.962 36.761 57.574.546 3.303.619 4.796.483 93.1476 137.16 137.50 137.50 137.50 | | | | | | | | 2,120 | | .302 | | | | 156 | | | | | | | 0 4 6 | 2 | 9,392.88 |
| 57,024 22,032 47,852 20,016 13,134 58,156 51,674 52,332 67,877 25,313 36,090 58,342 13,716 31 1 | Bink | 1,083,400 | 309,566 | | | 3,913 | 392,361 | | 846,671 | | h | | 1 | 3,303,6 | | | | 3,264,758 | 4 | 796,483 | States and | | |
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| Image: 100 million 209.340 22.03 352.365 333.55 335.55 | Sept | | | | | | | | | | | | | | | | | | | | | | |
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| 22,032 362,895 128,707 108,998 342,558 325,656 363,155 449,038 268,945 122,688 31,500 (1111,51) (1113,68 31,500 1113,68 112,568 31,500 1113,68 11113,68 1334,50 1334,50 1051,27 999,34 1114,51 1113,68 1113,58 1113,58 112,588 31,500 962,10 1157,59 1113,58 113,58 1113,58 1113,58 1113,58 1113,58 11 | | | | | | | | | | | | | | | | | | | | | | | |
| 267.61 (active control of 113.68 metric of 334.50 metric of 151.27 metric of 1993.34 (control of 171.4.51 metric of 1378.05 metric of 13 1367.65 metric of 1378.05 metric of 1378.05 metric of 1378.05 metric of 1 | Total G | | | | 32.895 | 128.7 | 20. | 108.998 | r. | 42,558 | 325 | 1.636 | 363.1 | .65 | 449.03 | | 268,945 | 1 | 22,688 | 3 | 3,500 | - | 3,017,502 |
| 1667,89 97.19 | Total a | | | | 113.68 | 394 | 66 | 334.50 | | 751.27 | 56 | 934 | 1114 | 51 | 1378.0 | | 825.36 | | 376.52 | 0 | 62.10 | | 9260.37 |
| | Curren | tt Mo. Production in | | | | | | | - | | | | | | | - | | - | | | | | |
| | % of m | nonthiv allowable for | | | | | | | | | | | | | | | | | | | | | |
| | 1 | | | | 3 F | | | | | | | | | | | | | | | | | | |

47.83 % of prod. for year Total ac/ft for yr 9260.37

ollars \$73,773.75 5

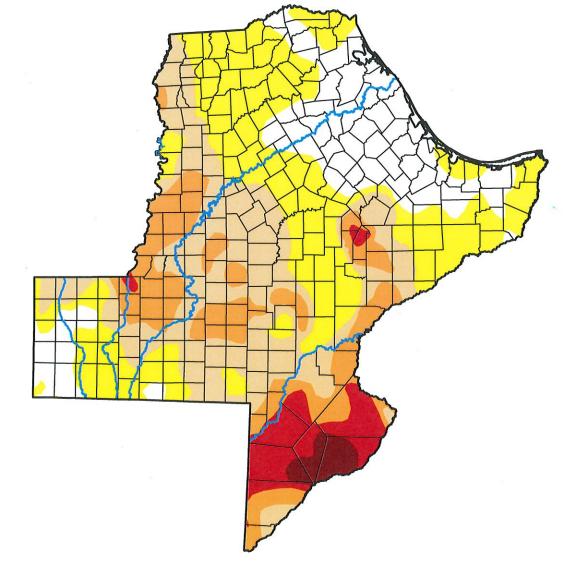


SSLGC Monthly Production

PRODUCTION (acre-feet)

U.S. Drought Monitor





(Released Thursday, Aug. 29, 2024) August 27, 2024

Drought Conditions (Percent Area) Valid 8 a.m. EDT

12.68 12.64 0.00 0.68 1.82 1.82 D4 38.06 32.33 None D0-D4 D1-D4 D2-D4 D3-D4 5.68 7.60 6.18 1.90 22.25 59.66 14.17 13.03 17.78 61.41 40.01 48.13 26.48 39.47 75.83 80.64 62.21 80.98 49.16 60.40 96.97 98.45 37.79 50.84 19.02 39.60 3.03 1.55 Start of Calendar Year 01-02-2024 One Year Ago 3 Months Ago Start of Water Year Last Week 08-29-2023 Current 08-20-2024 05-28-2024

Intensity:

None

D3 Extreme Drought D2 Severe Drought

D1 Moderate Drought

D4 Exceptional Drought

D0 Abnormally Dry

Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

Richard Heim

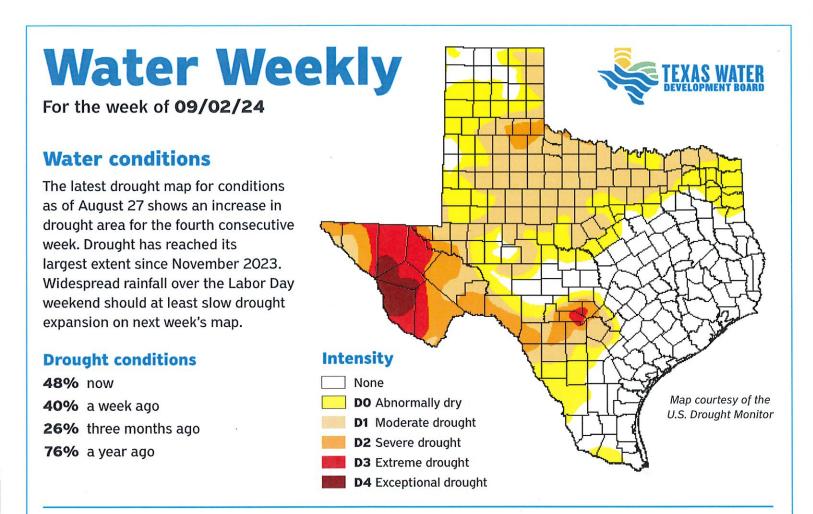
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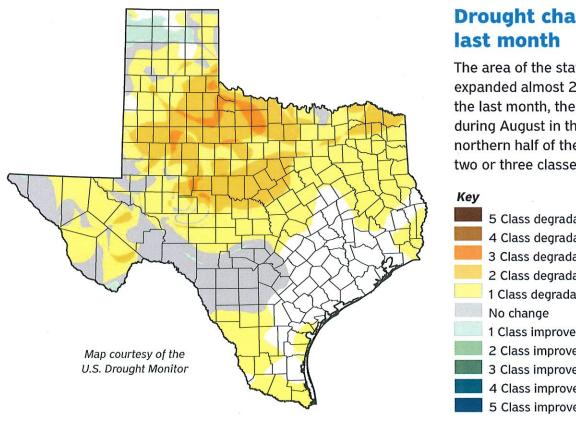
NCEI/NOAA

droughtmonitor.unl.edu

The Drought Monitor focuses on broad-scale conditions.

