



# Southeast Texas Groundwater Conservation District

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## 2024 ANNUAL REPORT





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# DISTRICT INFORMATION

## CREATION OF THE DISTRICT



In 2003, the creation of the District was authorized by the 78<sup>th</sup> Texas Legislature through Senate Bill 1888. On November 2, 2004, the voters of Jasper and Newton Counties confirmed creation of the District. In 2005, the Commissioner's Courts of Hardin and Tyler Counties adopted a resolution requesting that Hardin and Tyler Counties be included in the District. On November 8, 2005, the voters of Hardin and Tyler Counties voted to become members of the Southeast Texas Groundwater Conservation District.

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## PURPOSE

The Southeast Texas Groundwater Conservation District was created to conserve, preserve, protect, recharge, and prevent waste of groundwater, and to control subsidence caused by withdrawal of groundwater within its boundaries. As part of the process of accomplishing its purpose, the District has adopted a Management Plan, which has been reviewed and approved by the Texas Water Development Board.

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## DISTRICT INFORMATION

The District encompasses, in their entirety, Jasper, Newton, Hardin, and Tyler Counties, which comprise an area of approximately 3,685 square miles with an estimated population of 121,226 people (U.S. Census Bureau 2020 data).

The District is included in two regional water planning groups: Region I, Regional Water Planning Group and Groundwater Management Area 14 (GMA 14). The District's General Manager, John Martin, is the current chairman of both the Region I Water Planning Group and Groundwater Management Area 14, and Director Starr is also voting members of the Region I Water Planning Group.

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### District Office

271 East Lamar • P.O. Box 1407  
Jasper, TX 75951

Phone: (409) 383-1577 • Fax: (409) 383-0799  
[www.setgcd.org](http://www.setgcd.org)



# BOARD OF DIRECTORS & STAFF

## EXECUTIVE COMMITTEE:



Olen Bean  
President



Bobby Rogers  
Vice President



Charles Zimmerman  
Secretary/Treasurer

## JASPER COUNTY REPRESENTATIVES:



Greg Kelley, Director  
Appointed by City of Jasper  
Large Municipal Water Utility  
Term: 2022 – 2024



Billy Ted Smith, Director  
Appointed by Jasper County  
Rural Water Utility  
Term: 2023 – 2025



Steven Black, Director  
Appointed by Jasper County  
Large Industrial  
Term: 2024 – 2026

## NEWTON COUNTY REPRESENTATIVES:



Cody Jones, Director  
Appointed by City of Newton  
Large Municipal Utility  
Term: 2022 – 2024



Deana Gibson, Director  
Appointed by Newton County  
Rural Water Utility  
Term: 2023 – 2025  
Partial Term, Apt. July 2024



Thomas Hawthorne, Director  
Appointed by Newton County  
Forestry, Agriculture, Industry  
Term: 2024 – 2026



# BOARD OF DIRECTORS & STAFF

## HARDIN COUNTY REPRESENTATIVES:



Sam Ashworth, Director  
Appointed by Hardin County  
Agricultural, Industrial  
Term: 2022 – 2024



Bobby Rogers, Sec./Tres  
Appointed by Hardin County  
Rural, Small Water Utility  
Term: 2023 – 2025



Robb Starr, Director  
Appointed by Hardin County  
Large Municipal Utility  
Term: 2024 – 2026

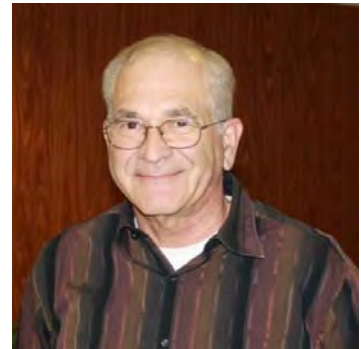
## TYLER COUNTY REPRESENTATIVES:



Ken Jobe, Director  
Appointed by Tyler County  
Rural, Small Water Utility  
Term: 2022 – 2024



Rick Russler, Director  
Appointed by Tyler County  
Large Municipal Utility  
Term: 2023 – 2025



Charles Zimmerman, Director  
Appointed by Tyler County  
Forestry, Agricultural, Industry  
Term: 2024 – 2026

## STAFF:



John Martin, General Manager

## GENERAL COUNSEL:



John D. Stover, General Counsel

# MANAGEMENT PLAN GOALS SUMMARY - 2024

## MANAGEMENT GOALS, PERFORMANCE STANDARDS, MANAGEMENT OBJECTIVES, AND METHODOLOGY

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Each year, an annual report will be created by the general manager and staff of the District and will be provided to the members of the Board. The annual report will cover the activities of the District including information on the District's performance in regards to achieving the District's management plan goals and objectives. The annual report will be delivered to the Board within one hundred and eighty (180) days following the completion of the District's fiscal year. A copy of the Annual Report will be kept on file and be made available for public inspection at the District's office upon adoption of the report by the Board.

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### **4.1 Providing the Most Efficient Use of Groundwater:**

4.1.1 Objective - Each year, the District will require all new exempt or non-exempt wells that are constructed within the boundaries of the District to be registered or permitted with the District in accordance with the District's Rules.

4.1.2 Performance Standard - The number of exempt and non-exempt wells registered or permitted by the District for the year will be incorporated into the District's Annual Report.

#### Performance Standard Met

*The number of Exempt wells registered in 2024: 281*

*The number of Non-Exempt wells permitted in 2024: 6*

*Additional data provided in Section 4*

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### **4.2 Controlling and Preventing the Waste of Groundwater in the District**

4.2.1 Objectives - Each year, the District will make an evaluation of the District Rules to determine whether any amendments are recommended to decrease the amount of waste of groundwater within the District.

4.2.2 Performance Standard - The District will include a copy of the meeting notice/agenda as well as the minutes of the meeting at which the District Rules were

discussed and the determination of whether any amendments to the rules are recommended to prevent the waste of groundwater in the District's Annual Report.

Performance Standard Met/Exceeded

*The District included this item on the June 13, 2024 agenda. Both the notice/agenda and meeting minutes are provided in Section 5.*

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4.2.3 Objective - Each year, the District will provide information to the public on eliminating and reducing wasteful practices in the use of groundwater by posting an article or newsletter on groundwater waste reduction on the District's website.

4.2.4 Performance Standard - Each year, a copy of the information provided in the groundwater waste reduction article or newsletter posted on the District's website will be included in the District's Annual Report.

Performance Standard Met

*An article titled "Drought Preparedness – Reduce Wasteful Practices to Bank Water for Future Use" was posted on the District's website and provided to local newspapers throughout the District. Printed webpages showing the date and time the article was posted to the District's website are provided in Section 5.*

Performance Exceeded

The District exceeded this objective by sending water conservation pamphlets directly to every new exempt domestic well owner upon receipt of the registration.

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### **4.3 Controlling and Preventing Subsidence.**

4.3.1 Objective – The District has reviewed the pertinent portions (Section 4.1.1 and 4.2.4) of the Texas Water Development Board's subsidence risk report: ***Identification of the Vulnerability of the Major and Minor Aquifers of Texas to Subsidence with Regard to Groundwater Pumping***, – as well as other sources for applicability to the Southeast Texas Groundwater Conservation District in an effort to better proactively manage subsidence.

At this time, there are no known occurrences of subsidence within the District. The District proactively strives to prevent subsidence from occurring by applying its Rules, meeting the goals of its management plan, and participating in joint planning efforts in both GMA 14 and the Region I Water Planning Group. Subsidence is one of the main considerations in groundwater management area planning and must be taken into consideration in the desired future conditions process prior to adopting new desired future conditions. The District will participate in this process by attending at least one Groundwater Management Area 14 meeting each year.



4.3.1 Performance Standard – A copy of the Groundwater Management Area 14’s meeting notice/agenda and sign-in sheets (or any other available evidence of attendance) will be included in the District’s annual report.

*Performance Standard Met*

*GMA 14 convened four meetings in 2024: February 29, 2024, May 14, 2024, August 29, 2024, and November 19, 2024. The District was in attendance at all four scheduled meetings. The notices/agendas and sign-in sheets are provided in Section 6.*

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4.3.2 Objective - Each year, the District will review the data from subsidence monitoring locations within the District boundaries and may pursue installation of additional PAM or CORs subsidence monitoring locations.

4.3.2. Performance Standard - Each year, a summary of the data related to subsidence monitoring stations within the District and installation of additional sites will be included in the Annual Report submitted to the Board of Directors of the District.

*Performance Standard Met*

Data provided from the Harris-Galveston Subsidence District’s interactive website subsidence monitoring stations is included in Section 6 of this Report. Currently 3 CORS stations located within the District are providing subsidence/surface elevation data (TXKO – located Hardin County, TXWO – located in Tyler County, and TXNE – located in Newton County).

*Performance Standard Exceeded*

The District exceeded this goal by approving and funding the installation a fourth CORS station in Jasper County. With the installation of the Jasper site, this will provide one subsidence monitoring station in each of the District’s four counties.

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**4.4 Addressing Conjunctive Surface Water Management Issues.**

4.4.1 Objective - The District will coordinate conjunctive surface water issues with the Angelina and Neches River Authority (ANRA), Lower Neches Valley Authority (LNVA), the Sabine River Authority (SRA), and the East Texas Regional Water Planning Group (also known as Region I), by either inviting the officials from the Planning Group and river authorities to attend a District meeting at least once a year or by attending at least one of the East Texas Regional Water Planning Group meetings each year.

4.4.2 Performance Standard. - A copy of the invitation letters to the Planning Group and the surface water providers, as well as evidence that the letters have been sent, via either U.S. Postal Service (registered/return receipt) or e-mail will be included in the District’s annual report, or a copy of the East Texas Regional Water Planning Group meeting notice(s) and sign in sheet(s) indicating a representative of the District was present will be included in the District’s Annual Report.

Performance Standard Met

The East Texas Regional Water Planning Group convened three meetings in 2024: January 10, 2024, February 15, 2024, and September 18, 2024. The District had at least one representative in attendance at each of the scheduled meetings. The notices/agendas and sign-in sheets are provided in Section 7.

Performance Standard Exceeded

This goal was exceeded as every Southeast Texas Groundwater Conservation District meeting notice/agenda is provided to the surface water entities within the District as well as to the Regional I Water Planning Group administrator who forwards the notice to all Region I Members.

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**4.5 Natural Resource Issues Affecting the Use and Availability of Groundwater or Affected by the Use of Groundwater.**

4.5.1 Objective - The District requires that all water wells used in conjunction with the exploration of hydrocarbons be registered with the District.

4.5.2 Performance Standard – Each month the Board will be provided information pertaining to any new water well registered and drilled for the purpose of hydrocarbon exploration and a summary of all these wells will be included in the District’s Annual Report.

Performance Standard Met

*Each month the Board of Directors is provided with a GIS map and a summary of each registration which is inclusive of all new wells registered for the purpose of hydrocarbon exploration. Copies of the data are provided in Section 8.*

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**4.6 Addressing Drought Conditions.**

4.6.1 Objectives - The District will post an article and/or drought index maps regarding drought conditions in the District at least annually on the District’s website.

4.6.2 Performance Standard - A copy of the article and/or drought index maps posted on the District’s website regarding drought conditions will be included in the District’s annual report.

Performance Standard Met

An article addressing drought conditions was published in the Summer 2024 issue of the SETGCD Well Monitor newsletter and posted to the District’s website on July 10, 2024. Additionally, each month the latest U.S. P.D.S.I map, the Texas Monthly P.D.S.I., and /or the U.S. Drought Monitor maps are posted to the District’s website. Copies of the article (via the newsletter) are included in the SETGCD Well Monitor newsletter in Appendix A

and copies of the monthly drought maps posted on the District's website are provided in Section 9.

Performance Standard Exceeded

The Performance Standard only requires an article regarding drought to be posted to the District's website, or drought maps be posted to the District's website annually. The District not only did both options, but updated drought maps to the District's website on a monthly basis. Additionally, drought maps were provided each month in the Manager's Report and provided to the District's Board.

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**4.7 Addressing Conservation, Recharge Enhancement, Rainwater Harvesting, Precipitation Enhancement, or Brush Control.**

Conservation is the only practice which is practicable in the District. The District does not consider recharge enhancement, precipitation enhancement, or brush control to be either necessary or practical at this time. Rainwater harvesting is not necessary due to the very high rainfall rate in the District. Therefore, these four goals are not applicable.

4.7.1 Objective - The District will annually submit an article regarding water conservation for publication to at least one newspaper of general circulation in Jasper, Newton, Hardin and Tyler Counties.

4.7.2 Performance Standard - A copy of the article submitted by the District for publication to a newspaper of general circulation in Jasper, Newton, Hardin and Tyler Counties regarding water conservation will be included in the District's annual report.

Performance Standard Met

*An article titled "Drought Preparedness – Reduce Wasteful Practices to Bank Water for Future Use" was sent to 4 area newspapers on June 24, 2024. The Article was also provided to the East Texas Banner which is now an online only publication. The article was published on the East Texas Banner website on June 25, 2024 as well as being posted on the District's website on June 24, 2024. A copy of the article and letters to the newspapers are provided in Section 10.*

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4.7.3 Objective - The District will publish and mail or email, at least once annually, an informative flier or newsletter on water conservation and related issues to groundwater use permit holders. A copy of the flier or newsletter shall also be made available on the District's website.

4.7.4 Performance Standard – A copy of the flier or newsletter on water conservation and related issues, along with the mailing/emailing list of the permit holders to whom it was provided shall be included in the District's annual report.

Performance Standard Met



*The District published the Summer 2024 SETGCD Well Monitor newsletter on July 9, 2024 and emailed or mailed it to all permit holders on the same day. A copy of the newsletter along with the list of permit holders is provided in Appendix A.*

*Performance Standard Exceeded*

This goal was exceeded by not only providing the newsletter to permit holders throughout the District but to all VIPs (county officials, city officials, and city managers and engineers) as well as licensed water well drillers with business addresses within the District or in neighboring counties.

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**4.8 Addressing in a Quantitative Manner the Desired Future Conditions**

4.8.1 Objective - The District will monitor groundwater conditions within the District by measuring the static water levels in at least fifteen (15) monitor wells annually.

4.8.2 Performance Standard – The recorded static water levels of the fifteen (15) monitor wells will be included in the District’s annual report.

Performance Standard Met

The District recorded static water levels from ≈50 observation wells on two separate occasions (spring 2024 and fall 2024). The static water level data for these wells is provided in Section 11.

*Performance Standard Exceeded*

This goal was exceeded by recording the static water levels from three times the number of required wells, not just once annually, but twice (spring and fall). Additionally, the District in conjunction with the GMA 14 Members has been reviewing static water level data on a regional basis and the static water level information gathered by the District was most recently utilized in a report provide by Lone Star GCD consultant James Beach on February 29, 2024.

# GOAL 4.1

## PROVIDING THE MOST EFFICIENT USE OF GROUNDWATER

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### Objective

1. *Each year, the District will require all new exempt or permitted wells that are constructed within the boundaries of the District to be registered or permitted with the District in accordance with the District's Rules.*

### Performance Standard

1. *The number of exempt and non-exempt wells registered or permitted by the District for the year will be incorporated into the District's Annual Report.*
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### OBJECTIVE 1

The District enters all registered and permitted wells into its ArcMap Database. The database not only provides the District with the number and types of wells being drilled, but also their specific location, and after receipt of the driller's Well Report, the well depth and static water level. The following tables show a breakdown of the number of new exempt and non-exempt wells registered and/or permitted by county and type, followed by two tables with totals for the entire District. Additional tables are included comparing previous years with the 2024 data.

As you can see, the District had a total of 281 exempt wells registered in 2024. The District also had six non-exempt wells permitted in 2024. Overall, the 281 exempt wells registered in 2024 was approximately a 1.4% increase from 2023. If we look at all wells registered over the past 5 and 10 year time periods the total number of wells registered is down 9% compared to the previous 5-year average, and down approximately 5% compared to the previous 10-year average. The oil & gas related well category was stable with 2023 and 2024 each seeing 12 wells registered. Although there was an minor increase in the number of non-exempt wells registered in 2024, the District saw the exact same total number of wells registered and permitted in 2024 as were in 2023, at 287 wells each year. This is due to the higher number of non-exempt wells permitted in 2023.

Included in this section are ArcMap GIS location maps for each county. These maps show the location of each exempt well registered and non-exempt well permitted in 2024, as well as information regarding ownership, date of registration/permitting, and the identity of the driller. A map showing the locations of all the water wells that were plugged within the District in 2024 is also included. The number of wells plugged in 2024 was 17.

# GOAL 4.1

Also included in this section is a table showing how many wells were drilled into each layer of the Gulf Coast Aquifer. In the far northern portions of the District the data is incomplete as it is likely that it is the Catahoula layer of the aquifer that is being utilized. When reviewing the new well data for each county these wells are categorized as N/A or U/K for the Aquifer Layer and Geologic Layer. The following is a breakdown of which layer is being utilized, the number of wells drilled and the overall percentage:

<b>AQUIFER LAYER</b>	<b>TOTAL NUMBER OF WELLS DRILLED</b>	<b>PERCENT</b>
<b>Chicot</b>	201	70.00%
<b>Evangeline</b>	2	00.70%
<b>Burkeville</b>	1	00.35%
<b>Jasper</b>	27	9.75%
<b>U/K (likely Catahoula)</b>	33	12.20%

Note: this table is not inclusive of all wells registered/permitted in 2024 with approximately 7% of the State Well Reports having not yet been submitted or the wells have not yet been drilled. These numbers are very similar to the past several years in that majority of wells are drilled into the Chicot layer of the Gulf Coast Aquifer, with the Jasper layer making up the majority of the remaining percentage (of wells with known aquifer layer data).



# GOAL 4.1

## COUNTY TOTALS

<b>Jasper County</b>	<b>Number of Wells - 2024</b>
Exempt/Registered Wells - Domestic	78
Exempt/Registered Wells - Other	3
Exempt/Registered Wells - Oil and Gas Related	9
Non-Exempt Wells – Industrial / Commercial	1
Non Exempt Wells – Public Water Supply	2
<i>Plugged Wells</i>	4
<b>TOTAL REGISTERED/PERMITTED WELLS</b>	<b>87 / 3</b>

<b>Newton County</b>	<b>Number of Wells - 2024</b>
Exempt/Registered Wells - Domestic	30
Exempt/Registered Wells - Other	2
Exempt/Registered Wells - Oil and Gas Related	0
Non-Exempt Wells – Industrial / Commercial	0
Non Exempt Wells – Public Water Supply	1
<i>Plugged Wells</i>	3
<b>TOTAL REGISTERED/PERMITTED WELLS</b>	<b>32 / 1</b>

<b>Hardin County</b>	<b>Number of Wells - 2024</b>
Exempt/Registered Wells - Domestic	87
Exempt/Registered Wells - Other	6
Exempt/Registered Wells - Oil and Gas Related	3
Non Exempt Wells – Industrial/Commercial	0
Non Exempt Wells – Public Water Supply	1
<i>Plugged Wells</i>	5
<b>TOTAL REGISTERED/PERMITTED WELLS</b>	<b>96 / 1</b>

<b>Tyler County</b>	<b>Number of Wells - 2024</b>
Exempt/Registered Wells - Domestic	60
Exempt/Registered Wells - Other	3
Exempt/Registered Wells - Oil and Gas Related	0
Non Exempt Wells – Industrial/Commercial	0
Non Exempt Wells – Public Water Supply	1
<i>Plugged Wells</i>	5
<b>TOTAL REGISTERED/PERMITTED WELLS</b>	<b>63 / 1</b>

# GOAL 4.1

## DISTRICT WIDE TOTALS

<b>Total</b>	<b>Number of Wells – 2024</b>
Exempt/Registered Wells – Domestic	255
Exempt/Registered Wells – Other	14
Exempt/Registered Wells – Oil and Gas Related	12
Non Exempt/Permitted – Industrial/Commercial	1
Non Exempt/Permitted – Public Water Supply	5
<i>Plugged Wells</i>	17
<b>TOTAL REGISTERED/PERMITTED WELLS</b>	<b>281 / 6</b>

## TOTAL EXEMPT-REGISTERED / NON-EXEMPT-PERMITTED

<b>Total</b>	<b>Number of Wells - 2024</b>
Exempt/Registered Wells	281
Non Exempt/Permitted Wells	6

# Goal 4.1 – Multi Year Comparison

## Registered & Permitted Wells Annual Comparison 2014 – 2024

<b>Jasper County</b>	<b>2024</b>	<b>2023</b>	<b>2022</b>	<b>2021</b>	<b>2020</b>	<b>2019</b>	<b>2018</b>	<b>2017</b>	<b>2016</b>	<b>2015</b>	<b>2014</b>
Exempt/Registered Wells - Domestic	78	75	91	109	98	82	84	71	76	82	73
Exempt/Registered Wells - Other	3	7	5	1	4	4	1	0	0	1	2
Exempt/Registered Wells - Oil Gas Related	9	2	7	2	4	7	2	8	5	1	22
Non-Exempt Wells – Industrial/Commercial	1	2	0	0	0	0	0	0	1	3	0
Non-Exempt – Public Water Supply	2	0	0	0	0	0	0	0	0	1	1
<b>TOTAL REGISTERED/PERMITTED</b>	<b>93</b>	<b>86</b>	<b>103</b>	<b>112</b>	<b>106</b>	<b>93</b>	<b>87</b>	<b>79</b>	<b>82</b>	<b>88</b>	<b>98</b>

<b>Newton County</b>	<b>2024</b>	<b>2023</b>	<b>2022</b>	<b>2021</b>	<b>2020</b>	<b>2019</b>	<b>2018</b>	<b>2017</b>	<b>2016</b>	<b>2015</b>	<b>2014</b>
Exempt/Registered Wells - Domestic	30	27	46	53	49	35	42	47	36	37	40
Exempt/Registered Wells - Other	2	3	0	1	1	1	2	1	0	7	2
Exempt/Registered Wells - Oil Gas Related	0	0	3	1	3	2	2	6	4	3	9
Non-Exempt Wells – Industrial/Commercial	0	0	0	0	0	0	0	0	0	0	0
Non-Exempt – Public Water Supply	1	0	0	1	0	0	0	0	0	1	0
<b>TOTAL REGISTERED/PERMITTED</b>	<b>33</b>	<b>30</b>	<b>49</b>	<b>56</b>	<b>53</b>	<b>38</b>	<b>46</b>	<b>54</b>	<b>40</b>	<b>48</b>	<b>51</b>

<b>Hardin County</b>	<b>2024</b>	<b>2023</b>	<b>2022</b>	<b>2021</b>	<b>2020</b>	<b>2019</b>	<b>2018</b>	<b>2017</b>	<b>2016</b>	<b>2015</b>	<b>2014</b>
Exempt/Registered Wells - Domestic	87	84	87	70	84	73	84	92	71	79	66
Exempt/Registered Wells - Other	6	4	10	2	7	5	4	3	2	0	7
Exempt/Registered Wells - Oil Gas Related	3	3	1	0	0	6	3	3	2	5	7
Non-Exempt Wells – Industrial/Commercial	0	8*	1	2	0	0	0	0	0	0	0
Non-Exempt – Public Water Supply	1	0	0	0	0	0	0	0	0	0	2
<b>TOTAL REGISTERED/PERMITTED</b>	<b>97</b>	<b>99</b>	<b>99</b>	<b>74</b>	<b>91</b>	<b>84</b>	<b>91</b>	<b>98</b>	<b>75</b>	<b>84</b>	<b>82</b>

# Goal 4.1 – Multi Year Comparison

<b>Tyler County</b>	<b>2024</b>	<b>2023</b>	<b>2022</b>	<b>2021</b>	<b>2020</b>	<b>2019</b>	<b>2018</b>	<b>2017</b>	<b>2016</b>	<b>2015</b>	<b>2014</b>
<b>Exempt/Registered Wells - Domestic</b>	60	62	73	71	55	45	48	47	51	62	57
<b>Exempt/Registered Wells - Other</b>	3	3	2	5	3	3	0	2	1	1	2
<b>Exempt/Registered Wells - Oil Gas Related</b>	0	7**	15	13	0	4	3	8	5	3	17
<b>Non Exempt Wells – Industrial/Commercial</b>	0	0	1	0	0	0	0	0	0	0	0
<b>Non Exempt Wells – Public Water Supply</b>	1	0	0	0	1	0	0	0	1	0	2
<b>TOTAL REGISTERED/PERMITTED</b>	<b>64</b>	<b>72</b>	<b>91</b>	<b>89</b>	<b>59</b>	<b>52</b>	<b>51</b>	<b>57</b>	<b>58</b>	<b>66</b>	<b>78</b>

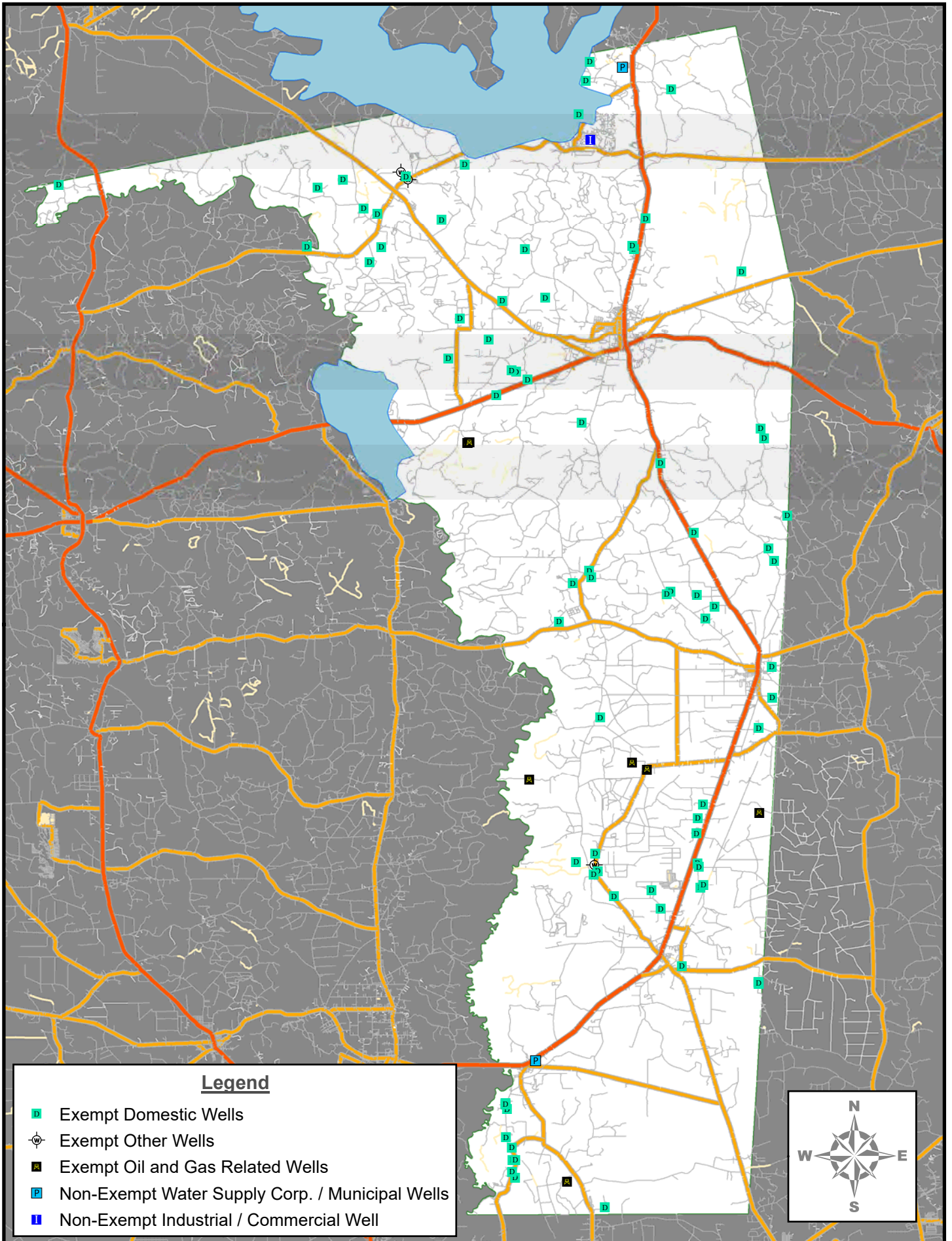
## DISTRICT WIDE TOTALS

<b>Total</b>	<b>2024</b>	<b>2023</b>	<b>2022</b>	<b>2021</b>	<b>2020</b>	<b>2019</b>	<b>2018</b>	<b>2017</b>	<b>2016</b>	<b>2015</b>	<b>2014</b>
<b>Exempt/Registered Wells - Domestic</b>	255	248	297	303	286	235	258	257	234	260	236
<b>Exempt/Registered Wells - Other</b>	14	17	17	9	15	13	7	6	3	9	13
<b>Exempt/Registered Wells - Oil Gas Related</b>	12	12	26	16	7	19	10	25	16	12	55
<b>Non Exempt Wells – Industrial/Commercial</b>	1	10	2	2	0	0	0	0	1	3	0
<b>Non Exempt Wells – Public Water Supply</b>	5	0	0	1	1	0	0	0	1	2	5
<b>TOTAL REGISTERED/PERMITTED</b>	<b>287</b>	<b>287</b>	<b>342</b>	<b>331</b>	<b>309</b>	<b>267</b>	<b>275</b>	<b>288</b>	<b>255</b>	<b>286</b>	<b>309</b>

Average number of Exempt/Registered wells for the previous 10-year period 2014 – 2023 is 294.9

Average number of Exempt/Registered wells for the previous 5-year period 2019 – 2023 is 307.2

# Wells Registered / Permitted - Jasper County - 2024



# Jasper County Exempt Domestic Wells - 2024

ID NO.	COMMENT	OWNER LAST	OWNER FIRST	DRILLER LAST	DRILLER FIRST	DATE REG.	Aquifer	Geologic Layer
5978	New Well		Lori	Jones	Bobby	01/06/2024	U/K	U/K
5987	New Well		Milton	Bishop	Nathan	01/29/2024	<null>	<null>
5992	New Well		Lowell	Jones	Bobby	02/06/2024	U/K	U/K
5993	New Well		Josh	Paskell	Keith	02/08/2024	Chicot	Lissie
6004	New Well		Corey	Paskell	Keith	02/22/2024	Chicot	Lissie
6009	New Well		James	Paskell	Keith	02/28/2024	Chicot	Willis
6018	New Well		James	Jones	Bobby	03/06/2024	Chicot	Willis
6019	New Well		RC	Paskell	Keith	03/11/2024	Chicot	Lissie
6120	New Well		Katrina	Paskell	Keith	03/11/2024	Chicot	Lissie
6026	Replacement Well		Elvie	Jones	Bobby	03/13/2024	Chicot	Willis
6034	New Well		David	Jones / Payne	Bobby / Dillin	03/26/2024	Jasper	Oakville
6036	New Well		Thomas	Jones	Bobby	03/26/2024	Chicot	Willis
6041	New Well		Whitney	Turk	Mitch	04/01/2024	Chicot	Lissie
6043	New Well		Clint	Paskell	Keith	04/03/2024	Chicot	Lissie
6047	New Well		Jerry	Paskell	Keith	04/05/2024	Chicot	Lissie
6052	New Well		Tom	Gore	Dale	04/15/2024	U/K	U/K
6053	New Well		Jimmy	Gore	Dale	04/15/2024	U/K	U/K
6056	New Well		Thomas	Bishop	Nathan	04/17/2024	Jasper	Oakville
6058	New Well		Kyler	Paskell	Keith	04/18/2024	Chicot	Lissie
6068	New Well / Late Reg.		David	Dillin Payne	BJs Water Wells	04/18/2024	Chicot	Lissie
6071	New Well / Late Reg.		Chris	Dillin Payne	BJs Water Wells	04/18/2024	N/A	N/A
6072	New Well / Late		Richard	Dillin Payne	BJs Water Wells	04/24/2024	Jasper	Oakville



# Jasper County Exempt Domestic Wells - 2024

ID NO.	COMMENT	OWNER LAST	OWNER FIRST	DRILLER LAST	DRILLER FIRST	DATE REG.	Aquifer	Geologic Layer
	Reg.							
6074	New Well		Justin	Gore	Dale	04/25/2024	U/K	U/K
6077	New Well / Late Reg.		Kelly	Jones	Bobby	04/30/2024	<null>	<null>
6080	New Well		Patrick	Jones	Bobby	05/08/2024	Jasper	Lower Lagarto
6089	New Well		Warren	Bishop	Nathan	05/15/2024	Chicot	Willis
6095	Replacement Well		Kevin	Gore	Dale	05/21/2024	Jasper	Oakville
6096	New Well		Adam	Paskell	Keith	05/22/2024	<null>	<null>
6099	New Well		Adam	Paskell	Keith	05/23/2024	Chicot	Lissie
6108	Replacement Well		Kimberley	Jones	Bobby	06/10/2024	U/K	U/K
6115	New Well / Late Reg. - Digital Mishap?		Shane	Jones	Bobby	06/17/2024	U/K	U/K
6116	New Well		Tim	Jones	Bobby	06/17/2024	Chicot	Willis
6118	New Well		Danny	Jones	Bobby	06/18/2024	U/K	U/K
6127	New Well		Randy	Bishop	Nathan	06/24/2024	U/K	U/K
6129	New Well		Derek	Bell	Evan	06/25/2024	Chicot	Willis
6135	New Well		Joe	Bishop	Nathan	07/01/2024	Jasper	Oakville
6138	New Well		Ritchie	Bishop	Nathan	07/11/2024	U/K	U/K
6140	New Well		Tyler	Turk	Mitch	07/15/2024	Chicot	Lissie
6142	New Well		Kendra	Bishop	Nathan	07/16/2024	U/K	U/K
6152	New Well		Edward	Jones	Whit	08/01/2024	Chicot	Willis
6153	New Well		Brandon	Paskell	Keith	08/01/2024	Chicot	Lissie
6170	New Well		Jeff	Bishop	Nathan	08/21/2024	Chicot	Willis
6176	New Well		Brandon	Gore	Dale	08/28/2024	U/K	U/K
6179	New Well		James	Gore	Dale	08/29/2024	U/K	U/K
6188	New Well		Todd	Bishop	Nathan	09/16/2024	<null>	<null>

# Jasper County Exempt Domestic Wells - 2024

ID NO.	COMMENT	OWNER LAST	OWNER FIRST	DRILLER LAST	DRILLER FIRST	DATE REG.	Aquifer	Geologic Layer
6190	Replacement Well		Wendell	Jones	Whit	09/17/2024	Chicot	Lissie
6192	New Well		Rebecca	Jones	Whit	09/17/2024	Chicot	Lissie
6196	New Well		Colby	Paskell	Keith	09/18/2024	Chicot	Lissie
6200	New Well		Jimmy	Turk	Mitch	09/21/2024	Chicot	Lissie
6202	New Well		Jonathon	Bishop	Nathan	09/24/2024	Chicot	Lissie
6205	New Well		Richard	Paskell	Keith	09/30/2024	Chicot	Lissie
6211	New Well		Jana	Turk	Mitch	10/08/2024	Chicot	Lissie
6212	New Well		William	Jones	Bobby	10/09/2024	<null>	<null>
6216	New Well		Leo	Bishop	Nathan	10/10/2024	Chicot	Willis
6222	New Well		Ronnie	Bishop	Nathan	10/17/2024	Jasper	Oakville
6224	New Well		Berry	Paskell	Keith	10/18/2024	Chicot	Lissie
6225	New Well		Heather	Bishop	Nathan	10/18/2024	Jasper	Oakville
6229	New Well		Jonathan	Paskell	Keith	10/24/2024	Chicot	Lissie
6232	New Well		Mickey	Paskell	Keith	11/02/2024	Chicot	Lissie
6236	<null>		Matthew	Gore	Dale	11/07/2024	U/K	U/K
6243	New Well		Ross	Jones	Bobby	11/11/2024	<null>	<null>
6245	New Well		John	Gore	Dale	11/12/2024	Chicot	Willis
6247	New Well		Greggory	Paskell	Keith	11/14/2024	Chicot	Lissie
6248	Replacement Well		Karmen	Gore	Dale	11/15/2024	U/K	U/K
6249	New Well		Ricky	Paskell	Keith	11/15/2024	Chicot	Lissie
6253	New Well		Calvin and	Bell	Evan	11/19/2024	<null>	<null>
6256	New Well		Robert	Paskell	Keith	11/21/2024	Chicot	Willis
6255	New Well		Wayne	Paskell	Keith	11/25/2024	Chicot	Lissie
6262	New Well		Felix	Bishop	Nathan	11/27/2024	Chicot	Lissie

# Jasper County Exempt Domestic Wells - 2024

ID NO.	COMMENT	OWNER LAST	OWNER FIRST	DRILLER LAST	DRILLER FIRST	DATE REG.	Aquifer	Geologic Layer
6263	New Well		Erica	Jones	Bobby	11/29/2024	<null>	<null>
6264	New Well		Ken	Bishop	Nathan	12/02/2024	Chicot	Willis
6269	New Well		Dustin	Jones	Whit	12/02/2024	Chicot	Lissie
6266	New Well		Ty	Bishop	Nathan	12/03/2024	<null>	<null>
6270	New Well / Re-registered - New Driller		Jordan	Turk	Mitch	12/11/2024	Chicot	Lissie
6272	New Well		Adam	Paskell	Keith	12/11/2024	<null>	<null>
6276	New Well		Billy	Paskell	Keith	12/14/2024	<null>	<null>
6278	New Well		Brandon	Holmes	Kenneth	12/18/2024	Chicot	Lissie
6281	Replacement Well		Esteban	Jones	Whit	12/19/2024	<null>	<null>

## Jasper County Exempt Other Wells - 2024

ID NO.	COMMENT	OWNER LAST	OWNER FIRST	DRILLER LAST	DRILLER FIRST	DATE DRILLED	Aquifer	Geologic Layer
436	Emergency Mgt. Well	River VFD	Angenlia	Ritter	Blake	02/01/2024	U/K	U/K
445	Ag. / Livestock		Bo	Jone	Bobby	06/20/2024	U/K	U/K
449	New Well / Emergency Mgt.	Jasper County ESD #1	Billy Smith	Bishop	Nathan	10/07/2024	Chicot	Lissie

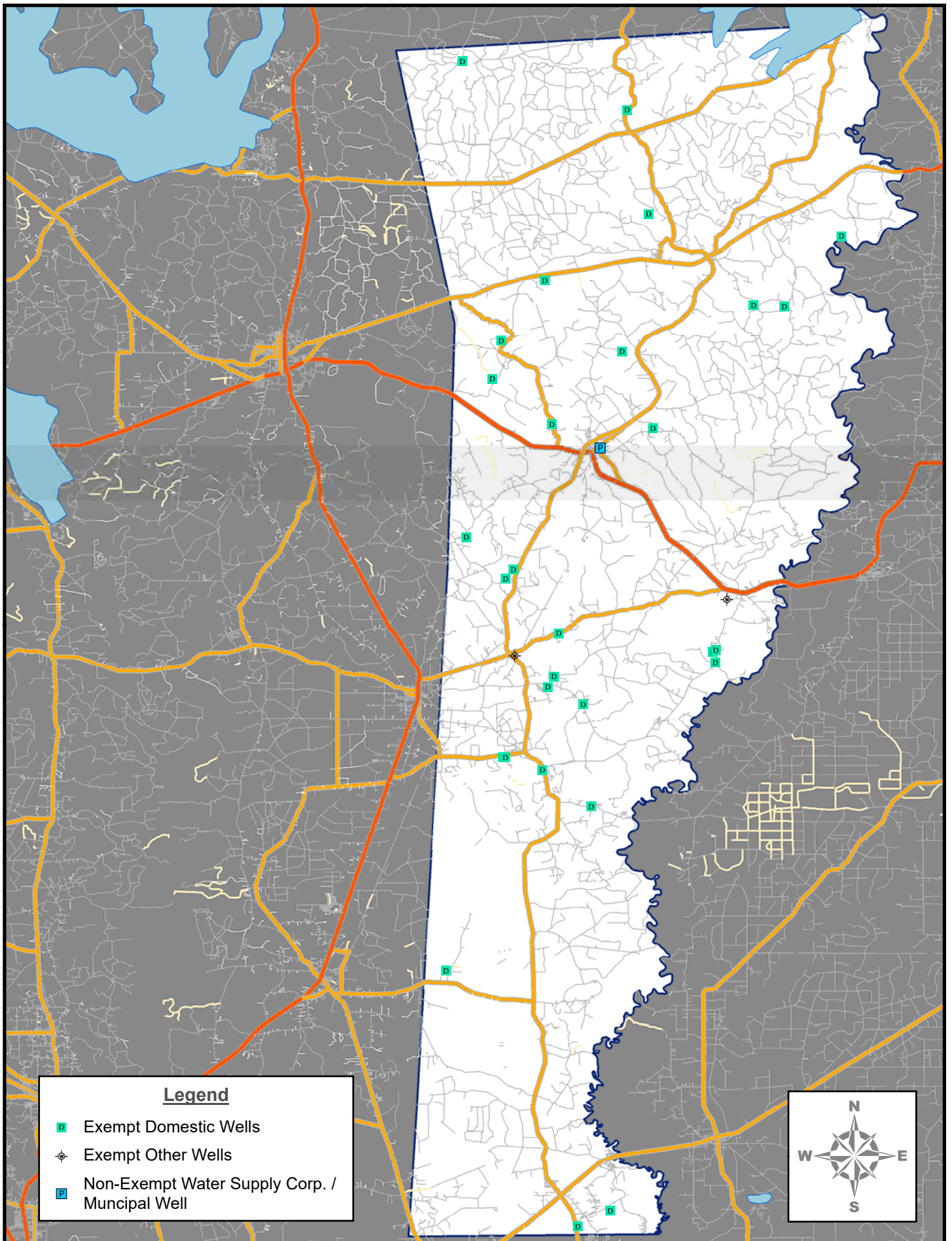
## Jasper County Oil & Gas Related Wells - 2024

WELL OWNER	WELL NAME	DRILLING CO.	DATE DRILLED	Plugged_	FRACKED?	Aquifer	Geologic Layer
Paleo Oil Company	Monarch #1	Pinnergy LTD	03/28/2024	N	N	Chicot	Lissie
Zarvona Energy	Fistful of BS 1H WW#1	J&S Water Wells	05/29/2024	Y	N	Jasper	Lower Lag. / Oak
Zarvona Energy	Fistful of BS 1H WW#3	J&S Water Wells	06/04/2024	N	N	Jasper	Lower Lag. / Oak
Zarvona Energy	Fistful of BS 1H WW#2	J&S Water Wells	06/05/2024	N	N	Jasper	Lower Lag. / Oak
Zarvona Energy	Fistful of BS 1H WW#1	J&S Water Wells	06/07/2024	N	N	Jasper	Lower Lag. / Oak
Atoka Energy, LLC	Barracuda#1	George Bellenger	07/31/2024	N	N	Chicot	Lissie
Forza Operating, LLC	Forestar Minerals #3	George Bellenger Water	08/19/2024	Y	N	Chicot	Lissie
Cameron Exploration, Inc.	BPX #1	NL Bishop Drilling	09/18/2024	N	N	Chicot	Lissie
Forza Operating, LLC	Cypress Creek BP #2	George Bellenger Water	10/13/2024	N	N	Chicot	Lissie