Local conditions may vary. For more information on the





Drought change in the

The area of the state impacted by drought expanded almost 28 percentage points in the last month, the second largest expansion during August in the last 25 years. In the northern half of the state, large areas saw two or three classes of degradation.



By Dr. Mark Wentzel, Hydrologist, Office of Water Science and Conservation

Kellen McMurry, Government Relations | Kellen.McMurry@twdb.texas.gov | 512-475-1589 Media Relations | MediaRelations@twdb.texas.gov | 512-463-5129

www.twdb.texas.gov



Gonzales County Underground Water Conservation District Mitigation Fund Manager's Report August 2024

On August 21st, I went to Ottine to meet with Dale Shelton to discuss possible mitigation.

On August 23rd, I went to Ottine to the Shelton location to review work that needs to be done.



Gonzales County Underground Water Conservation District Field Technician Report August 2024

On August 1st, I went to observe water well development with Friedel Drilling/J-Bar-B in Waelder, TX. Then, went to observe Drillink/Holmes Food Inc. on County Road 447 in Waelder, TX

On August 2nd, I went to County Road 447 in Waelder, TX and monitored well development with Drillink/Holmes Food Inc.

On August 7th, I observed water well development with One Source Drilling/Cochran at 6393 FM 1680, Flatonia, TX.

On August 9th, I went to 6393 FM 1680 Flatonia, TX to monitor water well development with One Source/Cochran.

On August 15th, I went to northcentral Gonzales County and applied flags at water wells MWCZ #9 and MWCZ #10.

On August 19th, I went to 3404 County Road 397 Gonzales, TX to observe water well development with Herbold/Holden.

On August 20th, I went to Flatonia, TX to obtain a water level at the Cochran Well. Then, I went to Waelder, TX to Holmes Food Inc. Well to monitor well development. Then, I went to check on the borehole at Black Rock Saltwater Disposal on FM 284 Waelder, TX.

On August 22nd, I went to 3404 County Road 397 in Gonzales, TX to obtain water level on the Holden well. Then, I went to Harwood, TX to obtain a water level at the Hahn/Johnson Farms Well at Lot # 16.

On August 26th, I performed a pH and conductivity readings at the Schmidt's test well, District ID T049, on County Road 443 Waelder, TX. Then, I went Smiley, TX to monitor new well development with H2O Well Services/Niemeier on County Road 219E Smiley, TX.

On August 28th, I went to Smiley, TX to observe new well development with H2O Well Services/Niemeier.

No. XXXX

RESOLUTION DECLARING A TEMPORARY MORATORIUM OF THE GONZALES COUNTY UNDERGROUND WATER CONSERVATION DISTRICT ON PROCESSING NEW NON-EXEMPT OPERATING PERMIT APPLICATIONS AND APPLICATIONS TO AMEND NON-EXEMPT OPERATING PERMITS

WHEREAS, the Gonzales County Underground Water Conservation District (the "District") was created by the Texas Legislature to provide for the conservation, preservation, protection, recharging, and prevention of waste of groundwater regarding the aquifers within the boundaries of the District;

WHEREAS, the District was also created to protect property rights, balance the conservation and development of groundwater to meet the needs of this State, and use the best available science in the conservation and development of groundwater through rules developed, adopted, and promulgated by the District;

WHEREAS, pursuant to rulemaking authority granted to the District in Tex. Water Code 36.101 and other legal authority, the Board of Directors has adopted rules and orders designed to regulate the use of groundwater within the District's boundaries ("Rules");

WHEREAS, the Board of Directors is considering amending the rules to better establish production limitations;

WHEREAS, processing applications for new permits or amendments to increase existing permits during consideration of the draft rule amendments may further complicate the rulemaking process.

NOW, THEREFORE, BE IT RESOLVED that effective immediately upon adoption of this resolution until lifted by action of the Board, in order to fulfill its obligations to regulate the groundwater in the District, the Board of Directors hereby:

(1) directs the District, through the General Manager, to cease all activities related to accepting applications for any new non-exempt operating permits and any amendments to non-exempt operating permits if those amendments would result in an increase in authorized groundwater production ("Prohibited Applications"); and

(2) directs the District, through the General Manager, to continue to accept, review and process pending applications of any type already received by the District prior to enacting the moratorium and accept, review, and process exempt well registrations, non-exempt operating permit renewals, amendments to non-exempt permits that do not increase the authorized groundwater production amount, permit ownership transfers, and replacement wells so long as each request does not result in an increase in authorized production ("Exceptions"); (3) directs the General Manager to accept and process applications to permit existing wells that require an operating permit under the District rules

(4) directs the General Manager to update the Board quarterly regarding the processing of any Exceptions.

(5) FURTHERMORE, the Board of Directors intends that the moratorium on Prohibited Applications only applies to applications received on or after the effective date of this resolution and will not affect applications currently pending before the District.

PASSED, APPROVED, AND EFFECTIVE on September 10, 2024.

Bruce Tieken, President

ATTEST:

Barry Miller, Secretary/Treasurer

| Tax Year | Tax Rate | Taxable Value | Taxable Value/100 | Tax | |
|-------------------|-----------------|--------------------|---|--------------|---|
| | 0.000000 | \$4,949,013,207.00 | \$49,490,132.07 | \$0.00 | |
| Tax Rate 23-24 | 0.002935 | \$4,949,013,207.00 | \$49,490,132.07 | \$145,253.54 | |
| Gonzales County | 0.003000 | \$4,949,013,207.00 | \$49,490,132.07 | \$148,470.40 | |
| | 0.003125 | \$4,949,013,207.00 | \$49,490,132.07 | \$154,656.66 | |
| | 0.003150 | \$4,949,013,207.00 | \$49,490,132.07 | \$155,893.92 | |
| | 0.003174 | \$4,949,013,207.00 | \$49,490,132.07 | \$157,081.68 | |
| | 0.003500 | \$4,949,013,207.00 | \$49,490,132.07 | \$173,215.46 | |
| | 0.003735 | \$4,949,013,207.00 | \$49,490,132.07 | \$184,845.64 | |
| | 0.003947 | \$4,949,013,207.00 | \$49,490,132.07 | \$195,337.55 | |
| | 0.003999 | \$4,949,013,207.00 | \$49,490,132.07 | \$197,911.04 | |
| | 0.004000 | \$4,949,013,207.00 | \$49,490,132.07 | \$197,960.53 | |
| | 0.004500 | \$4,949,013,207.00 | \$49,490,132.07 | \$222,705.59 | |
| | 0.004600 | \$4,949,013,207.00 | \$49,490,132.07 | \$227,654.61 | |
| | 0.004700 | \$4,949,013,207.00 | \$49,490,132.07 | \$232,603.62 | |
| Tax Year | Tax Rate | Taxable Value | Taxable Value/100 | Tax | |
| | 0.000000 | \$315,819,692.00 | \$3,158,196.92 | \$0.00 | |
| Tax Rate 23-24 | 0.002935 | \$315,819,692.00 | \$3,158,196.92 | \$9,269.31 | |
| Caldwell County | 0.003000 | \$315,819,692.00 | \$3,158,196.92 | \$9,474.59 | |
| , | 0.003125 | \$315,819,692.00 | \$3,158,196.92 | \$9,869.37 | |
| | 0.003150 | \$315,819,692.00 | \$3,158,196.92 | \$9,948.32 | |
| | 0.003174 | \$315,819,692.00 | \$3,158,196.92 | \$10,024.12 | |
| | 0.003500 | \$315,819,692.00 | \$3,158,196.92 | \$11,053.69 | |
| | 0.003735 | \$315,819,692.00 | \$3,158,196.92 | \$11,795.87 | |
| | 0.003947 | \$315,819,692.00 | \$3,158,196.92 | \$12,465.40 | |
| | 0.003999 | \$315,819,692.00 | \$3,158,196.92 | \$12,629.63 | |
| | 0.004000 | \$315,819,692.00 | \$3,158,196.92 | \$12,632.79 | |
| | 0.004500 | \$315,819,692.00 | \$3,158,196.92 | \$14,211.89 | |
| | 0.004600 | \$315,819,692.00 | \$3,158,196.92 | \$14,527.71 | |
| | 0.004700 | \$315,819,692.00 | \$3,158,196.92 | \$14,843.53 | |
| Tax Year | Tax Rate | Taxable Value | Taxable Value/100 | Tax | |
| | 0.000000 | \$5,257,832,899.00 | \$52,578,328.99 | \$0.00 | - |
| Tax Rate 23-24 | 0.002604 | \$5,257,832,899.00 | \$52,578,328.99 | \$136,913,97 | (24-25 No-New Revenue Rate |
| Gonzales/Caldwell | 0.002817 | \$5,257,832,899.00 | \$52,578,328.99 | \$148,113.15 | (24-25 Voter Approval Rate 1.058% increase) |
| Combined | 0.002900 | \$5,257,832,899.00 | \$52,578,328.99 | \$152,477.15 | |
| | 0.002925 | \$5,257,832,899.00 | \$52,578,328.99 | \$153,791.61 | |
| | 0.002950 | \$5,257,832,899.00 | \$52,578,328.99 | \$155,106.07 | |
| | 0.002990 | \$5,257,832,899.00 | \$52,578,328.99 | \$157,209.20 | |
| | 0.003000 | \$5,257,832,899.00 | \$52,578,328.99 | \$157,734.99 | |
| | 0.003125 | \$5,257,832,899.00 | \$52,578,328.99 | \$164,307.28 | |
| | 0.003150 | \$5,257,832,899.00 | \$52,578,328.99 | \$165,621.74 | |
| | 0.003174 | \$5,257,832,899.00 | \$52,578,328.99 | | (23-24 Tax Rate) |
| | 0.003500 | \$5,257,832,899.00 | \$52,578,328.99 | \$184,024.15 | |
| | 0.003735 | \$5,257,832,899.00 | \$52,578,328.99 | \$196,380.06 | |
| | 0.003947 | \$5,257,832,899.00 | \$52,578,328.99 | \$207,526.66 | |
| | (24-25 No-New R | | <i>+,-</i> , <i>-</i> | +===,,==== | |

(24-25 No-New Revenue Rate (24-25 Voter Approval Rate 1.058% increase)

(23-24 Tax Rate)