# Jasper County Non-Exempt Public Water Supply Well Permitted 2024

ID NO.	COMMENT	OWNER	Drilling_Company	Date_Permitted	Geologic Layer	Aquifer
296	Replacement Well for "illegal" well	Chris Tyre		01/16/2024		
303	Replacement Well for #3	Evadale WC & ID		11/18/2024		

# Wells Registered / Permitted - Newton County - 2024





# Newton County Exempt Domestic Wells - 2024

ID NO.	COMMENT	OWNER LAST	OWNER FIRST	DRILLER LAST	DRILLER FIRST	DATE REG.	Aquifer	Geologic Layer
5977	New Well		Robert	Jones	Bobby	01/06/2024	Chicot	Lissie / Willis
5979	New Well		Mike	Paskell	Keith	01/11/2024	Chicot	Beaumont
5988	New Well		Colby	Bishop	Nathan	02/05/2024	<null>	<null>
5996	New Well		James	Bishop	Nathan	02/12/2024	Evaneline	Upper Lagarto
6008	New Well		Dearriago	Gore	Dale	02/27/2024	Chicot	Lissie
6050	New Well		John	Bishop	Nathan	04/08/2024	<null>	<null>
6062	New Well / Reg. Late		John	Bishop	Nathan	04/18/2024	Chicot	Willis
6064	New Well		Karl	Bishop	Nathan	04/22/2024	Chicot	Willis
6073	New Well		William	Bishop	Nathan	04/25/2024	Chicot	Lissie
6091	New Well / Owner Drilled		Herman	Gonzalez	Herman	05/20/2024	<null>	<null>
6092	New Well		Dawson	Paskell	Keith	05/21/2024	Chicot	Lissie
6097	New Well		Brandon	Jones	Bobby	05/21/2024	Chicot	Willis
6100	New Well		Balint	Bishop	Nathan	05/23/2024	Evangeline	Upper Lagarto
6123	New Well		Charles	Bishop	Nathan	06/20/2024	Chicot	Willis
6130	New Well		Yshica	Bishop	Nathan	06/26/2024	Chicot	Lissie
6131	New Well		Herbert	Bishop	Nathan	06/26/2024	Burkeville	Middle Lagarto
6132	New Well		Robert	Jones	Bobby	06/28/2024	Chicot	Lissie / Willis
6146	New Well		Jason	Bishop	Nathan	07/22/2024	U/K	U/K
6148	New Well		James	Jones	Bobby	07/23/2024	Jasper	Lower Lagarto
6161	New Well		Delbert	Bishop	Nathan	08/14/2024	Jasper	Lower Lagarto
6164	New Well		Carol	Bishop	Nathan	08/15/2024	Chicot	Lissie
6195	New Well		Paul	Jones	Bobby	09/02/2024	<null>	<null>

## Newton County Exempt Domestic Wells - 2024

ID NO.	COMMENT	OWNER LAST	OWNER FIRST	DRILLER LAST	DRILLER FIRST	DATE REG.	Aquifer	Geologic Layer
6182	New Well		Mark	Paskell	Keithy	09/03/2024	Jasper	Lower Lagarto
6185	New Well		Chase	Bishop	Nathan	09/06/2024	Chicot / Burkeville	Willis / Mid Lagarto
6210	New Well		Van	Jones	Bobby	10/07/2024	<null>	<null>
6251	New Well		Scott	Bishop	Nathan	11/19/2024	Chicot	Lissie
6252	New Well		Drquon	Bishop	Nathan	11/20/2024	Chicot	Willis
6265	New Well		Jay	Jones	Bobby	12/03/2024	<null>	<null>
6283	New Well		Conner	Paskell	Keith	12/21/2024	<null>	<null>
6284	New Well		Lloyd	Gore	Dale	12/30/2024	<null>	<null>

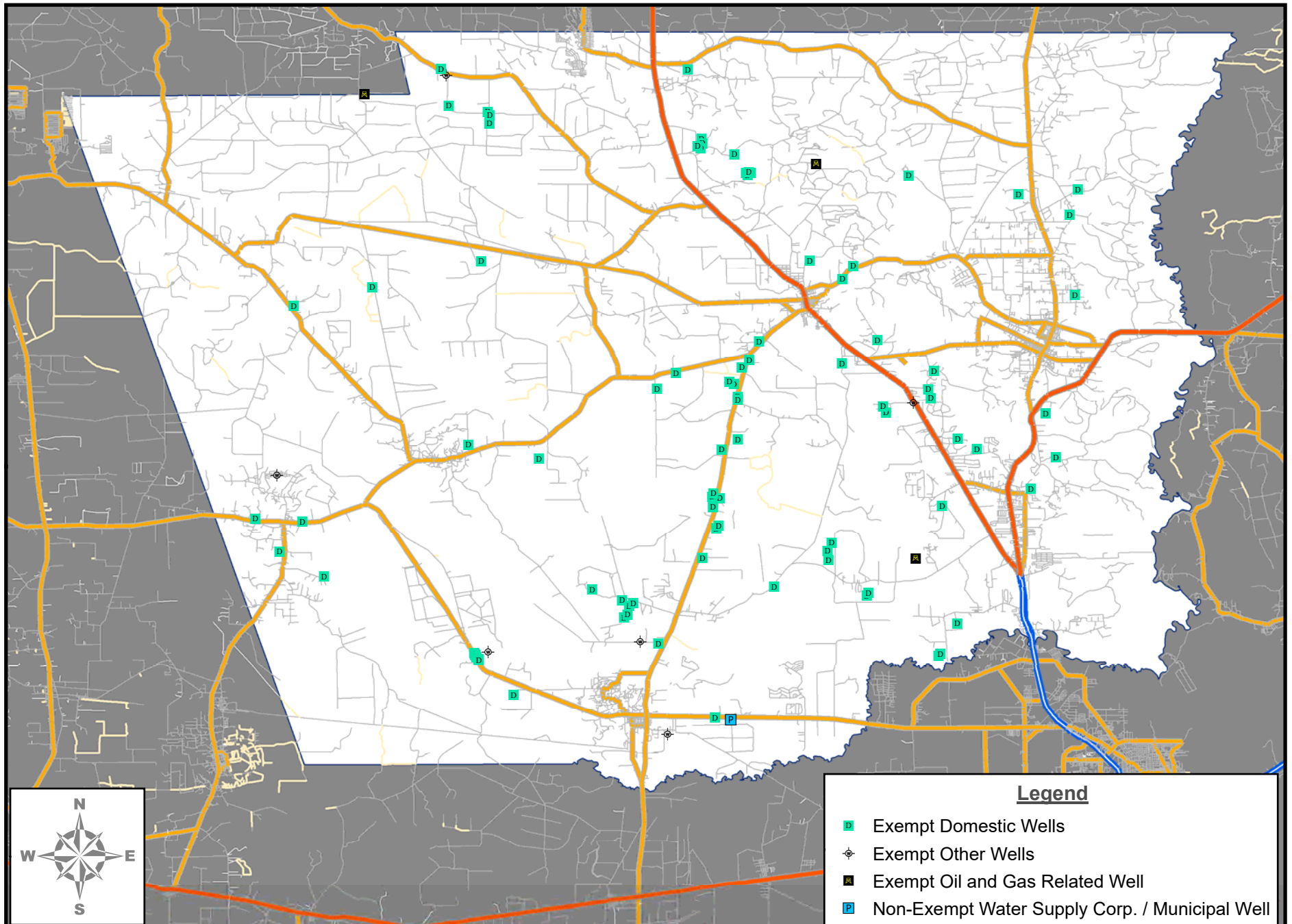
## Newton County Exempt Other Wells - 2024

ID NO.	COMMENT	OWNER LAST	OWNER FIRST	DRILLER LAST	DRILLER FIRST	DATE REG.	Aquifer	Geologic Layer
441	Less Than 25,000 gpd		Ray	Bishop	Nathan		Chicot	Lissie
452	New Well / Agriculture		Breck	Gore	Dale	11/13/2024	Chicot	Willis

## Newton County - Non-Exempt - Public Water Supply Well Permitted 2024

ID NO.	COMMENT	OWNER LAST	OWNER FIRST	DRILLER LAST	DRILLER FIRST	DATE REG.	Aquifer
299	Replacement Well	City of Newton		Russel Drilling		01/16/2024	Lower Lagarto Jasper

# Wells Registered / Permitted in Hardin County - 2024



# Hardin County Exempt Domestic Wells - 2024

ID NO.	COMMENT	OWNER LAST	OWNER FIRST	DRILLER LAST	DRILLER FIRST	DATE REG.	Aquifer	Geologic Layer
5980	New Well		Lance	Turk	Mitch	01/10/2024	Chicot	Lissie
5982	New Well		Jace	Turk	Mitch	01/19/2024	Chicot	Lissie
5983	New Well		Charles	Bell	Evan	01/20/2024	Chicot	Lissie
5985	New Well		Anna	Paskell	Keith	01/31/2024	Chicot	Lissie
5984	New Well		Jocelyn	Turk	Mitch	02/01/2024	Chicot	Lissie
5986	New Well		Kathlyn	Paskell	Keith	02/02/2024	Chicot	Lissie
5990	New Well		Justin	Turk	Mitch	02/06/2024	Chicot	Lissie
5995	New Well		Brent	Turk	Mitch	02/09/2024	Chicot	Willis
5999	New Well - Hand Pump		Chris	Jones	Whit	02/14/2024	Chicot	Lissie
5997	New Well		James	Turk	Mitch	02/15/2024	Chicot	Lissie
6000	New Well		Dwayne	Allen	Matthew	02/20/2024	<null>	<null>
6002	New Well		Pat	Turk	Mitch	02/21/2024	Chicot	Lissie
6003	New Well		Dennis	Turk	Mitch	02/22/2024	Chicot	Lissie
6005	New Well		Javier	Turk	Mitch	02/23/2024	Chicot	Willis
6006	New Well		Chris	Turk	Mitch	02/26/2023	Chicot	Lissie
6010	New Well / Developer		Grogan	Whit	Jones	02/27/2024	Chicot	Lissie
6012	New Well / Developer		Grogan	Whit	Jones	02/27/2024	Chicot	Lissie
6015	New Well / Developer		Grogan	Whit	Jones	02/28/2024	Chicot	Lissie
6016	New Well / Developer		Grogan	Whit	Jones	02/28/2024	Chicot	Lissie
6020	New Well / Developer		Ryan	Paskell	Keith	03/07/2024	Chicot	Lissie / Willis

# Hardin County Exempt Domestic Wells - 2024

ID NO.	COMMENT	OWNER LAST	OWNER FIRST	DRILLER LAST	DRILLER FIRST	DATE REG.	Aquifer	Geologic Layer
6021	New Well		John	Turk	Mitch	03/07/2024	Chicot	Lissie
6025	New Well		Jacob	Turk	Mitch	03/13/2024	Chicot	Lissie
6028	New Well		Jared	Gore	Dale	03/18/2024	Chicot	Lissie
6029	New Well		Gerry	Paskell	Keith	03/20/2024	Chicot	Lissie
6038	New Well		Nathaniel	Holmes	Kenneth	03/28/2024	Chicot	Lissie
6039	New Well		Roy	Gore	Dale	03/28/2024	Chicot	Lissie
6040	New Well		David	Jones	Whit	03/28/2024	Chicot	Lissie
6042	New Well (expected drill date June)		Richard "Brandon"	Greak	J.W.	04/03/2024	<null>	<null>
6044	New Well		Karli	Turk	Mitch	04/03/2024	Chicot	Lissie
6046	New Well		Micah	Turk	Mitch	04/05/2024	Chicot	Lissie
6048	New Well		Robert	Gore	Dale	04/05/2024	Chicot	Lissie
6059	New Well		Billy	Turk	Mitch	04/18/2024	Chicot	Willis
6060	New Well / Reg. Late		Zachary	West	Randy	04/18/2024	Chicot	Lissie
6066	New Well		Kenneth	Paskell	Keith	04/24/2024	Chicot	Lissie
6075	New Well		Loryie	West	Randy	04/26/2024	<null>	<null>
6076	New Well		Allan and Sherry	Jones	Bobby	04/29/2024	Chicot	Lissie
6079	New Well		Michael and Stacy	Turk	Mitch	04/30/2024	Chicot	Lissie
6078	New Well		Hans	Holmes	Kenneth	04/31/2024	Chicot	Lissie
6081	New Well		Scott	Gore	Dale	05/09/2024	Chicot	Lissie
6094	New Well		Patrick	Turk	Mitch	05/21/2024	Chicot	Willis
6106	New Well		Richard	Turk	Mitch	06/03/2024	Chicot	Lissie
6111	New Well		Amanda	Paskell	Keith	06/10/2024	Chicot	Lissie
6112	New Well		Carol	Paskell	Keith	06/12/2024	Chicot	Lissie
6122	New Well		Andrew	Holmes	Kenneth	06/18/2024	Chicot	Lissie

# Hardin County Exempt Domestic Wells - 2024

ID NO.	COMMENT	OWNER LAST	OWNER FIRST	DRILLER LAST	DRILLER FIRST	DATE REG.	Aquifer	Geologic Layer
6125	New Well		Megan	Paskell	Keith	06/21/2024	Chicot	Lissie
6126	New Well		Loran	Turk	Mitch	06/21/2024	Chicot	Lissie
6136	New Well		Jordan	Turk	Mitch	07/03/2024	Chicot	Lissie
6145	New Well		Clint	Paskell	Keith	07/18/2024	Chicot	Lissie
6154	New Well		Artem	Paskell	Keith	08/03/2024	Chicot	Lissie
6155	New Well		Charles	Paskell	Keith	08/06/2024	Chicot	Lissie
6156	New Well		James	Turk	Mitch	08/06/2024	Chicot	Lissie / Willis
6157	New Well / Transferred		Victorino	Whit	Jones	08/13/2024	Chicot	Lissie
6158	New Well / Transferred		Victorino	Whit	Jones	08/13/2024	Chicot	Lissie
6160	New Well		James	Turk	Mitch	08/13/2024	Chicot	Lissie
6162	New Well		Tommy	Turk	Mitch	08/15/2024	Chicot	Lissie
6167	New Well		Michel	Turk	Mitch	08/17/2024	Chicot	Lissie
6168	New Well		Marcos	Paskell	Keith	08/20/2024	Chicot	Lissie
6171	New Well		David	Gore	Dale	08/22/2024	Chicot	Lissie
6173	New Well		Robert	Holmes	Kenneth	08/26/2024	Chicot	Lissie
6174	New Well		Michael	Gore	Dale	08/27/2024	Chicot	Lissie
6175	New Well		Brandon	Turk	Mithc	08/28/2024	Chicot	Willis
6181	New Well		David	West	Randy	08/29/2024	<null>	<null>
6189	New Well		Thomas	Holmes	Kenneth	09/16/2024	Chicot	Beaumont / Lissie
6194	New Well		Tyler	Turk	Mitch	09/17/2024	Chicot	Lissie
6197	New Well		Geoffrey	Franks	Tim	09/19/2024	<null>	<null>
6198	New Well		Jeremy	Paskell	Keith	09/20/2024	Chicot	Willis
6203	New Well		Kimberly	Paskell	Keith	09/26/2024	Chicot	Lissie / Willis



# Hardin County Exempt Domestic Wells - 2024

ID NO.	COMMENT	OWNER LAST	OWNER FIRST	DRILLER LAST	DRILLER FIRST	DATE REG.	Aquifer	Geologic Layer
6204	New Well - Developer - Spec House		Tyler	Turk	Mitch	09/30/2024	Chicot	Lissie
6206	New Well		Charles	Jones	Whit	09/30/2024	Chicot	Lissie
6207	New Well		Nick	Gore	Dale	10/01/2024	Chicot	Willis
6208	New Well		Brandon	Paskell	Keith	10/07/2024	Chicot	Lissie
6214	New Well		Jonathan	Turk	Mitch	10/10/2024	Chicot	Lissie
6217	New Well		Robert	West	Randy	10/13/2024	<null>	<null>
6218	New Well		Martha	West	Randy	10/14/2024	<null>	<null>
6219	New Well		Martin	Paskell	Keith	10/16/2024	Chicot	Lissie
6220	New Well		Ronnie	Turk	Mitch	10/16/2024	Chicot	Lissie
6227	New Well / Waiting on accurate local		Ramiro	West	Randy	10/21/2024	<null>	<null>
6228	New Well		Lynn	Turk	Mitch	10/23/2024	Chicot	Willis
6240	New Well		Philip	Paskell	Keith	11/07/2024	Chicot	Lissie / Willis
6237	New Well		Randy	Paskell	Keith	11/08/2024	Chicot	Lissie
6244	New Well		Brett	Gore	Dale	11/11/2024	Chicot	Lissie
6259	New Well		Shawn	Turk	Mitch	11/26/2024	Chicot	Lissie
6267	New Well / Developer		John	Paskell	Keith	12/03/2024	Chicot	Lissie
6268	New Well		Colby	Turk	Mitch	12/03/2024	Chicot	Lissie
6274	New Well		Tyler	Paskell	Keith	12/13/2024	<null>	<null>
6277	New Well		Chris	Turk	Mitch	12/17/2024	Chicot	Lissie
6280	New Well		Vera	Turk	Mitch	12/19/2024	Chicot	Willis

## Hardin County Exempt Other Wells - 2024

ID NO.	COMMENT	OWNER LAST	OWNER FIRST	DRILLER LAST	DRILLER FIRST	DATE DRILLED	Aquifer	Geologic Layer
446	Less Than 25,000 gpd			West	Randy	<null>	<null>	<null>
440	New Well		Courtney		Whit	03/06/2024	Chicot	Lissie
438	Less Than 25,000 gpd		Ana	Paskell	Keith	03/26/2024	Chicot	Lissie
448	New Well / Less Than 25,000		Bobby	Gore	Dale	04/24/2024	<null>	<null>
450	New Well / Livestock		Mark	Holmes	Kenneth	10/16/2024	Chicot	Beaumont
451	New Well / Less Than 25,000		Pineywoods Ranch Partners	Gore	Dale	10/31/2024	Chicot	Willis

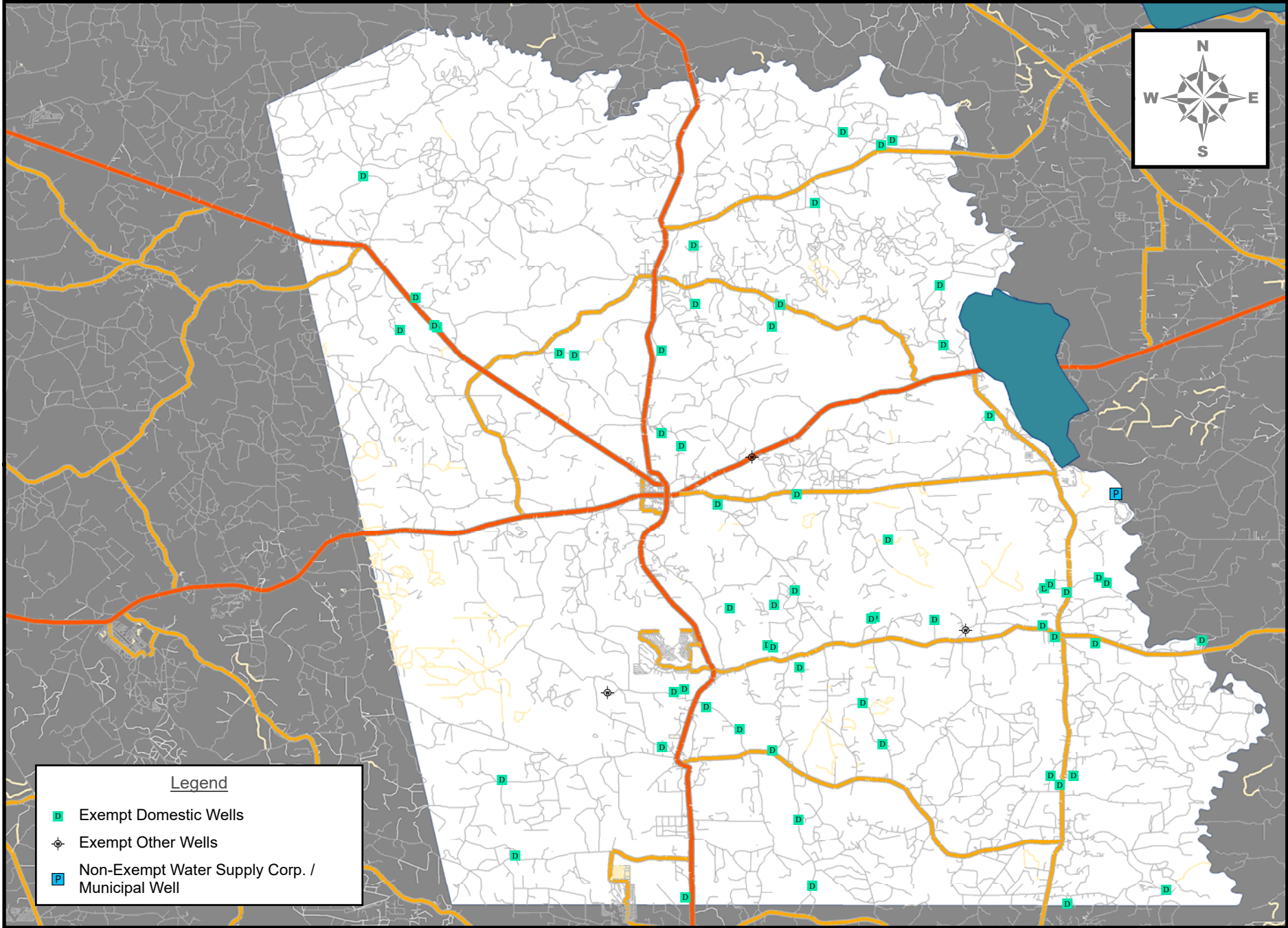
## Hardin County - Exempt - Oil & Gas Related Wells - 2024

WELL OWNER	WELL NAME	DRILLING CO.	DATE DRILLED	Plugged_	FRACKED?	Aquifer	Geologic Layer
Whitehead Resources	Lonesome Dove #1	George Bellenger	01/27/2024	Y	N	<null>	<null>
Ventex Operating Corp.	Raptor #1	Fas Line Services	06/26/2024	N	Y	Chicot	Willis
Ventex Operating Corp.	Falcon #1	Fas Line Services	07/25/2024	N	Y	Chicot	Lissie

## Hardin County - Non-Exempt - Public Water Supply Well Permitted 2024

ID NO.	COMMENT	OWNER	Drilling_Company	Date_Permitted	Geologic Layer	Aquifer
302	New Well	City of Sour Lake	TBD	07/24/2024	<null>	<null>

# Wells Registered / Permitted in Tyler County - 2024



# Tyler County Exempt Domestic Wells - 2024

ID NO.	COMMENT	OWNER LAST	OWNER FIRST	DRILLER LAST	DRILLER FIRST	DATE REG.	Aquifer	Geologic Layer
5981	New Well		Nathan	Gore	Dale	01/03/2024	U/K	U/K
5976	Replacement Well		Thomas	Jones	Bobby	01/04/2024	U/K	U/K
5989	New Well		Harold	Gore	Dale	02/06/2024	Jasper	Lower Lagarto
5994	New Well		Tammy	Gore	Dale	02/08/2024	Jasper	Oakville
6001	New Well		Mike	Gore	Dale	02/20/2024	Chicot	Lissie
6007	New Well		Chester	Gore	Dale	02/26/2024	Jasper	Lower Lagarto
6013	New Well		Graham	Turk	Mitch	02/28/2024	Chicot	Willis
6014	Replacement Well		Dallas	Turk	Mitch	03/03/2024	Chicot	Lissie
6017	New Well		Cesar	Gore	Dale	03/04/2024	Chicot	Lissie
6023	New Well		James	Jones	Bobby	03/07/2024	Chicot	Willis
6024	New Well		Ron	Jones	Bobby	03/11/2024	Jasper	Lower Lagarto
6027	New Well		Jared	Holmes	Kenneth	03/18/2024	Jasper	Oakville
6031	New Well		Grant	Turk	Mitch	03/26/2024	Chicot	Willis
6045	Replacement Well		William	Gore	Dale	04/04/2024	Chicot	Willis
6051	New Well		David	Gore	Dale	04/08/2024	U/K	U/K
6054	New Well		Shawn	Gore	Dale	04/16/2024	Chicot	Willis
6055	New Well / Developer		Jim	Turk	Mitch	04/17/2024	Chicot	Willis
6070	New Well / Late Reg.		Brandon	Dillin Payne	BJs Water Wells	04/18/2024	Jasper	Lower Lagarto
6087	New Well		William	Jones	Bobby	05/13/2024	U/K	U/K
6090	New Well / Late Reg.		Brent	Holmes	Kenneth	05/14/2024	Chicot	Willis
6098	New Well		Raymond	Gore	Dale	05/22/2024	Chicot	Willis

# Tyler County Exempt Domestic Wells - 2024

ID NO.	COMMENT	OWNER LAST	OWNER FIRST	DRILLER LAST	DRILLER FIRST	DATE REG.	Aquifer	Geologic Layer
6103	New Well	Samuel and	Gore	Gore	Dale	05/23/2024	Chicot	Willis
6104	New Well	Will	Gore	Gore	Dale	05/30/2024	Chicot	Willis
6107	New Well	Shane	Gore	Gore	Dale	06/06/2024	Chicot	Willis
6113	New Well	Ashley	Turk	Turk	Mitch	06/14/2024	Chicot	Willis
6114	New Well	Lane	Gore	Gore	Dale	06/15/2024	Jasper	Lower Lagarto
6117	New Well / Replacement	Matt	Jones	Jones	Bobby	06/17/2024	Chicot	Willis
6119	New Well	Vernon	Bell	Bell	Evan	06/18/2024	Jasper	Lower Lagarto
6124	New Well	David	Paskell	Paskell	Keith	06/19/2024	Chicot	Willis
6128	New Well	Kenneth	Turk	Turk	Mitch	06/25/2024	Chicot	Willis
6133	New Well	Doug	Turk	Turk	Mitch	06/30/2024	Chicot	Lissie
6137	New Well	Garrett	Turk	Turk	Mitch	07/11/2024	Chicot	Lissie
6139	New Well	Doug	Gore	Gore	Dale	07/12/2024	U/K	U/K
6141	New Well	Casey	Gore	Gore	Dale	07/16/2024	<null>	<null>
6143	New Well	Dottie	Jones	Jones	Bobby	07/16/2024	U/K	U/K
6144	New Well	Ray	Jones	Jones	Bobby	07/16/2024	U/K	U/K
6149	New Well	Blake	Bell	Bell	Evan	07/26/2024	Chicot	Willis
6150	New Well	Donna	Holmes	Holmes	Kenneth	07/30/2024	Jasper	Lower Lagarto
6163	Replacement Well	King	Gore	Gore	Dale	08/15/2024	Chicot	Lissie
6166	New Well	Kenneth	Paskell	Paskell	Keith	08/16/2024	Chicot	Willis
6172	New Well	Debbie	Turk	Turk	Mitch	08/22/2024	Chicot	Lissie
6184	New Well	Cody	Turk	Turk	Mitch	09/10/2024	Chicot	Willis
6201	New Well	William	Turk	Turk	Mitch	09/24/2024	Chicot	Willis
6209	New Well	Jeremy	Gore	Gore	Dale	10/07/2024	Chicot	Lissie
6215	New Well	Jeremy	Gore	Gore	Dale	10/10/2024	Chicot	Willis

# Tyler County Exempt Domestic Wells - 2024

ID NO.	COMMENT	OWNER LAST	OWNER FIRST	DRILLER LAST	DRILLER FIRST	DATE REG.	Aquifer	Geologic Layer
6221	New Well		Tim	Turk	Mitch	10/17/2024	Chicot	Willis
6223	New Well		Jason	Gore	Dale	10/17/2024	<null>	<null>
6230	New Well		Josh	Gore	Dale	10/25/2024	Chicot	Willis
6231	New Well		James	Gore	Dale	11/01/2024	Chicot	Lissie
6233	New Well		Berry	Gore	Dale	11/04/2024	Chicot	Willis
6235	New Well		Richard	Gore	Dale	11/06/2024	Chicot	Willis
6238	New Well		Richard	Turk	Mitch	11/08/2024	Chicot	Willis
6250	New Well		Monica	Bell	Evan	11/18/2024	Chicot	Lissie
6257	New Well		Abigail	Holmes	Kenneth	11/21/2024	Jasper	Lower Lagarto
6258	New Well		Anthony	Turk	Mitch	11/21/2024	Chicot	Willis
6260	New Well		Joe	Gore	Dale	11/25/2024	Chicot	Willis
6273	New Well		John	Jones	Bobby	12/16/2024	<null>	<null>
6275	New Well		Suzy	Gore	Dale	12/17/2024	<null>	<null>
6279	New Well		Gabriel	Jones	Bobby	12/17/2024	<null>	<null>
6285	New Well		Kevin	Jones	Bobby	12/30/2024	<null>	<null>



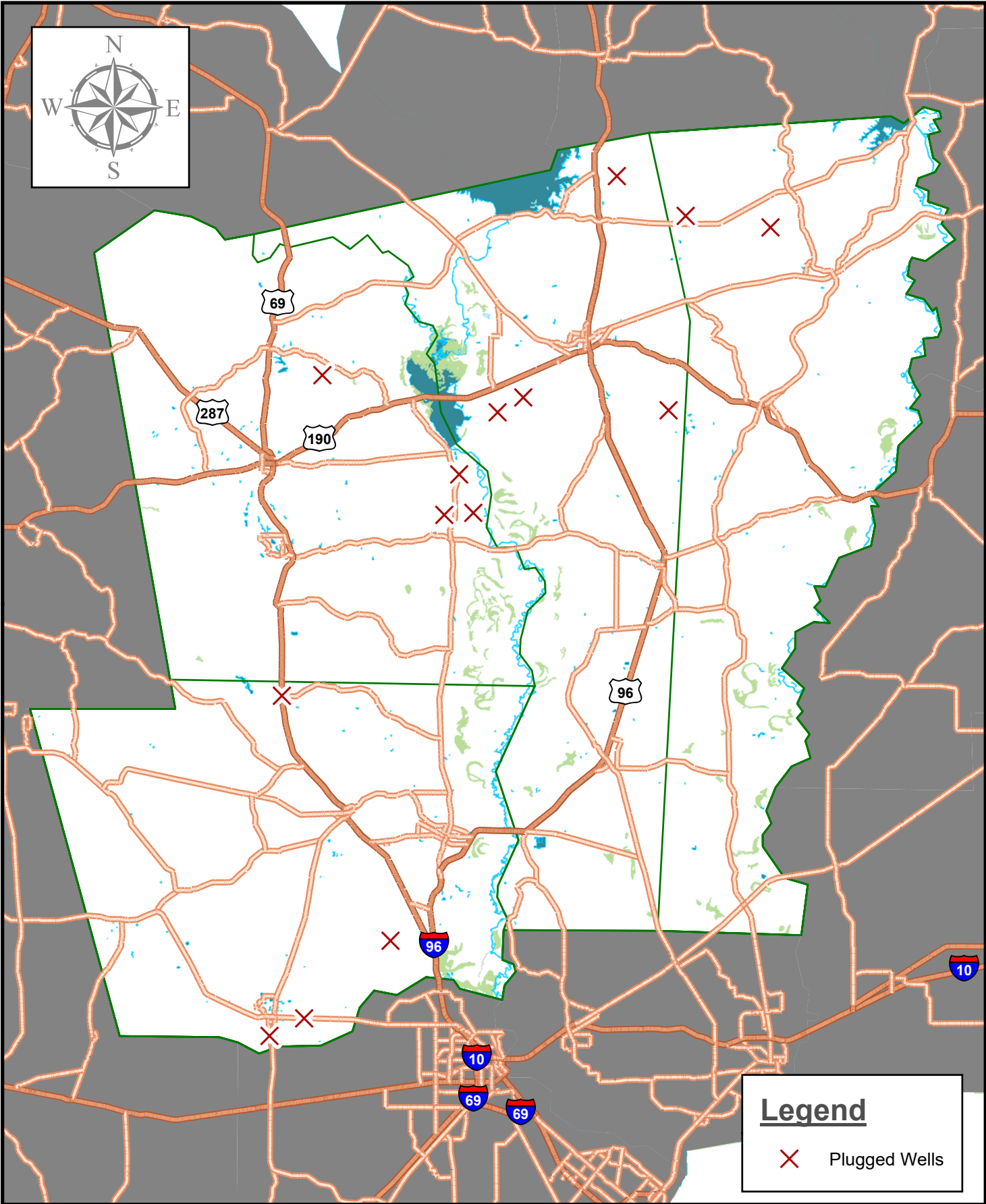
## Tyler County Exempt Other Wells - 2024

ID NO.	COMMENT	OWNER LAST	OWNER FIRST	DRILLER LAST	DRILLER FIRST	DATE DRILLED	AQUIFER	GEOLOGIC LAYER
439	Replacement Well		Monroe	Gore	Dale	04/17/2024	Chicot	Willis
442	New Well / Ag. - Livestock		Kevin	Gore	Dale	05/28/2024	Chicot	Willis
443	Less Than 25,000 gpd		Tina	Gore	Dale	06/11/2024	Jasper	Lower Lagarto

## Tyler County Non-Exempt Public Water Supply Well Permitted 2024

ID NO.	COMMENT	OWNER LAST	OWNER FIRST	DRILLING_COMPANY	DATE_PERMITTED	GEOLOGIC LAYER	AQUIFER
301	Replacement Well	Undine Texas, LLC		O'Day Drilling Co., Inc.	06/25/2024	Not Yet Drilled	<null>

# Plugged Wells - 2024



# Plugged Wells - District Wide - 2024

IDENT	OWNER LAST	OWNER FIRST	COMPANY	DATE PLUGGED
Lonesome Dove #1			Whitehead Resources	02/13/2024
Champion A334 #1			RKI Energy Res.	03/10/2024
Donner Unit A-2			RKI Energy Res.	03/10/2024
Donner Unit A-1			RKI Energy Res.	03/10/2024
Garbee T		Thomas		04/02/2024
		David		04/04/2024
Kelly's Hero UT #1			BBX Operating	04/09/2024
South Steinhagen 1H			Navidad Operating	04/09/2024
		Kimberly		04/23/2024
		Caleb		04/25/2024
		Matt		05/06/2024
		William		05/17/2024
Fistful of BS 1H WW#1			Zarvona Energy	06/01/2024
				07/17/2024
		Thomas		09/18/2024
South Steinhagen 1H #2		Thomas		09/18/2024
			Navidad Operating Co.	12/03/2024

# GOAL 4.2

## CONTROLLING AND PREVENTING THE WASTE OF GROUNDWATER IN THE DISTRICT

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### Objectives

1. *Each year, the District will make an evaluation of the District Rules to determine whether any amendments are recommended to decrease the amount of waste of groundwater within the District.*
2. *Each year, the District will provide information to the public on eliminating and reducing wasteful practices in the use of groundwater by posting an article or newsletter on groundwater waste reduction on the District's website.*

### Performance Standard

1. *The District will include a copy of the meeting notice/agenda as well as the minutes of the meeting at which the District Rules were discussed and the determination of whether any amendments to the rules are recommended to prevent the waste of groundwater in the District's Annual Report.*
  2. *Each year, a copy of the information provided in the groundwater waste reduction article or newsletter on the District's website will be included in the District's Annual Report.*
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### OBJECTIVE 1

Attached is a copy of the District's June 13, 2024 meeting notice/agenda as well as the minutes of that meeting at which the District's Rules were discussed and evaluated (Agenda Item 8), specifically considering any changes that would reduce the amount of waste of groundwater within the District. After discussing potential rule changes, a motion was made to make no revisions at that time, was seconded and passed unanimously.

### OBJECTIVE 2

A copy of the article titled "Drought Preparedness – Reduce Wasteful Practices to Bank Water for Future Use" was posted on the District's "Conservation" webpage and was also submitted to four local newspapers for publication on June 24, 2024. The article was also provided to the East Texas Banner which is now an online only publication. The East Texas Banner published the article on their website on June 25, 2024. The article was also published in the Summer 2024 SETGCD Well Monitor Newsletter, which provides

## GOAL 4.2

information on water conservation and waste reduction practices and was posted on the District's website to assist the public in eliminating or reducing wasteful practices. A copy of the article is included in this section as well as in Goal 4.7 and is also included in the SETGCD Well Monitor newsletter in Appendix A (Tab 12).

In addition to the article being posted, the District continues to provide electronic copies of three informative water conservation pamphlets on the District's "Conservation" webpage: *Household Water Use and Ways to Save*, *Water is Limited. Save Some Today*, and *Conserving Water Outdoors*. These pamphlets are designed by the Texas Water Development Board in conjunction with its Water IQ program. The District also provides these pamphlets directly to the owner of each new well that is registered within the District.

# **Southeast Texas Groundwater Conservation District**

**NOTICE** is given that the Board of Directors of the Southeast Texas Groundwater Conservation District will hold a monthly board meeting on Thursday June 13, 2024 starting at 10:00 a.m., at the Jasper County Courthouse Annex Building, Emergency Operations Center (2<sup>nd</sup> floor), at 271 East Lamar, Jasper, Texas 75951 in accordance with the Texas Open Meeting Act, Chapter 551 of the Texas Government Code or (as amended).

## **Regular Board Meeting:**

The items of business to be considered and transacted during the meeting are as follows:

1. Call to order;
2. Public comment;
3. Discussion and possible action to approve the minutes of the April 11, 2024 Board meeting;
4. Discussion and possible action regarding the monthly Treasurer's Report and approval of payables presented;
5. Discussion and possible action to ratify recent rollover of Education First FCU CD;
6. Discussion and possible action to increase the "building fund" portion of the Districts investment funds;
7. Discussion and possible action regarding the annual review of the District's Fiscal Management and Investment Policy;
8. Discussion and possible action regarding potential changes to the District's Rules including but not limited to Management Plan item 4.2(1) – "Evaluation of the District's Rules to determine whether any amendments are recommended to decrease the amount of waste of groundwater within the District;";
9. Manager's Report to include: Update on GMA 14, static water level readings from District observation wells, and drought conditions;
10. Establish date, time and place of next meeting; and,
11. Meeting adjourned.

*These public meetings are available to all persons regardless of disability. If you require special assistance to attend the meeting please contact the Southeast Texas Groundwater Conservation District, (409) 383-1577, at least three working days prior to the meeting so that appropriate arrangements can be made.*

**Southeast Texas Groundwater Conservation District**  
**June 13, 2024 Meeting Minutes**  
**Jasper County Courthouse Annex Building**  
**Emergency Operations Center 2<sup>nd</sup> Floor**  
**Jasper, Texas**

**Directors Present:**

Bobby Rogers, Vice President  
Charles Zimmerman, Sec. / Treasurer  
Sam Ashworth  
Thomas Hawthorne  
Cody Jones  
Greg Kelley  
Rick Russler  
Steven Black

John Martin, General Manager

**Directors Absent:**

Olen Bean, President  
Ken Jobe  
Robb Starr  
Billy Ted Smith

**Regular Board Meeting:**

1. Call to order: At 10:02 a.m. Vice President Rogers brought to order the regular meeting of the Southeast Texas Groundwater Conservation District and provided an invocation. Vice President Rogers then asked Manager Martin to conduct roll call, and a quorum was confirmed with 7 Directors present, 5 Director absent, and 1 vacant seat. At approximately 10:05 a.m. Director Black arrived bringing the number present to 8.
2. Public comment: Vice President Rogers noted that there were no members of the public present.
3. Discussion and possible action to approve the minutes of the April 11, 2024 Board meeting: Treasurer Zimmerman noted that the minutes included incorrect executive committee members and Director Kelley noted that he was listed as in attendance but had not been at the meeting. Director Russler made motion to approve the April 11, 2024 minutes with the corrections discussed. Director Kelley seconded the motion. The motion passed unanimously.
4. Discussion and possible action regarding the monthly Treasurer's Report and approval of payables presented: Treasurer Zimmerman gave a thorough review of the District's June 2024 Treasurer's Report. He reviewed each of the District's account balances, the monthly payables, and the expected First State Bank (FSB) operating account balances after June payables have been disbursed.

Manager Martin noted that the profit and loss vs budget report was tracking nicely but noted that he had a bit of a concern with a possible reduction in fees from the City of Beaumont. He explained that when the 1<sup>st</sup> quarter pumpage data was received he noticed a significant decline in the March pumping and reached out to the City to ask why. Manager Martin stated that he was informed that the City was having nitrification issues. Director Kelley commented that he expected that it was



likely due to a more complex chemistry issue due to the fact that the City of Beaumont blends their groundwater with surface water.

Director Ashworth made motion to approve the Report and payables presented. Directors Hawthorne seconded the motion. The motion passed unanimously.

5. Discussion and possible action to ratify recent rollover of Education First FCU CD: Manager Martin reviewed the rollover of the latest CD at Education First and the rate match that the credit union provided giving the District a 4.75% rate for the 1-year CD.

Director Kelley made motion to ratify/approve the rollover of the CD. Director Russler seconded the motion. The motion passed unanimously.

6. Discussion and possible action to increase the “building fund” portion of the Districts investment funds: Manager Martin explained that the District has a set aside amount of its investment funds earmarked for use in the event that the District needs to find its own facility. He noted that Jasper County has been great and has made no indication that they would ask us to leave, however, the District has had a fund in place to cover any move should it ever need to. He noted that the current amount set aside for the building fund was \$225,000 and had been at that level since 2012. Manager Martin noted that at a previous meeting it was suggested that since we haven't increased the amount in such a long time in conjunction with inflation that we should discuss increasing the amount.

Director Russler asked if Manager Martin had a recommendation on how much to increase the amount and Manager Martin stated that he would recommend an increase of \$50,000 making the total build fund amount \$275,000.

After a short discussion Director Russler made motion to approve the recommendation of increasing the building fund by \$50,000 (total \$275,000) and that Manager Martin periodically bring the issue to the board for discussion. Director Kelley seconded the motion. The motion passed unanimously.

7. Discussion and possible action regarding the annual review of the District's Fiscal Management and Investment Policy: Manager Martin stated that it is required that the District review its policy annually. He explained that he recently had his bi-annual Public Funds Investment Act continuing education course and that he was recommending no changes this year. He also noted that it is a legislative interim year so there are no new legislated requirements that would need to be included in our policy. He did note that he had learned at his continuing education course that Texpool offered a free service to its members where they can send them a copy of their investment policy for review. He stated that although the District's policy was based off a template policy provided by Greg Ellis (the attorney who provides TAGD members with the Public Funds Investment Act training), he thought it would be a good idea to get Texpool to review the policy.