| Amended | Gonzales County UWC 2023-2024 Budget/Proposed | County UWCD jet/Proposed 20 | D 2024-2025 Budget | et | |
|---|---|--|---|--|---|
| ß | GCUWC 23-24 ESTIMATED TO DATE | D EXPENSES 23-24 BUDGET | 23-24 BUDGET AMENDMENTS | 23-24 AMENDED BUDGET | 24-25 PROPOSED BUDGET |
| 001 Payroll Expenses Directors' Salary Manager Salary Office Aide Salary Office Aide Salary Temporary (Office Aide) Part Time Field Technician Well Mitigation Manager FICA (SS & Medicare) State Unemployment Workers Compensation GCUWCD Retirement Match Employee Health Insurance Payroll Expense Total | \$9,150.00 \$83,148.02 \$24,763.53 \$0.00 \$23,578.00 \$23,578.00 \$23,578.00 \$23,578.00 \$23,578.00 \$23,578.00 \$3,438.13 \$0.00 \$3,438.18 \$17.18 | \$9,500.00 \$26,000.00 \$21,170.00 \$29,766.95 \$29,760.05 \$29,760 \$29,760 \$29,760 \$143,10 \$4,758,14 \$4,758,14 \$253,347,57 | 0.0\$ | \$9,500.00 \$35,490.46 \$25,490.46 \$25,000.00 \$67,897.00 \$16,394.70 \$4,071.80 \$4,071.80 \$2,143.10 \$4,758.14 \$25,8,132.84 | 5 6 6 7 7< |
| 002 Operating Expenses Association Dues Education Audit Fees Marketing/Advertisement Office Maintenance(Pest/Janitorial/AC) Building Repair Office Utilities (Trash/Water/Elec) Office Building Insurance Employee Insurance (TML/Dubose) Equip Rental (Ricoh Cow/Scan/Fax) | | | \$1,50 (\$5,38 (\$1,08 | \$2,500.00 \$700.00 \$3,000.00 \$2,000.00 \$5,350.00 \$4,000.00 \$4,550.00 \$4,000.00 \$4,000.00 | \$2,500.00 \$700.00 \$1,500.00 \$1,500.00 \$2,000.00 \$2,000.00 \$2,000.00 \$4,000.00 \$4,000.00 \$4,000.00 \$4,000.00 \$4,000.00 |
| Equip Maintenance Internet Access GVTC Software Upgrades (ESRI/Quickbook) IT Service (Virtualis Soltuions) Electronic Data Storage (DropBox) GoToMeeting (Online Meeting Host) Consultant Legal Lobbving | | \$300.00 \$1,980.00 \$2,800.00 \$11,000.00 \$200.00 \$200.00 \$30,000.00 \$50,000.00 \$30,000.00 \$30,000.00 \$30,000.00 | \$300.00 (\$600.00) \$5,000.00 | \$0.00 \$1,980.00 \$1,980.00 \$11,000.00 \$200.00 \$200.00 \$200.00 \$30,000.00 \$30,000.00 | \$300.00 \$1,980.00 \$1,980.00 \$11,000.00 \$200.00 \$200.00 \$30,000.00 \$30,000.00 \$30,000.00 \$30,000.00 \$30,000.00 |
| Hearing Procedures Legal SOAH GBRA Legal SOAH GBRA Legal CRWA Office Supplies Postage Published Notices Trelephone/Cell Phones Travel and Meetings Website Maintenance Database Hosting (Halff/Standen) Operating Expense Total | | | (\$160,000.00) (\$6,800.00) (\$4,500.00) (\$4,500.00) \$6,500.00 \$1,300.00 \$1.300.00 | \$0.00 \$160,000,00 \$5,800,00 \$2,000,00 \$5,000,00 \$4,000,00 \$13,700,00 \$13,700,00 \$5,500,00 \$5,000,000 \$5,000,000,000 \$5,000,000 \$5,000,000 \$5,000,000 \$5,000,000 \$5,000,000 \$5,000,000 \$5,000,000 \$5,0000000 \$5,0000000000 | \$15,000.00 \$80,000.00 \$2,000.00 \$7,500.00 \$15,000.00 \$15,000.00 \$5,500.00 \$5,500.00 \$5,500.00 \$5,500.00 \$5,500.00 \$5,500.00 |
| 003 Capital Outlay Expenses Lab/Field Equipment Office Equipment Reference Materials Capital Outlay Expense Total | 20 | \$3,000.00 \$3,000.00 \$6,000.00 | \$3,000.00 | \$3,000.00 \$0.00 \$3,000.00 \$3,000.00 | \$3,000.00 \$3,000.00 \$0.00 \$6,000.00 |
| UU4 Project Expenses Groundwater Testing & GW Fair WL Recorder Equip. & Maintenance Well Plugging Program Well Inspection Program Election Expenses Post Modeling VS Actual Report Eastern Drawdown Report Eastern Drawdown Report Satisfance Propability Leased Property Audit Carrizo Outcrop Census Aquifer Interaction Study Project Expense Total | \$4,024.33 \$0.00 \$0.00 \$0.00 \$6,210.77 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$10,235.10 | \$11,000.00 \$75,000.00 \$10,000.00 \$10,000.00 \$330,000.00 \$330,000.00 \$20,000.00 \$12,000.00 \$20,000.00 \$210,000.00 | \$2,000.00 \$75,000.00 \$10,000.00 In Progress In Progress In Progress In Progress New New New | \$11,000.00 \$0.00 \$0.00 \$0.00 \$10,000.00 \$20,000.00 \$20,000.00 \$12,000.00 \$123,000.00 | \$6,500.00 \$75,000.00 \$75,000.00 \$10,000.00 \$12,000.00 \$7,500.00 \$7,500.00 \$7,500.00 \$25,000.00 \$25,000.00 \$25,000.00 |
| 005 Tax Expenses Appraisal District Budget Share/Tax Expense Tax Expense Total TOTAL ALL EXPENSES | \$2 \$2 \$500 | \$3,5 \$667,5 | | \$3,271.83 \$3,271.83 \$746,884.67 | \$3,397.28 \$3,397.28 \$30,512.33 |
| CATEGORIES | GCUM 23-24 ESTIMATED TO DATE | CD INCOME 23-24 BUDGET | 23-24 BUDGET AMENDMENTS | 23-24 AMENDED BUDGET | 24-25 PROPOSED BUDGET |
| UND Tax Collection Current Tax Delinquent Tax Penalty & Interest Less Commission Less Tax Refunds Tax Collection Total | \$140,781.10 \$2,060.28 \$1,846.66 (\$1,848.66 \$1,848.65 \$1,848.65 \$1,848.65 \$1,848.65 \$1,848.65 \$1,848.65 \$143,002.60 | \$144,942.12 \$0.00 \$0.00 (\$2,000.00) \$142,942.12 | \$0.00 | \$144,942.12 \$0.00 \$0.00 (\$2,000.00) \$142,942.12 | \$148,113.15 \$0.00 \$0.00 \$0.00 (\$2,000.00) \$146,113.15 |
| With the set interest, nembers the modulation of the minimum set interest Export Fee Interest Earned Interest Earned 008 Transfer From Prior Year Funds Transfer Total | | \$186,3 \$10,5 \$196,8 | \$0.00 | \$0.00 \$186,314.26 \$10,500.00 \$196,814.26 | \$0.00 \$0.00 \$186,368.26 \$45,000.00 \$231,368.26 \$231,368.26 |
| | \$366,610.23 DEFIC (\$133,671.77) | \$339,7 T/SURP (\$327,54 | \$0.00 | \$339,756.38 (\$407,128.29) | \$377,481.41 (\$453,030.92) |
| | ANTICIPATE | ED CASH ON HAI Estimat Cash Bu | AND ated Cash on Ha sh on Hand to Co udget Surplus/D Total 2 | NHAND Estimated Cash on Hand FYE 23-24 Cash on Hand to Cover Expenses Budget Surplus/Deficit FY 24-25 Total 2024-2025 FYE | \$2,223,778.30 (\$74,200.00) (\$453,030.92) \$1,844,947.38 |
| | | | | | |

| SSLGC 2024 Estimate = 11,314.20 ac-ft = 3,686,746,000 gal/1,000 gal x 0.025= \$92,168.65 SAWS 2024 Estimate = 11,200 ac-ft = 3,649,531,200 gal/1,000 gal x 0.025= \$91,238.28 SAWS 2024 Estimate = 11,200 ac-ft = 3,649,531,200 gal/1,000 gal x 0.025= \$91,238.28 2021 2022 2023 \$2,590.00 (avg. = \$2,961.00) \$2,961.33 \$2,872.00 \$2,750.00 \$3,262.00 (avg. = \$2,961.00) \$2,961.33 \$2,872.00 \$3,262.00 (avg. = \$2,961.00) \$2,760.30 \$2,961.33 \$2,872.00 \$3,262.00 (avg. = \$2,961.00) \$2,780.36 COUVCD 2024-2025 BUDGET Total Est. Transport Fees \$136,368.26 GCUVCD 2024-2025 BUDGET Total Est. Transport Fees \$136,368.26 GCUVCD 2024-2025 BUDGET Total Est. Transport Fees \$136,308.26 \$148,113.15 GCUVCD 2024-2025 PROPOSED TAXES \$330,512.33 Negotiated Fee = GCUVVCD Budget - (SSLGC + SAWS + AQUA Fees) - Taxes \$496,030.32 Budgeted Fee = GCUVVCD Budget - (SSLGC + SAWS + AQUA Fees) - Taxes \$496,030.32 CDMA AT 70.1 70.1 70.1 70.1 70.1 70.1 70.1 70.1 | | | FY 2023-2024 + 10% |
|---|--|--|--|
| CKWA (21.7%) = ARWA (34.2%) = GBRA (44.1%) = | \$100,000.71 \$169,642.57 \$218,749.63 | \$90,302.71 \$90,302.71 \$116,442.97 | \$09,322.98 \$99,332.98 \$128,087.27 |
| | \$496,030.92 | \$264.043.01 | \$290,447.31 |

1. XX agrees to make an annual payment to the District in the amount of 22.8% ("XX's Percentage Share") of the District's annual budget, less the amount of export fees due for that budget year from exporters whose permits or authorizations were issued or approved by the District prior to November 12, 2012 ("Existing Permittees"), and less ad valorem taxes due for that budget year. This amount is the negotiated export fee between XX and the District (the "XX Export Fee"). 2. Beginning in 2013 and continuing annually during the term of this Agreement, the District will notify XX no later than August 31 of each calendar year of the amount of the XX Export Fee. XX will remit payment of the XX Export Fee to the District on or before October 1st of each calendar year.