After a brief discussion Director Hawthorne made a motion that the District make no revisions to the policy at this time. The motion was seconded by Director Jones. The motion passed unanimously.

8. Discussion and possible action regarding potential changes to the District's Rules including but not limited to Management Plan item 4.2(1) – “Evaluation of the District's Rules to determine

whether any amendments are recommended to decrease the amount of waste of groundwater within the District: Manager Martin noted that this item, as was the case with the previous agenda item, was an annual requirement that needed to be reviewed and discussed. He noted that the District made several changes to the District Rules the previous year but that he had no recommendation for changes this year related to the reduction of waste of groundwater or otherwise. No recommendation for changes were suggested by any of the Board members and after a short discussion Director Kelley made a motion that the District make no revisions to the District Rules at this time. The motion was seconded by Director Ashworth. The motion passed unanimously.

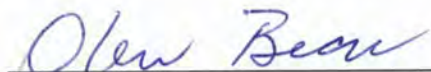
9. Manager's Report to include: Update on GMA 14, static water level readings from District observation wells, and drought conditions: Manager Martin began with a brief review of that static water level readings noting that most wells showing a higher water level over the previous reading, but not all of them. He also pointed out the inclusion of two new wells in the monitoring program. He explained that he received a request from the South Jasper County WSC asking if they could be included in our program. Since all the necessary data on the two wells was available and the fact that the wells are located only 4 or 5 miles north of the papermill that they would make good additions to the program.

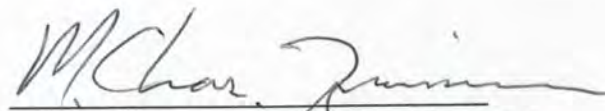
Manager Martin then provided an update on GMA 14 including the recently received petition filed against the Lone Star GCD. He noted that he, President Bean, and Attorney Stover had not made a final decision on how best to respond to Lone Star's response to his letter sent to Representative Metcalf (and copied to Senators Creighton and Kolkhorst) regarding their concerns over GMA 14 meetings not being live streamed. He had stated that it was Attorney Stover's recommendation that we send a response but that it be very simple stating that the District would be happy to meet in person to discuss the issue further if they wanted.

Manager Martin then stated that a "petition" had been filed with the Texas Commission on Environmental Quality (TCEQ) regarding the Lone Star GCD. He explained that TCEQ has oversight on GCDs and has procedures in place for the public to file a petition against a district if they believe that their GCD is not meeting its statutory requirements. Manager Martin noted that although he didn't necessarily agree with Lone Star's management style, he didn't think that the Lone Star GCD was out of compliance with their statutory requirements.

10. Establish date, time and place of next meeting: Manager Martin noted that our next regularly scheduled meeting is set for July 11, 2024. He commented that he didn't think we would need a public hearing and that our meeting would likely start at its normal time, 10:00 AM.

11. Meeting adjourned at: 11:23

  
\_\_\_\_\_  
Olen Bean, President

  
\_\_\_\_\_  
Charles Zimmerman – Secretary/Treasurer

Date: September 12, 2024



## Drought Preparedness—Reduce Wasteful Practices to Bank Water for Future Use

It was just last year that much of the Southeast Texas Groundwater Conservation District (and east Texas in general) was experiencing very severe drought conditions. How quickly things have changed - from drought conditions to wet conditions in only a matter of months. It's times like now that it's difficult to talk to people about conserving water, especially when, as of June 1, some parts of the District have received or surpassed (in some instances significantly surpassed) the annual average rainfall for the entire year. Even in an average year we typically have an abundance of rain with an average annual of 52 - 54 inches. Having already hit our annual average in some places and with a very active hurricane season predicted, it is quite possible that we could get 70 or more inches of rain in 2024 (one rain gauge in Tyler County has actually already surpassed 70 inches).

Although we have experienced wet conditions for the first five months of the year, predictions are that we will be transitioning back to a La Nina weather pattern which typically brings warmer and drier weather as was the case during the summer of 2023. Prolonged La Ninas are not unheard of, as was the case in 2010 - 2012 which was one of the driest periods in Texas history. Most areas within the Southeast Texas Groundwater Conservation District saw 30% - 35% less rain than normal during that period. The northwestern portion of the District (Woodville area) saw closer to 50% less rainfall. Because drought is always possible, it is best that we conserve our most precious resource when we can so that it will be available in the future. Just because we have plenty right now, doesn't mean that we shouldn't stay water wise and conserve whenever we can. Don't forget, it was only last summer that some parts of the District were experiencing category D4 Exceptional Drought Conditions, the highest drought rating on the U.S. Drought Monitor, which is a weekly map of drought conditions that is produced jointly by the National Oceanic and Atmospheric Administration (NOAA), the U.S. Department of Agriculture, and the National Drought Mitigation Center (NDMC).

Although it may seem unnecessary to conserve during wet periods, it is always a good practice so that when we are experiencing drought conditions, it doesn't hurt as much.

Here are some ways in which you can reduce your groundwater consumption and prevent waste:

### Conserving Water Indoors:

- Using efficient showerheads and aerators on your faucets can significantly reduce the amount of water you use. In fact, installing an efficient showerhead is one of the most effective water saving steps you can take inside your house. You can save a little more water by getting into the shower as soon as possible - don't let the water run too long while warming it up.
- When possible, update and replace old toilets, washing machines, and dishwashers. New efficient models can save you thousands of gallons per year.
- An older clothes washer will use up to 23 gallons per load, whereas a new energy efficient model may use as little as 13 gallons. Considering that the average household washes about 300 loads per year, the numbers add up quickly. Another thing to keep in mind is that if you wash with hot water, up to 90% of the cost to wash those clothes is simply for heating the water. Only use hot water when necessary so you'll save on your electrical bill and reduce the impact on the water-energy nexus (a complex relationship between the production of electricity and water).
- In the kitchen, a water efficient dishwasher can save over 1,000 gallons per year. Keep in mind that 1,000 gallons per home may not seem significant but multiply that by a neighborhood and 1,000 gallons per home will add up to quite a lot very quickly.
- Newer water efficient toilets will use only about 1—1.5 gallons of water per flush. You should always keep an eye out for any leaks in your toilet. A leaking toilet can waste quite a bit of water, possibly thousands of gallons a month in extreme cases. It is estimated that 10% of all homes in the U.S. have water leaks wasting 90+ gallons of water per day.

### Conserving Water Outdoors and Reducing Waste:

- If you have a swimming pool, consider covering it when not in use. In the summer, a pool can lose as much as half an inch per day due to evaporation, which can add up to the equivalent of your pool's entire volume each summer. You could potentially save 10,000 – 20,000 gallons or more depending on how big your pool is.
- Water landscaping in the morning or late evening to reduce evaporation loss, and only water when needed. Most lawns only need 1 inch of water a week.
- If you have a sprinkler system, keep it well maintained and keep an eye out for leaks.
- If you have a vegetable or flower garden consider a drip irrigation system. It will water your plants more efficiently and with less waste.
- Be conscientious when washing your vehicles at home. If you leave a hose running, you could use as much as 100 gallons or more washing your vehicle. Have a sprayer head on the hose to save water or consider a commercial car wash. A commercial car wash typically uses 35 – 70 gallons of water with newer high-tech facilities using as little as 15 gallons.

For more information on water conservation ideas visit the Southeast Texas Groundwater Conservation District's Website at: <https://setgcd.org/>, or the Texas Water Development Board's site at: <https://www.twdb.texas.gov/conservation/>

**Drought Preparedness—Reduce Wasteful Practices to Bank Water for Future Use**

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Conservation Corner

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- Using efficient showerheads and aerators on your faucets can significantly reduce the amount of water you use. In fact, installing an efficient showerhead is one of the most effective water saving steps you can take inside your house. You can save a little more water by getting into the shower as soon as possible - don't let the water run too long while warming it up.
- When possible, update and replace old toilets, washing machines, and dishwashers. New efficient models can save you thousands of gallons per year.
- An older clothes washer will use up to 23 gallons per load, whereas a new energy efficient model may use as little as 13 gallons. Considering that the average household washes about 300 loads per year, the numbers add up quickly. Another thing to keep in mind is that if you wash with hot water, up to 90% of the cost to wash those clothes is simply for heating the water. Only use hot water when necessary so you'll save on your electrical bill and reduce the impact on the water-energy nexus (a complex relationship between the production of electricity and water).
- In the kitchen, a water efficient dishwasher can save over 1,000 gallons per year. Keep in mind that 1,000 gallons per home may not seem significant but multiply that by a neighborhood and 1,000 gallons per home will add up to quite a lot very quickly.
- Newer water efficient toilets will use only about 1- 1.5 gallons of water per flush. You should always keep an eye out for any leaks in your toilet. A leaking toilet can waste quite a bit of water, possibly thousands of gallons a month in extreme cases. It is estimated that 10% of all homes in the U.S. have water leaks wasting 90+ gallons of water per day.

Conserving Water Outdoors and Reducing Waste:

- If you have a swimming pool, consider covering it when not in use. In the summer, a pool can lose as much as half an inch per day due to evaporation, which can add up to the equivalent of your pool's entire volume each summer. You could potentially save 10,000 - 20,000 gallons or more depending on how big your pool is.
- Water landscaping in the morning or late evening to reduce evaporation loss, and only water when needed. Most lawns only need 1 inch of water a week.
- If you have a sprinkler system, keep it well maintained and keep an eye out for leaks.
- If you have a vegetable or flower garden consider a drip irrigation system. It will water your plants more efficiently and with less waste.
- Be conscientious when washing your vehicles at home. If you leave a hose running, you could use as much as 100 gallons or more washing your vehicle. Have a sprayer head on the hose to save water or consider a commercial car wash. A commercial car wash typically uses 35 - 70 gallons of water with newer high-tech facilities using as little as 15 gallons.

For more information on water conservation ideas visit the Southeast Texas Groundwater Conservation District's Website at: <https://setgcd.org/>, or the Texas Water Development Board's site at: <https://www.twdb.texas.gov/conservation/>.

Edit Image

Uploaded on: June 24, 2024

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sharpcindy56 43 minutes ago

# Reduce Wasteful Practices to Bank Water for Future Use



### Drought Preparedness – Reduce Wasteful Practices to Bank Water for Future Use

It was just last year that much of the Southeast Texas Groundwater Conservation District (and east Texas in general) was experiencing very severe drought conditions. How quickly things have changed - from drought conditions to wet conditions in only a matter of months. It's times like now that it's difficult to talk to people about conserving water, especially when, as of June 1, some parts of the District have received or surpassed (in some instances significantly surpassed) the annual average rainfall for the entire year. Even in an average year we typically have an abundance of rain with an average annual of 52 - 54 inches. Having already hit our annual average in some places and with a very active hurricane season predicted, it is quite possible that we could get 70 or more inches of rain in 2024 (one rain gauge in Tyler County has actually already surpassed 70 inches).

Although we have experienced wet conditions for the first five months of the year, predictions are that we will be transitioning back to a La Nina weather pattern which typically brings warmer and drier weather as was the case during the summer of 2023. Prolonged La Ninas are not unheard of, as was the case in 2010 - 2012 which was one of the driest periods in Texas history. Most areas within the Southeast Texas Groundwater Conservation District saw 30% - 35% less rain than normal during that period. The northwestern portion of the District (Woodville area) saw closer to 50% less rainfall. Because drought is always possible, it is best that we conserve our most precious resource when we can so that it will be available in the future. Just because we have plenty right now, doesn't mean that we shouldn't stay water wise and conserve whenever we can. Don't forget, it was only last summer that some parts of the District were experiencing category D4 Exceptional Drought Conditions, the highest drought rating on the U.S. Drought Monitor, which is a weekly map of drought conditions that is produced jointly by the National Oceanic and Atmospheric Administration (NOAA), the U.S. Department of Agriculture, and the National Drought Mitigation Center (NDMC).

Although it may seem unnecessary to conserve during wet periods, it is always a good practice so that when we are experiencing drought conditions, it doesn't hurt as much.

Here are some ways in which you can reduce your groundwater consumption and prevent waste:

#### Conserving Water Indoors:

- Using efficient showerheads and aerators on your faucets can significantly reduce the amount of water you use. In fact, installing an efficient showerhead is one of the most effective water saving steps you can take inside your house. You can save a little more water by getting into the shower as soon as possible - don't let the water run too long while warming it up.
- When possible, update and replace old toilets, washing machines, and dishwashers. New efficient models can save you thousands of gallons per year.
- An older clothes washer will use up to 23 gallons per load, whereas a new energy efficient model may use as little as 13 gallons. Considering that the average household washes about 300 loads per year, the numbers add up quickly. Another thing to keep in mind is that if you wash with hot water, up to 90% of the cost to wash those clothes is simply for heating the water. Only use hot water when necessary so you'll save on your electrical bill and reduce the impact on the water-energy nexus (a complex relationship between the production of electricity and water).
- In the kitchen, a water efficient dishwasher can save over 1,000 gallons per year. Keep in mind that 1,000 gallons per home may not seem significant but multiply that by a neighborhood and 1,000 gallons per home will add up to quite a lot very quickly.
- Newer water efficient toilets will use only about 1—1.5 gallons of water per flush. You should always keep an eye out for any leaks in your toilet. A leaking toilet can waste quite a bit of water, possibly thousands of gallons a month in extreme cases. It is estimated that 10% of all homes in the U.S. have water leaks wasting 90+ gallons of water per day.

#### Conserving Water Outdoors and Reducing Waste:

- If you have a swimming pool, consider covering it when not in use. In the summer, a pool can lose as much as half an inch per day due to evaporation, which can add up to the equivalent of your pool's entire volume each summer. You could potentially save 10,000 – 20,000 gallons or more depending on how big your pool is.
- Water landscaping in the morning or late evening to reduce evaporation loss, and only water when needed. Most lawns only need 1 inch of water a week.
- If you have a sprinkler system, keep it well maintained and keep an eye out for leaks.



- If you have a vegetable or flower garden consider a drip irrigation system. It will water your plants more efficiently and with less waste.
- Be conscientious when washing your vehicles at home. If you leave a hose running, you could use as much 100 gallons or more washing your vehicle. Have a sprayer head on the hose to save water or consider commercial car wash. A commercial car wash typically uses 35 – 70 gallons of water with newer high-te facilities using as little as 15 gallons.

For more information on water conservation ideas visit the Southeast Texas Groundwater Conservation District's Website at: <https://segsd.org/>, or the Texas Water Development Board's site at: <https://www.twdb.texas.gov/conservation/>



# GOAL 4.3

## CONTROLLING AND PREVENTING SUBSIDENCE

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### Objectives

1. *The District has reviewed the pertinent portions (Section 4.1.1 and 4.2.4) of the Texas Water Development Board's subsidence risk report: Identification of the Vulnerability of the Major and Minor Aquifers of Texas to Subsidence with Regard to Groundwater Pumping, – as well as other sources for applicability to the Southeast Texas Groundwater Conservation District in an effort to better proactively manage subsidence.*

*At this time, there are no known occurrences of subsidence within the District. The District proactively strives to prevent subsidence from occurring by applying its Rules, meeting the goals of its management plan, and participating in joint planning efforts in both GMA 14 and the Region I Water Planning Group. Subsidence is one of the main considerations in groundwater management area planning and must be taken into consideration in the desired future conditions process prior to adopting new desired future conditions. **The District will participate in this process by attending at least one Groundwater Management Area 14 meeting each year.***

2. *Each year, the District will review the data from subsidence monitoring locations within the District boundaries and may pursue installation of additional PAM or CORs subsidence monitoring locations.*

### Performance Standard

1. *A copy of the Groundwater Management Area 14's meeting notice/agenda and sign-in sheets (or any other available evidence of attendance) will be included in the District's annual report.*
2. *Each year, a summary of the data related to subsidence monitoring stations within the District and installation of additional sites will be included in the Annual Report submitted to the Board of Directors of the District.*

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### OBJECTIVE 1

Groundwater Management Area 14 (GMA 14) met four times in 2024, on February 29, 2024, May 14, 2024, August 29, 2024 and November 19, 2024, and a representative from

# GOAL 4.3

the District was present at all four meetings. The notices/agendas for the 2024 meetings, as well as the sign-in sheets, are attached.

## OBJECTIVE 2

GMA 14 (of which the District is a member), adopted its most recent Desired Future Conditions (DFCs) on February 23, 2022. On June 15, 2022 the Texas Water Development Board deemed the DFC submittal to be administratively complete and on July 14, 2022 the District adopted the DFCs specific and relevant to the District.

The new DFCs include “multiple metrics”, one of which is subsidence based. The subsidence-based metric is “...no more than an average of 1.0 additional foot of subsidence between 2009 and 2080”.

To track and monitor subsidence within the District, the District will utilize data made available by the Harris-Galveston Subsidence District (HGSD). The HGSD operates a network of their own subsidence monitoring stations and collects data from other sites throughout the greater Houston area and makes this data available to the public. The Harris-Galveston Subsidence District collects data from 3 sites within the District: the TXKO site in Kountze, Texas, the TXWO site in Woodville, Texas, and the TXNE site in Newton, Texas. I have also included data from site TXB1, located in Jefferson County just 1.25 miles south of the Hardin/Jefferson County line (just off 69/96/287).

Included are two location maps for the sites (one a general HGSD map and the second specific to the District), as well site summaries and graphs showing the 5-Year Subsidence Rate and Change in Ellipsoid Height. The Data provided from these sites shows a very nominal change in surface elevation, with the change being a rise in the elevation for all four sites. The summaries indicate an annual subsidence rate ranging between -0.11 and -0.27 cm/yr for an average of 0.17 centimeters (a minor rise in elevation).

At the District’s October 10, 2024 board meeting the Directors approved funds for a new subsidence monitoring station to be constructed in Jasper County. At the time of this report, the site has not yet been completed but is expected to be online by mid-year 2025. The site is to be located approximately 2.5 miles south of Buna, Texas.

# GROUNDWATER MANAGEMENT AREA 14 JOINT PLANNING COMMITTEE MEETING

## NOTICE OF OPEN MEETING

As required by Section 36.108(e), Texas Water Code, a meeting of the **Groundwater Management Area 14 Joint Planning Committee**, comprised of representatives from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 14: Bluebonnet GCD, Brazoria County GCD, Lone Star GCD, Lower Trinity GCD, and Southeast Texas GCD, will be held on **Thursday February 29, 2024 beginning at 10:00 A.M. at the offices of the Lone Star Groundwater Conservation District, located at 655 Conroe Park North, Conroe, TX 77303.**

The items of business to be considered and transacted during the meeting are as follows:

1. Call to order;
2. Confirmation of receipt of posted notices;
3. Welcome and introductions;
4. Public comment;
5. Discussion and possible action to approve minutes of the October 26, 2023 GMA 14 Joint Planning Meeting;
6. Update from Texas Water Development Board (TWDB) and discussion of any related items of interest to GMA 14;
7. Presentation by Lone Star Groundwater Conservation District regarding assessment of water levels in GMA 14;
8. Update from Lone Star Groundwater Conservation District regarding data from the District's Subsidence Study Phase 3;
9. Discussion and possible action regarding MAG Peak Factors including recommendations for Regional Water Planning Group H;
10. Discussion and possible action regarding a resolution formally requesting the use of an alternate/updated groundwater availability model;
11. Discussion and possible action regarding the DFCs and the path forward for GMA 14;
12. Discussion and possible action regarding next meeting date, location, and agenda items;
13. Meeting Adjourned;

Comments concerning any aspect of this meeting should be directed to Mr. John Martin of the Southeast Texas Groundwater Conservation District, P.O. Box 1407, Jasper, TX 75951; [jmartin@setgcd.org](mailto:jmartin@setgcd.org), or (409) 383-1577.

Come to hand and posted on a Bulletin Board in the Courthouse, \_\_\_\_\_ County, Texas, on this, the \_\_\_\_\_ day of February, 2024.



John Martin, Chairman  
GMA 14 Planning Group

\_\_\_\_\_ Deputy Clerk

\_\_\_\_\_ County, Texas

This meeting is also available for viewing via livestream at: <https://bit.ly/LoneStarGCDlive>

*These public meetings are available to all persons regardless of disability. If you require special assistance to attend the meeting please contact the Southeast Texas Groundwater Conservation District, (409) 383-1577, at least three working days prior to the meeting, so that appropriate arrangements can be made.*



## GMA 14 MEMBER AND INTERLOCAL SIGN IN SHEET

February 29, 2024  
10:00 AM

Member District	District Representative	Date	Signature
Bluebonnet GCD	Zach Holland		<i>Zach Holland</i>
Brazoria County GCD	Beverly Hopkins	2/29	<i>Beverly Hopkins</i>
Lone Star GCD	Sarah Kouba	2/29	<i>Sarah Kouba</i>
Lower Trinity GCD	Gary Ashmore	2-29	<i>Gary Ashmore</i>
Southeast Texas GCD	John Martin	2-29	<i>John Martin</i>
Interlocal Participant	Representative	Date	Signature
Harris-Galveston Subsidence District	<i>Mic... T...a</i>	2/29	<i>Mic... T...a</i>
Fort Bend Subsidence District	Ashley Greuter	2/29	<i>Ashley Greuter</i>
Washington County	*		
Chambers County			

\* Kirk Hannath arrived late

**GROUNDWATER MANAGEMENT AREA 14  
JOINT PLANNING COMMITTEE MEETING  
NOTICE OF OPEN MEETING**

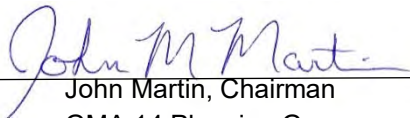
As required by Section 36.108(e), Texas Water Code, a meeting of the **Groundwater Management Area 14 Joint Planning Committee**, comprised of representatives from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 14: Bluebonnet GCD, Brazoria County GCD, Lone Star GCD, Lower Trinity GCD, and Southeast Texas GCD—will be held on **Tuesday May 14, 2024 beginning at 1:00 P.M. at the Barnhill Center, 111 West Main Street, Brenham, TX 77833**

The items of business to be considered and transacted during the meeting are as follows:

1. Call to order;
2. Confirmation of receipt of posted notices;
3. Welcome and introductions;
4. Public comment;
5. Discussion and possible action to approve minutes of the February 29, 2024, GMA 14 Joint Planning Meeting;
6. Update from Texas Water Development Board (TWDB) and discussion of any related items of interest to GMA 14;
7. KT Groundwater/AGS updates regarding identified issues in the CSUB (compaction and subsidence) package of the current Gulf 2023 model, and LSGCD coring study;
8. Update from Zach Holland on the GMA 14 Members' consultants meeting regarding DFC and groundwater availability model update timeline;
9. Discussion and possible action regarding a resolution formally requesting the use of an updated groundwater availability model;
10. Discussion and possible action regarding the path forward for GMA 14 on the development of the current round of Desired Future Conditions (DFCs) including but not limited to the development of the DFCs by way of "member committee", or via the hiring of a GMA 14 consultant and discussion of RFQs for same;
11. Discussion and possible action regarding a minimum number of days documents should be made available to the GMA Members prior to a meeting;
12. Discussion and possible action regarding next meeting date, location, and agenda items;
13. Meeting Adjourned.

Comments concerning any aspect of this meeting should be directed to Mr. John Martin of the Southeast Texas Groundwater Conservation District at [jmartin@setgcd.org](mailto:jmartin@setgcd.org); or (409) 383-1577.

Come to hand and posted on a Bulletin Board in the Courthouse, \_\_\_\_\_ County, Texas, on this, the \_\_\_\_\_ day of \_\_\_\_\_, 2024.

  
\_\_\_\_\_  
John Martin, Chairman  
GMA 14 Planning Group

\_\_\_\_\_  
Deputy Clerk

\_\_\_\_\_  
County, Texas

*These public meetings are available to all persons regardless of disability. If you require special assistance to attend the meeting please contact the Southeast Texas Groundwater Conservation District, (409) 383-1577, at least three working days prior to the meeting, so that appropriate arrangements can be made.*





## GMA 14 MEMBER AND INTERLOCAL SIGN IN SHEET

May 14, 2024  
1:00 AM

Member District	District Representative	Date	Signature
Bluebonnet GCD	Zach Holland	<i>5/14/24</i>	<i>Zach Holland</i>
Brazoria County GCD	Beverly Hopkins	<i>5/14/24</i>	<i>BH</i>
Lone Star GCD	Jim Spigener <i>Skolva</i>	<i>5/14/24</i>	<i>Jim Spigener</i>
Lower Trinity GCD	Gary Ashmore	<i>5/14/24</i>	<i>Gary Ashmore</i>
Southeast Texas GCD	John Martin	<i>5-14-24</i>	<i>John Martin</i>
Interlocal Participant	Representative	Date	Signature
Harris-Galveston Subsidence District	Mike Turco	<i>5/14/24</i>	<i>Mike Turco</i>
Fort Bend Subsidence District	Ashley Grueter	<i>5/14/24</i>	<i>Ashley Grueter</i>
Washington County	Kirk Hanath	<i>5.14.24</i>	<i>Kirk Hanath</i>
Chambers County	Gary Nelson		

# GROUNDWATER MANAGEMENT AREA 14 JOINT PLANNING COMMITTEE MEETING

## NOTICE OF OPEN MEETING

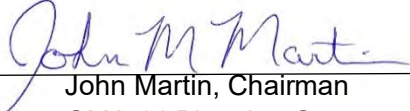
As required by Section 36.108(e), Texas Water Code, a meeting of the **Groundwater Management Area 14 Joint Planning Committee**, comprised of representatives from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 14: Bluebonnet GCD, Brazoria County GCD, Lone Star GCD, Lower Trinity GCD, and Southeast Texas GCD, will be held on **Thursday August 29, 2024 beginning at 11:00 A.M. at the offices of the Lone Star Groundwater Conservation District, located at 655 Conroe Park North, Conroe, TX 77303.**

The items of business to be considered and transacted during the meeting are as follows:

1. Call to order;
2. Confirmation of receipt of posted notices;
3. Welcome and introductions;
4. Public comment;
5. Discussion and possible action to approve minutes of the May 14, 2024 GMA 14 Joint Planning Meeting;
6. Update from Texas Water Development Board (TWDB) and discussion of any related items of interest to GMA 14;
7. Discussion and possible action regarding a centralized GMA14 document repository;
8. Update from Lone Star Groundwater Conservation District regarding progress on the district's coring project and Gulf2023 Model update request;
9. Discussion and possible action regarding the path forward for GMA 14 on the development of the current round of Desired Future Conditions (DFCs) including but not limited to the review and possible approval of request for qualifications (RFQs) developed by the RFQ Committee for the purpose of soliciting a consultant to assist the GMA with preparation and submittal of the DFCs;
10. Discussion and possible action regarding a stakeholder committee / interlocal agreement and participation by the subsidence districts and individual counties within GMA 14;
11. Discussion and possible action regarding next meeting date, location, and agenda items;
12. Meeting Adjourned;

Comments concerning any aspect of this meeting should be directed to Mr. John Martin of the Southeast Texas Groundwater Conservation District, P.O. Box 1407, Jasper, TX 75951; [jmartin@setgcd.org](mailto:jmartin@setgcd.org), or (409) 383-1577.

Come to hand and posted on a Bulletin Board in the Courthouse, \_\_\_\_\_ County, Texas, on this, the \_\_\_\_\_ day of August, 2024.

  
\_\_\_\_\_  
John Martin, Chairman  
GMA 14 Planning Group

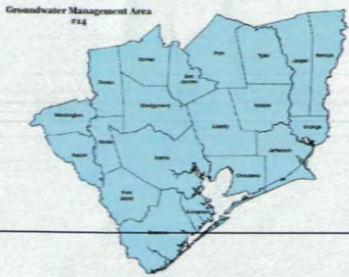
\_\_\_\_\_  
Deputy Clerk

\_\_\_\_\_  
County, Texas

This meeting is also available for viewing via livestream at: <https://bit.ly/LoneStarGCDlive>

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**GROUNDWATER MANAGEMENT AREA  
(GMA 14) JOINT PLANNING MEETING  
SIGN IN SHEET**

August 29, 2024  
11:00 am

Member District	District Representative	Date	Signature
Bluebonnet GCD	Zach Holland		
Brazoria County GCD	Beverly Hopkins	<sup>8/29/24</sup> 8-29-24	<sup>Zach Holland</sup> BH
Lone Star GCD	Sarah Kouba	8/29/24	SK
Lower Trinity GCD	Gary Ashmore	8/29/24	GA
Southeast Texas GCD	John Martin	8-29-24	JM
Interlocal Participant	Representative	Date	Signature
Harris Galveston Subsidence District	Mike Turco	8/29/24	MT
Fort Bend Subsidence District	Ashley Greuter	8/29/24	AG
Washington County	*		
Chambers County			

\* Kirk Hannath Arrived Late

# GROUNDWATER MANAGEMENT AREA 14 JOINT PLANNING COMMITTEE MEETING

## NOTICE OF OPEN MEETING

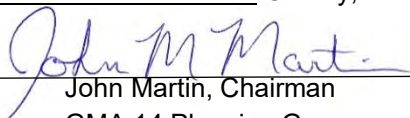
As required by Section 36.108(e), Texas Water Code, a meeting of the **Groundwater Management Area 14 Joint Planning Committee**, comprised of representatives from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 14: Bluebonnet GCD, Brazoria County GCD, Lone Star GCD, Lower Trinity GCD, and Southeast Texas GCD, will be held on **Tuesday November 19, 2024 beginning at 10:00 A.M. at the offices of the Lone Star Groundwater Conservation District, located at 655 Conroe Park North, Conroe, TX 77303.**

The items of business to be considered and transacted during the meeting are as follows:

1. Call to order;
2. Confirmation of receipt of posted notices;
3. Welcome and introductions;
4. Public comment;
5. Discussion and possible action to approve minutes of the May 14, 2024 and August 29, 2024 GMA 14 Joint Planning Meetings;
6. Update from Texas Water Development Board (TWDB) and discussion of any related items of interest to GMA 14;
7. Review, discuss and consider member district management plans as required by Chapter 36.108(c);
8. Update from Lone Star Groundwater Conservation District regarding progress on the district's coring project and Gulf2023 Model update request;
9. Discussion and possible action regarding the path forward for GMA 14 and the development of the Desired Future Conditions (DFCs) including but not limited to the consideration of submitted responses to GMA 14's RFQs for a DFC consultant, or in the absence of receiving any responses to the RFQs, discussion on how to proceed with the development of the of the DFCs for the current round of joint planning;
10. Discussion and possible action regarding next meeting date, location, and agenda items;
11. Meeting Adjourned;

Comments concerning any aspect of this meeting should be directed to Mr. John Martin of the Southeast Texas Groundwater Conservation District, P.O. Box 1407, Jasper, TX 75951; [jmartin@setgcd.org](mailto:jmartin@setgcd.org), or (409) 383-1577.

Come to hand and posted on a Bulletin Board in the Courthouse, \_\_\_\_\_ County, Texas, on this, the \_\_\_\_\_ day of \_\_\_\_\_, 2024.

  
\_\_\_\_\_  
John Martin, Chairman  
GMA 14 Planning Group

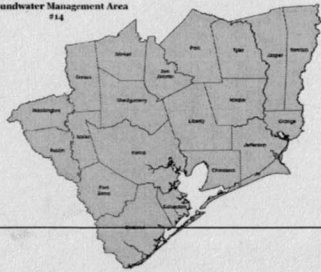
\_\_\_\_\_  
Deputy Clerk

\_\_\_\_\_  
County, Texas

*This meeting is also available for viewing via livestream at: <https://bit.ly/LoneStarGCDlive>*

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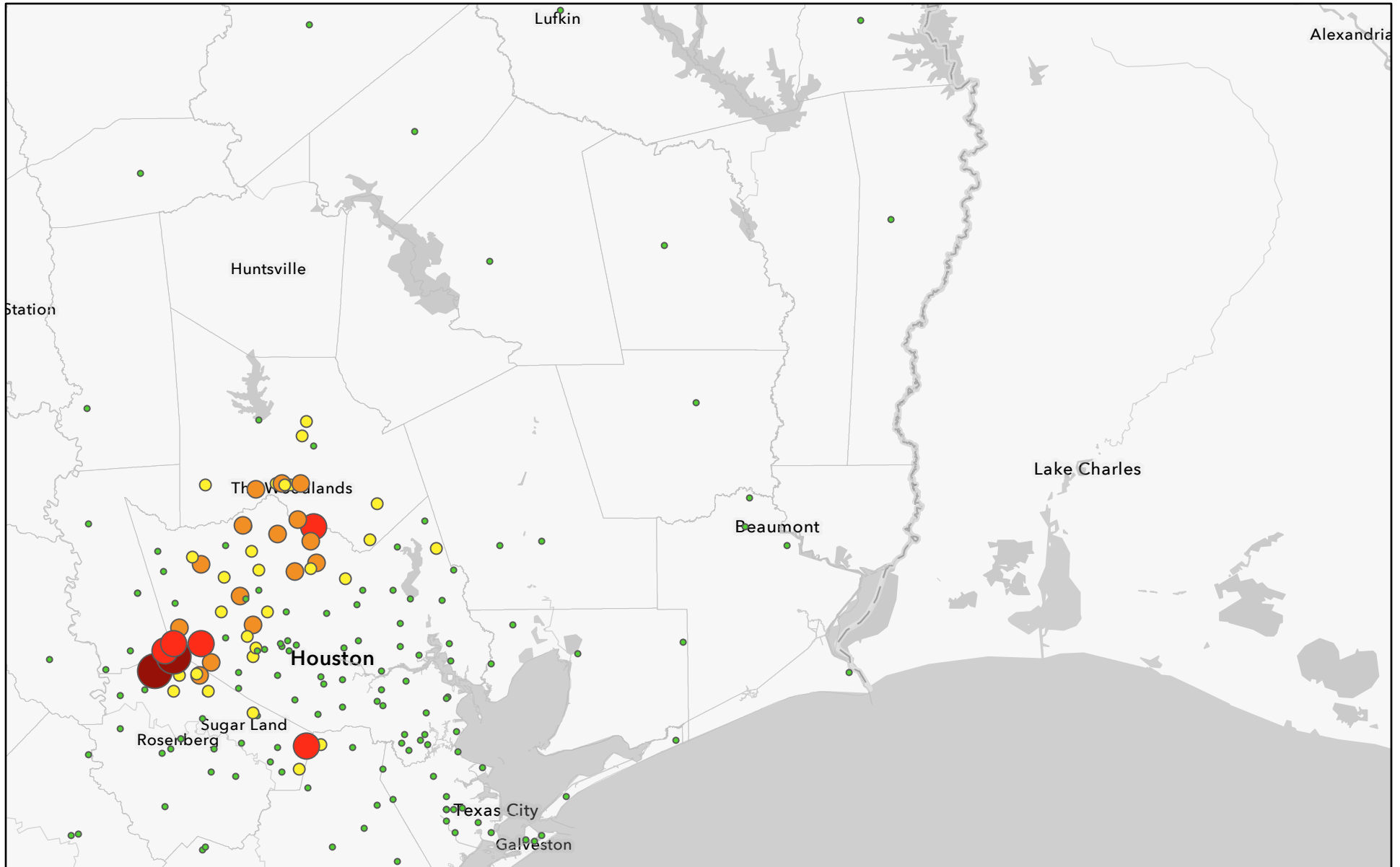


# GROUNDWATER MANAGEMENT AREA (GMA 14) JOINT PLANNING MEETING SIGN IN SHEET

November 19, 2024  
10:00 am

Member District	District Representative	Date	Signature
Bluebonnet GCD	Zach Holland	11/19	<i>Zach Holland</i>
Brazoria County GCD	Beverly Hopkins		<i>Beverly Hopkins</i>
Lone Star GCD	Sarah Kouba	11/19	<i>Sarah Kouba</i>
Lower Trinity GCD	Gary Ashmore	11/17	<i>Gary Ashmore</i>
Southeast Texas GCD	John Martin	11/19	<i>John Martin</i>
Stakeholder Participation	Representative	Date	Signature
Harris Galveston Subsidence District	Mike Turco	11/19	<i>Mike Turco</i>
Fort Bend Subsidence District	Ashley Greuter		
Washington County			
Chambers County			

# Subsidence rates in Harris, Galveston, and surrounding counties, from 2019 to 2023



1/31/2025

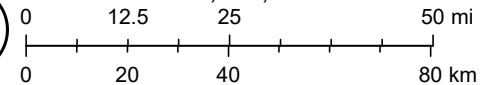
Annual Subsidence Rates (cm/yr.) from 2019 to 2023

- Greater than 2.0
- 2.0 - 1.5

- 1.5 - 1.0
- 1.0 - 0.5
- Less than 0.5

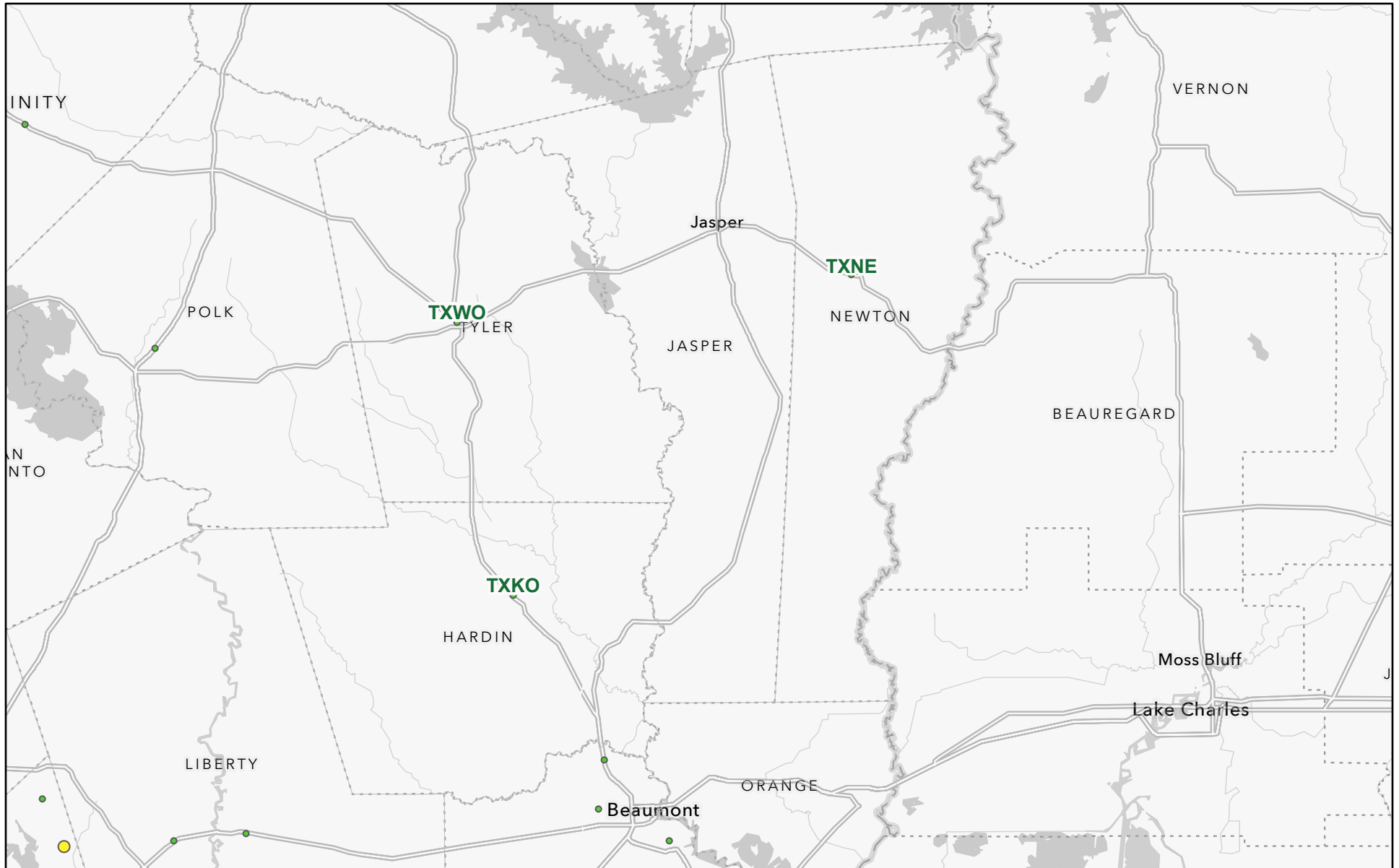


1:1,730,968



DETCOG, Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, FAO, NOAA, USGS, EPA, NPS, USFWS

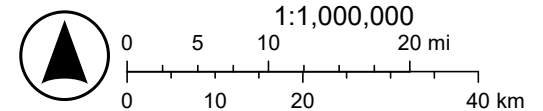
# Subsidence rates in Harris, Galveston, and surrounding counties, from 2019 to 2023