Gonzales County Underground Water Conservation District

Gonzales County UWCD 2023-2024 Amended Budget 2024- 2025 Proposed Budget Eastern Mitigation Fund

| | GCUV | VCD EXPENSE | S | | |
|---|---|--|--|--|--|
| CATEGORIES | 23-24 ESTIMATED TO DATE | 23-24 BUDGET | 23-23 4 BUDGET AMENDMENTS | 23-24 AMENDED BUDGET | 24-25 PROPOSED BUDGET |
| 002 Operating Expenses | | | | | |
| Audit Fees Legal Operating Expense Total | \$2,866.66 \$0.00 \$2,866.66 | \$3,000.00 \$2,500.00 \$5,500.00 | \$0.00 | \$3,000.00 \$2,500.00 \$5,500.00 | \$3,000.00 \$0.00 \$3,000.00 |
| 003 Capital Outlay Expenses | | | | | |
| Field Equipment Office Equipment Capital Outlay Expense Total | \$0.00 \$0.00 \$0.00 | \$0.00 \$0.00 \$0.00 | \$0.00 \$0.00 \$0.00 | \$0.00 \$0.00 \$0.00 | \$2,500.00 \$1,500.00 \$4,000.00 |
| 004 Project Expenses | | | | | |
| Groundwater Testing Well Mitigation (contractors) Project Expense Total TOTAL ALL EXPENSES | \$0.00 \$40,000.00 \$40,000.00 \$40,000.00 | \$2,500.00 \$310,000.00 \$312,500.00 \$318,000.00 | \$0.00 \$0.00 \$0.00 \$0.00 | \$2,500.00 \$310,000.00 \$312,500.00 \$318,000.00 | \$0.00 \$282,000.00 \$282,000.00 \$289,000.00 |
| GCUWCD INCOME | +, | + | | + | +===;===== |
| CATEGORIES | 23-24 ESTIMATED TO DATE | 23-24 BUDGET | 23-23 4 BUDGET AMENDMENTS | 23-24 AMENDED BUDGET | 24-25 PROPOSED BUDGET |
| 006 Export Fee Surcharges | | | | | |
| ARWA GBRA Export Fee Surcharge Total | \$0.00 \$0.00 \$0.00 | \$0.00 \$0.00 \$0.00 | \$0.00 \$0.00 \$0.00 | \$0.00 \$0.00 \$0.00 | \$50,000.00 \$50,000.00 \$100,000.00 |
| 007 Fees, Interest, Reimbursement | | | | | |
| Mitigation Fund MM Interest Total | \$4,370.30 \$4,370.30 | \$1,000.00 \$1,000.00 | | | \$1,500.00 \$1,500.00 |
| TOTAL ALL FUNDING | DEP | ICIT/SURPLUS | | | \$101,500.00 |
| | | | | | (\$187,500.00) |

| Estimated Cash on Hand FYE 23-24 | \$282,600.99 |
|----------------------------------|----------------|
| Budget Surplus/Deficit | (\$187,500.00) |
| ANTICIPATED CAS | H ON HAND |
| TOTAL 2024 - 2025 FYE | \$95,100.99 |

Gonzales County UWCD 2023-2024 Amended Budget 2024-2025 Proposed Budget Western Mitigation Fund

| CATEGORIES | 23-24 ESTIMATED TO DATE | WCD EXPENSES 23-24 BUDGET | | 23-24 AMENDED BUDGET | 24-25 PROPOSED BUDGET |
|-----------------------------------|-------------------------------|------------------------------|------------|----------------------------|-----------------------------|
| 002 Operating Expenses | | | J | | 1 |
| Audit Fees | \$2,866.66 | \$3,000.00 | | \$3,000.00 | \$3,000.00 |
| Legal | \$0.00 | \$2,500.00 | | \$2,500.00 | \$0.00 |
| Operating Expense Total | \$2,866.66 | \$5,500.00 | \$0.00 | \$5,500.00 | \$3,000.00 |
| 003 Capital Outlay Expenses | | | | | |
| Field Equipment | \$0.00 | \$2,500.00 | | \$2,500.00 | \$2,500.00 |
| Office Equipment | \$0.00 | \$1,000.00 | | \$1,000.00 | \$1,000.00 |
| Capital Outlay Expense Total | \$0.00 | \$3,500.00 | \$0.00 | \$3,500.00 | \$3,500.00 |
| 004 Project Expenses | | | | | |
| Ground Water Testing | \$0.00 | | | \$2,500.00 | \$2,500.00 |
| Well Mitigation (contractors) | \$0.00 | \$300,000.00 | | \$300,000.00 | \$175,000.00 |
| Project Expense Total | \$0.00 | \$302,500.00 | \$0.00 | \$302,500.00 | \$177,500.00 |
| TOTAL ALL EXPENSES | \$2,866.66 | \$311,500.00 | \$0.00 | \$311,500.00 | \$184,000.00 |
| | GC | UWCD INCOME | | | |
| | 23-24 | 23-24 BUDGET | 23-24 | 23-24 | 24-25 |
| | ESTIMATED | | BUDGET | AMENDED | PROPOSED |
| CATEGORIES | TO DATE | | AMENDMENTS | BUDGET | BUDGET |
| 005 Export Fee Surcharges | | | | | |
| CRWA | \$58,223.20 | 1 | | \$0.00 | \$58,223.00 |
| SSLGC | \$64,518.06 | | | \$0.00 | \$64,518.00 |
| SAWS | \$61,352.21 | | | \$0.00 | \$61,352.00 |
| Initial Payment Total | \$184,093.47 | \$165,488.76 | \$0.00 | \$0.00 | \$184,093.00 |
| 007 Fees, Interest, Reimbursement | | 0 | | | |
| Mitigation Fund MM | \$1,913.28 | | | \$0.00 | |
| Interest Total | \$1,913.28 | \$200.00 | \$0.00 | \$0.00 | \$1,500.00 |
| T | | 8 | 1 | | l |
| Transfer Total TOTAL ALL FUNDING | | | | | \$185,593.00 |
| | Berneley Bellevin DE | FICIT/SURPLUS | | | \$1,593.00 |

| Estimated Cash on Hand FYE 23-24 | \$166,970.31 |
|----------------------------------|--------------|
| Budget Surplus/Deficit | \$1,593.00 |
| ANTICIPATED CASH ON HAND | |
| TOTAL 2024- 2025 FYE | \$168,563.31 |

What Is a Consent Agenda?