1/31/2025

Annual Subsidence Rates (cm/yr.) from 2019 to 2023

- 1.0 - 0.5
- Less than 0.5



DETCOG, Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, USFWS

## Annual Subsidence Rate (cm yr.) from 2019 to 2023

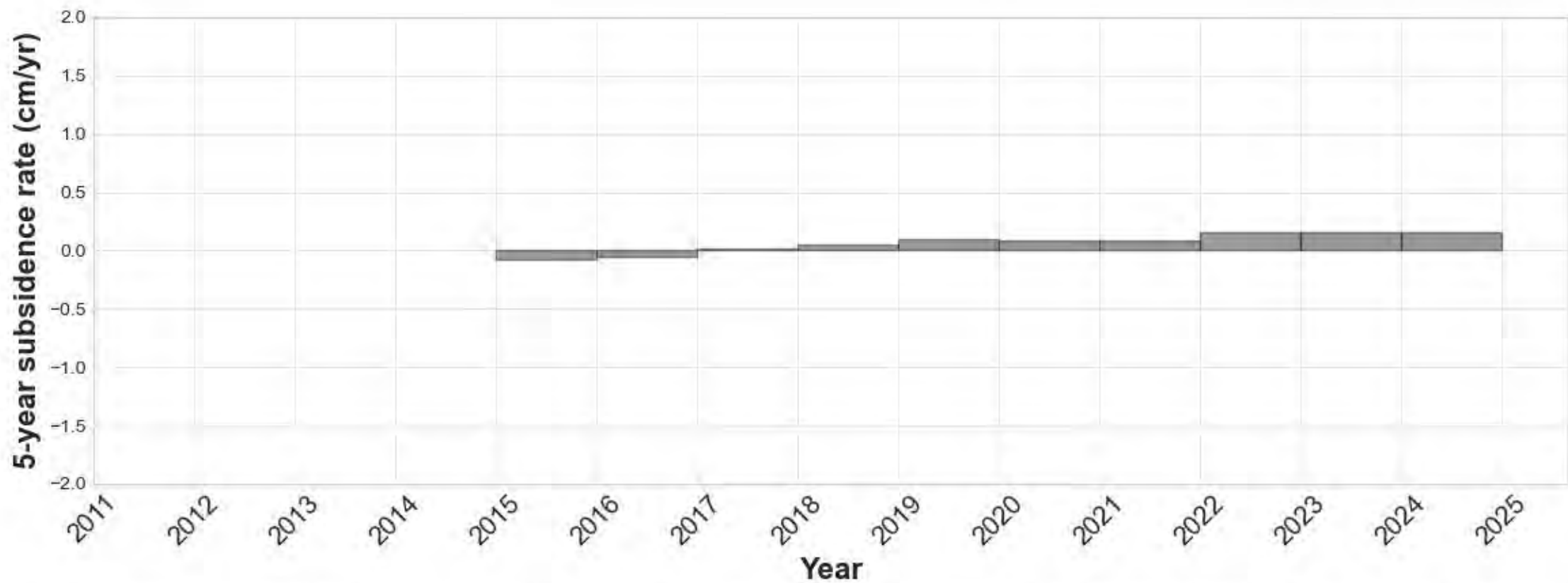
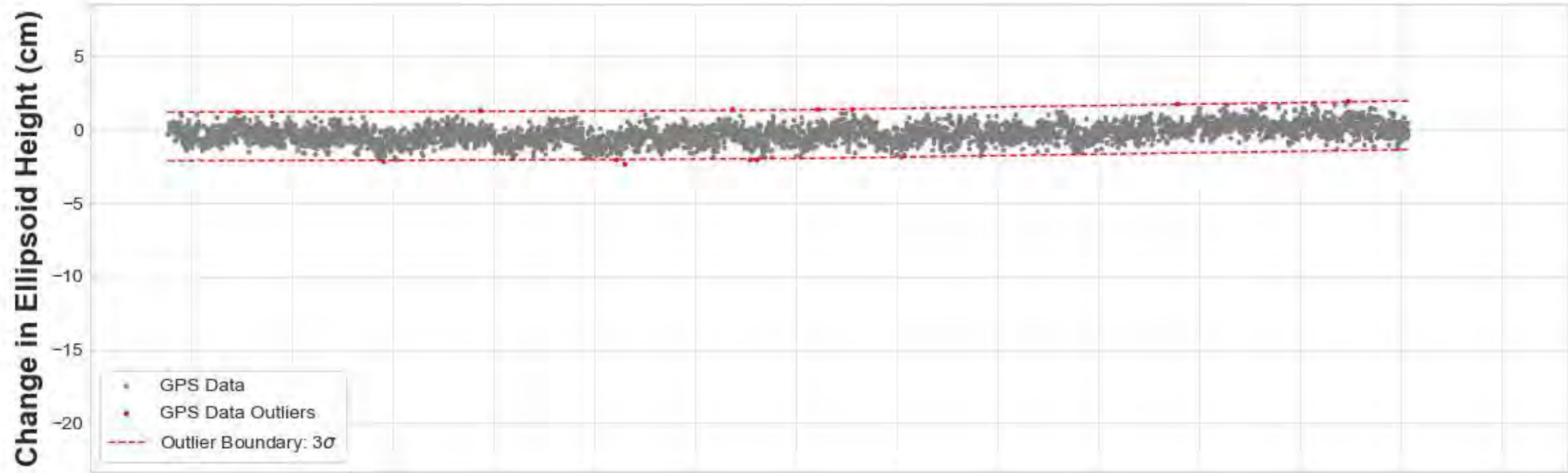


 Table  Zoom to

Station Name	TXKO
Operator	Texas Department of Transportation
Latitude	30.395
Longitude	-94.332
Start Year	2011.77
End Year	2024.07
Years Monitoring	12.30
Total Vertical Displacement (cm)	0.00
Subsidence Rate (cm/yr.)	-0.16

TXKO

# TXKO





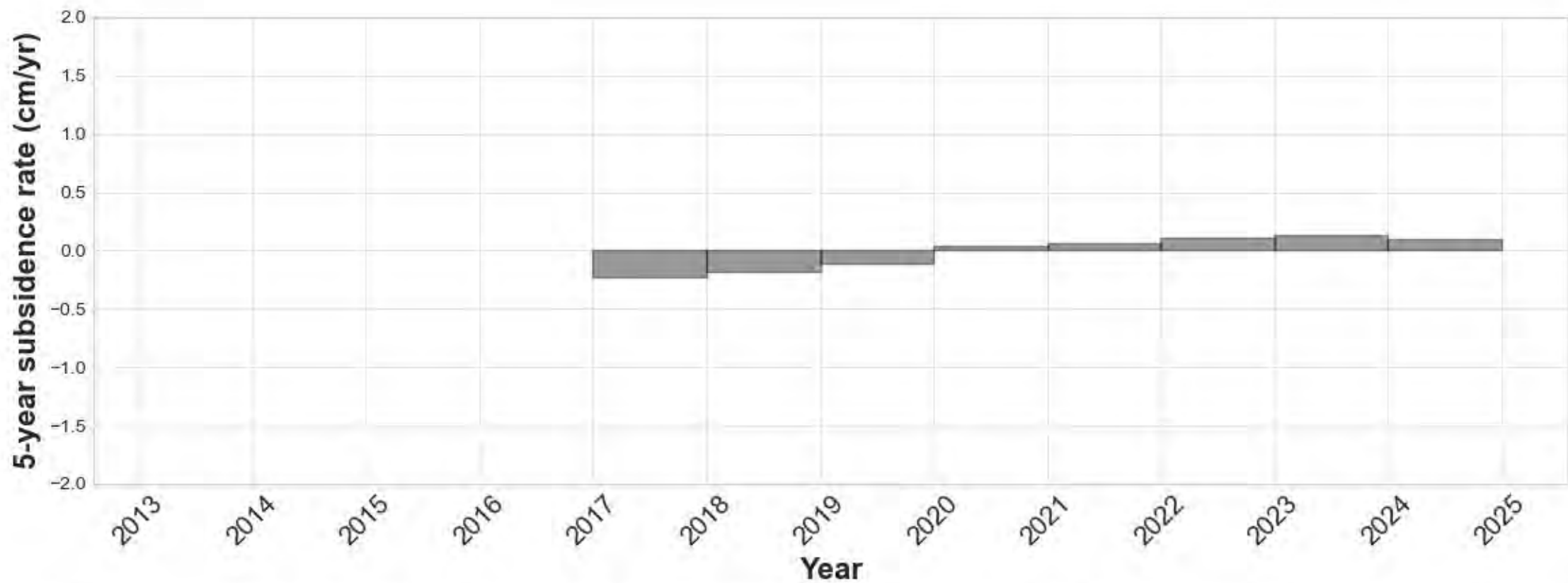
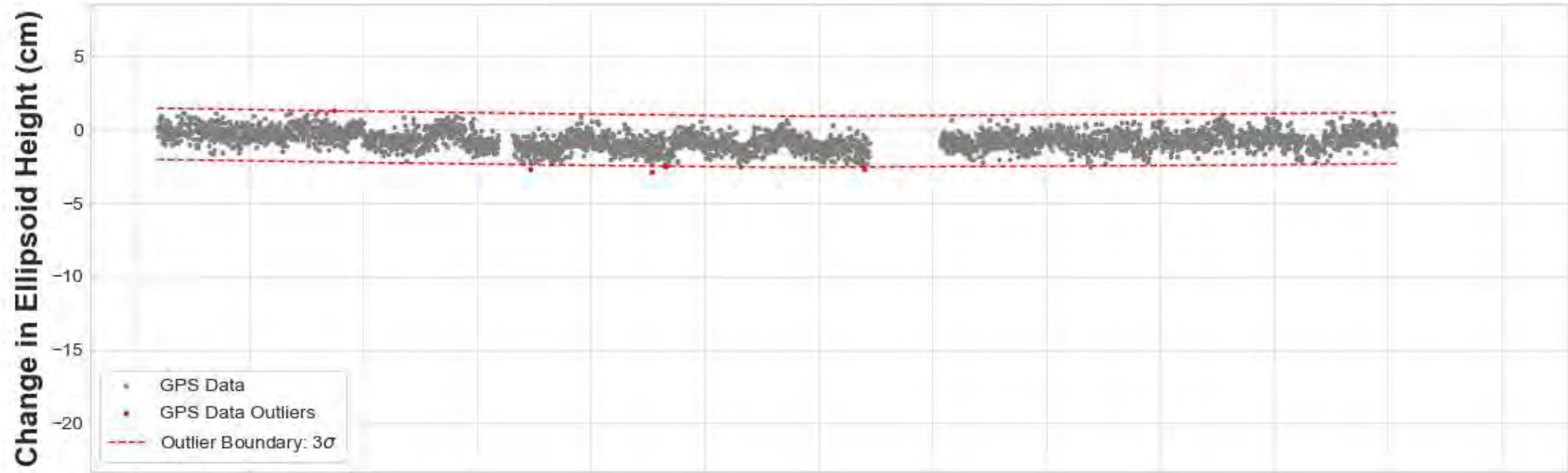
## Annual Subsidence Rate (cm yr.) from 2019 to 2023



 Table  Zoom to

Station Name	TXNE
Operator	Texas Department of Transportation
Latitude	30.848
Longitude	-93.775
Start Year	2013.19
End Year	2024.07
Years Monitoring	10.88
Total Vertical Displacement (cm)	-0.60
Subsidence Rate (cm/yr.)	-0.14

# TXNE



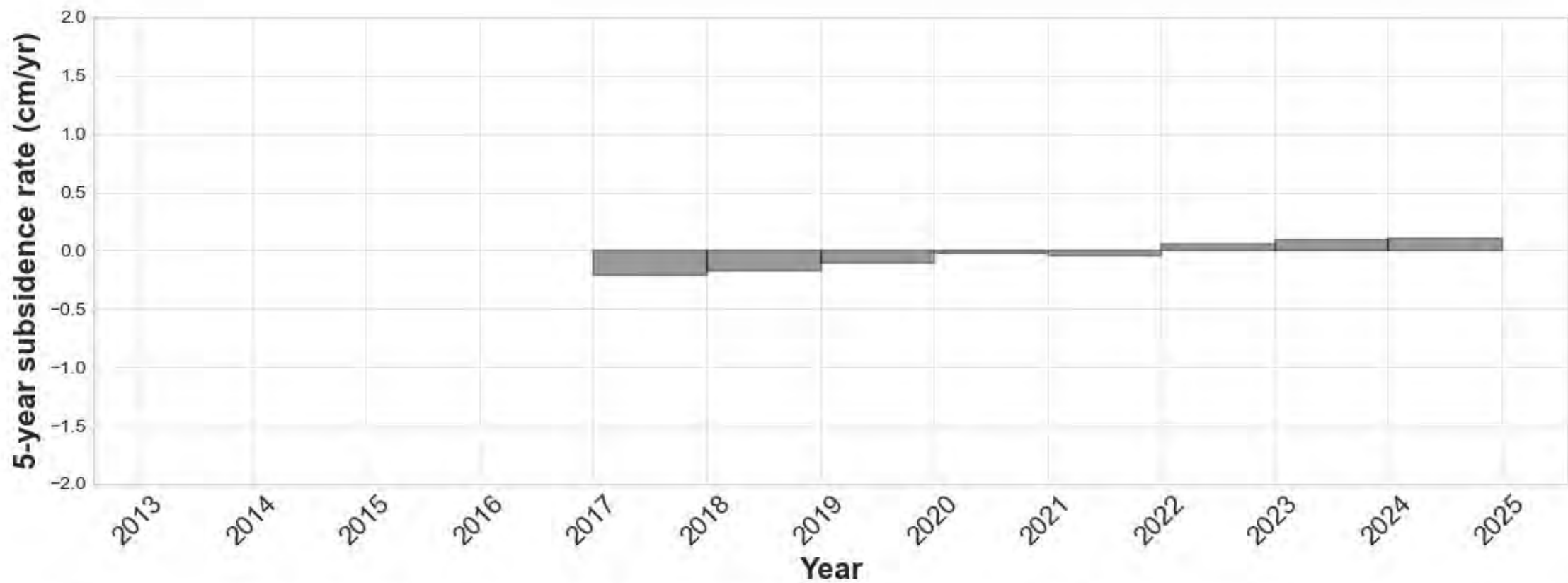
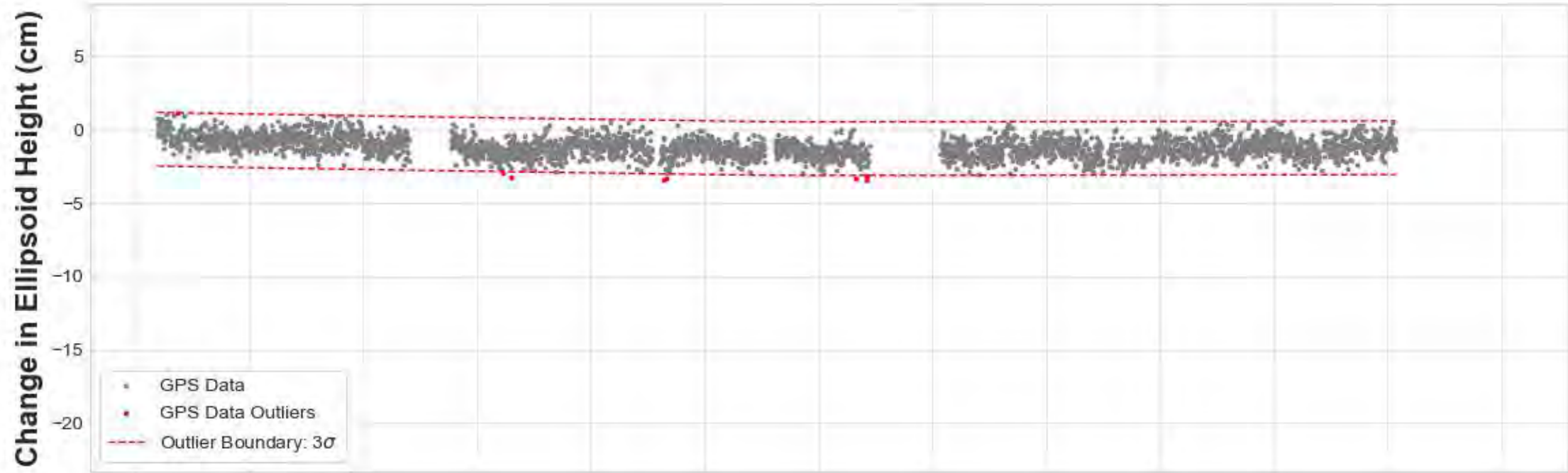
## Annual Subsidence Rate (cm yr.) from 2019 to 2023



 Table  Zoom to

Station Name	TXWO
Operator	Texas Department of Transportation
Latitude	30.782
Longitude	-94.424
Start Year	2013.19
End Year	2024.07
Years Monitoring	10.88
Total Vertical Displacement (cm)	-0.90
Subsidence Rate (cm/yr.)	-0.11

# TXWO



## Annual Subsidence Rate (cm yr.) from 2019 to 2023

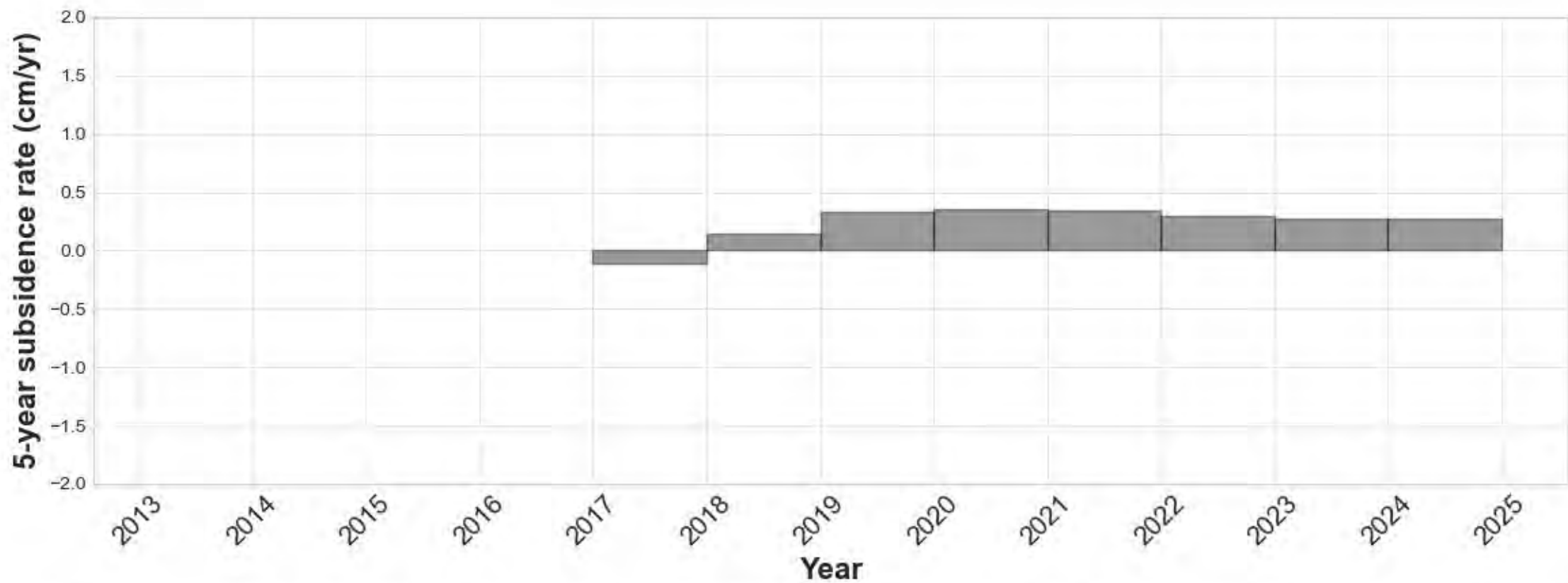
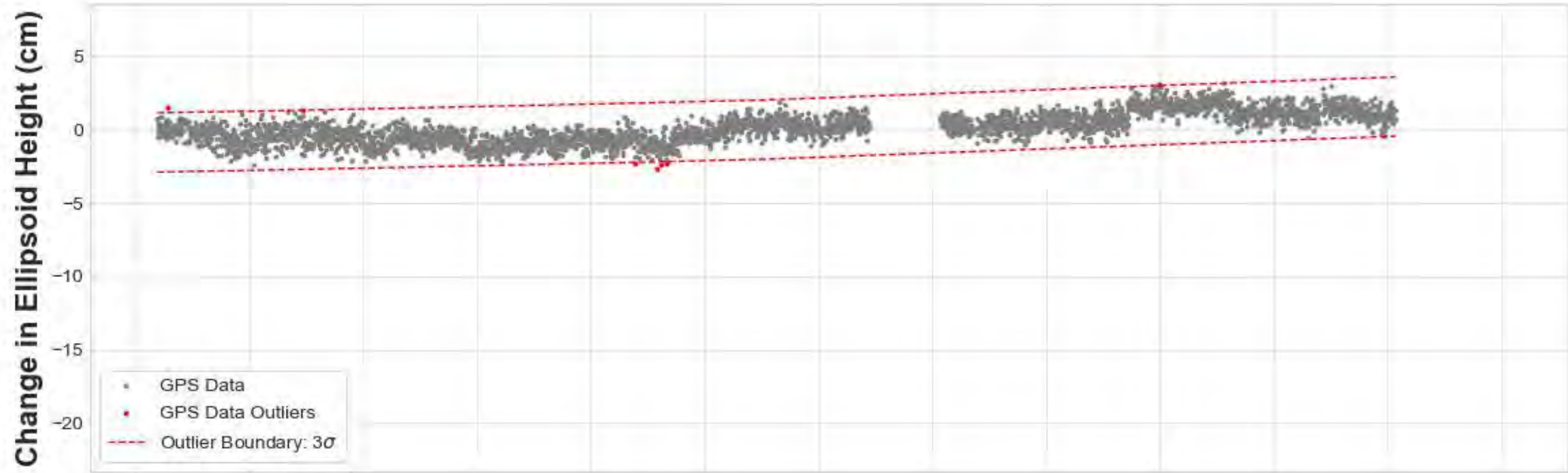


 Table  Zoom to

Station Name	TXB1
Operator	Texas Department of Transportation
Latitude	30.161
Longitude	-94.181
Start Year	2013.19
End Year	2024.07
Years Monitoring	10.88
Total Vertical Displacement (cm)	1.00
Subsidence Rate (cm/yr.)	-0.27



# TXB1



# GOAL 4.4

## ADDRESSING CONJUNCTIVE SURFACE WATER MANAGEMENT ISSUES

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### OBJECTIVE

1. *The District will coordinate conjunctive surface water issues with the Angelina and Neches River Authority (ANRA), Lower Neches Valley Authority (LNVA), the Sabine River Authority (SRA), and the East Texas Regional Water Planning Group (also known as Region I), by either inviting the officials from the Planning Group to attend a District meeting at least once a year or by attending at least one of the East Texas Regional Water Planning Group meeting each year.*

### PERFORMANCE STANDARD

1. *A copy of the invitation letters to the Planning Group and the surface water providers, as well as evidence that the letters have been sent, via either U.S. Postal Service (registered/return receipt) or email, will be included in the District's Annual Report, or a copy of the East Texas Regional Water Planning Group meeting notice(s) and sign in sheet(s) indicating a representative of the District was present will be included in the District's Annual Report.*
- 
- 

### OBJECTIVE 1

The East Texas Regional Water Planning Group (also known as Region I WPG) is the most comprehensive regional water planning agency in East Texas. The RWPG incorporates all aspects of water use in the development of the Regional Water Plan and is done so with 20 stakeholders/members. Three of the Region I WPG stakeholders/members are the general managers of the three river authorities within the District. Manager Martin works very closely in coordinating surface water issues with the river authorities within the District and East Texas in general. Manager Martin has been serving as the Region I Chairman since October 19, 2022. The District's Director Robb Starr is also an active voting member of the Region I WPG.

Region I scheduled and posted notices/agendas for three meetings in 2024, which were all attended by one or more District representatives (Manager Martin or Director Starr).

In addition to being an active participant of the Region I Water Planning Group, the District is also a member of Groundwater Management Area 14. This group's goal is regional planning for the shared groundwater resources within GMA 14 which is made up of 20 counties located over the northeastern portion of the Gulf Coast Aquifer.



# GOAL 4.4

The Desired Future Conditions (“DFCs”) and associated Managed Available Groundwater data are integral parts of the regional water planning process and are developed wholly by the Groundwater Management Areas (GMA). Once DFC’s are developed by the GMA, and then approved by the TWDB, the TWDB issues a Managed Amount of Groundwater (MAG) report for that GMA. GMA 14 finalized and approved the current DFCs in 2022 and subsequently a new MAG was made available (MAG GR 21-019). The Regional Water Planning Groups are then required to utilize the data contained in the MAGs in the development of the regional water plans.

The table below shows each water planning group, the date of the meeting and the District’s representative(s) in attendance. At least one District representative attended 100% of both Region I and GMA 14 meetings; copies of the notices/agendas and sign-in sheets are attached. Sign-in sheets may not be available or may show that a member “signed in” virtually as Region I allows for virtual attendance. Because of this, the meeting minutes for each meeting are included as they are the official record of the meeting and indicate all members who were “present”.

<b>Planning Group</b>	<b>Date of Meeting</b>	<b>Attendees</b>
<b>Region I Water Planning Group</b>	January 10, 2024	John Martin
<b>Region I Water Planning Group</b>	February 15, 2024	John Martin
<b>Region I Water Planning Group</b>	September 18, 2024	John Martin Robb Starr
<b>Groundwater Management Area 14</b>	February 29 , 2024	John Martin
<b>Groundwater Management Area 14</b>	May 14, 2024	John Martin
<b>Groundwater Management Area 14</b>	August 29, 2024	John Martin
<b>Groundwater Management Area 14</b>	November 19, 2024	John Martin

Additionally, all regular meeting notices/agendas of the Southeast Texas Groundwater Conservation District were provided via email to the surface water entities within the District, as well as to the Regional Water Planning Group, which then emails the notice to all Region I Members in an effort to encourage their attendance at our District meetings.



**10 January 2024 • 10:00 AM**  
**Nacogdoches Recreation Center**  
**1112 North Street**  
**Nacogdoches, TX 75961**  
**AGENDA**

**Meeting Details and Documents can be found at: <https://www.etexwaterplan.org/meetings/>**  
**Remote Meeting Connection Information:**

Join via Web Browser: <https://www.microsoft.com/microsoft-teams/join-a-meeting>  
Meeting ID – 280 491 431 676  
Passcode - AQdZHD

1. Call to Order
2. Invocation & Pledge of Allegiance
3. Notice of Meeting
4. Roll Call/Determination of Quorum
5. Public Comments
6. Consideration and Approval of the minutes of the October 04, 2023 meeting
7. Reports from City of Nacogdoches – Cheryl Bartlett
8. Reports of Adjoining Regions' Activity:
  - a. Region C – David Montagne
  - b. Region D – John McFarland
  - c. Region H – Scott Hall
  - d. Interregional Liaison – Kelley Holcomb
9. Reports from Standing Committees:
  - a. Executive Committee – John Martin
  - b. Finance Committee – Kelley Holcomb
  - c. Bylaws Committee – David Alders
  - d. Technical Committee – Scott Hall
  - e. Nominations Committee – Monty Shank
10. Discussion and possible action to approve recommendations from the Nominations Committee for the appointment of voting members the East Texas Regional Water Planning Group
11. Report from Consultant Team:
  - a. Update on the Texas Water Development Board (TWDB) Adopted Revisions to the Population and Demand Projection in the 2026 Regional Water Plan (2026 RWP) – Brigit Buff
  - b. Discussion of Updates on Surface Water Supply Projection – Jordan Skipwith
  - c. Discussion of Updates on Groundwater Supply Projection – James Beach
  - d. Discussion of Draft Water Needs and Updates on Demand Allocations – Brigit Buff and Jordan Skipwith



- e. Discussion of Conservation and Reuse Methodology – Brigit Buff
  - f. Status Update on Infeasible Water Strategies – Brigit Buff
  - g. Status Update on the Hydrological Variance Requests for Surface Water Supplies – Brigit Buff
12. Reports from other state agencies and Groundwater Management Areas, as necessary:
- a. Texas Water Development Board – Lann Bookout
  - b. Texas Department of Parks & Wildlife – Stephen Lange
  - c. Texas Department of Agriculture – Manual Martinez
  - d. Texas Soil and Water Conservation Board – Trey Watson
  - e. Groundwater Management Areas 11 and 14 –John McFarland/John Martin
13. General Discussion
14. Next Meeting Date – February 15, 2024
15. Adjourn

Comments from members and the public will be accepted by the Planning Group as listed in the agenda items above. For questions, requests, or additional information outside of the general meeting, please visit the Planning Group website, <https://www.etexwaterplan.org/>, or contact the Planning Group Administrative Contact:

c/o City of Nacogdoches  
PO Box 635030  
Nacogdoches, Texas 75963-3030  
Attn: Cheryl Bartlett  
Region I Administrative Contact  
936-559-2528  
[regioniwater@gmail.com](mailto:regioniwater@gmail.com)



**10 January 2024 • 10:00 AM**

**Nacogdoches Recreation Center  
1112 North Street  
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AGENDA**

The Region I East Texas Regional Water Planning Group has an Executive Committee and four additional standing committees. These committees function under the direction of the Region I East Texas Regional Water Planning Group as defined in the approved By-Laws. Committee meetings are held on an as needed basis. These Committees and their meeting times and agenda items are as follows:

**Executive Committee** – No Meeting

**Nominations Committee** – Meeting, 9:30 AM

1. Consider list of nomination recommendations for open positions

**By-Laws Committee** – No Meeting

**Finance Committee** – Meeting 9:15 AM

1. Updates on status of TWDB funding & consultant expenditures
2. P & L on status of funding from the counties in the Region

**Technical Committee** – No Meeting

# Region I Water User Group Meeting, January 10, 2024

Sign -in	Name	Organization	Phone	Email
<b>VOTING MEMBERS</b>				<i>Please check your contact information</i>
	Alders, David	Agriculture	936-569-1284	<a href="mailto:alders.david@gmail.com">alders.david@gmail.com</a>
virtual	Davis, Chris	Counties	903-683-2324	<a href="mailto:cojudge@cocherokee.org">cojudge@cocherokee.org</a>
	X Dietz, Kate	Municipalities	903-330-1421	<a href="mailto:kdietz@tylertexas.com">kdietz@tylertexas.com</a>
virtual	Gorsich, David	Industries	409-239-4514	<a href="mailto:david.m.gorsich@exxonmobil.com">david.m.gorsich@exxonmobil.com</a>
virtual	Hall, Scott	River Authorities	409-892-4011	<a href="mailto:scott.hall@lnva.org">scott.hall@lnva.org</a>
	Holcomb, Kelley	River Authorities	936-633-7543	<a href="mailto:kholcomb@anra.org">kholcomb@anra.org</a>
	Jackson, Fred L.	Counties	409-835-8466	<a href="mailto:fjackson@co.jefferson.tx.us">fjackson@co.jefferson.tx.us</a>
	Martin, John	GMA-14	409-383-0799	<a href="mailto:jmartin@setgcd.org">jmartin@setgcd.org</a>
	McBroom, Matthew	Environmental	936-468-2313	<a href="mailto:mcbroommatth@sfasu.edu">mcbroommatth@sfasu.edu</a>
	McFarland, John	GMA-11	936-568-9292	<a href="mailto:jmcfarland@pgcd.org">jmcfarland@pgcd.org</a>
	Mettauer, Matthew	Agriculture	936-598-9400	<a href="mailto:matthew@mettauerlaw.com">matthew@mettauerlaw.com</a>
virtual	Montagne, David	River Authorities	409-746-2192	<a href="mailto:dmontagne@sratx.org">dmontagne@sratx.org</a>
	Shank, Monty	River Authorities	903-876-2237	<a href="mailto:mdsunra@dctexas.net">mdsunra@dctexas.net</a>
virtual	Snyder, Mike	Electric Power	409-981-2114	<a href="mailto:msnyder@entergy.com">msnyder@entergy.com</a>
	X Starr, Robb	Water Utilities	409-755-1559	<a href="mailto:robbs@lumbertonmud.com">robbs@lumbertonmud.com</a>
	Stelly, Terry	Public	409-728-0268	<a href="mailto:TerrySsmxd@Aol.com">TerrySsmxd@Aol.com</a>
	X Whitworth, Emily	Water District	903-330-1220	<a href="mailto:Ewhitowrth@yahoo.com">Ewhitowrth@yahoo.com</a>
	Wiesinger, Christopher	Small Business	214-683-0567 cell	<a href="mailto:cwiesinger@gmail.com">cwiesinger@gmail.com</a>





**MINUTES OF THE  
REGION I - EAST TEXAS REGIONAL WATER PLANNING GROUP MEETING  
Wednesday, January 10, 2024 – 10:00 A.M.**

1. **Call to Order** – Chairman John Martin called the meeting to order at 10:08 A.M.
2. **Invocation/Pledge** – David Alders led the invocation. John Martin led the Pledge.
3. **Notice of Meeting** – Notice was sent to Voting Members and posted as required.
4. **Roll Call/Determination of Quorum** – The roll was called by Cheryl Bartlett and quorum was determined as follows:

**Voting Members Present: (15 of 22)**

David Alders - Agriculture  
Chris Davis – Counties (*Virtual*)  
David Gorsich – Industry (*Virtual*)  
Scott Hall – River Authority (*Virtual*)  
Kelley Holcomb – River Authority  
Fred Jackson – Counties  
John Martin – GMA-14  
Matthew McBroom - Environmental  
John McFarland – GMA-11  
Matthew Mettauier - Agriculture  
David Montagne – River Authority (*Virtual*)  
Monty Shank – River Authority  
Mike Snyder – Electric Power (*Virtual*)  
Terry D. Stelly – Public  
Christopher Wiesinger – Small Business

**Voting Members Absent: (3)**

Kate Dietz - Municipality  
Rob Starr – Water Utilities  
Emily Whitworth – Water District

**Voting Member Category Vacancies: (4)**

Municipality  
Small Business  
Public  
Industry

**Other Attendees**

**Agencies:**

Lann Bookout - Tx Water Development Board (*Virtual*)  
Teresa Griffin – Panola County GCD  
Stephen Lange, Daniel Price – Tx Parks & Wildlife

**Staff and Consultants:**

Cheryl Bartlett - City of Nacogdoches  
Brigit Buff, PE – Plummer Asso.  
Cody McCann – Plummer Asso. *(Virtual)*  
Jordan Skipwith – Freese & Nichols  
Andy Donnelly – Advanced Groundwater Solutions *(Virtual)*  
James Beach – Advanced Groundwater Solutions *(Virtual)*

**5. Public Comments:** None

**6. Consideration and Approval of the minutes of the June 21, 2023 meeting**

*Fred Jackson made a motion to approve the minutes of the October 4, 2023 meeting as presented, 2<sup>nd</sup> by Terry Stelly, passed unanimously.*

**7. Report from City of Nacogdoches: Cheryl Bartlett**

The new City Manager, Rick Beverlin, started in November. No other updates to report.

**8. Reports of adjoining regions activity:**

- a. Region C – David Montagne: no report.
- b. Region D – John McFarland: no update; group will meet in February.
- c. Region H – Scott Hall: no report.
- d. Interregional Liaison – Kelley Holcomb:  
Interregional Planning Council met Nov 30<sup>th</sup> – The IPC has been facilitating coordination between regions to develop the Technical Memo report that is due March 5<sup>th</sup>. Next Meeting is Feb 8<sup>th</sup>. All members are encouraged to attend these virtual meetings.  
(Reminder: activities of the Interregional Council can be found on the TWDB website.  
<https://www.twdb.texas.gov/waterplanning/rwp/ipc/index.asp>)

**9. Report from Standing Committees:**

- a. Executive Committee – John Martin: No report.
- b. Finance Committee – Kelley Holcomb: No report. Working on developing a report format to present at future meetings. Backlog on processing pay requests from TWDB is improving – caught up through November.
- c. Bylaws Committee – David Alders: Still working on minor formatting changes voted on last meeting – will distribute soon.
- d. Technical Committee – Scott Hall: No report.
- e. Nominations Committee – Monty Shank: committee did not have a formal meeting. Requested confirmation on vacancies. John confirmed vacancies in Industry, Municipality, Public and Small Business.

**10. Discussion and possible action to approve recommendations from the Nominations Committee for the appointment of voting members of the East Texas Regional Water Planning Group:** no action.

**11. Report from consultant team – including discussion and possible action by RWPG:  
Brigit Buff (Plummer Asso.), Jordan Skipwith (Freese & Nichols) and  
Andy Donnelly & James Beach (Advanced Groundwater Solutions LLC)**

- a. Update on TWDB Adopted Revisions to the Population and Demand Projection in the 2026 Regional Water Plan (2026 RWP) – Brigit Buff  
The purpose of this meeting is to update, review and answer questions about the data and information to be contained in the Technical Memorandum that is due March 5<sup>th</sup>. No action will be taken today – final updates and official approval of the TM by the group will be at the February 15<sup>th</sup> meeting. Brigit reviewed the project schedule. We received approval for final projections for population and demand from TWDB Nov 9<sup>th</sup>. There were some minor adjustments made due to overlap with surrounding regions. Brigit reviewed the data, graphs and calculations for updated water demands which basically results in a projected 12% increase from the previous cycle.
- b. Discussion of updates on Surface Water Supply Projection – Jordan Skipwith  
Two steps are involved in evaluating surface water supply projections: 1) assess the available surface water in the region, 2) then determine the accessibility of that surface water to water users in the area. Surface water is a resource of the State and the TCEQ assigns the water right permits by priority dates. Jordan reviewed the assumptions made developing the WAM (Water Availability Model) and the modifications regional water planning groups are allowed to make. Planning for maximum water availability from reservoirs is determined individually, using projected supply and demands under a repeat of the historic drought-of-record condition, and also taking projected sedimentation into account. Methodology of determining the sedimentation rates, as well as the actual rates (from TWDB) will be included in the TM. Run-of-river water availability is determined in a similar manner. Non-permitted local water supplies are estimated from TWDB surveys. Jordan showed more detailed data related to specific water supply areas in the region.
- c. Discussion of Updates on Groundwater Supply Projection – Andy Donnelly, James Beach  
The different Groundwater Management Areas (GMA) assist the regional water planning groups in developing Models of Available Groundwater (MAG) so that each RWPG can determine supply and water management strategies for groundwater. Andy discussed the MAG and non-MAG for specific aquifers in Region I and presented tables showing the data relevant to this planning cycle. The data shows the available groundwater supply is increasing up in the Gulf Coast area but stayed the same or decreased in all other areas. Andy reported that some of the GMAs received an updated groundwater availability model in the middle of their planning cycle and the groups did not have time to make the adjustments needed. John McFarland pointed out that GMA 11 used the updated model and pumping estimates from the State but time was not an issue in calculating water availability. The consultants for the GMA determined that the resulting impacts were largely due to changes in the model, and they are also using actual monitoring data in the analysis. James Beach explained some of the possible problems with the model updates and that the data may need to be adjusted in future planning cycles. Kelley Holcomb asked if these anomalies in the model will be noted in our report and James reported that it should be. Andy discussed strategies for water management in the counties where the MAG availability declined. We still need to determine how to allocate the decreases in water supply to each of the individual WUGs.



- d. Discussion of Draft Water Needs and Updates on Demand Allocations – Brigit  
Brigit went through the checklist for basic water planning - water demands minus water supply equals water needs or surplus. We discussed and determined demand projections in previous meetings and discussed the data to determine existing supply here today. We are in the process of adjusting the allocation of supply in each WUG to determine the need within the region. We will then determine which water management strategies are most appropriate to meet those water needs. The reports and data for supply, demands, needs and water management strategies in Region I will be submitted to the TWDB in the TM.
- e. Discussion of Conservation and Reuse Methodology – Brigit  
The State requires RWPGs to consider conservation and reuse as a water management strategy. We are in the process of collecting the strategies used for conservation from each of the WUGs in our region. The users should be updating their conservation plans with TCEQ by May 1. Brigit reviewed strategies in the previous 2021 plan, which did not include reuse in our region. We will be studying the viability of reuse as a possible management strategy in some areas in the region and whether or not it should be incorporated in the current plan.
- f. Status update on Infeasible Water Strategies – Brigit  
We do not anticipate having any infeasible water strategies in the 2026 plan.
- g. Status Update on the Hydrological Variance Request for Surface Water Supplies – Brigit  
We have received approval from TWDB for our variance requests as discussed during our October meeting.

Chapters 1 & 2 have been drafted and will be sent out to members soon for review.

## **12. Reports from other state agencies, as necessary:**

- a. Texas Water Development Board – Lann Bookout  
The Texas Water Fund was passed the last legislative session and TWDB is seeking public input. Dates for workshops concerning financial applications are available on the website. The state is busy processing loan applications for clean water and drinking water. Water use surveys from all water users in the state are due March 4<sup>th</sup>.
- b. Texas Department of Parks & Wildlife – Stephen Lange  
Introduced Daniel Price, the new Pineywoods Ecosystem Project Leader who is located in Nacogdoches. Proposition 14 passed and TSPW received one billion dollars Jan 1<sup>st</sup> to be held and earn interest to provide approximately 20 million dollars per year for the acquisition of property and development of new parks throughout the state. TDPW also received funding for acquisition of wildlife management and demonstration areas. The agency has funds available from the Farm Bill for water quality/quantity improvements for individual property owners. Explained the process for managing and encouraging prescribed burning.
- c. Texas Department of Agriculture – not present; no report.
- d. Texas Soil and Water Conservation Board – not present; no report.



e. Groundwater Management Areas –

John McFarland (GMA 11) – GMA 11 is planning to meet in April in Nacogdoches. Region I members will be notified and are invited to attend.

John Martin (GMA 14) – GMA 14 has very active participation in meetings. They are working on a request for possible adjustments to the new model developed and adopted by the TWDB for the Upper Gulf Coast Area. Next meeting is Feb 29<sup>th</sup> in Conroe.


**13. General Discussion** – John requested that all members should have taken PIA and OPA trainings and several still need to submit their certificates to Cheryl as soon as possible. He also requested that everyone check the contact information listed in the draft directory on the front table and add their cell phone, if possible, for last minute text communications.

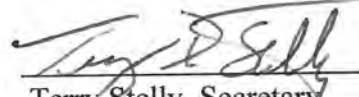
**14. Set Next Meeting Dates** –

Next Meeting is **Thursday, February 15<sup>th</sup>** to vote on final approval of the Technical Memorandum. Brigit emphasized the importance of attendance and having a quorum for this meeting. She reviewed a short list of the information already discussed and the three new items to be presented in this February meeting before taking action to approve the TM.