Consent Agenda / Consent Agendas

A consent agenda — or a consent calendar according to Robert's Rules of Order — is a valuable tool used to streamline board meeting processes. It is a component of the meeting agenda that presents multiple routine, non-controversial topics as one agenda item. The grouped items can be approved by filing a single motion and voting on it. A board member can always ask for the removal of a particular item from the consent agenda if they believe it requires further discussion before approval.

Which items would you find in a consent agenda?

The following items are typically included in a consent agenda:

- Routine or recurring items such as the previous meeting's minutes.
- Procedural decisions, including committee and staff appointments that need confirmation.
- Non-controversial topics that do not require discussion such as department and financial reports.
- Items requiring an official vote that the members have previously discussed and agreed upon, including final approvals of reports and proposals.

Benefits of a consent agenda

Here are the benefits of a consent agenda:

• Enhanced productivity

Grouping recurring and already-addressed issues minimises the discussion around these topics, thereby saving the board's valuable time and improving meeting efficiency.

• Reduced meeting fatigue

Going over and approving each routine item that does not require further deliberation can lead to meeting fatigue. By grouping these items in a consent agenda, directors can approve them all in one motion instead of enduring the process of filing multiple motions.

• Shifting the focus to more important matters

A consent agenda leaves more room for the board to redirect their focus towards strategic planning and taking care of critical company matters during meetings.

Best practices for a consent agenda

The best practices for a consent agenda include:

• Only including non-controversial items

For a consent agenda to work properly, all the items must be familiar to the board, require no discussion and have no prior conflicts.

• Using clear and concise descriptions

The topics should be well-defined so that no further clarification is required by any member.

• The opportunity for members to remove items

The board members should have the option to remove an item from the consent agenda if they think that it should not be approved without deliberation.

RECEIVED AUG 2 8 2024

Fred Loya Sr. 10279 HWY 304 Harwood, TX 78632

August 21, 2024

Board of Directors Gonzales County Underground Water Conservation District P. O. Box 1919 Gonzales, TX 78629

Re: Permit Renewal Permit GCP-02-09-06 Well IDs P021 & P109

Dear Boar of Directors

As owners we respectfully request renewal of our Permit GCP-02-09-06 at the original pumping rate of #gpm. We greatly appreciate your attention to the renewal of our Permit.

Sincerely

Fred Loya Sr..

Gonzales County Underground Water Conservation District

522 Saint Matthew Street P.O. Box 1919 Gonzales, TX 78629 Phone: 830.672.1047 Fax: 830.672.1387

Aggregate Drilling and Production Permit Irrigation Wells Permit No.: GCP-02-09-06 GCUWCD Well ID No.: P021 & P109

| Permit Issued 10: E P vallev investments | nit Issued To: E P Valley Investments | .LP |
|--|---------------------------------------|-----|
|--|---------------------------------------|-----|

Mailing Address: Mr. Fred Loya 1800 Lee Trevino, Suite 201 El Paso, TX 79936

Telephone Number: 915.629.5130

Date Original Application Filed (Well P021): July 05, 2006 Date of Public Hearing on Original Application (Well P021): September 12, 2006 Date Well Original Permit Granted (Well P021): September 12, 2006 Date First Permit Renewal Request Granted (Well P021): September 09, 2008 Date Second Permit Renewal Granted (Well P021): September 10, 2013 Date Third Permit Renewal Granted (Well P021): September 11, 2018

Date Aggregate Permit Application Filed (Wells P021 and P109): August 28, 2019 Date Aggregate Permit Application Granted (Wells P021 and P109): October 08, 2019 Current Aggregate Permit Expiration Date (Wells P021 and P109): October 08, 2024

Aggregate Production Permit Provisions: Total production is limited to 500 acre-feet per year The rate of production from a well or well field may vary throughout the year; however, the total production in a calendar year beginning on January 1st and ending on December 31st shall not exceed the permitted production for that year. Individual well production rates are allowed to increase up to 150% of the permitted production rate during peak demand periods

Aquifer Production Allocation: 1.0 acre-foot per acre from the Carrizo Aquifer

Maximum Pumping Capacity of Water Wells: Well P021 is limited to 720 gpm and Well P109 is limited to 610 gpm by the minimum well-to-property boundary offset distance in Rule 18.A

Number of Acres Irrigated: 170

Additional Conditions Applicable to Operating Permits:

A. General Conditions

Acceptance of the permit by the person to whom it is issued constitutes acknowledgment of and agreement to comply with all of the terms, provisions, conditions, limitations, and restrictions of these rules including, but not limited to, the following:

- 1. Permits are granted in accordance with the provisions of the Texas Water Code and the Rules, Management Plan and Orders of the District, and acceptance of the permit constitutes an acknowledgment and agreement that the permittee will comply with the Texas Water Code, the District Rules, Management Plan, Orders of the District Board, and all the terms, provisions, conditions, requirements, limitations and restrictions embodied in a permit.
- 2. A permit confers no vested rights in the holder, and it may be revoked or suspended, or its terms may be modified or amended pursuant to the provisions of the District's Rules.
- 3. The operation of a well for the authorized withdrawal must be conducted in a non-wasteful manner. In the event the groundwater is to be transported a distance greater than one-half mile from the well, it must be transported by pipeline to prevent waste caused by evaporation and percolation.
- 4. The permittee must keep records of the amount of groundwater produced and the purpose of the production and such records shall be available for inspection by District representatives. Immediate written notice must be given to the District in the event production exceeds the quantity authorized by a permit, or the well is either polluted or causing pollution of the aquifer. You must supply written documentation of your water usage annually to the District.
- 5. A well site must be accessible to District representatives for inspection, and the permittee agrees to fully cooperate in any reasonable inspection of the well and well site by District representatives.
- 6. Applications for which a permit is issued are incorporated in the permit and thus permits are granted on the basis of and contingent upon the accuracy of the information supplied in the application and any amendments to the application. A finding that false information has been supplied is grounds for immediate revocation of a permit. In the event of conflict between the provisions of a permit and the contents of the application, the provisions of the permit shall control.
- 7. Suspension or revocation of a permit may require immediate cessation of all activities granted by the permit.
- 8. Violation of a permit's terms, conditions, requirements or special provisions is punishable by civil penalties provided by the District's Rules.
- 9. Where ever special provisions in a permit are inconsistent with other provisions or District Rules, the special provisions prevail.
- 10. Changes in the withdrawal and use of groundwater during the term of a permit may not be made without prior approval of a permit amendment authorizing the change issued by the District.