**15.** Adjourned at 12:20 pm.

APPROVED THIS February 15, 2024

  
\_\_\_\_\_  
John Martin, Chair  
ETRWPG – Region I

ATTEST:   
\_\_\_\_\_  
Terry Stelly, Secretary



**15 February 2024 • 10:00 AM**  
**Nacogdoches Recreation Center**  
**1112 North Street**  
**Nacogdoches, TX 75961**  
**AGENDA**

**Meeting Details and Documents can be found at: <https://www.etexwaterplan.org/meetings/>**  
**Remote Meeting Connection Information:**

Join via Web Browser: <https://www.microsoft.com/microsoft-teams/join-a-meeting>  
Meeting ID – 214 859 915 057  
Passcode - DfHxb7  
[Click here to join the meeting](#)

1. Call to Order
2. Invocation & Pledge of Allegiance
3. Notice of Meeting
4. Roll Call/Determination of Quorum
5. Public Comments
6. Consideration and Approval of the minutes of the January 10, 2024 meeting
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8. Reports of Adjoining Regions' Activity:
  - a. Region C – David Montagne
  - b. Region D – John McFarland
  - c. Region H – Scott Hall
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9. Reports from Standing Committees:
  - a. Executive Committee – John Martin
  - b. Finance Committee – Kelley Holcomb
  - c. Bylaws Committee – David Alders
  - d. Technical Committee – Scott Hall
  - e. Nominations Committee – Monty Shank
10. Discussion and possible action to approve recommendations from the Nominations Committee for the appointment of voting members to the East Texas Regional Water Planning Group.
11. Report from Consultant Team with Discussion and Possible Action by Regional Water Planning Group:
  - a. Overview of the Technical Memorandum Results and Authorization to Submit – Brigit Buff
    - i. Discussion of Results of Demand Allocations and Water Needs – Brigit Buff and Jordan Skipwith
    - ii. Discussion, Receive Comment, and Consider Action on the results of the Infeasible Water Management Strategies Analysis – Brigit Buff



- iii. Discussion and Consider Action on Proposed List of Potentially Feasible Water Management Strategies – Brigit Buff
  - iv. Overview of Technical Memorandum Components – Brigit Buff
  - v. Discussion, Receive Comment, and Consider Action on Draft Technical Memorandum to Authorize Technical Consultants to Address Any Updates and Submit to the TWDB by March 4, 2024 – Brigit Buff
  - b. Discussion, Receive Comments, and Consider Action on the Region-Specific Task 5B Scope of Work Notice to Proceed – Brigit Buff
12. Reports from other state agencies, as necessary:
- a. Texas Water Development Board – Lann Bookout
  - b. Texas Department of Parks & Wildlife – Stephen Lange
  - c. Texas Department of Agriculture – Manuel Martinez
  - d. Texas Soil and Water Conservation Board – Trey Watson
  - e. Groundwater Management Areas – John Martin/John McFarland
13. General Discussion
14. Set Next Meeting Date – Date TBD
15. Adjourn

Comments from members and the public will be accepted by the Planning Group as listed in the agenda items above. For questions, requests, or additional information outside of the general meeting, please visit the Planning Group website, <https://www.etexwaterplan.org/>, or contact the Planning Group Administrative Contact:

c/o City of Nacogdoches  
PO Box 635030  
Nacogdoches, Texas 75963-3030  
Attn: Cheryl Bartlett  
Region I Administrative Contact  
936-559-2528  
[regioniwater@gmail.com](mailto:regioniwater@gmail.com)



**15 February 2024 • 10:00 AM**

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**Executive Committee** – No Meeting

**Nominations Committee** – Meeting, 9:15 AM

1. Consider list of nomination recommendations for open positions

**By-Laws Committee** – No Meeting

**Finance Committee** – Meeting, 9:15 AM

1. Discuss status of TWDB funding, consultant expenditures, funding from the counties


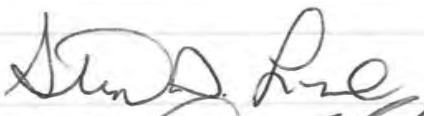



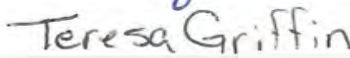
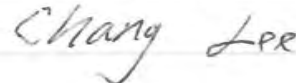
**Technical Committee** – No Meeting

# Region I Water User Group Meeting, February 15, 2024

Sign -in	Name	Organization	Phone	Email
<b>VOTING MEMBERS</b>		<i>Please check your contact information</i>		
	Alders, David	Agriculture	936-569-1284	<a href="mailto:alders.david@gmail.com">alders.david@gmail.com</a>
	X Davis, Chris	Counties	903-683-2324	<a href="mailto:cojudge@cocherookee.org">cojudge@cocherookee.org</a>
virtual	Dietz, Kate	Municipalities	903-330-1421	<a href="mailto:kdietz@tylertexas.com">kdietz@tylertexas.com</a>
	X Gorsich, David	Industries	409-239-4514	<a href="mailto:david.m.gorsich@exxonmobil.com">david.m.gorsich@exxonmobil.com</a>
	Hall, Scott	River Authorities	409-892-4011	<a href="mailto:scott.hall@lnva.org">scott.hall@lnva.org</a>
	Holcomb, Kelley	River Authorities	936-633-7543	<a href="mailto:kholcomb@anra.org">kholcomb@anra.org</a>
	Jackson, Fred L.	Counties	409-835-8466	<a href="mailto:fredjackson@jefco.tx.us">fredjackson@jefco.tx.us</a> <del><a href="mailto:jacksonf@co.jefferson.tx.us">jacksonf@co.jefferson.tx.us</a></del>
	Martin, John	GMA-14	409-383-0799	<a href="mailto:jmartin@setgcd.org">jmartin@setgcd.org</a>
	McBroom, Matthew	Environmental	936-468-2313	<a href="mailto:mcbroommatth@sfasu.edu">mcbroommatth@sfasu.edu</a>
	McFarland, John	GMA-11	936-568-9292	<a href="mailto:jmcfarland@pgcd.org">jmcfarland@pgcd.org</a>
	Mettauer, Matthew	Agriculture	936-598-9400	<a href="mailto:matthew@mettauerlaw.com">matthew@mettauerlaw.com</a>
Virtual	Montagne, David	River Authorities	409-746-2192	<a href="mailto:dmontagne@sratx.org">dmontagne@sratx.org</a>
	Shank, Monty	River Authorities	903-876-2237	<a href="mailto:mdsunra@dctexas.net">mdsunra@dctexas.net</a>
	X Snyder, Mike	Electric Power	409-981-2114	<a href="mailto:msnyder@entergy.com">msnyder@entergy.com</a>
	X Starr, Robb	Water Utilities	409-755-1559	<a href="mailto:robbs@lumbertonmud.com">robbs@lumbertonmud.com</a>
	Stelly, Terry	Public	409-729-0268	<a href="mailto:TerrySsmxd@Aol.com">TerrySsmxd@Aol.com</a>
	X Whitworth, Emily	Water District	903-330-1220	<a href="mailto:Ewhitowrth@yahoo.com">Ewhitowrth@yahoo.com</a>
	Wiesinger, Christopher	Small Business	214-683-0567 cell	<a href="mailto:cwiesinger@gmail.com">cwiesinger@gmail.com</a>



## Region I Water User Group Meeting, February 15, 2024

<i>Sign -in</i>	Name	Organization	Phone	Email
<b>NON VOTING MEMBERS / GUESTS</b>				
	Bookout, Lann	TWDB	512-936-9439	<a href="mailto:lann.bookout@twdb.texas.gov">lann.bookout@twdb.texas.gov</a>
	Martinez, Manuel	Tx Dept of Agriculture	713-677-9814	<a href="mailto:manuel.martinez@texasagriculture.gov">manuel.martinez@texasagriculture.gov</a>
	Watson, Trey	Tx State Soil & Water Conserv Bd		<a href="mailto:twatson@tsswcb.texas.gov">twatson@tsswcb.texas.gov</a>
	Lange, Stephen	TPWD	936-569-8547	<a href="mailto:stephen.lange@tpwd.texas.gov">stephen.lange@tpwd.texas.gov</a>
	Buff, Brigit, PE	Plummer	512-687-2185	<a href="mailto:csyvarth@plummer.com">csyvarth@plummer.com</a>
	McCann, Cody	Plummer	817-806-1776	<a href="mailto:cmccann@plummer.com">cmccann@plummer.com</a>
	Skipwith, Jordan	Freese & Nichols		<a href="mailto:jordan.skipwith@freese.com">jordan.skipwith@freese.com</a>
	?	TCEQ		
	Bartlett, Cheryl	City of Nacogdoches	936-554-7839	<a href="mailto:regioniwater@gmail.com">regioniwater@gmail.com</a>
		Panda GCD		<a href="mailto:tgriffin@pcgcd.org">tgriffin@pcgcd.org</a>
		DWU		<a href="mailto:chang.lee@dallas.gov">chang.lee@dallas.gov</a>

**MINUTES OF THE  
REGION I - EAST TEXAS REGIONAL WATER PLANNING GROUP MEETING  
Thursday, February 15, 2024 – 10:00 A.M.**

1. **Call to Order** – Chairman John Martin called the meeting to order at 10:03 A.M.
2. **Invocation/Pledge** – David Alders led the invocation. John Martin led the Pledge.
3. **Notice of Meeting** – Notice was sent to Voting Members and posted as required.
4. **Roll Call/Determination of Quorum** – The roll was called by Cheryl Bartlett and quorum was determined as follows:

**Voting Members Present: (14 of 22)**

David Alders - Agriculture  
Kate Dietz – Municipality (*Virtual*)  
David Gorsich – Industry (*Virtual*)  
Scott Hall – River Authority  
Kelley Holcomb – River Authority  
Fred Jackson – Counties  
John Martin – GMA-14  
Matthew McBroom - Environmental  
John McFarland – GMA-11  
Matthew Mettaufer - Agriculture  
Monty Shank – River Authority  
Mike Snyder – Electric Power  
Terry D. Stelly – Public  
Christopher Wiesinger – Small Business

**Voting Members Absent: (4)**

Chris Davis - Counties  
David Montagne – River Authority  
Rob Starr – Water Utilities  
Emily Whitworth – Water District

**Voting Member Category Vacancies: (4)**

Municipality  
Small Business  
Public  
Industry

**Other Attendees**

**Agencies:**

Lann Bookout - Tx Water Development Board  
Teresa Griffin – Panola County GCD  
Stephen Lange – Tx Parks & Wildlife  
Chang Lee, PE – City of Dallas

**Staff and Consultants:**

Cheryl Bartlett - City of Nacogdoches  
Brigit Buff, PE – Plummer Asso.  
Cody McCann – Plummer Asso. (*Virtual*)  
Jordan Skipwith – Freese & Nichols

**5. Public Comments:** None

**6. Consideration and Approval of the minutes of the January 10, 2024 meeting**

*Monty Shank made a motion to approve the minutes of the January 10, 2024 meeting as presented, 2<sup>nd</sup> by Fred Jackson, passed unanimously.*

**7. Report from City of Nacogdoches: Cheryl Bartlett**

No updates to report.

**8. Reports of adjoining regions activity:**

- a. Region C – David Montagne: not present, no report.
- b. Region D – John McFarland: no update; group will meet next Wednesday in Pittsburg
- c. Region H – Scott Hall: no report.
- d. Interregional Liaison – Kelley Holcomb:  
Interregional Planning Council met Feb. 8<sup>th</sup> – The IPC approved the plan that goes to the Legislature. The document is being finalized and should be sent out to all members soon. Primary discussion involved getting the public engaged.  
(Reminder: activities of the Interregional Council can be found on the TWDB website.  
<https://www.twdb.texas.gov/waterplanning/rwp/ipc/index.asp>)

**9. Report from Standing Committees:**

- a. Executive Committee – John Martin: No report.
- b. Finance Committee – Kelley Holcomb: Had a short meeting today. Working on developing a report format to present at future meetings. Finances are in good shape. Continue to work on a backlog of Plummer invoices. Invoices to counties for administrative support will go out soon.
- c. Bylaws Committee – David Alders: Minor formatting changes to the revision approved at the October 4<sup>th</sup> meeting have been made. A few possible conflicts between articles were discovered in the updating process and a few additional minor changes may be addressed at the next meeting.
- d. Technical Committee – Scott Hall: Committee did not meet. Scott pointed out that the consultant report presented at the last meeting contained a significant change in the reservoirs in the Neches Basin with a reduction in yield for WAM due to evaporation. The Technical Committee is questioning the numbers and will be investigating the data. Discussion was held about the timing of getting new data for this report.
- e. Nominations Committee – Monty Shank: committee met today. Confirmed that we have vacancies in Industry, Municipality, Public and Small Business. Committee agreed to recommend the nomination of Jenny Sanders with the Texas Longleaf Alliance to represent the Public.

**10. Discussion and possible action to approve recommendations from the Nominations Committee for the appointment of voting members of the East Texas Regional Water Planning Group:**

*Monte made a motion to nominate Jenny Sanders with the Texas Longleaf Alliance to fill the vacancy in the Public category. 2<sup>nd</sup> by Matthew McBroom, passed unanimously with one abstention (Kelley Holcomb).*

**11. Report from consultant team – including discussion and possible action by RWPG:  
Brigit Buff (Plummer Asso.), Jordan Skipwith (Freese & Nichols)**

a. The primary goal of this meeting is to briefly review and discuss the material contained in the Technical Memorandum and discuss possible action by the Planning Group to authorize submission of the report to the TWDB by the March 4<sup>th</sup> deadline. Planning Group approval at this meeting and a 2-week public comment period are required before that submission. Brigit reviewed the remaining schedule after March – basically we will need to complete the initial plan within about one year (March 2025) and the consultant team will need authorization from the Planning Group to begin work on those tasks.

1. Demand Allocations and Water Needs – (as discussed in previous meetings, especially Jan. 10<sup>th</sup>) Allocations that cannot be met by Supply are considered Needs. Allocations that exceed Supply are called Surplus. A summary of the data used for allocations, supply, needs and surplus in Region I and strategies to analyze was presented. We are primarily concerned with the methods and types of data gathered for analysis.
2. Infeasible Water Management Strategies Analysis – none of the potential infeasible water strategies in this Region require further action (no amendments) at this time. John requested Public Comments – there were none. *David Alders made a motion to approve Attachment 8 in the Technical Memorandum to say that there are no Infeasible Water Management Strategies in Region I that require action, 2<sup>nd</sup> by Kelley Holcomb, passed unanimously.*
3. Proposed List of Potentially Feasible Water Management Strategies – A proposed starting list (primarily from the 2016 and 2021 Plans) of these strategies to be included in the Technical Memorandum was presented. *Kate Dietz made a motion to approve the initial list of Potentially Feasible Water Management Strategies, as presented. 2<sup>nd</sup> by Monty Shank, passed unanimously.*
4. Brigit presented an overview of the contents of the Technical Memorandum. We are not approving individual numbers at this time – they will be refined over the next year. The Planning Group will be asked to approve the general content of the Technical Memorandum, and the nine attachments as presented.
  - A. Cover letter
  - B. Attachment 1 – TWDB DB27 Reports  
*Population, demand, source availability, existing water supply, needs/surplus, data comparison to 2021 RWP, source data comparison to 2021 RWP*



C. Attachment 2 – Identification of Feasible Water Management Strategies  
*Process used to identify potentially feasible WMSs to date and list of potentially feasible WMSs (approved in 11(a)(3) above)*

D. Attachment 3 – Hydrologic Variance Requests  
*Presented and approved at the October 4, 2023 Meeting*

E. Attachment 4 – Memorandum of WAM Modifications  
*Methodology for calculating the anticipated sedimentation rate and revising the area-capacity curve*

F. Attachment 5 – Hydrologic Models  
*Table of details of hydrologic models used*

G. Attachment 6 – Groundwater Availability  
*Documentation of methodologies for groundwater availability (discussed at the January 10, 2024 meeting)*

H. Attachment 7 – Interregional Coordination  
*Memo summary of Region I's interregional coordination efforts with other regions and GMAs to date*

I. Attachment 8 – Infeasible Water Management Strategies  
*List of infeasible WMSs and WMSPs from the Region I 2021 RWP (approved in 11(a)(2) above)*

J. Attachment 9 – Digital model input/output data files

5. John requested Public Comments on the Technical Memorandum. There were no comments. Matthew Mettauer asked whether there would be a notation included about the Planning Group's concerns about the population projections from TWDB. John and Brigit said that the group's previous discussions concluded that since water demands from the WUGs would somewhat take care of this, and that the projections were primarily affected only in cycles several decades out, there would be time to make those population corrections in future cycles. Lann (and Brigit) mentioned that a note about population concerns will appear in Chapter 2 of the final plan.

*Matt Mettauer made a motion to approve the draft Technical Memorandum as presented, and authorize the Technical Consultants to address any updates and submit it to the TWDB by March 4, 2024. 2<sup>nd</sup> by David Alders, passed unanimously.*

- b. Specific Task 5B Scope of Work and Notice to Proceed

The Planning Group is required by TWDB to hold a public meeting to approve the Technical Consultant to move forward in analyzing the strategies for this planning cycle with the remaining subtasks in Task 5B for the designated budget already approved. After no public comments,

*Scott Hall made the motion to:*

*-Authorize the City of Nacogdoches to submit a NTP request to TWDB and execute a contract amendment with TWDB for additional scope for Task 5B*

*-Authorize Consultants to address clarification requests from TWDB regarding additional Task 5B scope*

*-Authorize City of Nacogdoches to execute a subsequent contract amendment after receiving contract scope amendment and NTP from TWDB*

*2<sup>nd</sup> by Terry Stelly, passed unanimously*



**12. Reports from other state agencies, as necessary:**

- a. Texas Water Development Board – Lann Bookout  
TWDB is evaluating several SWIFT loan applications from this area. Information on applications to access funding from the Texas Water Fund and the schedule for community workshops to receive public input on the rules, as well as workshops to get information on financial assistance on are available on the website. The TCEQ/TWDB Water Use Surveys for 2023 are due March 4<sup>th</sup>. Information and applications for Agricultural Water Conservation Grants are available on the website through April 3<sup>rd</sup>.
- b. Texas Department of Parks & Wildlife – Stephen Lange  
TDPW has temporarily issued a 3 fish limit (15 inch minimum, 20 inch maximum) for sea trout primarily due to the freeze event in January. Mr. Lange expressed support for Jenny Sanders joining the Board due to her expertise with tree populations. He also briefly discussed current and future TDPW studies concerning water modeling and brush management as a water management strategy. The Centennial Fund and other specific funds have been set aside to replace Fairfield Lake State Park. TDPW is actively looking to acquire property with lake access within 60-100 miles of Fairfield. He also discussed partnerships with properties already set aside for conservation to manage public access near the Pineywoods Mitigation Bank and the Sand Hills property near the Nacogdoches Lake watershed which may involve a partnership with SFA State University for environmental studies.
- c. Texas Department of Agriculture – not present; no report.
- d. Texas Soil and Water Conservation Board – not present; no report.
- e. Groundwater Management Areas –  
John McFarland (GMA 11) – GMA 11 is planning to meet in April in Nacogdoches. Region I members will be notified and are invited to attend.  
John Martin (GMA 14) – GMA 14 will be meeting Feb 29<sup>th</sup> in Conroe. The group is in the process of developing a resolution to submit to TWDB to request that the GMA be allowed to use an alternate water model.

**13. General Discussion – None**

**14. Set Next Meeting Dates –**

**Next Meeting is scheduled for September 18<sup>th</sup>, 10:00 am.**

**15. Adjourned at 11:29 pm**

APPROVED THIS

9-18-24



John Martin, Chair  
ETRWPG – Region I

ATTEST:



Terry Stelly, Secretary



**18 September 2024 • 10:00 AM**  
**Nacogdoches Recreation Center**  
**1112 North Street**  
**Nacogdoches, TX 75961**  
**AGENDA**

**Meeting Details and Documents can be found at: <https://www.etexwaterplan.org/meetings/>**  
**Remote Meeting Connection Information:**

Join via Web Browser: <https://www.microsoft.com/microsoft-teams/join-a-meeting>  
Meeting ID: 252 312 887 206  
Passcode: cZsXLj

**[Join the meeting now](#)**

1. Call to Order
2. Invocation & Pledge of Allegiance
3. Notice of Meeting
4. Roll Call/Determination of Quorum
5. Public Comments
6. Consideration and Approval of the minutes of the February 15, 2024 meeting
7. Report from City of Nacogdoches – Cheryl Bartlett
8. Reports of Adjoining Regions' Activity:
  - a. Region C – David Montagne
  - b. Region D – John McFarland
  - c. Region H – Scott Hall
  - d. Interregional Liaison – Kelley Holcomb
9. Reports from Standing Committees:
  - a. Executive Committee – John Martin
  - b. Finance Committee – Kelley Holcomb
  - c. Bylaws Committee – David Alders
  - d. Technical Committee – Scott Hall
  - e. Nominations Committee – Monty Shank
10. Discussion and possible action to approve recommendations from the Nominations Committee for the appointment of voting members to the East Texas Regional Water Planning Group.
11. Discussion and possible action to approve Financial Statement and Budget.
12. Discussion and possible action to solicit additional members for the Bylaws Committee.
13. Discussion and consideration for approval of updates/amendments to the East Texas Regional WPG Bylaws.



14. Discussion and potential approval of the additional Task 5B scope of work and Notice To Proceed for Plummer.
15. Report from Consultant Team with Discussion and Possible Action by Regional Water Planning Group:
  - a. Review of 6<sup>th</sup> Cycle Water Planning Schedule
  - b. Review of Draft Initially Prepared Plan Chapters:
    - i. Chapter 1: Description of the Regional Water Planning Area
    - ii. Chapter 2: Projected Population and Water Demands
    - iii. Chapter 3: Evaluation of Current Water Supplies in the Region
  - c. Updates on Water Needs (Task 4)
  - d. Updates on Water Management Strategies (Task 5B)
  - e. Updates on Water Conservation, Drought Management, and Reuse in Region I (Task 5C and 7)
  - f. Updates on Unique Stream Segments, Unique Reservoir Sites, and Legislative Recommendations (Task 8)
16. Reports from other state agencies, as necessary:
  - a. Texas Water Development Board – Lann Bookout
  - b. Texas Department of Parks & Wildlife – Stephen Lange
  - c. Texas Department of Agriculture – Manuel Martinez
  - d. Texas Soil and Water Conservation Board – Trey Watson
  - e. Groundwater Management Areas – John Martin/John McFarland
17. General Discussion
18. Set Next Meeting Date – Date TBD
19. Adjourn

Comments from members and the public will be accepted by the Planning Group as listed in the agenda items above. For questions, requests, or additional information outside of the general meeting, please visit the Planning Group website, <https://www.etexwaterplan.org/>, or contact the Planning Group Administrative Contact:

c/o City of Nacogdoches  
PO Box 635030  
Nacogdoches, Texas 75963-3030  
Attn: Cheryl Bartlett  
Region I Administrative Contact  
936-559-2528  
[regioniwater@gmail.com](mailto:regioniwater@gmail.com)



**18 September 2024 • 10:00 AM**

**Nacogdoches Recreation Center**

**1112 North Street**

**Nacogdoches, TX 75961**

**AGENDA**

The Region I East Texas Regional Water Planning Group has an Executive Committee and four additional standing committees. These committees function under the direction of the Region I East Texas Regional Water Planning Group as defined in the approved By-Laws. Committee meetings are held as needed. These Committees and their meeting times and agenda items are as follows:

**Executive Committee** – No Meeting

**Nominations Committee** – Meeting, 9:15 AM

1. Consider list of nomination recommendations for open positions.

**By-Laws Committee** – Meeting, 9:15 AM

1. Review proposed updates to By-Laws to be voted on by Members.


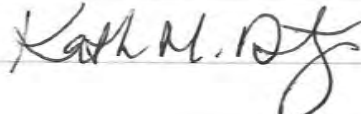
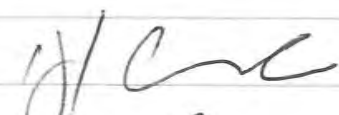
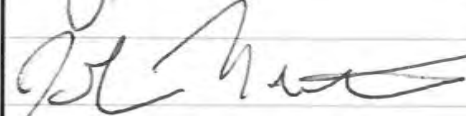
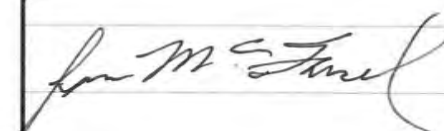

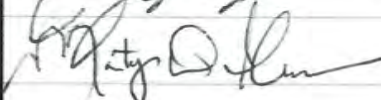
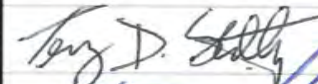


**Finance Committee** – Meeting, 9:15 AM

1. Discuss status of TWDB funding, consultant expenditures, funding from the counties.

**Technical Committee** – No Meeting






## Region I Water User Group Meeting, September 18, 2024

Sign -in	Name	Organization	Phone	Email
<b>VOTING MEMBERS</b>				<i>Please check your contact information</i>
	Alders, David	Agriculture	936-569-1284	<a href="mailto:alders.david@gmail.com">alders.david@gmail.com</a>
	<input checked="" type="checkbox"/> Davis, Chris	Counties	903-683-2324	<a href="mailto:cojudge@cocherokee.org">cojudge@cocherokee.org</a>
	Dietz, Kate, PE	Municipalities	903-330-1431	<a href="mailto:kdietz@tylertexas.com">kdietz@tylertexas.com</a>
	<input type="checkbox"/> Gorsich, David	Industries	409-239-4514	<a href="mailto:david.m.gorsich@exxonmobil.com">david.m.gorsich@exxonmobil.com</a>
	<input checked="" type="checkbox"/> Hall, Scott	River Authorities	409-892-4011	<a href="mailto:scott.hall@lnva.org">scott.hall@lnva.org</a>
	Holcomb, Kelley	River Authorities	936-633-7543	<a href="mailto:kholcomb@anra.org">kholcomb@anra.org</a>
	<input checked="" type="checkbox"/> Jackson, Fred L.	Counties	409-835-8466	<a href="mailto:fjackson@co.jefferson.tx.us">fjackson@co.jefferson.tx.us</a>
	Martin, John	GMA-14	409-383-0799	<a href="mailto:jmartin@setgcd.org">jmartin@setgcd.org</a>
	<input type="checkbox"/> McBroom, Matthew	Environmental	936-468-2313	<a href="mailto:mcbroommatth@sfasu.edu">mcbroommatth@sfasu.edu</a>
	McFarland, John	GMA-11	936-568-9292	<a href="mailto:jmcfarland@pgcd.org">jmcfarland@pgcd.org</a>
	<input type="checkbox"/> Mettauer, Matthew	Agriculture	936-598-9400	<a href="mailto:matthew@mettauerlaw.com">matthew@mettauerlaw.com</a>
	<input checked="" type="checkbox"/> East, Jamie (alternate) Montagne, David	River Authorities	409-746-2192	<a href="mailto:dmontagne@sratx.org">dmontagne@sratx.org</a>
	Sanders, Jenny	Public	936-225-2175	<a href="mailto:jennyreneeshanders@gmail.com">jennyreneeshanders@gmail.com</a>
	Shank, Monty	River Authorities	903-876-2237	<a href="mailto:mdsunra@dctexas.net">mdsunra@dctexas.net</a>
	<input checked="" type="checkbox"/> Snyder, Mike	Electric Power	409-981-2114	<a href="mailto:msnyder@entergy.com">msnyder@entergy.com</a>
	<input checked="" type="checkbox"/> Starr, Robb	Water Utilities	409-755-1559	<a href="mailto:robbs@lumbertonmud.com">robbs@lumbertonmud.com</a>
	Stelly, Terry	Public	409-729-0268	<a href="mailto:TerrySsmxd@Aol.com">TerrySsmxd@Aol.com</a>
	Miley, David (alternate)	Water District	903-330-1220	<a href="mailto:Ewhitowrth@yahoo.com">Ewhitowrth@yahoo.com</a>
	Wiesinger, Christopher	Small Business	214-683-0567 cell	<a href="mailto:cwiesinger@gmail.com">cwiesinger@gmail.com</a>



## Region I Water User Group Meeting, September 18, 2024

Sign -in	Name	Organization	Phone	Email
<b>NON VOTING MEMBERS / GUESTS</b>				
	Bookout, Lann	TWDB	512-936-9439	<a href="mailto:lann.bookout@twdb.texas.gov">lann.bookout@twdb.texas.gov</a>
	Martinez, Manuel	Tx Dept of Agriculture	713-677-9814	<a href="mailto:manuel.martinez@texasagriculture.gov">manuel.martinez@texasagriculture.gov</a>
	Watson, Trey	Tx State Soil & Water Conserv Bd		<a href="mailto:twatson@tsswcb.texas.gov">twatson@tsswcb.texas.gov</a>
	Shipes, Clay	TPWD	936-569-8547	<a href="mailto:stephen.lange@tpwd.texas.gov">stephen.lange@tpwd.texas.gov</a>
	Buff, Brigit, PE	Plummer	972-996-5681	<a href="mailto:bbuff@plummer.com">bbuff@plummer.com</a>
✓	Zhang, Qiwen, PE	Plummer	972-996-5707	<a href="mailto:qiwenzhang@plummer.com">qiwenzhang@plummer.com</a>
✓	Skipwith, Jordan, PE	Freese & Nichols		<a href="mailto:jordan.skipwith@freese.com">jordan.skipwith@freese.com</a>
	?	TCEQ		
	Bartlett, Cheryl	City of Nacogdoches	936-554-7839	<a href="mailto:regioniwater@gmail.com">regioniwater@gmail.com</a>
	Teresa Griffin	PCGED		<a href="mailto:tgriffin@pcged.org">tgriffin@pcged.org</a>
	David Miley	RCGED		<a href="mailto:david@rcged.org">david@rcged.org</a>

**MINUTES OF THE  
REGION I - EAST TEXAS REGIONAL WATER PLANNING GROUP MEETING  
Wednesday, September 18, 2024 – 10:00 A.M.**

1. **Call to Order** – Chairman John Martin called the meeting to order at 10:04 A.M.
2. **Invocation/Pledge** – David Alders led the invocation and the Pledge.
3. **Notice of Meeting** – Notice was sent to Voting Members and posted as required.
4. **Roll Call/Determination of Quorum** – The roll was called by Cheryl Bartlett and quorum was determined as follows:

**Voting Members Present: (16 of 22)**

David Alders - Agriculture  
Chris Davis – Counties (*Virtual*)  
Kate Dietz – Municipality  
Scott Hall – River Authority (*Virtual*)  
Kelley Holcomb – River Authority  
Fred Jackson – Counties (*Virtual*)  
John Martin – GMA-14  
John McFarland – GMA-11  
David Montagne (Alternate Jamie East) – River Authority (*Virtual*)  
Jenny Sanders – Public  
Monty Shank – River Authority  
Mike Snyder – Electric Power (*Virtual*)  
Rob Starr – Water Utilities (*Virtual*)  
Terry D. Stelly – Public  
Emily Whitworth (Alternate David Miley) – Water District  
Christopher Wiesinger – Small Business

**Voting Members Absent: (3)**

David Gorsich – Industry  
Matthew McBroom - Environmental  
Matthew Mettauer - Agriculture

**Voting Member Category Vacancies: (3)**

Municipality  
Small Business  
Industry

**Other Attendees**

**Agencies:**

Lann Bookout – Texas Water Development Board  
Scott Galloway – Texas Water Development Board (*Virtual*)  
Teresa Griffin – Panola County GCD  
Clay Shipps – Texas Parks & Wildlife

**Staff and Consultants:**

Cheryl Bartlett - City of Nacogdoches  
Brigit Buff, PE – Plummer Asso.  
Qiwen Zhang, PE – Plummer Asso.  
Jordan Skipwith – Freese & Nichols

**5. Public Comments:** None

**6. Consideration and Approval of the minutes of the February 15, 2024 meeting**

*Kelley Holcomb made a motion to approve the minutes of the February 15, 2024 meeting as presented, 2<sup>nd</sup> by Monty Shank, passed unanimously.*

**7. Report from City of Nacogdoches: Cheryl Bartlett**

No updates to report.

**8. Reports of adjoining regions activity:**

- a. Region C – Jamie East; next meeting will be Sept. 30<sup>th</sup>.
- b. Region D – John McFarland: met May 29<sup>th</sup> and are meeting today to review Chapters 2, 3, 4 and part of Chapter 8, as well as inter-regional coordination for the Marvin Nichols Reservoir.
- c. Region H – Scott Hall: no report.
- d. Interregional Liaison – Kelley Holcomb: Interregional Planning Council submitted their report many months ago and have not met since then.

**9. Report from Standing Committees:**

- a. Executive Committee – John Martin: Did not meet - no report.
- b. Finance Committee – Kelley Holcomb: The Committee met this morning and we are continuing to work on a backlog of Plummer invoices. Kelley reviewed the financial statement summaries of the Admin and the Grant accounts. Items to include in the budget were discussed but it has not been completed. Changes in contracts from TWDB for this cycle now allow for some funding for the Administrative body and it is likely that invoicing counties will not be necessary for this cycle. The Committee is not prepared to present a budget at this time due to numerous changes in staff at both the City and at Plummer, as well as the changes in this cycle's contract. We plan to have a budget for the Admin funds ready for the next meeting.
- c. Bylaws Committee – David Alders: Revised version will be presented – Agenda Item 12.
- d. Technical Committee – Scott Hall: Committee did not meet.
- e. Nominations Committee – Monty Shank: committee met today – refer to Agenda Item 10.

**10. Discussion and possible action to approve recommendations from the Nominations Committee for the appointment of voting members of the East Texas Regional Water Planning Group:**

Monte reported that the committee recommends that the group accept Emily Whitworth's resignation and nominate David Miley (her regular alternate, who would also represent Water Districts) as her replacement. *Motion by Chris Weisinger, 2<sup>nd</sup> by Fred Jackson, passed unanimously.*

John Martin requested that new members, Jenny Sanders and David Miley introduce themselves to the group.

- 11. Discussion and possible action to approve Financial Statement and Budget – no action.**
- 12. Discussion and possible action to solicit additional members for the Bylaws Committee.**  
John asked for volunteers and John McFarland volunteered. *David Alders made a motion to accept John McFarland as a Bylaws Committee member, 2<sup>nd</sup> by Monty Shank, passed unanimously.*
- 13. Discussion and consideration for approval of updates/amendments to the East Texas Regional WPG Bylaws.** David Alders reviewed a few minor changes to clean up some paging errors and to modify the title of Article X. Changes were made to VIII, Section 7 and Article XII, Section 2 to clarify conflicting information concerning Nominations Committee appointments by the Executive Committee. Article X, Section 1 was deleted because of the reference to proxy voting, since alternates are currently used instead of proxies. Article X now refers to the final adoption of the Regional Water Plan and any Amendments which must be passed by a two-third majority of voting members. All other voting decision criteria are addressed in other Articles. *David Alders made a motion to approve the changes as presented, 2<sup>nd</sup> by Monty Shank, passed unanimously.*
- 14. Discussion and potential approval of the additional Task 5B scope of work and Notice to Proceed for Plummer.** Brigit explained that the budget for Task 5B was approved at the last meeting but the scope had not been defined at that time. TWDB has now defined the scope for consultants to work on and needs to be approved by Region I members. *Rob Starr made a motion to approve the scope of work as presented, 2<sup>nd</sup> by Kate Dietz, passed unanimously.*
- 15. Report from consultant team with discussion and possible action by RWPG:**  
**Brigit Buff (Plummer), Qiwen Zhange (Plummer), Jordan Skipwith (Freese & Nichols)**
  - a. Review of 6<sup>th</sup> Cycle Water Planning Schedule – We are getting close to the end of the cycle. Most of the planning and evaluation has been completed and draft chapters are available for review. We are now in the process of combining these chapters and preparing the final report that is due in March, 2025. Brigit is proposing a Technical Committee meeting in the fall to do an initial review of the plan and then a full membership meeting in January to gather any further changes.
  - b. Review of Draft Initially Prepared Plan Chapters
    1. Chapter 1: Description of the Regional Water Planning Area  
This Chapter contains a map of the region, populations, economy, climate of the area, other basic descriptive information of water sources, water user groups and major water providers in the region along with a list of topics comprising a sort of executive summary of other Chapters to follow for the 2026 Plan.
    2. Chapter 2: Projected Population and Water Demands  
This is a summary of the discussions and decisions made in all of the meetings held during the last year. Technical memos have already been voted on after discussions concerning county populations in the area and the current and projected water supply and water needs within the regions. Projections for the next 50 years, methodologies used for data collection and analysis and



summary tables and graphs of the data are included. Items still being revised in this Chapter include: information gathered in coordination efforts between adjoining regions; refining the data analysis on water management strategies and information received from WUGs regarding water sales and usage.

3. Chapter 3: Evaluation of Current Water Suppliers in the Region  
Analysis of water sources, systems and availability in the region using information gathered from WUGs and wholesale water suppliers in the area. Also includes more detailed discussions on current and future projections for groundwater, surface water, and re-use strategies. Consultants are still coordinating with WUGS and major water providers to gather additional information which may require some revisions to this chapter.
- c. Updates on Water Needs (Chapter 4 draft will be sent out for review soon) – This chapter contains an analysis of water supply minus the demands in order to determine water needs in the region. This includes a discussion of supplies that are currently undeveloped that may not be immediately available. The analysis identifies the WUGS that have needs and how they plan to meet them. Some of the WUGS with needs are shared with other regions and will require continued coordination. Several members also mentioned a few additional developments that will require water soon that should be added to the needs list.
- d. Updates on Water Management Strategies (Task 5B – Chapter 5)  
Consultants are currently coordinating with major water providers and water user groups to prepare the information for this Chapter – possibly ready to send out by the end of October. Water users have been slow in responding to coordination efforts. New requirements for this planning cycle include additional outreach to survey rural areas not typically included in these studies. All of this data will need to be reviewed and discussed by the members in either a fall meeting or in a long January meeting.
- e. Updates on Water Conservation, Drought Management, and Reuse in Region I (Tasks 5C and 7) – Qiwen reviewed water conservation goals, strategies and the feasibility of developing a particular strategy for water users and providers in our region. Since we are a water-rich region, the recommendations for water conservation are minimal and are generally either free or low cost. Drought management (Chapter 7) involves evaluation of strategies for water management using data from the drought of record (1950s for the State and also 2010-2012, specifically for Region I). This Chapter includes a new section for this planning cycle to address (1) planning for uncertainty, (2) assessing measures to prepare for a drought worse than the drought of record and (3) potential additional measures for a drought of record.
- f. Updates on Unique Stream Segments, Unique Reservoir Sites, and Legislative Recommendations (Task/Chapter 8)  
In the next few weeks, consultants will be sending out a survey to members for input on the legislative priority recommendations included in the 2021 Plan – changes, additions, etc.



**16. Reports from other state agencies, as necessary:**

- a. Texas Water Development Board – Lann Bookout, Scott Galloway  
Lann – Reminded everyone of data resources by county and region that are available on the TWDB website using the information provided by each Region and other state-wide studies and surveys.  
  
Scott – Reviewed financial assistance available through TWDB, including SWIFT loans and other additional federally funded programs through various federal agencies for new projects as well as improvements to existing infrastructure.
- b. Texas Department of Parks & Wildlife – Clay Shipes, present, but no report.
- c. Texas Department of Agriculture – not present; no report.
- d. Texas Soil and Water Conservation Board – not present; no report.
- e. Groundwater Management Areas –  
John McFarland (GMA 11) – GMA 11 will meet October 23 in Nacogdoches.  
John Martin (GMA 14) – GMA 14 met several times since the last Region I meeting. The group is in the process of searching for a consultant to assist with updating the groundwater availability model; will probably meet in the next few months to select the consultant.

**17. General Discussion – None**

**18. Set Next Meeting Dates – after much discussion:**

**Technical Committee** meeting call – Scott Hall will host **November 20<sup>th</sup>, 10:00 am.**  
Brigit will poll everyone for a January and February meeting date.

19. Adjourned at 12:37 pm

**NOTE: Limited availability of the meeting facility required setting the next meeting dates for January 7 and February 6, 2025**

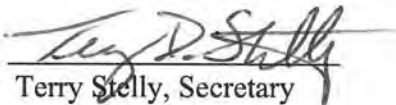
APPROVED THIS

7<sup>th</sup> Day of January



John Martin, Chair  
ETRWPG – Region I

ATTEST:



Terry Stelly, Secretary

**GROUNDWATER MANAGEMENT AREA 14  
JOINT PLANNING COMMITTEE MEETING  
NOTICE OF OPEN MEETING**

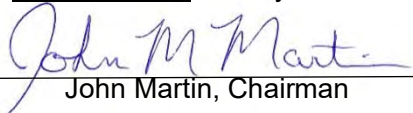
As required by Section 36.108(e), Texas Water Code, a meeting of the **Groundwater Management Area 14 Joint Planning Committee**, comprised of representatives from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 14: Bluebonnet GCD, Brazoria County GCD, Lone Star GCD, Lower Trinity GCD, and Southeast Texas GCD, will be held on **Thursday February 29, 2024 beginning at 10:00 A.M. at the offices of the Lone Star Groundwater Conservation District, located at 655 Conroe Park North, Conroe, TX 77303.**

The items of business to be considered and transacted during the meeting are as follows:

1. Call to order;
2. Confirmation of receipt of posted notices;
3. Welcome and introductions;
4. Public comment;
5. Discussion and possible action to approve minutes of the October 26, 2023 GMA 14 Joint Planning Meeting;
6. Update from Texas Water Development Board (TWDB) and discussion of any related items of interest to GMA 14;
7. Presentation by Lone Star Groundwater Conservation District regarding assessment of water levels in GMA 14;
8. Update from Lone Star Groundwater Conservation District regarding data from the District's Subsidence Study Phase 3;
9. Discussion and possible action regarding MAG Peak Factors including recommendations for Regional Water Planning Group H;
10. Discussion and possible action regarding a resolution formally requesting the use of an alternate/updated groundwater availability model;
11. Discussion and possible action regarding the DFCs and the path forward for GMA 14;
12. Discussion and possible action regarding next meeting date, location, and agenda items;
13. Meeting Adjourned;

Comments concerning any aspect of this meeting should be directed to Mr. John Martin of the Southeast Texas Groundwater Conservation District, P.O. Box 1407, Jasper, TX 75951; [jmartin@setgcd.org](mailto:jmartin@setgcd.org), or (409) 383-1577.

Come to hand and posted on a Bulletin Board in the Courthouse, \_\_\_\_\_ County, Texas, on this, the \_\_\_\_\_ day of February, 2024.

  
\_\_\_\_\_  
John Martin, Chairman  
GMA 14 Planning Group

\_\_\_\_\_ Deputy Clerk

\_\_\_\_\_ County, Texas

*This meeting is also available for viewing via livestream at: <https://bit.ly/LoneStarGCDlive>*

*These public meetings are available to all persons regardless of disability. If you require special assistance to attend the meeting please contact the Southeast Texas Groundwater Conservation District, (409) 383-1577, at least three working days prior to the meeting, so that appropriate arrangements can be made.*



## GMA 14 MEMBER AND INTERLOCAL SIGN IN SHEET

February 29, 2024  
10:00 AM

Member District	District Representative	Date	Signature
Bluebonnet GCD	Zach Holland		<i>Zach Holland</i>
Brazoria County GCD	Beverly Hopkins	2/29	<i>Beverly Hopkins</i>
Lone Star GCD	Sarah Kouba	2/29	<i>Sarah Kouba</i>
Lower Trinity GCD	Gary Ashmore	2-29	<i>Gary Ashmore</i>
Southeast Texas GCD	John Martin	2-29	<i>John Martin</i>
Interlocal Participant	Representative	Date	Signature
Harris-Galveston Subsidence District	<i>Mic... T...a</i>	2/29	<i>Mic... T...a</i>
Fort Bend Subsidence District	Ashley Greuter	2/29	<i>Ashley Greuter</i>
Washington County	*		
Chambers County			

\* Kirk Hannath arrived late



**GROUNDWATER MANAGEMENT AREA 14  
JOINT PLANNING COMMITTEE MEETING  
NOTICE OF OPEN MEETING**


As required by Section 36.108(e), Texas Water Code, a meeting of the **Groundwater Management Area 14 Joint Planning Committee**, comprised of representatives from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 14: Bluebonnet GCD, Brazoria County GCD, Lone Star GCD, Lower Trinity GCD, and Southeast Texas GCD—will be held on **Tuesday May 14, 2024 beginning at 1:00 P.M. at the Barnhill Center, 111 West Main Street, Brenham, TX 77833**

The items of business to be considered and transacted during the meeting are as follows:

1. Call to order;
2. Confirmation of receipt of posted notices;
3. Welcome and introductions;
4. Public comment;
5. Discussion and possible action to approve minutes of the February 29, 2024, GMA 14 Joint Planning Meeting;
6. Update from Texas Water Development Board (TWDB) and discussion of any related items of interest to GMA 14;
7. KT Groundwater/AGS updates regarding identified issues in the CSUB (compaction and subsidence) package of the current Gulf 2023 model, and LSGCD coring study;
8. Update from Zach Holland on the GMA 14 Members' consultants meeting regarding DFC and groundwater availability model update timeline;
9. Discussion and possible action regarding a resolution formally requesting the use of an updated groundwater availability model;
10. Discussion and possible action regarding the path forward for GMA 14 on the development of the current round of Desired Future Conditions (DFCs) including but not limited to the development of the DFCs by way of "member committee", or via the hiring of a GMA 14 consultant and discussion of RFQs for same;
11. Discussion and possible action regarding a minimum number of days documents should be made available to the GMA Members prior to a meeting;
12. Discussion and possible action regarding next meeting date, location, and agenda items;
13. Meeting Adjourned.