B. Change of Ownership

An operating permit may be transferred to another person through change of ownership of the well provided all permit conditions remain in compliance with District Rules and the District is notified, in advance, of the proposed change in ownership. The General Manager is authorized to effectuate the permit transfer.

C. Enforcement of Rules

All Rules duly adopted, promulgated and published by this District shall be enforced as provided for under Chapter 36, Texas Water Code.

1. The District may enforce Chapter 36, Texas Water Code and its Rules by injunction, mandatory injunction, or other appropriate remedy in a court of competent jurisdiction.

- 2. The Board by rule may set reasonable civil penalties for breach of any rule of the District not to exceed \$10,000 per day per violation, and each day of a continuing violation constitutes a separate violation in accordance with Chapter 36.102 of the Texas Water Code.
- 3. A penalty under Chapter 36, Texas Water Code or the District's Rules is in addition to any other penalty provided by the law of this state and may be enforced by complaints filed in a court of competent jurisdiction in Gonzales County.
- 4. If the District prevails in any suit to enforce its Rules, it may, in the same action, recover reasonable fees for attorneys, expert witnesses, and other costs incurred by the District before the court. The amount of the attorney's fees shall be fixed by the court.
- 5. The Board shall notify the appropriate person or entity alleged to have committed a violation of the rules of the District by certified mail return receipt requested or by publication in a newspaper of general circulation in the District of the date of the public hearing to hear testimony about the circumstances regarding the enforcement action. Notice must be provided at least ten (10) days prior to the public hearing.
- 6. The Board, either on its own motion or upon receipt of sufficient written complaint, may at any time, after due notice to all interested parties, eite any person operating a well within the District to appear before it and require them to show cause why their operating authority or permit should not be suspended, canceled, revoked or otherwise restricted or limited for failure to comply with the Rules or Orders of the Board, any permit issued by the Board, or any relevant State statutes. A decision on suspending, cancelling or revoking permit authority may be contested under Rule 25.

Bruce Tieken President Gonzales County UWCD

RECEIVED AUG 1 2 2024

August 12, 2024

Board of Directors Gonzales County Underground Water Conservation District P.O. Box 1919 Gonzales, TX 78629

Dear Board of Directors:

August 12, 2024

Re: Permit Renewal Permit 10-15-01

As owners we respectfully request renewal of our Permit 10-15-01 at the original pumping rate of 375 gpm. We greatly appreciate your attention to the renewal of our permit. Thank you.

Sincerely,

Troy Kisner Kisner Enterprises, LLC 12 Scotsmoor Ct. Sugar Land, TX 77479

832-483-2604

Gonzales County Underground Water Conservation District

522 Saint Matthew Street P.O. Box 1919 Gonzales, TX 78629 Phone: 830.672.1047 Fax: 830.672.1387

Drilling and Production Permit Irrigation Well Permit No.: 10-15-01 GCUWCD Well ID: P005

| Let mit issued i d Mistick Diffest prises, DDC | Permit Issued T | o: Kisner | Enterprises, LLC | |
|--|-----------------|-----------|------------------|--|
|--|-----------------|-----------|------------------|--|

Mailing Address:12 Scotsmoor Ct.Sugarland, TX 77479

Telephone Number: 832-483-2604

Date Original Application Filled: August 15, 2015 Date Original Permit Granted: October 13, 2015 Date Second Permit Renewal Request Granted: October 08, 2019

Operating Permit Provisions: Total production is limited to 606 acre-feet per year The rate of production from a well or well field may vary throughout the year; however, the total production in a calendar year beginning on January 1st and ending on December 31st shall not exceed the permitted production for that year. Individual well production rates are allowed to increase up to 150% of the permitted production rate during peak demand periods

Aquifer Production Allocation: 1.0 acre-foot per acre from the Carrizo Aquifer

Maximum Pumping Capacity of Water Well: 901 gpm by the maximum well-to-property boundary offset distance in Rule 18.A

Term of Production Permit: 5 years

A permittee holding a drilling and production permit due to expire shall file a written request to reissue the permit to the General Manager no later than 30 days prior to the expiration date of the permit. The permit shall remain effective until final Board action on the reissue of the permit. Requests to reissue a permit shall be subject to review for substantial compliance with the rules of the District by the General Manager.

Any permit subject to reissue shall after due consideration and an affirmative vote by the Board be reissued for a period of five years in accordance to the rules in effect at the time of reissue.

- a. is delinquent in paying a fee required by the district;
- b. is subject to a pending enforcement action for a substantive violation of a district permit, order, or rule that has not been settled by agreement with the district or a final adjudication; or
- c. has not paid a civil penalty or has otherwise failed to comply with an order resulting from a final adjudication of a violation of a district permit, order, or rule.

An application for renewal of a permit that also requests a major amendment is subject to notice and hearing, and final approval by the Board. During consideration of a contested renewal application, the permit shall remain effective until final Board action on renewal of the permit.

Additional Conditions Applicable to Drilling and Production Permit:

A. General Conditions

Acceptance of the permit by the person to whom it is issued constitutes acknowledgment of and agreement to comply with all of the terms, provisions, conditions, limitations, and restrictions of these rules including, but not limited to, the following:

- 1. Permits are granted in accordance with the provisions of the Texas Water Code and the Rules, Management Plan and Orders of the District, and acceptance of the permit constitutes an acknowledgment and agreement that the permittee will comply with the Texas Water Code, the District Rules, Management Plan, Orders of the District Board, and all the terms, provisions, conditions, requirements, limitations and restrictions embodied in a permit.
- 2. A permit confers no vested rights in the holder, and it may be revoked or suspended, or its terms may be modified or amended pursuant to the provisions of the District's Rules.
- 3. The operation of a well for the authorized withdrawal must be conducted in a non-wasteful manner. In the event the groundwater is to be transported a distance greater than one-half mile from the well, it must be transported by pipeline to prevent waste caused by evaporation and percolation.
- 4. The permittee must keep records of the amount of groundwater produced and the purpose of the production and such records shall be available for inspection by District representatives. Immediate written notice must be given to the District in the event production exceeds the quantity authorized by a permit, or the well is either polluted or causing pollution of the aquifer. You must supply written documentation of your water usage annually to the District.
- 5. A well site must be accessible to District representatives for inspection, and the permittee agrees to fully cooperate in any reasonable inspection of the well and well site by District representatives.
- 6. Applications for which a permit is issued are incorporated in the permit and thus permits are granted on the basis of and contingent upon the accuracy of the information supplied in the application and any amendments to the application. A finding that false information has been supplied is grounds for immediate revocation of a permit. In the event of conflict between the provisions of a permit and the contents of the application, the provisions of the permit shall control.
- 7. Suspension or revocation of a permit may require immediate cessation of all activities granted by the permit.
- 8. Violation of a permit's terms, conditions, requirements or special provisions is punishable by civil penalties provided by the District's Rules.
- 9. Where ever special provisions in a permit are inconsistent with other provisions or District Rules, the special provisions prevail.
- 10. Changes in the withdrawal and use of groundwater during the term of a permit may not be made without prior approval of a permit amendment authorizing the change issued by the District.

B. Change of Ownership

A drilling or production permit may be transferred to another person through change of ownership of the well provided all permit conditions remain in compliance with District Rules and the District is notified, in advance, of the proposed change in ownership. The General Manager is authorized to effectuate the permit transfer.

C. Enforcement of Rules

All Rules duly adopted, promulgated and published by this District shall be enforced as provided for under Chapter 36, Texas Water Code.

- 1. The District may enforce Chapter 36, Texas Water Code and its Rules by injunction, mandatory injunction, or other appropriate remedy in a court of competent jurisdiction.
- 2. The Board by rule may set reasonable civil penalties for breach of any rule of the District not to exceed \$10,000 per day per violation, and each day of a continuing violation constitutes a separate violation in accordance with Chapter 36.102 of the Texas Water Code.
- 3. A penalty under Chapter 36, Texas Water Code or the District's Rules is in addition to any other penalty provided by the law of this state and may be enforced by complaints filed in a court of competent jurisdiction in Gonzales County.
- 4. If the District prevails in any suit to enforce its Rules, it may, in the same action, recover reasonable fees for attorneys, expert witnesses, and other costs incurred by the District before the court. The amount of the attorney's fees shall be fixed by the court.
- 5. The Board shall notify the appropriate person or entity alleged to have committed a violation of the rules of the District by certified mail return receipt requested or by publication in a newspaper of general circulation in the District of the date of the public hearing to hear testimony about the circumstances regarding the enforcement action. Notice must be provided at least ten (10) days prior to the public hearing.
- 6. The Board, either on its own motion or upon receipt of sufficient written complaint, may at any time, after due notice to all interested parties, cite any person operating a well within the District to appear before it and require them to show cause why their operating authority or permit should not be suspended, canceled, revoked or otherwise restricted or limited for failure to comply with the Rules or Orders of the Board, any permit issued by the Board, or any relevant State statutes. A decision on suspending, cancelling or revoking permit authority may be contested under Rule 25.

Bruce Ticken President Gonzales County UWCD

Date

RECEIVED AUG 0 9 2024

Seger, Permi industrial

> **Board of Directors** Gonzales County Underground Water Conservation District P. O. Box 1919 Gonzales, TX 78629 .

July 16, 2024

Permit Renewal Re: Permit GCP-##-##-##

10 - 14 - 01

Dear Board of Directors:

As owners we respectfully request renewal of our Permit GCP-##-##-at the original pumping rate of #gpm. We greatly appreciate your attention to the renewal of our permit.

Thank you.

· 91

Sincerely,

Signature

Name Address

PLEAS KENEW M

Ermit

Gonzales County Underground Water Conservation District

505 Saint Mathew P.O. Box 1919 Gonzales, TX 78629 Phone: 830.672.1047 Fax: 830.672.1387

Drilling and Production Permit Industrial Supply Well Permit No.: 10-14-01

| rermit issued to: oeger rainity investments, LL | Permit Issued To: | Seger Family Investments, | LLP |
|---|-------------------|---------------------------|-----|
|---|-------------------|---------------------------|-----|

Mailing Address: P.O. Box C Flatonia, TX 78941

Telephone Number: 361.401.2166

Date of Board Meeting:January 09, 2018Date Permit Granted:January 09, 2018Date Permit Renewal Required:January 09, 2023

Operating Permit Provisions: Total production is limited to 380 acre-feet per year

The rate of production from a well or well field may vary throughout the year; however, the total production in a calendar year beginning on January 1st and ending on December 31st shall not exceed the permitted production for that year. Individual well production rates are allowed to increase up to 150% of the permitted production rate during peak demand periods.

Aquifer Production Allocation: 1.0 acre-foot per acre from the Carrizo Aquifer

Maximum Pumping Capacity of Water Well: Limited to 440 gpm by the minimum well-to-property boundary offset distance in Rule 18.A

Term of Operating Permit: 5 years

A permittee holding a drilling and operating permit due to expire may file a written request to renew the permit to the General Manager no later than thirty (30) days prior to the expiration date of the permit. An operating permit subject to renewal shall be administratively renewed for a period of five years in accordance to the rules in effect at the time of renewal. Requests to renew a permit shall be subject to review for substantial compliance with the rules of the District by the General Manager.

The District is not required to renew a permit under this section if the applicant:

- a. is delinquent in paying a fee required by the district;
- b. is subject to a pending enforcement action for a substantive violation of a district permit, order, or rule that has not been settled by agreement with the district or a final adjudication; or
- c. has not paid a civil penalty or has otherwise failed to comply with an order resulting from a final adjudication of a violation of a district permit, order, or rule.

An application for renewal of a permit that also requests a major amendment is subject to notice and hearing, and final approval by the Board. During consideration of a contested renewal application, the permit shall remain effective until final Board action on renewal of the permit.

Additional Conditions Applicable to Operating Permits:

A. General Conditions

Acceptance of the permit by the person to whom it is issued constitutes acknowledgment of and agreement to comply with all of the terms, provisions, conditions, limitations, and restrictions of these rules including, but not limited to, the following:

- 1. Permits are granted in accordance with the provisions of the Texas Water Code and the Rules, Management Plan and Orders of the District, and acceptance of the permit constitutes an acknowledgment and agreement that the permittee will comply with the Texas Water Code, the District Rules, Management Plan, Orders of the District Board, and all the terms, provisions, conditions, requirements, limitations and restrictions embodied in a permit.
- 2. A permit confers no vested rights in the holder, and it may be revoked or suspended, or its terms may be modified or amended pursuant to the provisions of the District's Rules.
- 3. The operation of a well for the authorized withdrawal must be conducted in a non-wasteful manner. In the event the groundwater is to be transported a distance greater than one-half mile from the well, it must be transported by pipeline to prevent waste caused by evaporation and percolation.
- 4. The permittee must keep records of the amount of groundwater produced and the purpose of the production and such records shall be available for inspection by District representatives. Immediate written notice must be given to the District in the event production exceeds the quantity authorized by a permit, or the well is either polluted or causing pollution of the aquifer. You must supply written documentation of your water usage monthly to the District.
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Bruce Neken President Gonzales County UWCD

<u>1-9-18</u> Date