Comments concerning any aspect of this meeting should be directed to Mr. John Martin of the Southeast Texas Groundwater Conservation District at [jmartin@setgcd.org](mailto:jmartin@setgcd.org); or (409) 383-1577.

Come to hand and posted on a Bulletin Board in the Courthouse, \_\_\_\_\_ County, Texas, on this, the \_\_\_\_\_ day of \_\_\_\_\_, 2024.

  
\_\_\_\_\_  
John Martin, Chairman  
GMA 14 Planning Group

\_\_\_\_\_ Deputy Clerk

\_\_\_\_\_ County, Texas

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## GMA 14 MEMBER AND INTERLOCAL SIGN IN SHEET

May 14, 2024  
1:00 AM

Member District	District Representative	Date	Signature
Bluebonnet GCD	Zach Holland	<i>5/14/24</i>	<i>Zach Holland</i>
Brazoria County GCD	Beverly Hopkins	<i>5/14/24</i>	<i>BH</i>
Lone Star GCD	Jim Spigener <i>Skolva</i>	<i>5/14/24</i>	<i>Jim Spigener</i>
Lower Trinity GCD	Gary Ashmore	<i>5/14/24</i>	<i>Gary Ashmore</i>
Southeast Texas GCD	John Martin	<i>5-14-24</i>	<i>John Martin</i>
Interlocal Participant	Representative	Date	Signature
Harris-Galveston Subsidence District	Mike Turco	<i>5/14/24</i>	<i>Mike Turco</i>
Fort Bend Subsidence District	Ashley Grueter	<i>5/14/24</i>	<i>Ashley Grueter</i>
Washington County	Kirk Hanath	<i>5.14.24</i>	<i>Kirk Hanath</i>
Chambers County	Gary Nelson		



**GROUNDWATER MANAGEMENT AREA 14  
JOINT PLANNING COMMITTEE MEETING  
NOTICE OF OPEN MEETING**

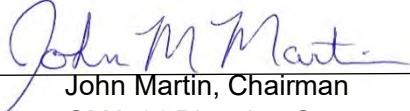
As required by Section 36.108(e), Texas Water Code, a meeting of the **Groundwater Management Area 14 Joint Planning Committee**, comprised of representatives from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 14: Bluebonnet GCD, Brazoria County GCD, Lone Star GCD, Lower Trinity GCD, and Southeast Texas GCD, will be held on **Thursday August 29, 2024 beginning at 11:00 A.M. at the offices of the Lone Star Groundwater Conservation District, located at 655 Conroe Park North, Conroe, TX 77303.**

The items of business to be considered and transacted during the meeting are as follows:

1. Call to order;
2. Confirmation of receipt of posted notices;
3. Welcome and introductions;
4. Public comment;
5. Discussion and possible action to approve minutes of the May 14, 2024 GMA 14 Joint Planning Meeting;
6. Update from Texas Water Development Board (TWDB) and discussion of any related items of interest to GMA 14;
7. Discussion and possible action regarding a centralized GMA14 document repository;
8. Update from Lone Star Groundwater Conservation District regarding progress on the district's coring project and Gulf2023 Model update request;
9. Discussion and possible action regarding the path forward for GMA 14 on the development of the current round of Desired Future Conditions (DFCs) including but not limited to the review and possible approval of request for qualifications (RFQs) developed by the RFQ Committee for the purpose of soliciting a consultant to assist the GMA with preparation and submittal of the DFCs;
10. Discussion and possible action regarding a stakeholder committee / interlocal agreement and participation by the subsidence districts and individual counties within GMA 14;
11. Discussion and possible action regarding next meeting date, location, and agenda items;
12. Meeting Adjourned;

Comments concerning any aspect of this meeting should be directed to Mr. John Martin of the Southeast Texas Groundwater Conservation District, P.O. Box 1407, Jasper, TX 75951; [jmartin@setgcd.org](mailto:jmartin@setgcd.org), or (409) 383-1577.

Come to hand and posted on a Bulletin Board in the Courthouse, \_\_\_\_\_ County, Texas, on this, the \_\_\_\_\_ day of August, 2024.

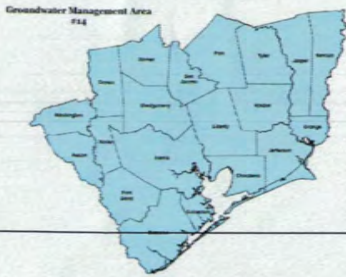
  
\_\_\_\_\_  
John Martin, Chairman  
GMA 14 Planning Group

\_\_\_\_\_ Deputy Clerk

\_\_\_\_\_ County, Texas

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**GROUNDWATER MANAGEMENT AREA  
(GMA 14) JOINT PLANNING MEETING  
SIGN IN SHEET**

August 29, 2024  
11:00 am

Member District	District Representative	Date	Signature
Bluebonnet GCD	Zach Holland		
Brazoria County GCD	Beverly Hopkins	<sup>8/29/24</sup> 8-29-24	<sup>Zach Holland</sup> BH
Lone Star GCD	Sarah Kouba	8/29/24	SK
Lower Trinity GCD	Gary Ashmore	8/29/24	GA
Southeast Texas GCD	John Martin	8-29-24	JM
Interlocal Participant	Representative	Date	Signature
Harris Galveston Subsidence District	Mike Turco	8/29/24	MT
Fort Bend Subsidence District	Ashley Greuter	8/29/24	AG
Washington County	*		
Chambers County			

\* Kirk Hannath Arrived Late



# GROUNDWATER MANAGEMENT AREA 14 JOINT PLANNING COMMITTEE MEETING

## NOTICE OF OPEN MEETING

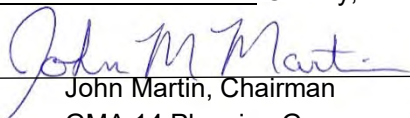
As required by Section 36.108(e), Texas Water Code, a meeting of the **Groundwater Management Area 14 Joint Planning Committee**, comprised of representatives from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 14: Bluebonnet GCD, Brazoria County GCD, Lone Star GCD, Lower Trinity GCD, and Southeast Texas GCD, will be held on **Tuesday November 19, 2024 beginning at 10:00 A.M. at the offices of the Lone Star Groundwater Conservation District, located at 655 Conroe Park North, Conroe, TX 77303.**

The items of business to be considered and transacted during the meeting are as follows:

1. Call to order;
2. Confirmation of receipt of posted notices;
3. Welcome and introductions;
4. Public comment;
5. Discussion and possible action to approve minutes of the May 14, 2024 and August 29, 2024 GMA 14 Joint Planning Meetings;
6. Update from Texas Water Development Board (TWDB) and discussion of any related items of interest to GMA 14;
7. Review, discuss and consider member district management plans as required by Chapter 36.108(c);
8. Update from Lone Star Groundwater Conservation District regarding progress on the district's coring project and Gulf2023 Model update request;
9. Discussion and possible action regarding the path forward for GMA 14 and the development of the Desired Future Conditions (DFCs) including but not limited to the consideration of submitted responses to GMA 14's RFQs for a DFC consultant, or in the absence of receiving any responses to the RFQs, discussion on how to proceed with the development of the of the DFCs for the current round of joint planning;
10. Discussion and possible action regarding next meeting date, location, and agenda items;
11. Meeting Adjourned;

Comments concerning any aspect of this meeting should be directed to Mr. John Martin of the Southeast Texas Groundwater Conservation District, P.O. Box 1407, Jasper, TX 75951; [jmartin@setgcd.org](mailto:jmartin@setgcd.org), or (409) 383-1577.

Come to hand and posted on a Bulletin Board in the Courthouse, \_\_\_\_\_ County, Texas, on this, the \_\_\_\_\_ day of \_\_\_\_\_, 2024.

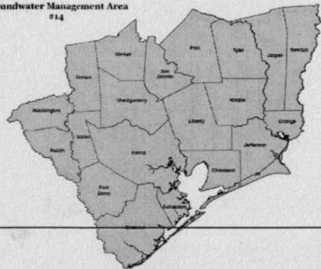
  
\_\_\_\_\_  
John Martin, Chairman  
GMA 14 Planning Group

\_\_\_\_\_  
Deputy Clerk

\_\_\_\_\_  
County, Texas

*This meeting is also available for viewing via livestream at: <https://bit.ly/LoneStarGCDlive>*

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# GROUNDWATER MANAGEMENT AREA (GMA 14) JOINT PLANNING MEETING SIGN IN SHEET

November 19, 2024  
10:00 am

Member District	District Representative	Date	Signature
Bluebonnet GCD	Zach Holland	11/19	
Brazoria County GCD	Beverly Hopkins		
Lone Star GCD	Sarah Kouba	11/19	
Lower Trinity GCD	Gary Ashmore	11/17	
Southeast Texas GCD	John Martin	11/19	
Stakeholder Participation	Representative	Date	Signature
Harris Galveston Subsidence District	Mike Turco	11/19	
Fort Bend Subsidence District	Ashley Greuter		
Washington County			
Chambers County			

# GOAL 4.5

## NATURAL RESOURCE ISSUES AFFECTING THE USE AND AVAILABILITY OF GROUNDWATER OR AFFECTED BY THE USE OF GROUNDWATER

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### Objectives

- 1 The District requires that all water wells used in conjunction with the exploration of hydrocarbons be registered with the District.

### Performance Standard

- 1 Each month the Board will be provided information pertaining to any new water well registered and drilled for the purpose of hydrocarbon exploration and a summary of all these wells will be included in the District's Annual Report.
- 
- 

### OBJECTIVE 1

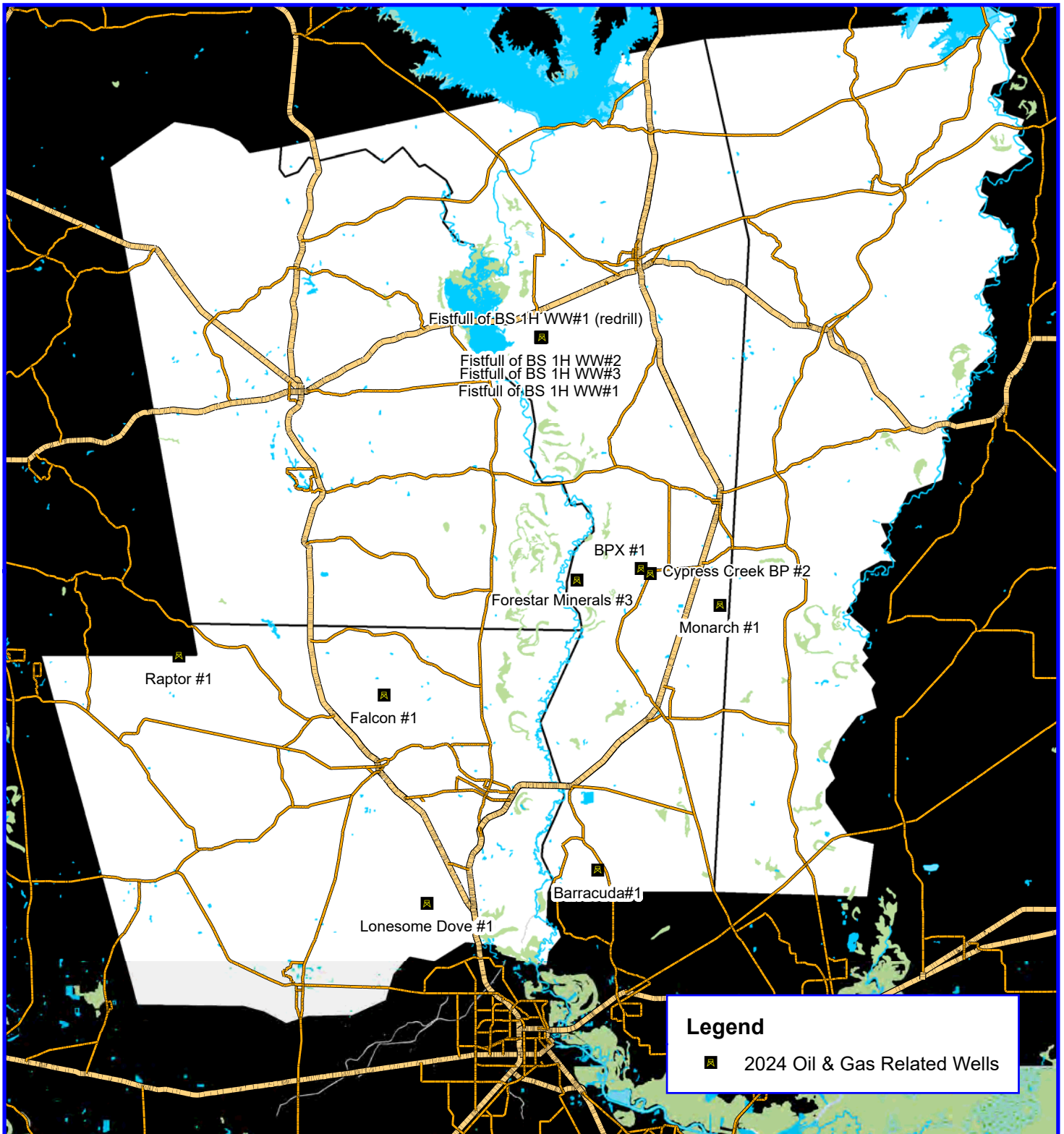
Each month (whether a board meeting is held or not) the Directors are provided with information regarding the water wells registered within the District for the purpose of hydrocarbon exploration (oil and gas well drilling and fracking). Newly registered water wells drilled for the purpose of hydrocarbon exploration are entered into the District's Geographic Information Software (GIS) database, which is ESRI – ArcMap. Each month the Directors are provided with a map showing the locations of the newly registered wells along with a data sheet that includes the well site/lease name, the well owner, the date the well was entered into the District's database, as well as the name of the well driller/water well company. Copies of the monthly maps are included along with a summary map and data for the entire year.

The District received 12 registrations in 2024 for new water wells that were to be used in conjunction with the exploration of hydrocarbons: 3 in Hardin County and 9 in Jasper County. There were no wells registered for use in conjunction with the exploration of hydrocarbons in Tyler or Newton Counties in 2024.

Note: the total number of water wells registered for use in conjunction with exploration of hydrocarbons is not indicative of the total number of new oil/gas wells within the District.

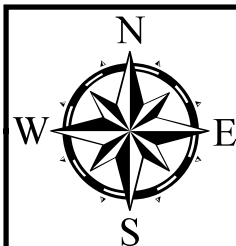


# Hydrocarbon Exploration Related Water Wells - 2024



### Legend

 2024 Oil & Gas Related Wells



0 4.75 9.5 Miles

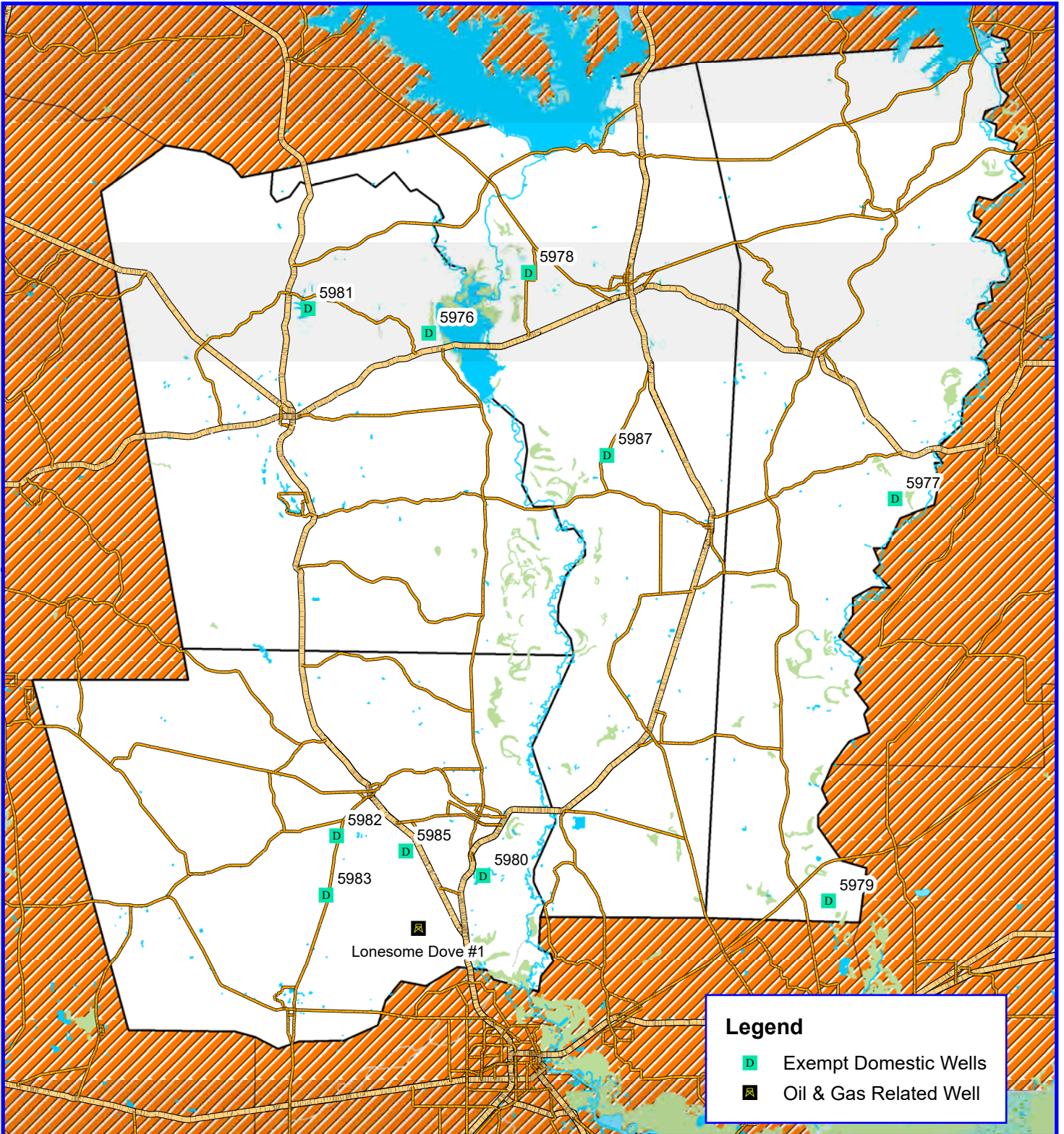
Drafted By:  
John Martin, Southeast Texas GCD

Date  
January 31, 2025

Data Source  
ESRI Street Map USA 2006  
SETGCD ArcView GIS Database



# Registered Wells - January 2024



**Legend**

- Exempt Domestic Wells
- Oil & Gas Related Well



**Drafted By:**  
John Martin, Southeast Texas GCD

**Date:**  
February 5, 2024

**Data Source:**  
ESRI Street Map USA 2006  
SETGCD ArcView GIS Database

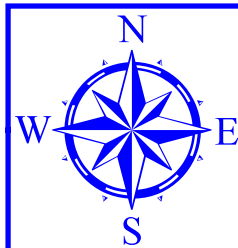
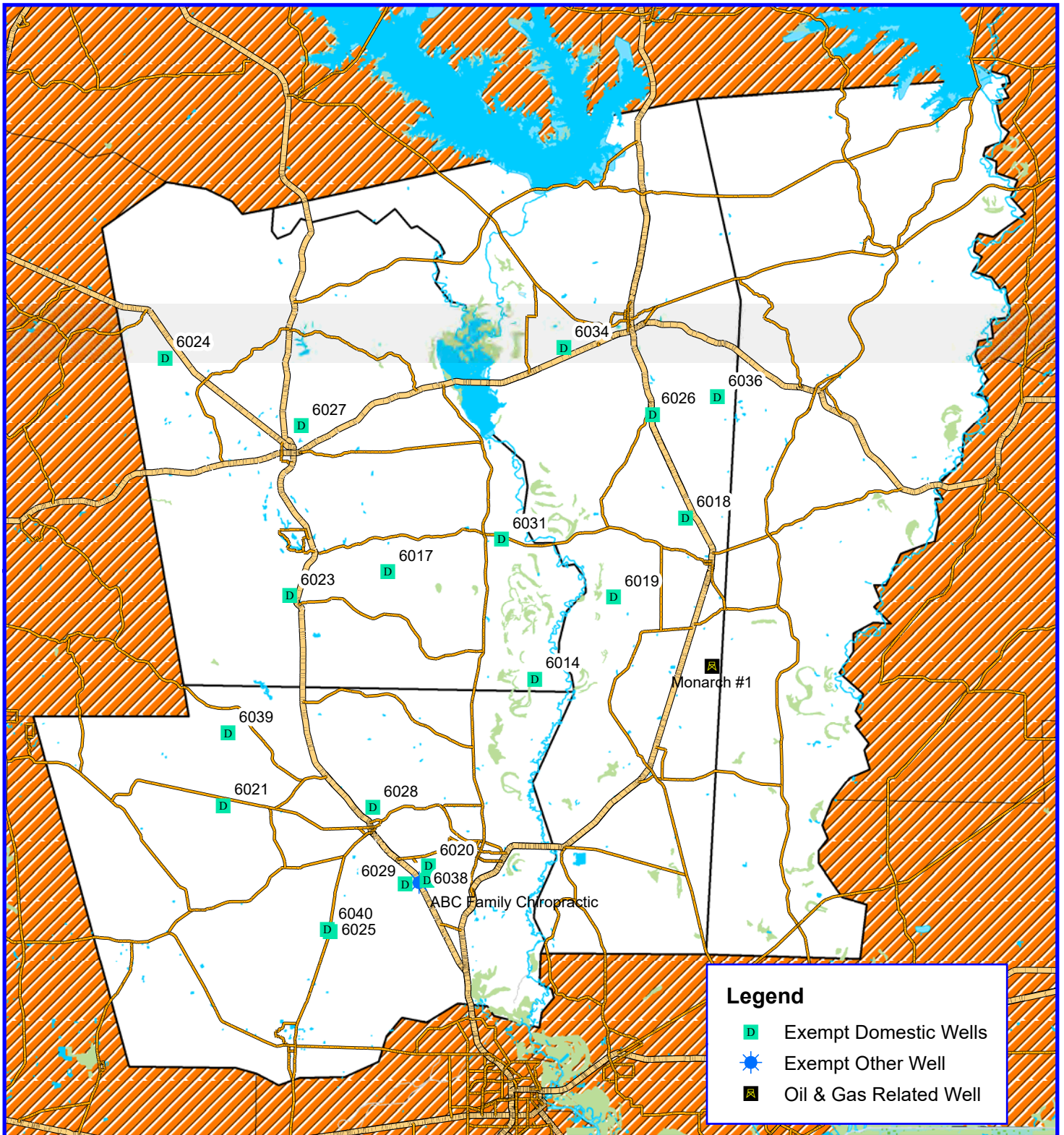


# Oil & Gas Related Wells - January 2024

WELL NAME	FRACKED?	WELL OWNER	DRILLING CO.	DRILLER NAME	Date_Entered
Lonesome Dove #1	N	Whitehead Resources	George Bellenger	Mitch Turk	01/27/2024



# Registered Wells - March 2024



Drafted By:  
John Martin, Southeast Texas GCD

Date  
April 1, 2024

Data Source  
ESRI Street Map USA 2006  
SETGCD ArcView GIS Database

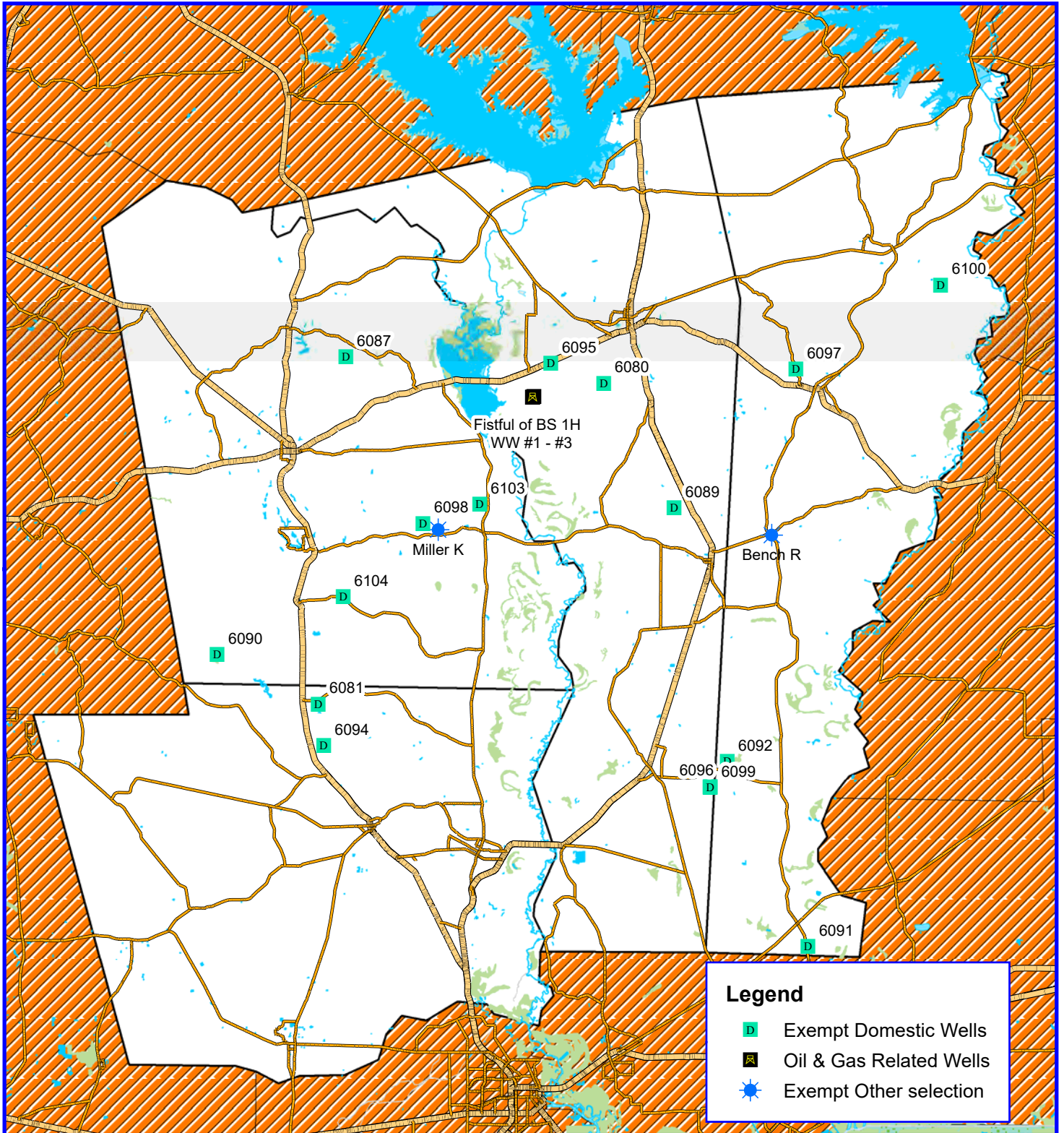


# Oil & Gas Related Wells - March 2024

WELL NAME	FRACKED?	WELL OWNER	DRILLING CO.	DRILLER NAME	Date_Entered
Monarch #1	N	Paleo Oil Company	Pinnergy LTD	Skipper Hagler	03/05/2024



# Registered Wells - May 2024



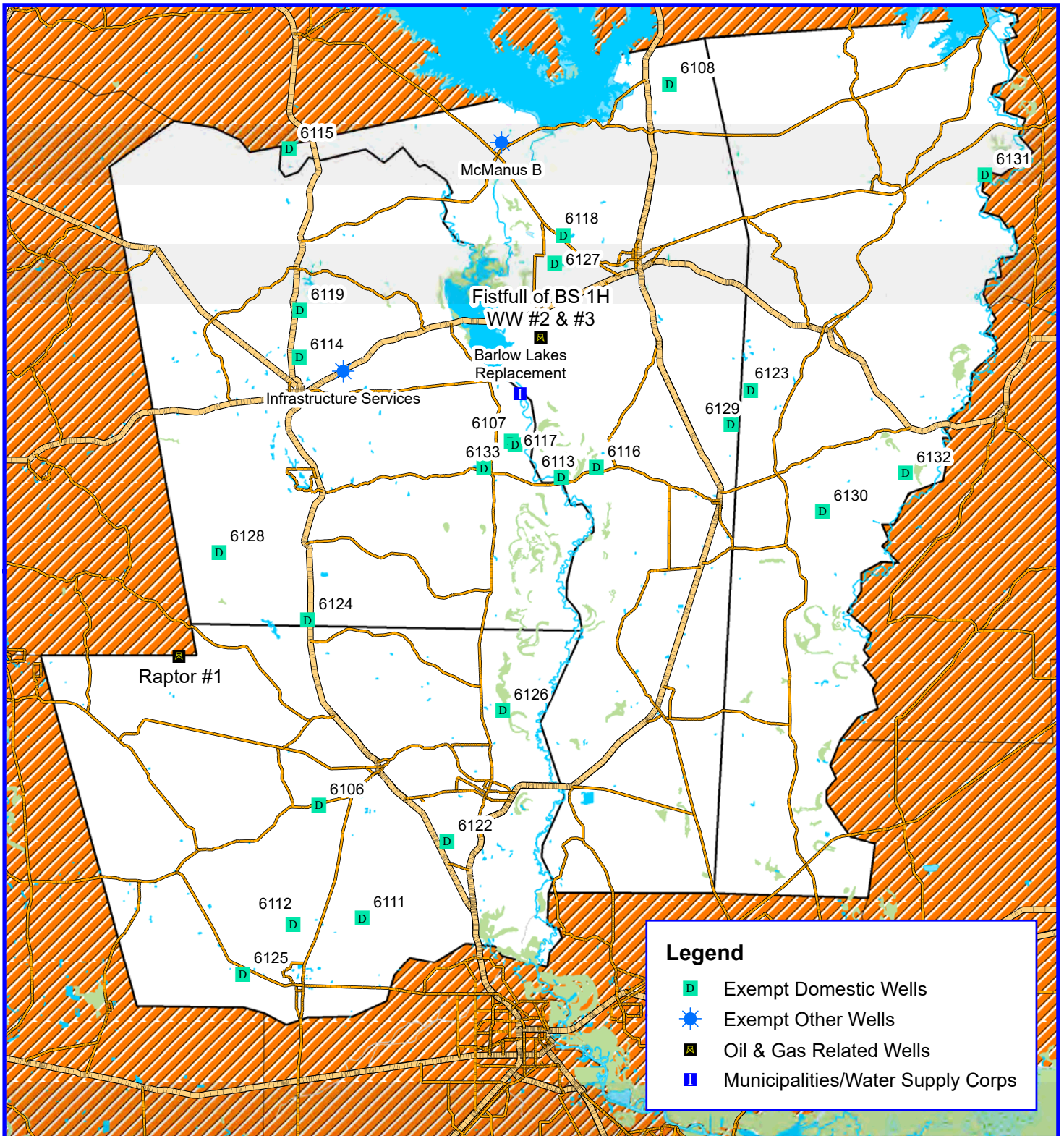
	<p><b>Drafted By:</b> John Martin, Southeast Texas GCD</p> <p><b>Date:</b> June 3, 2024</p>	

# Oil & Gas Related Wells - May 2024

WELL NAME	FRACKED?	WELL OWNER	DRILLING CO.	DRILLER NAME	Date_Entered
Fistful of BS 1H WW#1	N	Zarvona Energy	J&S Water Wells	Tomas Salinas	05/22/2024
Fistful of BS 1H WW#2	N	Zarvona Energy	J&S Water Wells	Tomas Salinas	05/22/2024
Fistful of BS 1H WW#3	N	Zarvona Energy	J&S Water Wells	Tomas Salinas	05/22/2024



# Registered/Permitted Wells - June 2024



Drafted By:  
John Martin, Southeast Texas GCD

Date  
July 1, 2024

Data Source  
ESRI Street Map USA 2006  
SETGCD ArcView GIS Database

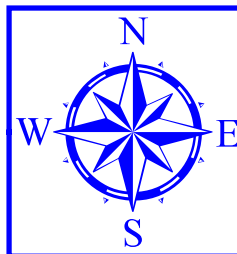
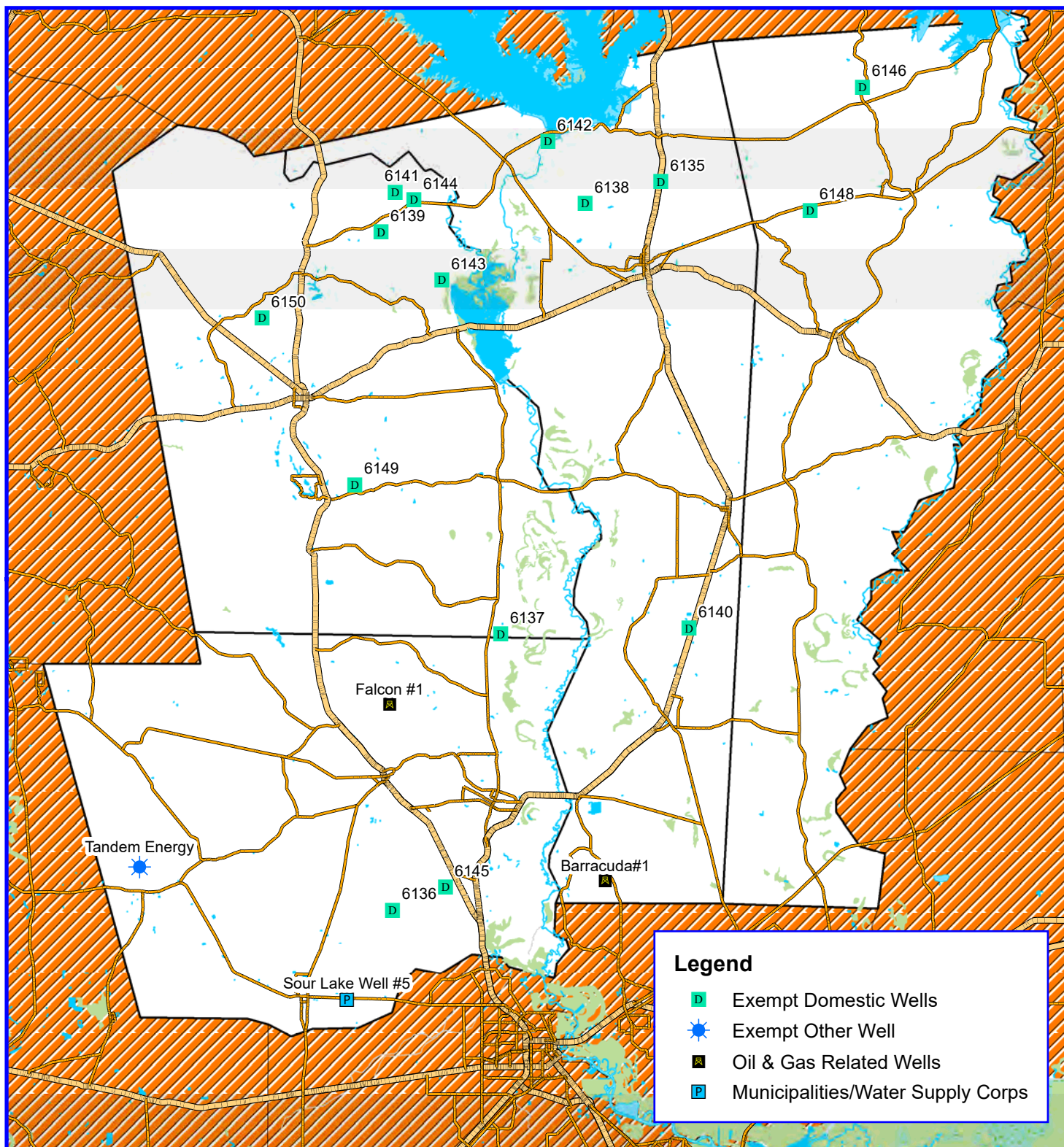


# Oil & Gas Related Wells - June 2024

FRACKED?					
Fistful of BS 1H WW#2	N	Zarvona Energy	J&S Water Wells	Tomas Salinas	05/22/2024
Fistful of BS 1H WW#3	N	Zarvona Energy	J&S Water Wells	Tomas Salinas	05/22/2024
Raptor #1	Y	Ventex Operating Corp.	Fas Line Services	Clint Scudday	06/24/2024



# Registered/Permitted Wells - July 2024



**Drafted By:**  
John Martin, Southeast Texas GCD

**Date**  
August 5, 2024

**Data Source**  
ESRI Street Map USA 2006  
SETGCD ArcView GIS Database

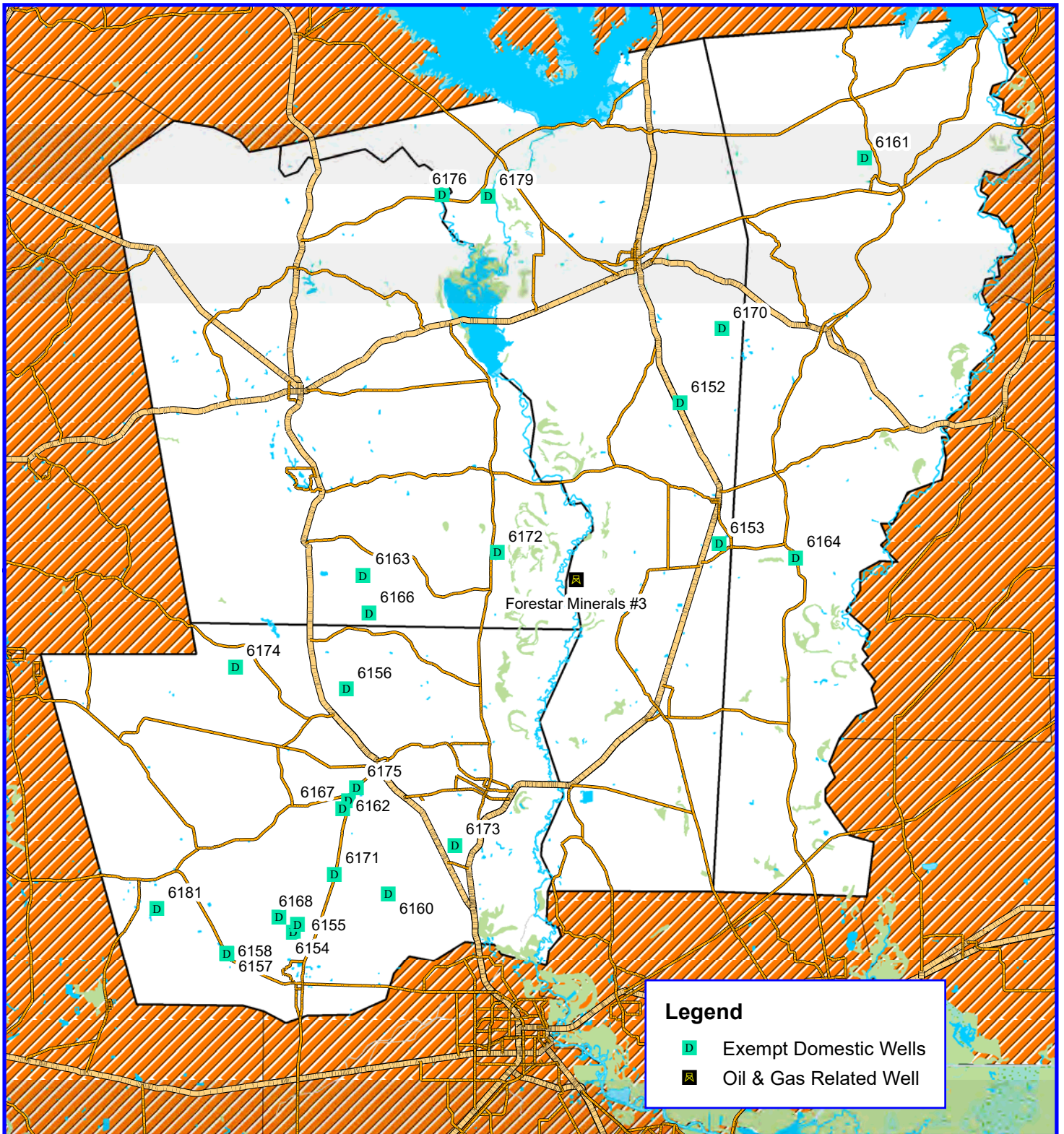




## Oil & Gas Related Wells - July 2024

WELL NAME	FRACKED?	WELL OWNER	DRILLING CO.	DRILLER NAME	Date_Entered
Falcon #1	Y	Ventex Operating Corp.	Fas Line Services	Clint Scudday	07/25/2024
Barracuda#1	N	Atoka Energy, LLC	George Bellenger	Mitch Turk	07/31/2024

# Registered Wells - August 2024



Drafted By:  
John Martin, Southeast Texas GCD

Date  
September 4, 2024

Data Source  
ESRI Street Map USA 2006  
SETGCD ArcView GIS Database



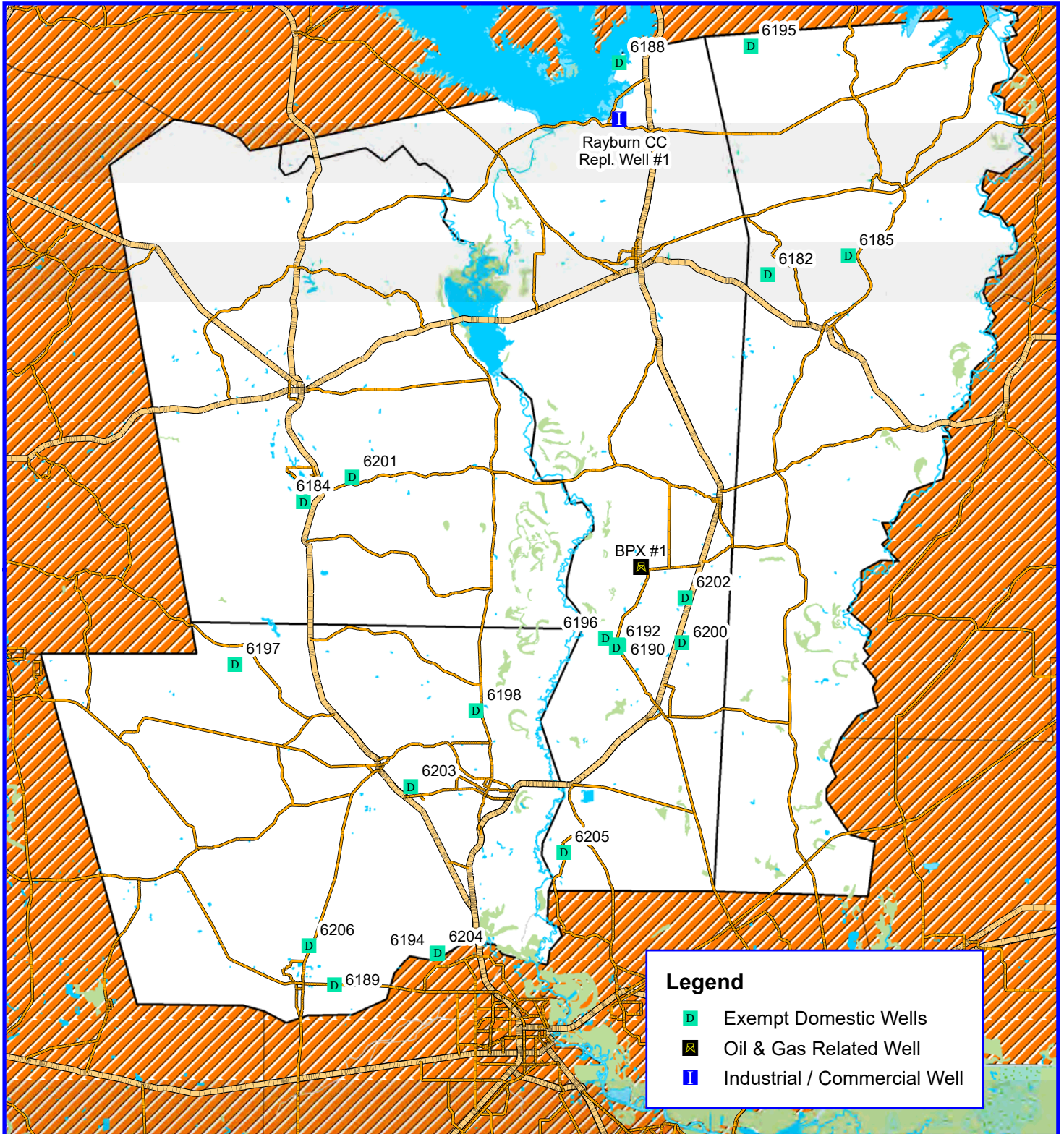
# Oil & Gas Related Wells - August 2024

WELL NAME	FRACKED?	WELL OWNER	DRILLING CO.	DRILLER NAME	Date_Entered
Forestar Minerals #3	N	Forza Operating, LLC	George Bellenger Water	Mitch Turk	08/17/2024

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# Registered / Permitted Wells - September 2024



**Legend**

-  Exempt Domestic Wells
-  Oil & Gas Related Well
-  Industrial / Commercial Well

		
	<p><b>Drafted By:</b> John Martin, Southeast Texas GCD</p> <p><b>Date:</b> October 1, 2024</p>	

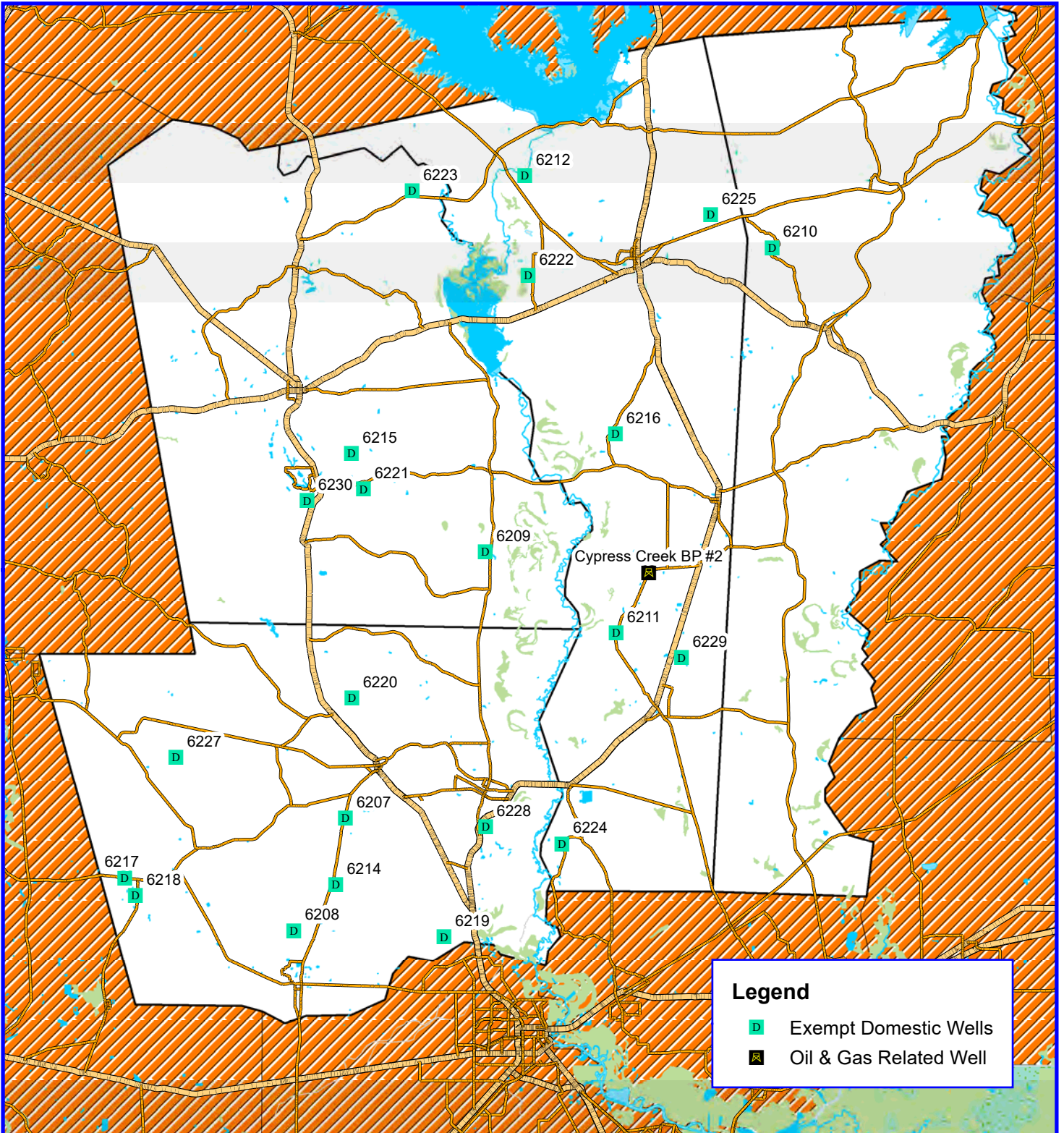
# Oil & Gas Related Wells - October 2024

WELL NAME	FRACKED?	WELL OWNER	DRILLING CO.	DRILLER NAME	Date_Entered
BPX #1	N	Cameron Exploration, NL Bishop Drilling Inc.		Nathan Bishop	09/18/2024

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# Registered Wells - October 2024



	<p><b>Drafted By:</b> John Martin, Southeast Texas GCD</p> <p><b>Date:</b> November 1, 2024</p>	

# Oil & Gas Related Wells - October 2024

WELL NAME	COMMENTS	WELL OWNER	DRILLING CO.	DRILLER NAME	DATE ENTERED
Cypress Creek BP #2	New Well / Rig Supply	Forza Operating, LLC	George Bellenger Water	Mitch Turk	10/02/2024

# GOAL 4.6

## ADDRESSING DROUGHT CONDITIONS

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*(Conservation is the only practice which is practicable in the District.)*

### Objectives

1. *The District will post an article and/or drought index maps, regarding drought conditions in the District at least annually on the District's website.*

### Performance Standard

1. *A copy of the article or and/or drought index maps posted on the District's website regarding drought conditions will be included in the District's Annual Report.*
- 
- 

### OBJECTIVE 1

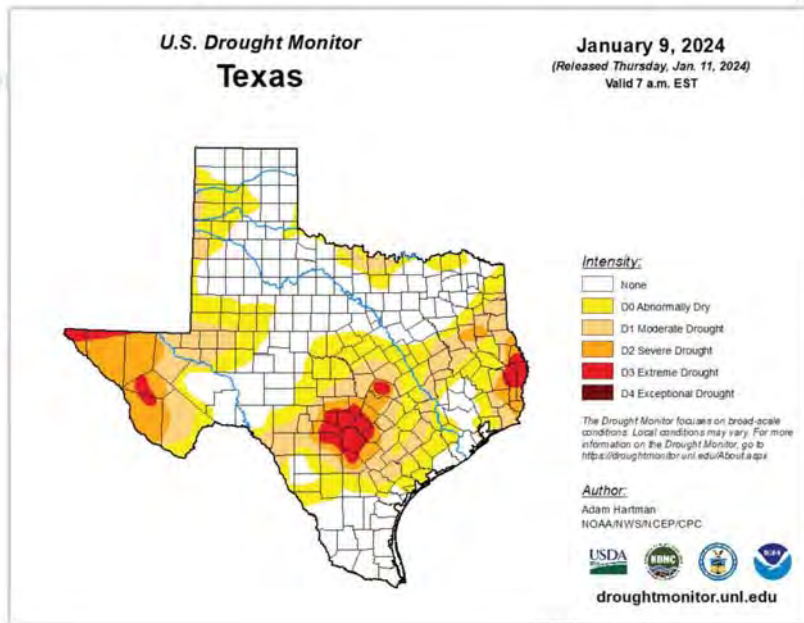
An article addressing drought conditions within the Southeast Texas Groundwater Conservation District was published in the Summer 2024 issue of the SETGCD Well Monitor Newsletter and posted on the District's website on July 10, 2024 (see Appendix A – Tab 12).

Each month the District posts relevant drought conditions maps on the District's website and at the District office (copies attached). The maps are typically the monthly Texas Palmer Drought Severity Index map, the monthly U.S. Palmer Drought Severity Index map, or the latest U.S. Drought Monitor map. These maps, as well as the NOAA Precipitation Probability maps and the U.S. Seasonal Drought Outlook maps, are included in the Manager's Report and are provided to the Board of Directors every month. These maps give the public easy access to current drought conditions within the District and keep the District's Directors well apprised of the current drought situation.

The District continues to maintain a webpage dedicated to drought information and drought conditions. Included on this page are links to the Texas Drought Preparedness Council's website with the most up-to-date Statewide Drought Situation Reports. These reports give a concise overview of current drought conditions regionally as well as statewide.

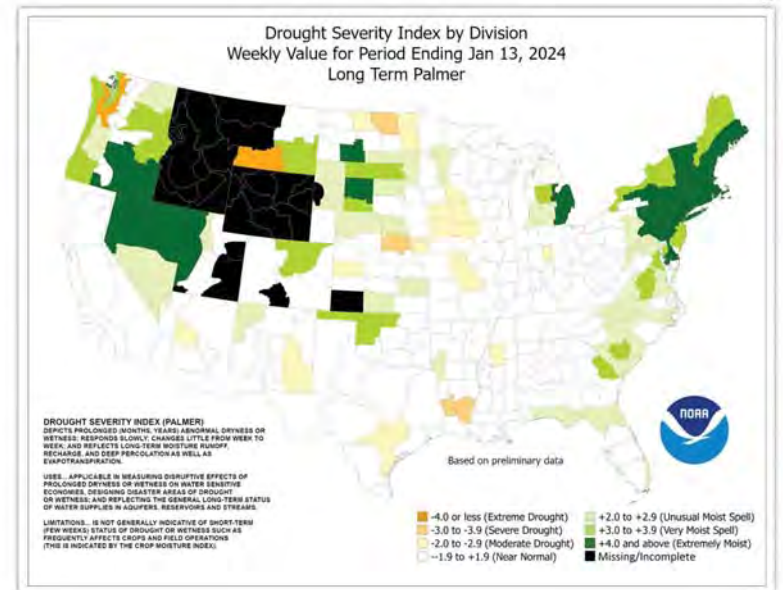
The drought information webpage also includes a link to the Texas Water Development Board's drought information webpage which has up-to-date drought monitoring and outlook information. It includes numerous drought condition maps, real-time remote static water level monitoring for nearly 300 water wells across the state (4 of which are located within the District), reservoir levels that are updated daily, and many other useful tools and datasets.



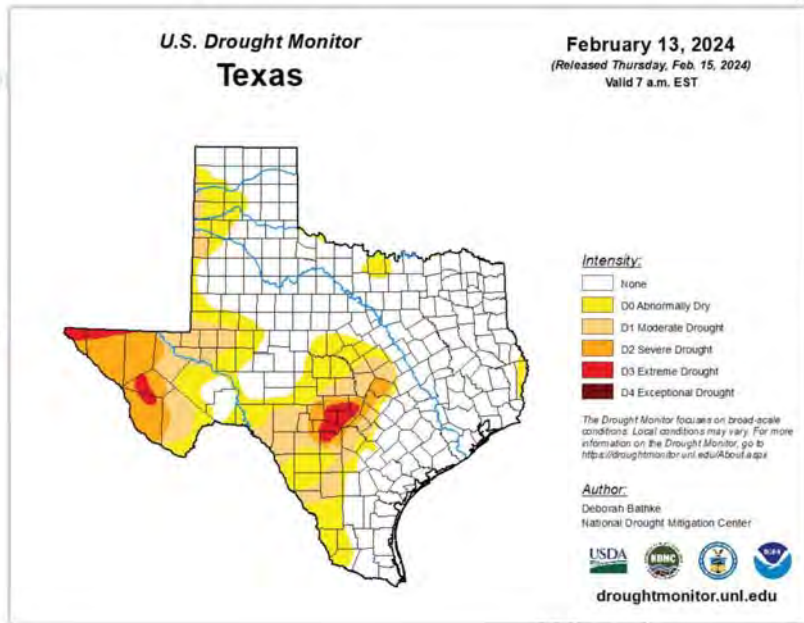


What is

2/2

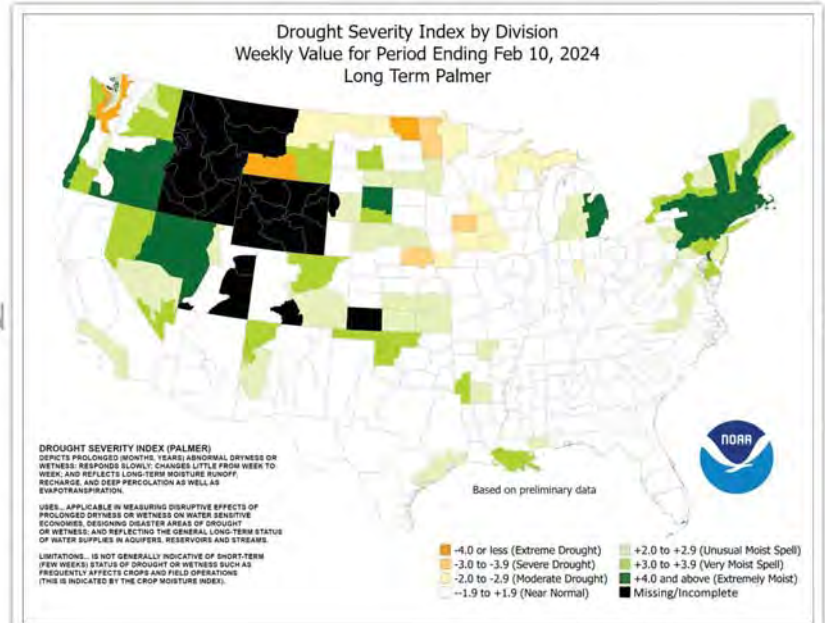


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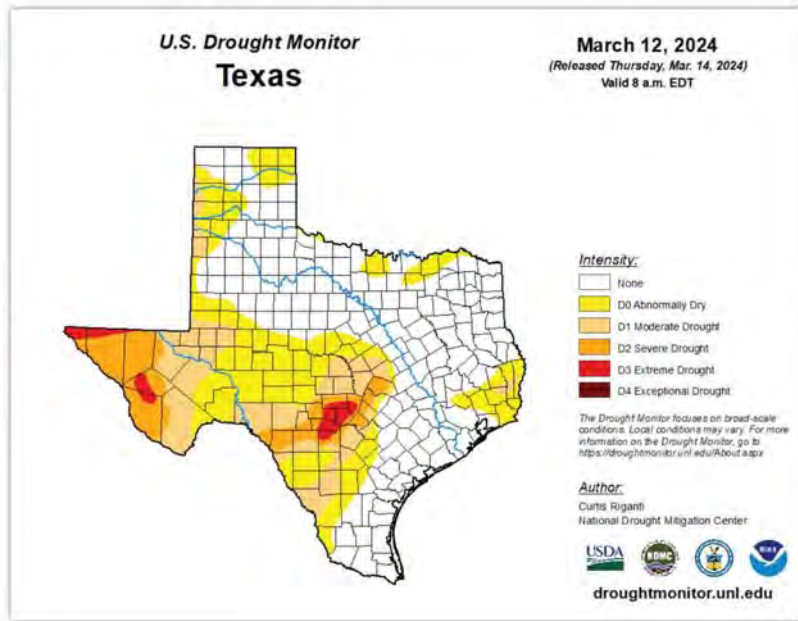


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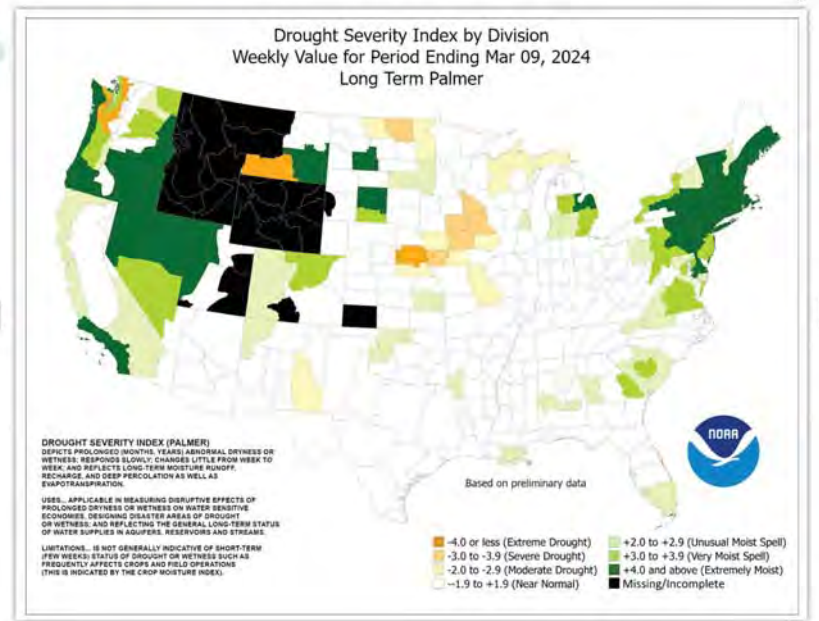
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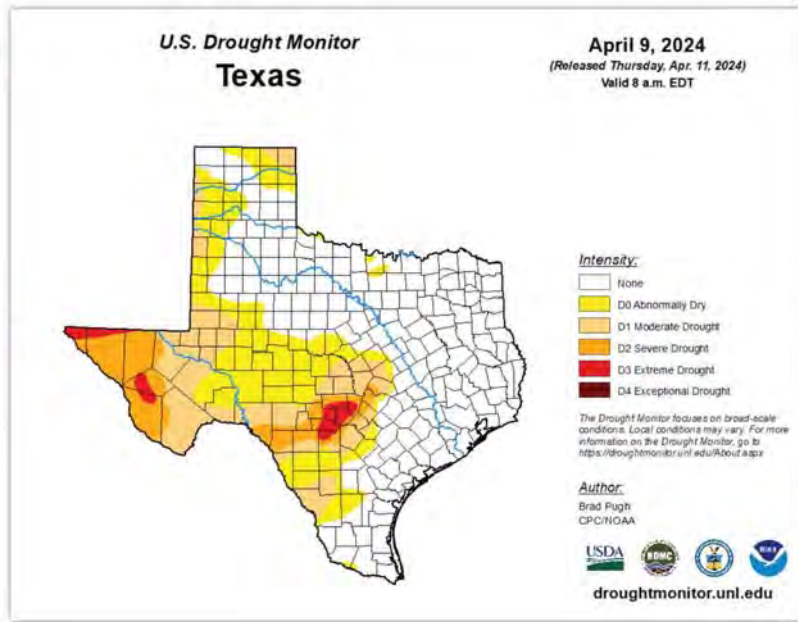
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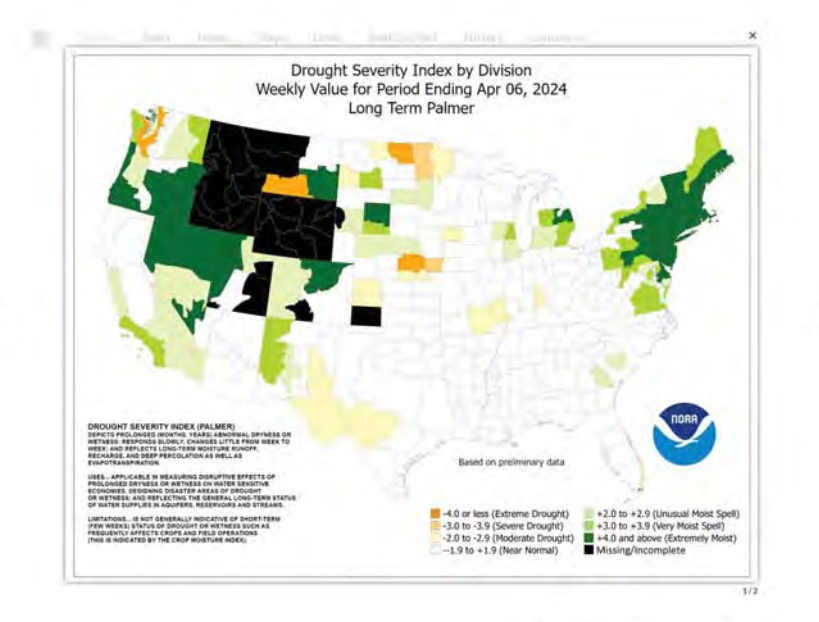
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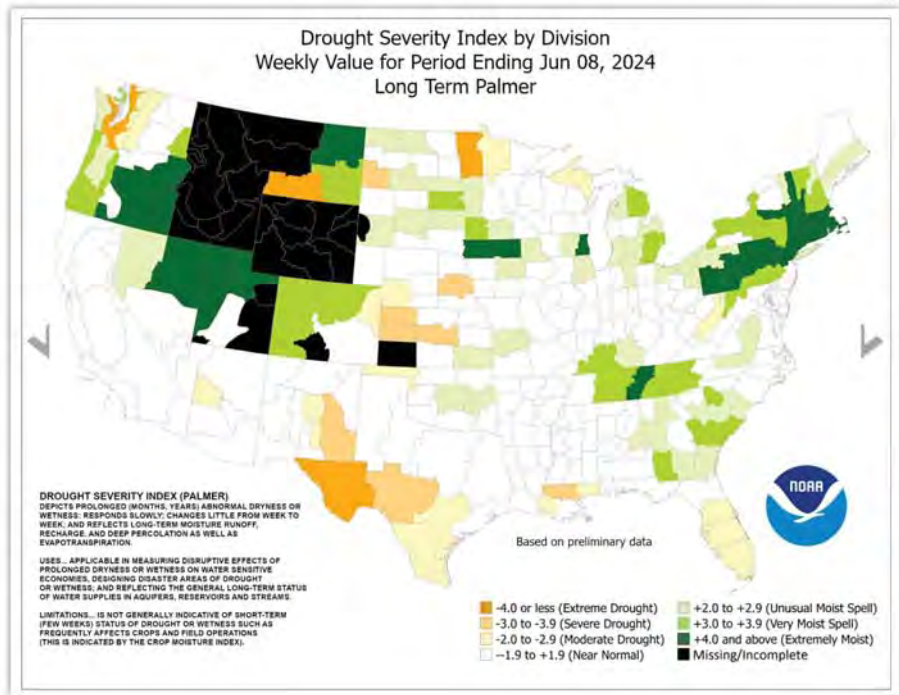
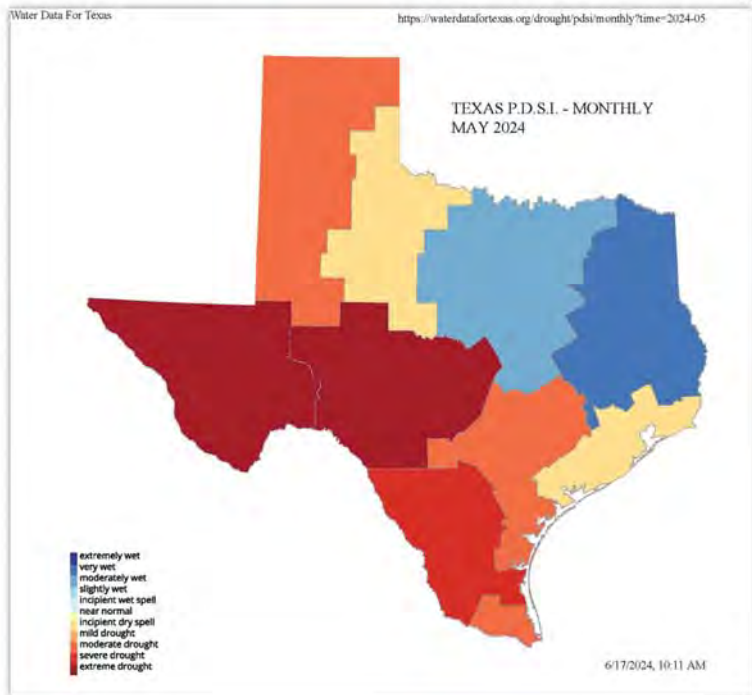
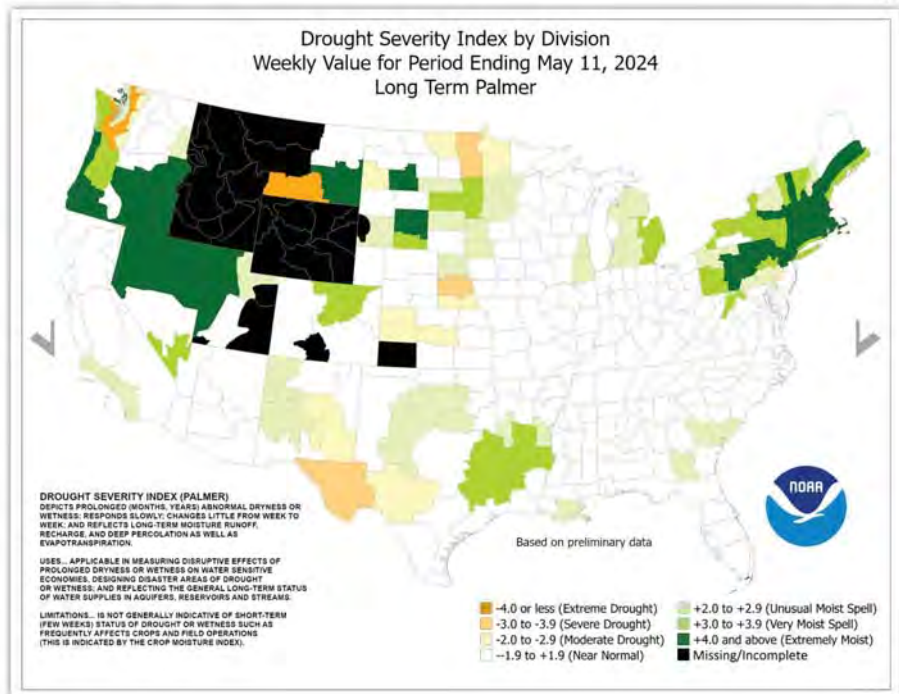
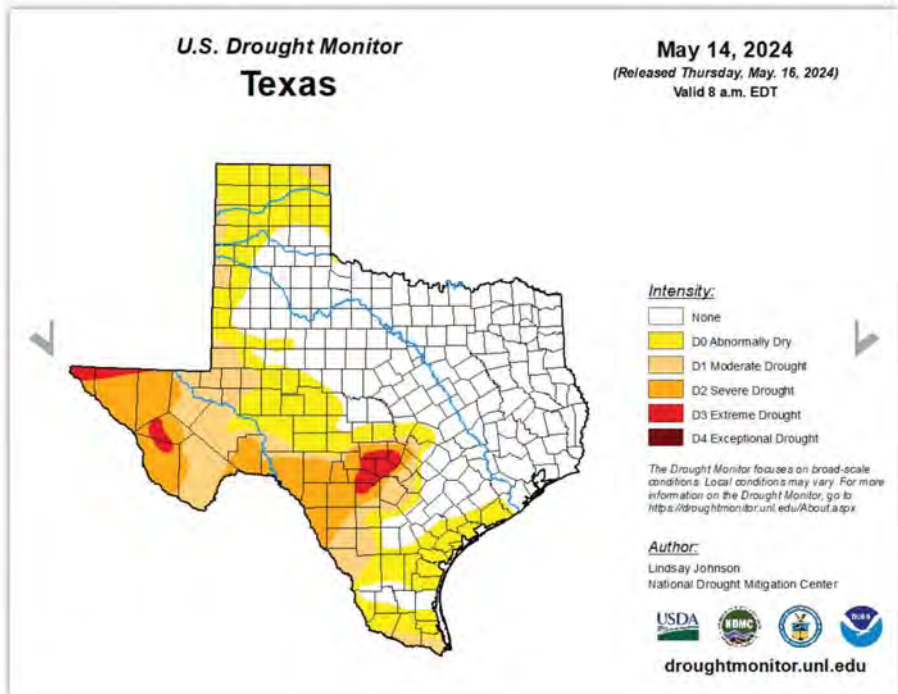


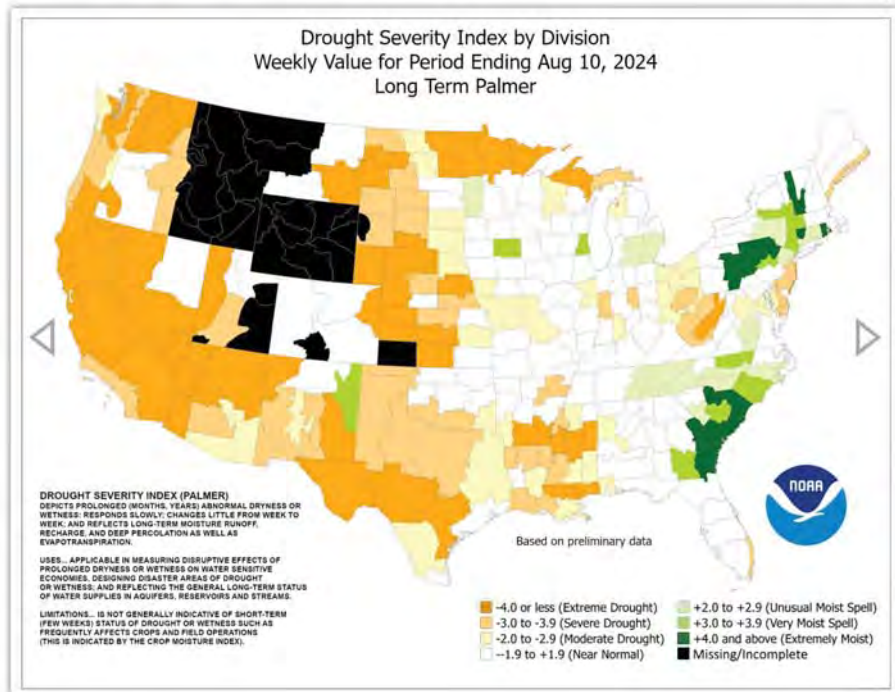
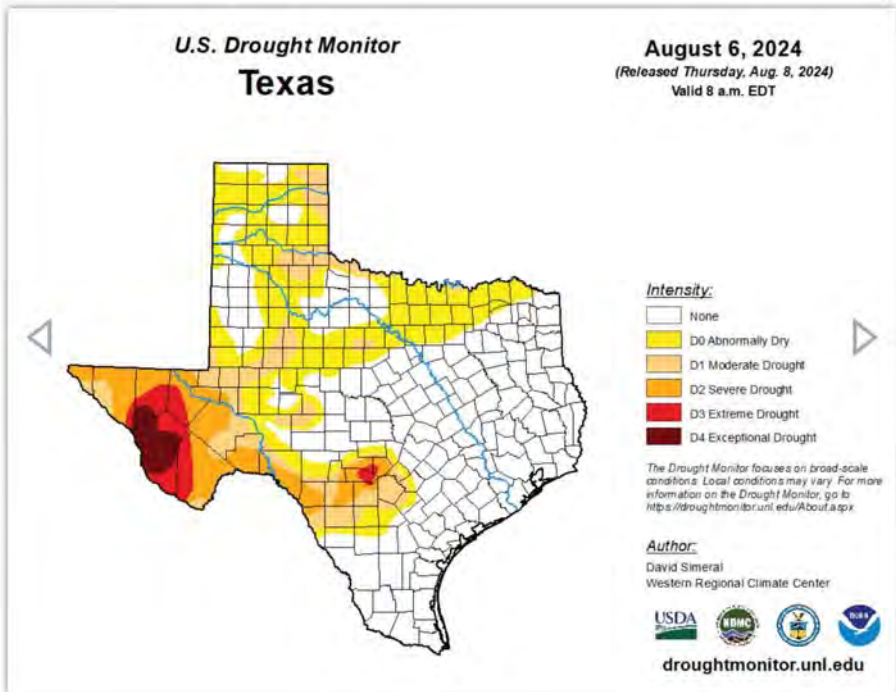
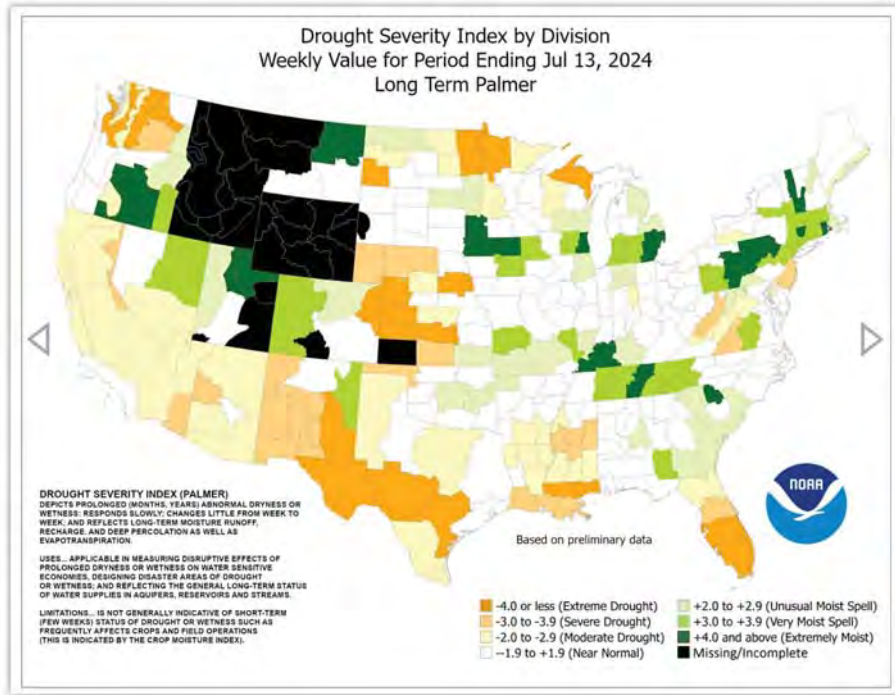
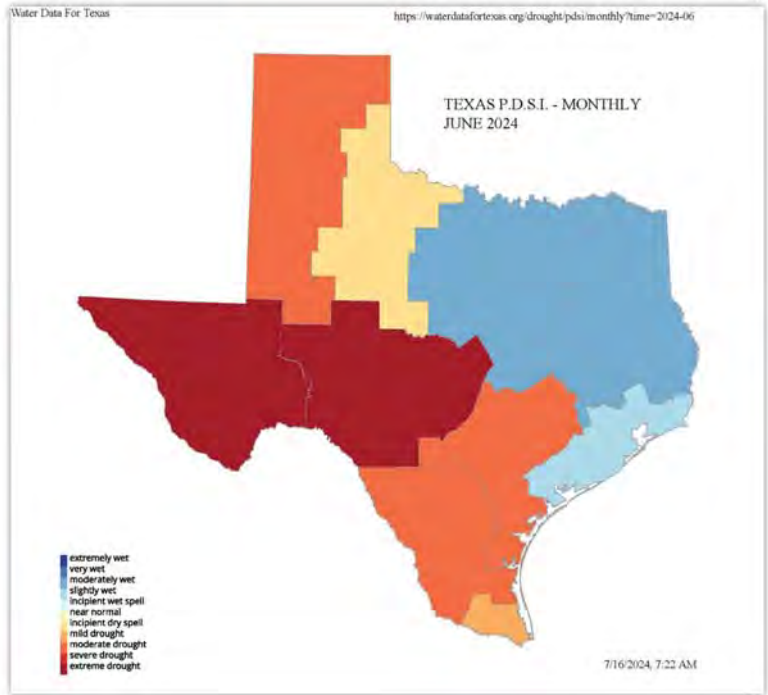
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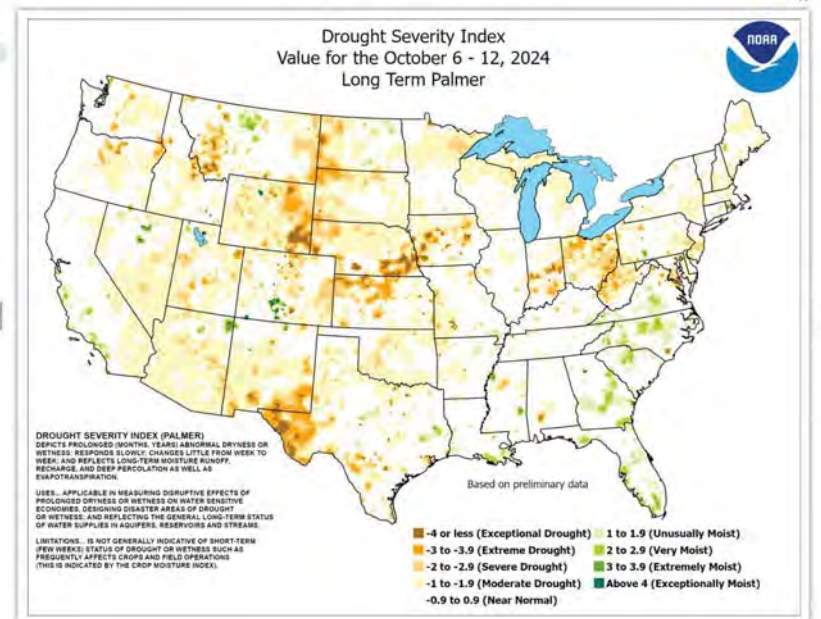
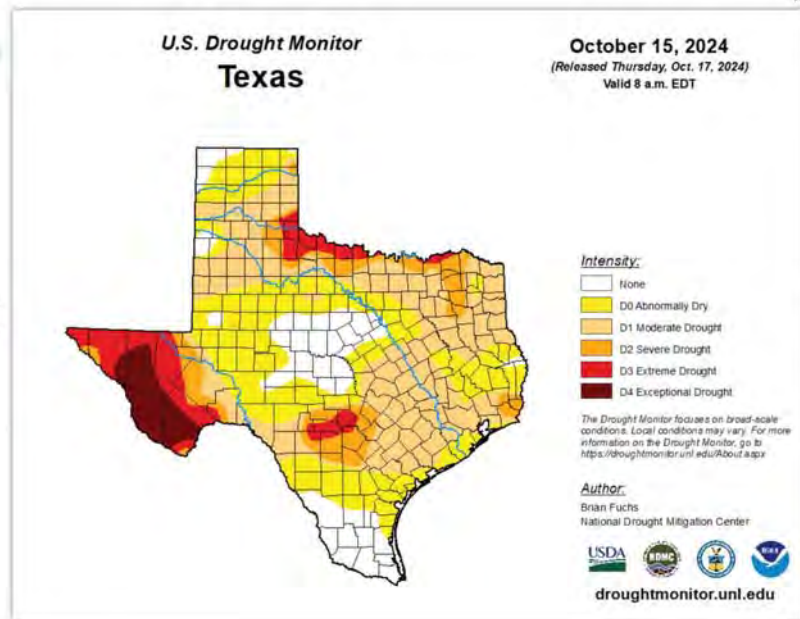
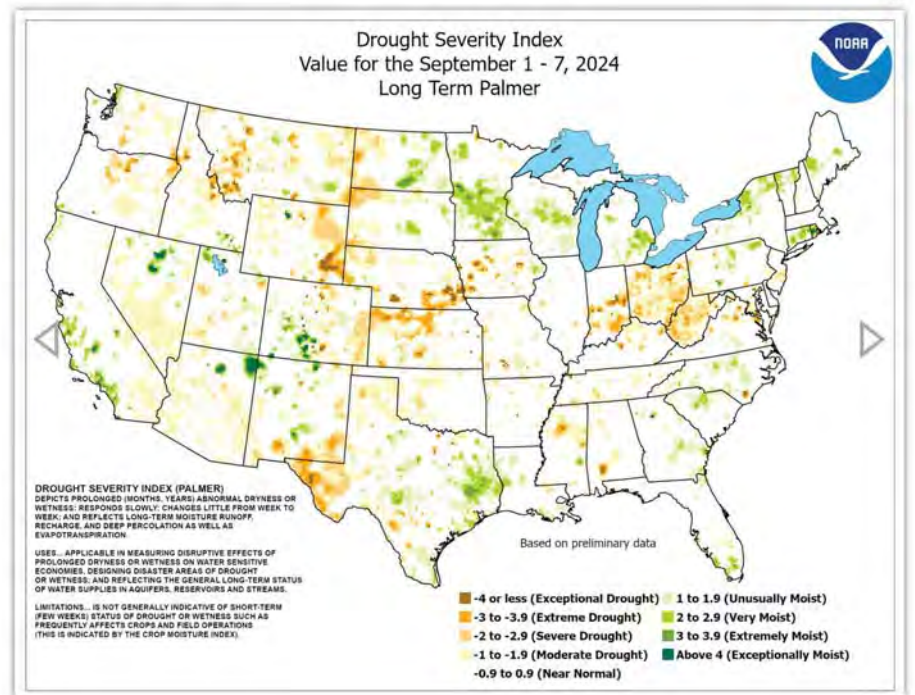
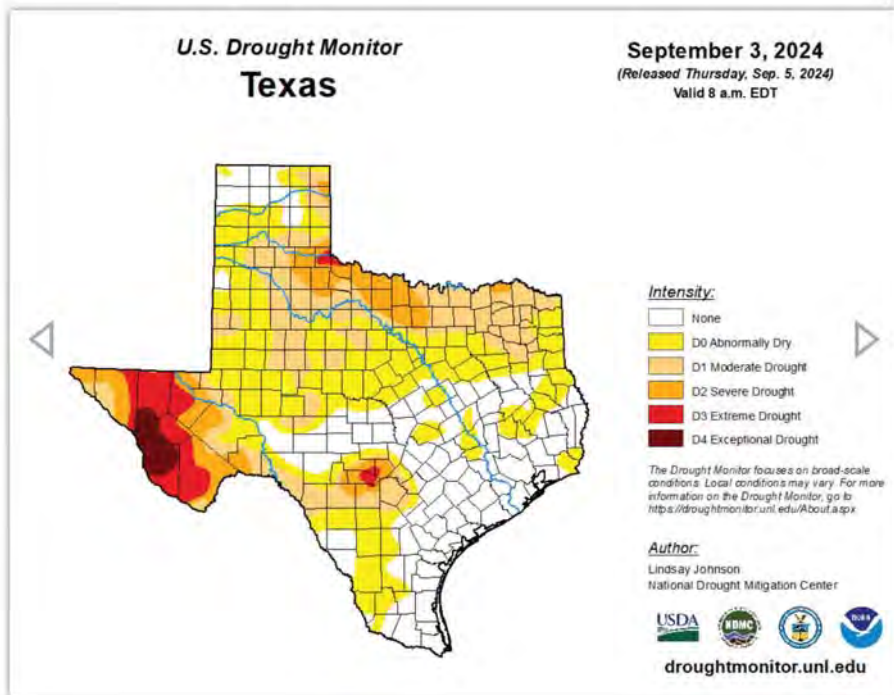
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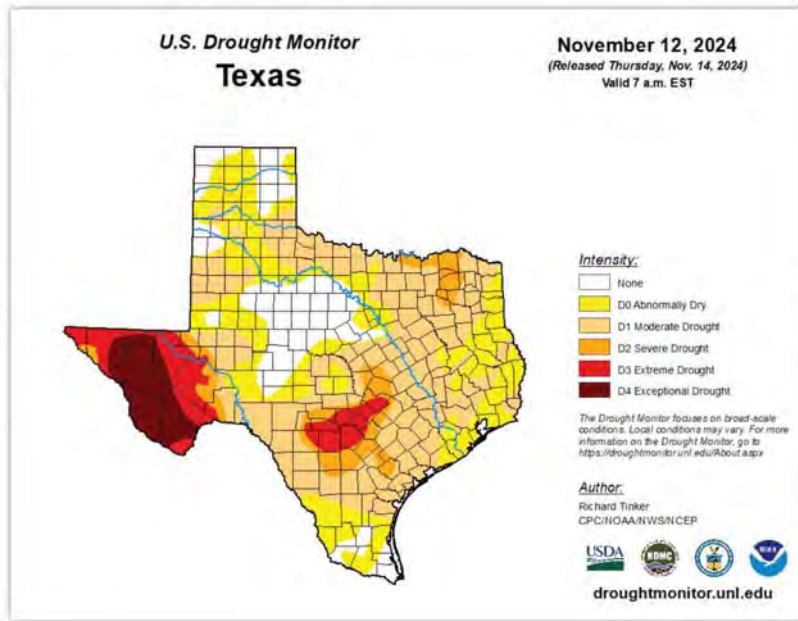




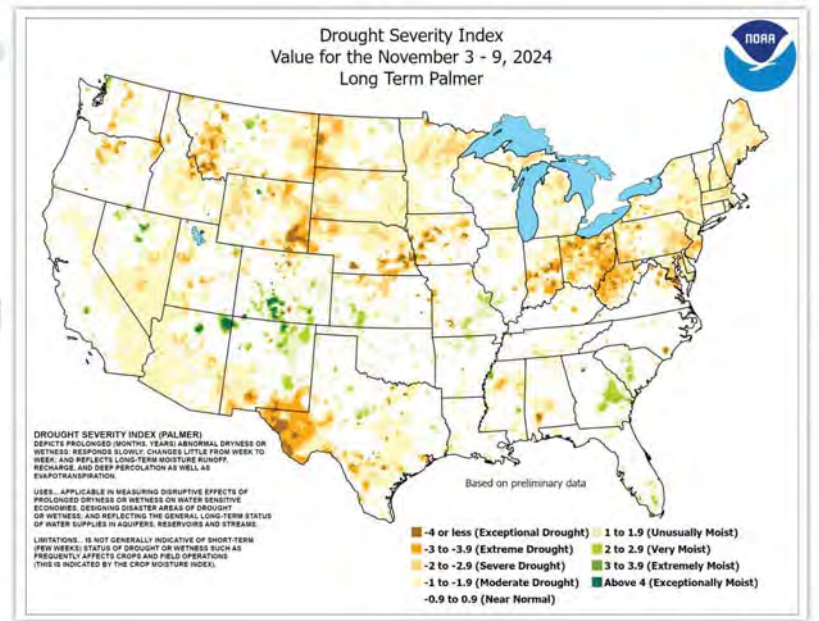




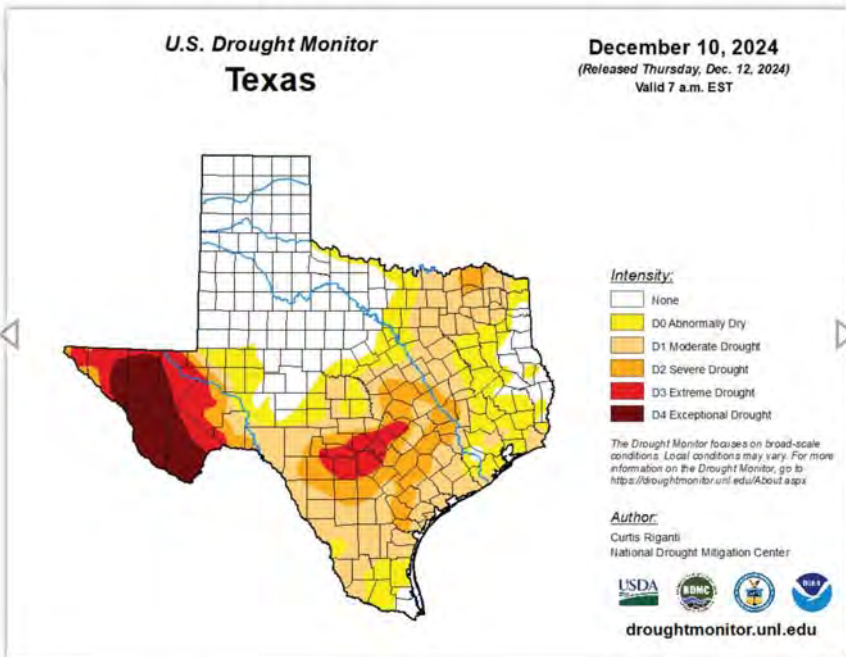




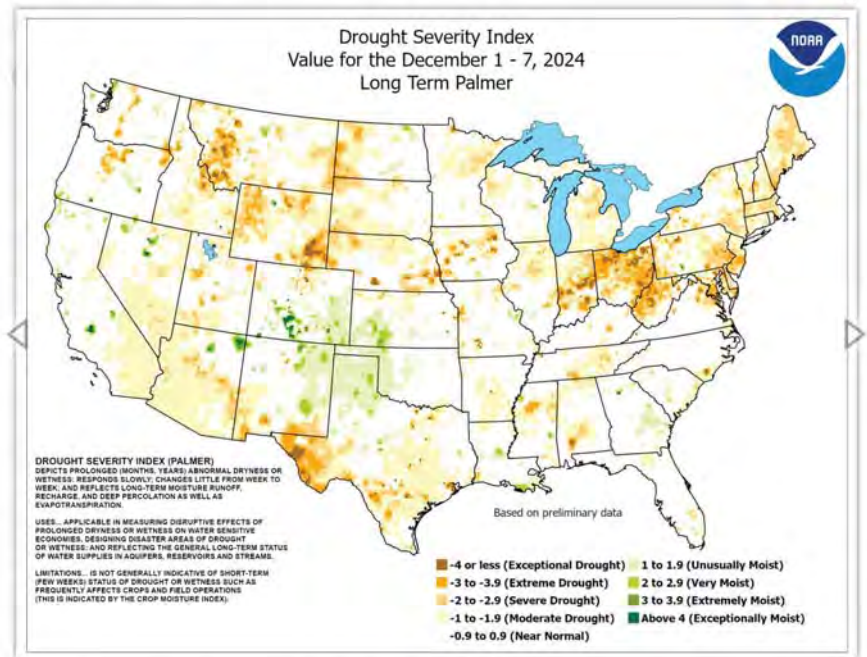
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2/2



1/2



# GOAL 4.7

## ADDRESSING CONSERVATION, RECHARGE ENHANCEMENT, RAINWATER HARVESTING, PRECIPITATION ENHANCEMENT, OR BRUSH CONTROL

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*(Conservation is the only practice which is practicable in the District.)*

### Objectives

1. *The District will annually submit an article regarding water conservation for publication to at least one newspaper of general circulation in Jasper, Newton, Hardin, and Tyler Counties.*
2. *The District will publish and mail or email, at least once annually, an informative flier or newsletter on water conservation and related issues, to groundwater use permit holders. A copy of the flier or newsletter shall also be made available on the District's website.*

### Performance Standard

1. *A copy of the article submitted by the District for publication to a newspaper of general circulation in Jasper, Newton, Hardin, and Tyler Counties regarding water conservation will be included in the District's Annual Report.*
  2. *A copy of the flier or newsletter, on water conservation and related issues, along with the mailing/emailing list of the permit holders to whom it was provided, shall be included in the District's Annual Report.*
- 
- 

### OBJECTIVE 1

An article titled "Drought Preparedness – Reduce Wasteful Practices to Bank Water for Future Use" was posted to the District's website and was submitted to the following newspapers on June 24, 2024: the *Beaumont Enterprise/Jasper Newsboy*, the *Silsbee Bee*, the *Tyler County Booster*, and the *East Texas Banner* (which is now an online only publication). To assist the newspapers, the article was provided electronically, via email, in two formats (PDF and Microsoft Word). The article was published by the East Texas Banner and made available on their website on June 25, 2024.

# GOAL 4.7

## OBJECTIVE 2

This objective was met by the publication of the Summer 2024 SETGCD Well Monitor Newsletter (see Appendix A). The newsletter was emailed or mailed to permit holders on July 9, 2024. The newsletter was also emailed or mailed to public officials throughout the District on July 7, 2024 as well as mailed to all water well drillers within the District and surrounding counties. Copies of the mailing address databases are included in Appendix A. The Summer 2024 SETGCD Well Monitor Newsletter was also posted on the District website on July 10, 2024 for easy access by the general public.

## Drought Preparedness – Reduce Wasteful Practices to Bank Water for Future Use

It was just last year that much of the Southeast Texas Groundwater Conservation District (and east Texas in general) was experiencing very severe drought conditions. How quickly things have changed - from drought conditions to wet conditions in only a matter of months. It's times like now that it's difficult to talk to people about conserving water, especially when, as of June 1, some parts of the District have received or surpassed (in some instances significantly surpassed) the annual average rainfall for the entire year. Even in an average year we typically have an abundance of rain with an average annual of 52 - 54 inches. Having already hit our annual average in some places and with a very active hurricane season predicted, it is quite possible that we could get 70 or more inches of rain in 2024 (one rain gauge in Tyler County has actually already surpassed 70 inches).

Although we have experienced wet conditions for the first five months of the year, predictions are that we will be transitioning back to a La Nina weather pattern which typically brings warmer and drier weather as was the case during the summer of 2023. Prolonged La Ninas are not unheard of, as was the case in 2010 - 2012 which was one of the driest periods in Texas history. Most areas within the Southeast Texas Groundwater Conservation District saw 30% - 35% less rain than normal during that period. The northwestern portion of the District (Woodville area) saw closer to 50% less rainfall. Because drought is always possible, it is best that we conserve our most precious resource when we can so that it will be available in the future. Just because we have plenty right now, doesn't mean that we shouldn't stay water wise and conserve whenever we can. Don't forget, it was only last summer that some parts of the District were experiencing category D4 Exceptional Drought Conditions, the highest drought rating on the U.S. Drought Monitor, which is a weekly map of drought conditions that is produced jointly by the National Oceanic and Atmospheric Administration (NOAA), the U.S. Department of Agriculture, and the National Drought Mitigation Center (NDMC).

Although it may seem unnecessary to conserve during wet periods, it is always a good practice so that when we are experiencing drought conditions, it doesn't hurt as much.

Here are some ways in which you can reduce your groundwater consumption and prevent waste:

### Conserving Water Indoors:

- Using efficient showerheads and aerators on your faucets can significantly reduce the amount of water you use. In fact, installing an efficient showerhead is one of the most effective water saving steps you can take inside your house. You can save a little more water by getting into the shower as soon as possible - don't let the water run too long while warming it up.
- When possible, update and replace old toilets, washing machines, and dishwashers. New efficient models can save you thousands of gallons per year.
- An older clothes washer will use up to 23 gallons per load, whereas a new energy efficient model may use as little as 13 gallons. Considering that the average household washes about 300 loads per year, the numbers add up quickly. Another thing to keep in mind is that if you wash with hot water, up to 90% of the cost to wash those clothes is simply for heating the water. Only use hot water when necessary so you'll save on your electrical bill and reduce the impact on the water-energy nexus (a complex relationship between the production of electricity and water).
- In the kitchen, a water efficient dishwasher can save over 1,000 gallons per year. Keep in mind that 1,000 gallons per home may not seem significant but multiply that by a neighborhood and 1,000 gallons per home will add up to quite a lot very quickly.
- Newer water efficient toilets will use only about 1—1.5 gallons of water per flush. You should always keep an eye out for any leaks in your toilet. A leaking toilet can waste quite a bit of water, possibly thousands of gallons a month in extreme cases. It is estimated that 10% of all homes in the U.S. have water leaks wasting 90+ gallons of water per day.

### Conserving Water Outdoors and Reducing Waste:

- If you have a swimming pool, consider covering it when not in use. In the summer, a pool can lose as much as half an inch per day due to evaporation, which can add up to the equivalent of your pool's entire volume each summer. You could potentially save 10,000 – 20,000 gallons or more depending on how big your pool is.
- Water landscaping in the morning or late evening to reduce evaporation loss, and only water when needed. Most lawns only need 1 inch of water a week.
- If you have a sprinkler system, keep it well maintained and keep an eye out for leaks.

- If you have a vegetable or flower garden consider a drip irrigation system. It will water your plants more efficiently and with less waste.
- Be conscientious when washing your vehicles at home. If you leave a hose running, you could use as much as 100 gallons or more washing your vehicle. Have a sprayer head on the hose to save water or consider a commercial car wash. A commercial car wash typically uses 35 – 70 gallons of water with newer high-tech facilities using as little as 15 gallons.

For more information on water conservation ideas visit the Southeast Texas Groundwater Conservation District's Website at: <https://setgcd.org/>, or the Texas Water Development Board's site at: <https://www.twdb.texas.gov/conservation/>





**SOUTHEAST TEXAS  
GROUNDWATER  
CONSERVATION DISTRICT**

P.O. BOX 1407  
JASPER, TEXAS 75951

PRESIDENT  
VICE PRESIDENT  
SEC / TREAS

OLEN BEAN  
BOBBY ROGERS  
M. CHARLES ZIMMERMAN  
SAM ASHWORTH  
STEVEN BLACK  
KEN JOBE  
THOMAS HAWTHORNE  
CODY JONES  
GREG KELLEY  
RICK RUSSELL  
BILLY TED SMITH  
ROBB STAR

GENERAL MANAGER  
GENERAL COUNSEL

JOHN M. MARTIN  
JOHN D. STOVER

June 24, 2024

Beaumont Enterprise / Jasper Newsboy

**Attn:** Editor

380 Main Street

Beaumont, TX 77701

**VIA –E-Mail –** [Localnews@beaumontenterprise.com](mailto:Localnews@beaumontenterprise.com)

**Re: Water Conservation Article “Drought Preparedness – Reduce Wasteful Practices to Bank Water for Future Use”**  
”

Dear Editor:

I would appreciate it if you would consider publishing the attached conservation article in one format or another in the Beaumont Enterprise and Jasper Newsboy (i.e. a news story or op-ed piece). I understand that you are not obligated to print the article; I only ask that you consider it. Please feel free to make minor modifications to the article to meet any formatting guidelines necessary for publication or to correct grammatical or typographic errors.

I have attached the article in PDF format as well as a Microsoft Word file, for your convenience. If you do publish the article, I ask that you please notify me so that I may obtain a copy of the published article for our file.

If I can be of any assistance, please do not hesitate to call me.

Sincerely,

John Martin  
General Manager

## John Martin

---

**From:** John Martin  
**Sent:** Monday, June 24, 2024 10:26 AM  
**To:** 'localnews@beaumontenterprise.com'  
**Subject:** Conservation Article  
**Attachments:** Beaumont Ent-Jasper NB.pdf; Conservation Article (for newspapers).pdf

Hello Beaumont Enterprise / Jasper Newsboy,

Please see my attached cover letter and water conservation / waste reduction article.

John Martin  
Southeast Texas Groundwater  
Conservation District  
(409) 383-1577





**SOUTHEAST TEXAS  
GROUNDWATER  
CONSERVATION DISTRICT**

P.O. BOX 1407  
JASPER, TEXAS 75951

PRESIDENT  
VICE PRESIDENT  
SEC / TREAS

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RICK RUSSELL  
BILLY TED SMITH  
ROBB STAR

GENERAL MANAGER  
GENERAL COUNSEL

JOHN M. MARTIN  
JOHN D. STOVER

June 24, 2024

Silsbee Bee  
**Attn:** Daniel Oliveaux, Editor  
410 Hwy. 96 South  
Silsbee, TX 77656  
**VIA E-Mail – Editor@Silsbeebee.com**

**Re: Water Conservation Article “Drought Preparedness – Reduce Wasteful Practices to Bank Water for Future Use”**

Dear Mr. Oliveaux:

I would appreciate it if you would consider publishing the attached conservation article in one format or another in your paper (i.e. a news story or op-ed piece). I understand that you are not obligated to print the article; I only ask that you consider it. Please feel free to make minor modifications to the article to meet any formatting guidelines necessary for publication or to correct grammatical errors.

I have attached the article in PDF format as well as a Microsoft Word file, for your convenience. If you do publish the article, I ask that you please notify me so that I may obtain a copy of the published article for our file.

If I can be of any assistance, please do not hesitate to call me.

Sincerely,

John Martin  
General Manager

## John Martin

---

**From:** John Martin  
**Sent:** Monday, June 24, 2024 10:30 AM  
**To:** 'editor@silsbeebec.com'  
**Subject:** Water Conservation Article  
**Attachments:** Silsbee Bee.pdf; Conservation Article (for newspapers).pdf

Hello Mr. Oliveaux,

Please see my attached cover letter and water conservation / waste reduction article.

John Martin  
Southeast Texas Groundwater  
Conservation District  
(409) 383-1577







**SOUTHEAST TEXAS  
GROUNDWATER  
CONSERVATION DISTRICT**

P.O. BOX 1407  
JASPER, TEXAS 75951

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RICK RUSSELL  
BILLY TED SMITH  
ROBB STAR

GENERAL MANAGER  
GENERAL COUNSEL

JOHN M. MARTIN  
JOHN D. STOVER

June 24, 2024

Tyler County Booster  
Attn: Jim Powers, Editor  
205 W. Bluff  
Woodville, TX 75979  
VIA E-Mail – [news@TylerCountyBooster.com](mailto:news@TylerCountyBooster.com)

**Re: Water Conservation Article “Drought Preparedness – Reduce Wasteful Practices to Bank Water for Future Use”**

Dear Mr. Powers:

I would appreciate it if you would consider publishing the attached conservation article in one format or another in your paper (i.e. a news story or op-ed piece). I understand that you are not obligated to print the article; I only ask that you consider it. Please feel free to make minor modifications to the article to meet any formatting guidelines necessary for publication or to correct grammatical errors.

I have attached the article in PDF format as well as a Microsoft Word file, for your convenience. If you do publish the article, I ask that you please notify me so that I may obtain a copy of the published article for our file.

If I can be of any assistance, please do not hesitate to call me.

Sincerely,

A handwritten signature in blue ink that reads "John M. Martin".

John Martin  
General Manager

## John Martin

---

**From:** John Martin  
**Sent:** Monday, June 24, 2024 10:28 AM  
**To:** News@tylercountybooster.com  
**Subject:** Conservation Article  
**Attachments:** Tyler County Booster.pdf; Conservation Article (for newspapers).pdf

Hello Mr. Powers,

Please see my attached cover letter and water conservation / waste reduction article.

John Martin  
Southeast Texas Groundwater  
Conservation District  
(409) 383-1577





**SOUTHEAST TEXAS  
GROUNDWATER  
CONSERVATION DISTRICT**

P.O. BOX 1407  
JASPER, TEXAS 75951

PRESIDENT  
VICE PRESIDENT  
SEC / TREAS

OLEN BEAN  
BOBBY ROGERS  
M. CHARLES ZIMMERMAN  
SAM ASHWORTH  
STEVEN BLACK  
KEN JOBE  
THOMAS HAWTHORNE  
CODY JONES  
GREG KELLEY  
RICK RUSSELL  
BILLY TED SMITH  
ROBB STAR

GENERAL MANAGER  
GENERAL COUNSEL

JOHN M. MARTIN  
JOHN D. STOVER

June 24, 2024

Jay Sharp, Editor  
East Texas Banner  
Newton County Daily  
Tyler County Daily  
**VIA E-Mail – BD@easttexasbanner.com**

**Re: Water Conservation Article “Drought Preparedness – Reduce Wasteful Practices to Bank Water for Future Use”**

Dear Mr. Sharp:

I would appreciate it if you would consider publishing the attached conservation article on your news websites. Please note that you are not obligated to post the article; I only ask that you consider it. Please feel free to make minor modifications to the article to meet any formatting guidelines necessary for publication or to correct grammatical errors.

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General Manager

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**From:** John Martin  
**Sent:** Monday, June 24, 2024 10:32 AM  
**To:** 'BD@easttexasbanner.com'  
**Subject:** Water Conservation Article  
**Attachments:** E Banner-Newton Daily-Tyler Daily.pdf; Conservation Article (for newspapers).pdf

Hello Guys,

Please see my attached cover letter and water conservation / waste reduction article.

John Martin  
Southeast Texas Groundwater  
Conservation District  
(409) 383-1577





sharpcindy56 43 minutes ago

# Reduce Wasteful Practices to Bank Water for Future Use



### Drought Preparedness – Reduce Wasteful Practices to Bank Water for Future Use

It was just last year that much of the Southeast Texas Groundwater Conservation District (and east Texas in general) was experiencing very severe drought conditions. How quickly things have changed - from drought conditions to wet conditions in only a matter of months. It's times like now that it's difficult to talk to people about conserving water, especially when, as of June 1, some parts of the District have received or surpassed (in some instances significantly surpassed) the annual average rainfall for the entire year. Even in an average year we typically have an abundance of rain with an average annual of 52 - 54 inches. Having already hit our annual average in some places and with a very active hurricane season predicted, it is quite possible that we could get 70 or more inches of rain in 2024 (one rain gauge in Tyler County has actually already surpassed 70 inches).

Although we have experienced wet conditions for the first five months of the year, predictions are that we will be transitioning back to a La Nina weather pattern which typically brings warmer and drier weather as was the case during the summer of 2023. Prolonged La Ninas are not unheard of, as was the case in 2010 - 2012 which was one of the driest periods in Texas history. Most areas within the Southeast Texas Groundwater Conservation District saw 30% - 35% less rain than normal during that period. The northwestern portion of the District (Woodville area) saw closer to 50% less rainfall. Because drought is always possible, it is best that we conserve our most precious resource when we can so that it will be available in the future. Just because we have plenty right now, doesn't mean that we shouldn't stay water wise and conserve whenever we can. Don't forget, it was only last summer that some parts of the District were experiencing category D4 Exceptional Drought Conditions, the highest drought rating on the U.S. Drought Monitor, which is a weekly map of drought conditions that is produced jointly by the National Oceanic and Atmospheric Administration (NOAA), the U.S. Department of Agriculture, and the National Drought Mitigation Center (NDMC).

Although it may seem unnecessary to conserve during wet periods, it is always a good practice so that when we are experiencing drought conditions, it doesn't hurt as much.

Here are some ways in which you can reduce your groundwater consumption and prevent waste:

#### Conserving Water Indoors:

- Using efficient showerheads and aerators on your faucets can significantly reduce the amount of water you use. In fact, installing an efficient showerhead is one of the most effective water saving steps you can take inside your house. You can save a little more water by getting into the shower as soon as possible - don't let the water run too long while warming it up.
- When possible, update and replace old toilets, washing machines, and dishwashers. New efficient models can save you thousands of gallons per year.
- An older clothes washer will use up to 23 gallons per load, whereas a new energy efficient model may use as little as 13 gallons. Considering that the average household washes about 300 loads per year, the numbers add up quickly. Another thing to keep in mind is that if you wash with hot water, up to 90% of the cost to wash those clothes is simply for heating the water. Only use hot water when necessary so you'll save on your electrical bill and reduce the impact on the water-energy nexus (a complex relationship between the production of electricity and water).
- In the kitchen, a water efficient dishwasher can save over 1,000 gallons per year. Keep in mind that 1,000 gallons per home may not seem significant but multiply that by a neighborhood and 1,000 gallons per home will add up to quite a lot very quickly.
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#### Conserving Water Outdoors and Reducing Waste:

- If you have a swimming pool, consider covering it when not in use. In the summer, a pool can lose as much as half an inch per day due to evaporation, which can add up to the equivalent of your pool's entire volume each summer. You could potentially save 10,000 – 20,000 gallons or more depending on how big your pool is.
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For more information on water conservation ideas visit the Southeast Texas Groundwater Conservation District's Website at: <https://segsd.org/>, or the Texas Water Development Board's site at: <https://www.twdb.texas.gov/conservation/>

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Conservation Corner

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# Conservation

## Water Conservation Tips

+	<a href="#">Turn Off That Light</a>
+	<a href="#">Drip Irrigation</a>
+	<a href="#">Winter Conservation Tips</a>
+	<a href="#">20 Ways to be Water Smart</a>
+	<a href="#">Outdoor Water Conservation Tips</a>
+	<a href="#">Water Conservation Tips 2016</a>
+	<a href="#">Summertime Water Saving</a>
+	<a href="#">Winter Conservation Tips</a>
+	<a href="#">How Not To Waste Water</a>
+	<a href="#">Every Drop Counts</a>

+	<b>Water Footprint - You're Using More Than You Think</b>
+	<b>Drought Preparedness - Conserve Now Before You Have To</b>
+	<b>Plan Ahead: Conserve Water - Reduce Summertime Waste</b>
-	<b><a href="#">Drought Preparedness - Reduce Wasteful Practices to Bank Water for Future Use</a></b>



## Texas Water Development Board



Water Conservation Tips  
 Conserving Water Outdoors  
 Conserving Water Indoors  
 TWBD Kids  
 Coloring Book



### Board Meetings

2nd Thursday of each month beginning at 10:00 AM unless otherwise noticed.

No Board meetings scheduled for August or December unless otherwise noticed.

Meetings are held at the  
 Jasper County Courthouse Annex Building  
 271 E. Lamar, Suite 202, 2nd Floor –  
 Emergence Operations Center Offices  
 Jasper, TX 75951

### Important links

- [Meeting and Hearing Notes](#)
- [Groundwater Management Area 14 Region I](#)
- [Water Planning Group](#)
- [Conservation](#)
- [Drought Information](#)
- [Newsletters](#)
- [Reports / DFCs](#)
- [Source Water Protection](#)
- [Understanding Texas Aquifers](#)





Summer 2024



**Board of Directors:**

- Olen Bean, President
- Bobby Rogers, Vice Pres.—Hardin
- Charles Zimmerman, Treasurer—Tyler
- Sam Ashworth, Director—Hardin
- Robb Starr, Director—Hardin
- Billy Ted Smith, Director—Jasper
- Steven Black, Director—Jasper
- Greg Kelley, Director—Jasper
- Thomas Hawthorne, Director—Newton
- Cody Jones, Director—Newton
- Rick Russler, Director—Tyler
- Open Seat—Newton
- Open Seat—Tyler

John Martin, General Manager  
John Stover, Esq., Counsel

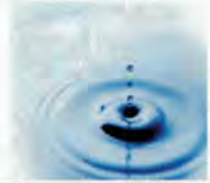
**Did you Know?**

Texas is the only state that considers groundwater a private property right.

**Inside this issue:**

Appointment of New Executive Committee	2
Drought Impacts on Static Water Levels	2 - 3
Drought Conditions	4
Seasonal Drought Outlook	4
Conservation Corner	5
Static Water Level Well Map	6
Spring 2024 Static Water Levels	7

# SETGCD WELL MONITOR



## DISTRICT LOSES ONE OF THE BEST FAMILY, FRIENDS, AND COLLEAGUES SADDENED BY UNEXPECTED LOSS

As you may know, the District lost its Board President, Roger Fussell, just after the start of the year. Roger was the senior member of the Board having been originally appointed to the District’s Board of Directors by the Hardin County Commissioner’s Court and Judge Caraway in 2006. Roger became the Vice President of the Board in the fall of 2009. In 2018 Walter Glenn retired from the Board as its President and the Jasper, Newton, Hardin, and Tyler County Commissioner’s Courts unanimously appointed Roger to be Mr. Glenn’s successor.



Roger was a consummate water industry professional, not only managing public water systems but a true supporter of all water management professionals. In addition to being on the District Board for 17 years, Roger was part of the Texas Water Utilities Association for 30+ years. He was always aware of the importance of those who were licensed and trained to manage our water resources and waste water treatment. We will miss not only his leadership, but his story telling as well, which always put a smile on your face.

## IMPACTS OF A DRY SUMMER OR PROLONGED DROUGHT ON LOCAL STATIC WATER LEVELS

One of the more important functions of the District is to monitor the static water levels of the Gulf Coast Aquifer System. The Gulf Coast Aquifer System is called such because it is comprised of several slightly different layers. From the surface down these layers are known as the Chicot, Evangeline, Burkeville Confining, Jasper, and Catahoula aquifers with the Chicot being the primarily used layer throughout most of the District. After all, why drill a well 1,000 feet deep or deeper to the Evangeline or Jasper layer when 100–500 feet down into the Chicot is often deep enough even for moderately high volume commercial wells.

The District has a network comprised of approximately 50 observation wells located throughout the four counties of the District that are visited twice a year to collect static water level data. The District has only been collecting the data since 2008, however in most instances our observation wells have data going back much further that was collected either by the Texas Water Development Board or the USGS. Some of the observation wells have data going back nearly 70 years.

Many people wonder and worry about what happens to our aquifer and the static water levels and how it might affect their water wells when we experi-

(Continued on page 2)



## Appointment of New Executive Committee

Olen Bean, having been the District's Vice President prior to the loss of Roger, lead the District until the Jasper, Newton, Hardin, and Tyler County Commissioner's Courts took official steps to appoint Mr. Bean as the Board President. Mr. Bean was originally appointed to the Board by the Newton County Commissioner's Court in 2011. After Mr. Bean became the Board President the full board took action at its March 14, 2024 meeting voting to move Bobby Rogers (formerly the District's Sec./Treas.) to the Vice President position and to make Director Zimmerman the District Secretary/Treasurer. Both of these gentlemen have been longstanding members of the Board, with Mr. Rogers serving since 2008 and Mr. Zimmerman since 2012.



Olen Bean, President



Bobby Rogers, Vice President

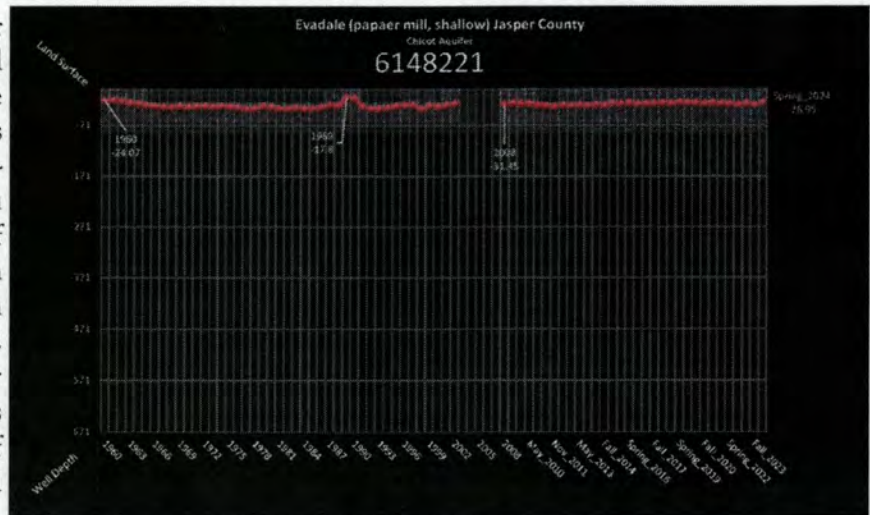


Charles Zimmerman, Sec./Treas.

### Continued from page 1—Impacts of Drought on Local Static Water Levels

ence drought conditions, as we did in 2023 or the prolong 2010–2012 drought. Fortunately for us, we live in an area that not only has a healthy aquifer that has not been over taxed, we also have the luxury of 3 river systems, the two largest reservoirs in the state, and an extremely healthy annual average rainfall. These factors combine to keep our water levels relatively stable even through periods of extended drought.

As you can see from the graph for Well 6148221, the static water level has remained relatively stable for the 60 years of data shown. The well is 671 feet deep and as you can see fluctuates only nominally. When you take into consideration the depth of the well and the water column, which averages about 640 feet in depth, even during the prolonged 2010–2012 drought, the water level never dropped below -35.4 feet, which was a change in the water column of about 1% from the pre-drought level taken in May of 2009.



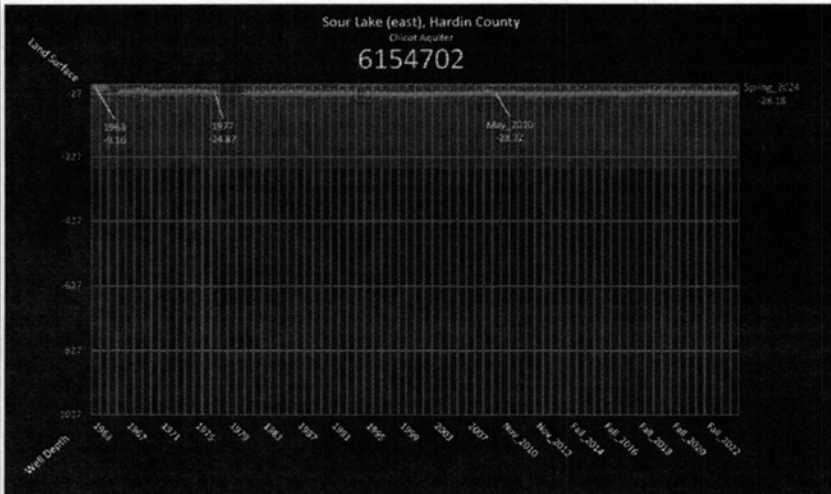
Another very interesting fact about Well 6148221 is that it is located just across the street from the Evadale papermill which uses a combined groundwater and surface water amount exceeding 10s of millions of gallons a day (and has been doing so since the 1950s).

Continued on page 3



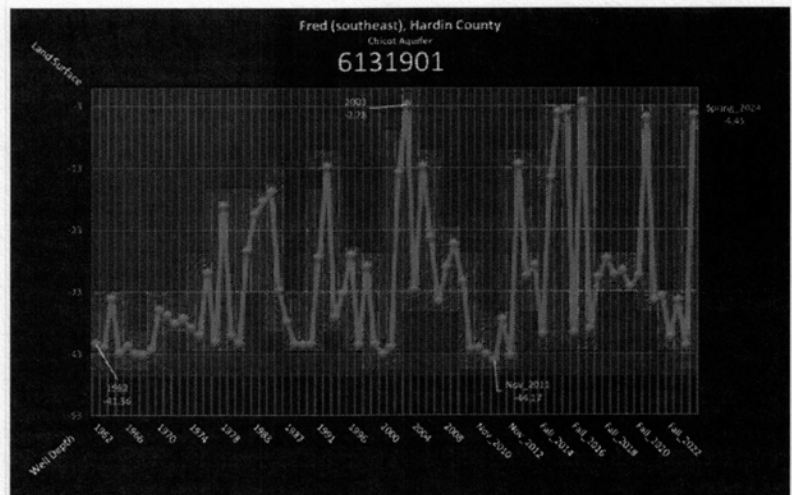
Continued from page 2—Impacts of Drought on Local Static Water Levels

Another well with a long history of water level readings is Well 6154702 which is located on Hwy. 105 in Sour Lake. This well has regular recording going back 60 years to 1963. The well is a little deeper and further south in the District putting this well in the Evangeline layer of the Gulf Coast Aquifer. The well was drilled in 1951 with the earliest know water level having been taken in 1959 which indicates that it was 5.57 feet below the surface. Between 1959 and 1966, for unknown reasons, there was a moderate drop in the static water level to 23.94 below the surface but it has remained extremely stable since with the latest measurement being 28.18 feet below the surface. In the case of this



well, the drop in static water level to approximately -32 feet during the 2010–2012 drought was approximately a 0.5% drop in the water column of this well.

Most wells that have 100 feet or more of depth to them show little impact from short to mid length droughts, but shallow wells can be a completely different story. Shallow wells are very susceptible to current weather conditions and during drought periods may see drastic drops in static water levels. Conversely, when we are experiencing wet conditions, those same wells can recover water just as quickly as they have lost it. This is clearly visualized by the graph for Well 6131901, which is located in northeast Hardin County. This well was drilled in 1940 and is the typical hand dug well of that era. This well is only 53 feet deep and is no where near as stable as the wells that are deeper. The change from the fall 2023 measurement to the spring 2024 measurement was an astounding 37 foot increase in the water level. This well had a similar recovery after the 2010–2012 drought with nearly a 31 foot recovery. Another interesting element of this well that is the fact that even during prolonged droughts the well maintained approximately 10 feet of water in the well. Also interesting is that the earliest water level recorded for this well was taken in April of 1942 and was -38.79 feet, far lower than our latest measurement.



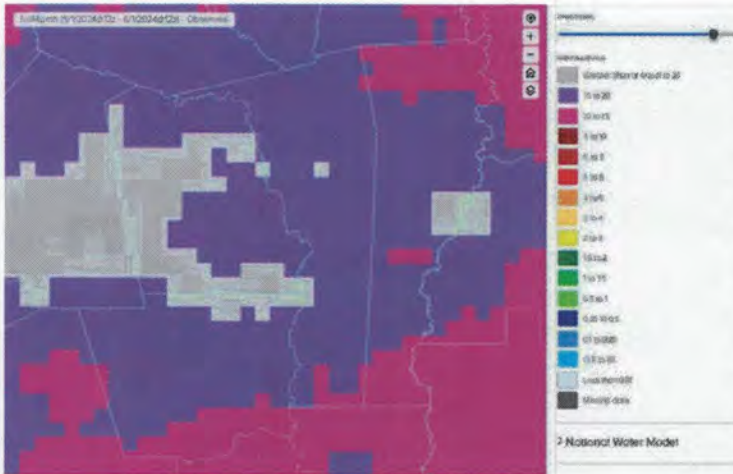
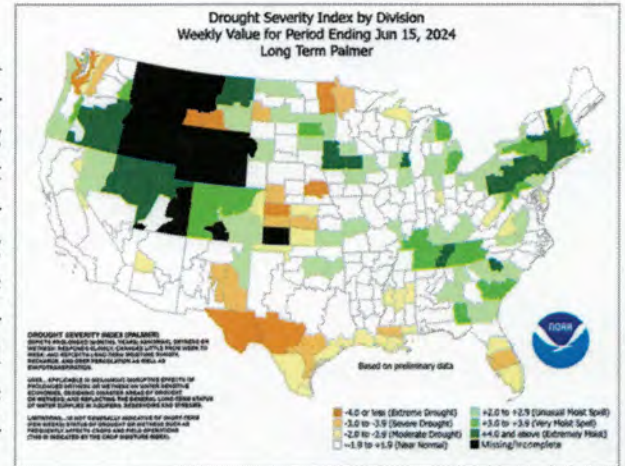
Will wells go dry during droughts, yes – of course wells will go dry from time to time; however, we are fortunate to live in an area that hasn't seen its groundwater resources overused and has a groundwater district in place to manage the aquifer. I once heard a local water professional say he thought that our area of the Gulf Coast Aquifer System was drought proof. While I don't want to temp fate, I do think it is safe to say that the Gulf Coast Aquifer System in our area is relatively drought resistant.

For more static water level information see pages 6 and 7.



## DROUGHT CONDITIONS

It's a bit difficult sometimes to understand drought maps. A good example of this is the current U.S. Palmer Drought Severity Index (PDSI) which shows our area to be experiencing near normal conditions; however the majority of the District has already received nearly its annual average amount of rainfall for the year, with one rain gauge in Tyler County reading over 70 inches of rainfall since January 1. Needless to say, we have improved significantly from last year when we were experiencing D4 Exceptional Drought Conditions for several consecutive months. The D4 designation is the most severe conditions the U.S. Drought Monitor gives, and it is not often seen here in East Texas.



As you can see from the National Water Prediction Services map (left), the rainfall totals for May alone ranged from 10 to well over 20 inches, with the majority of the District having received between 15 and 22 inches for May. Those May totals combined with several other wet months this year have some areas of the District already reaching our annual average of 52–54 inches of rainfall.

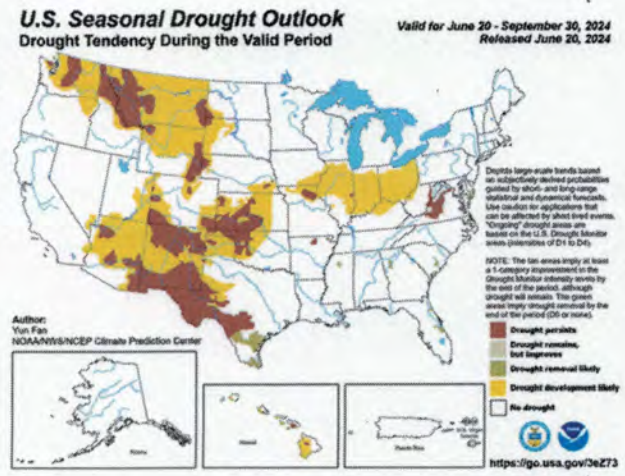
How the remainder of the year will play out with regard to rainfall is, of course, unknown. On one hand we are expecting an active hurricane season which can easily drop a “little” extra rain on the area (anyone recall Hurricane

Harvey?) but the prevailing weather pattern is expected to revert to a La Nina pattern which typically means hotter and drier weather like we saw last year.

## SEASONAL DROUGHT OUTLOOK

As you can see from the June 20, 2024, U.S. Seasonal Drought Outlook map (right), here in east Texas we are not expected to develop any drought conditions in the next several months. The second half of the year may be interesting with the predicted active hurricane season and the La Nina weather pattern expected to return. This makes it difficult to predict what our precipitation totals will be for the year.

The Big Bend area has not been as fortunate as the eastern, and to a lesser degree the southern portions, of Texas and is experiencing moderate to extreme drought conditions according to the June 20, 2024 U.S. Drought Monitor (not pictured).





## Drought Preparedness—Reduce Wasteful Practices to Bank Water for Future Use

Conservation Corner

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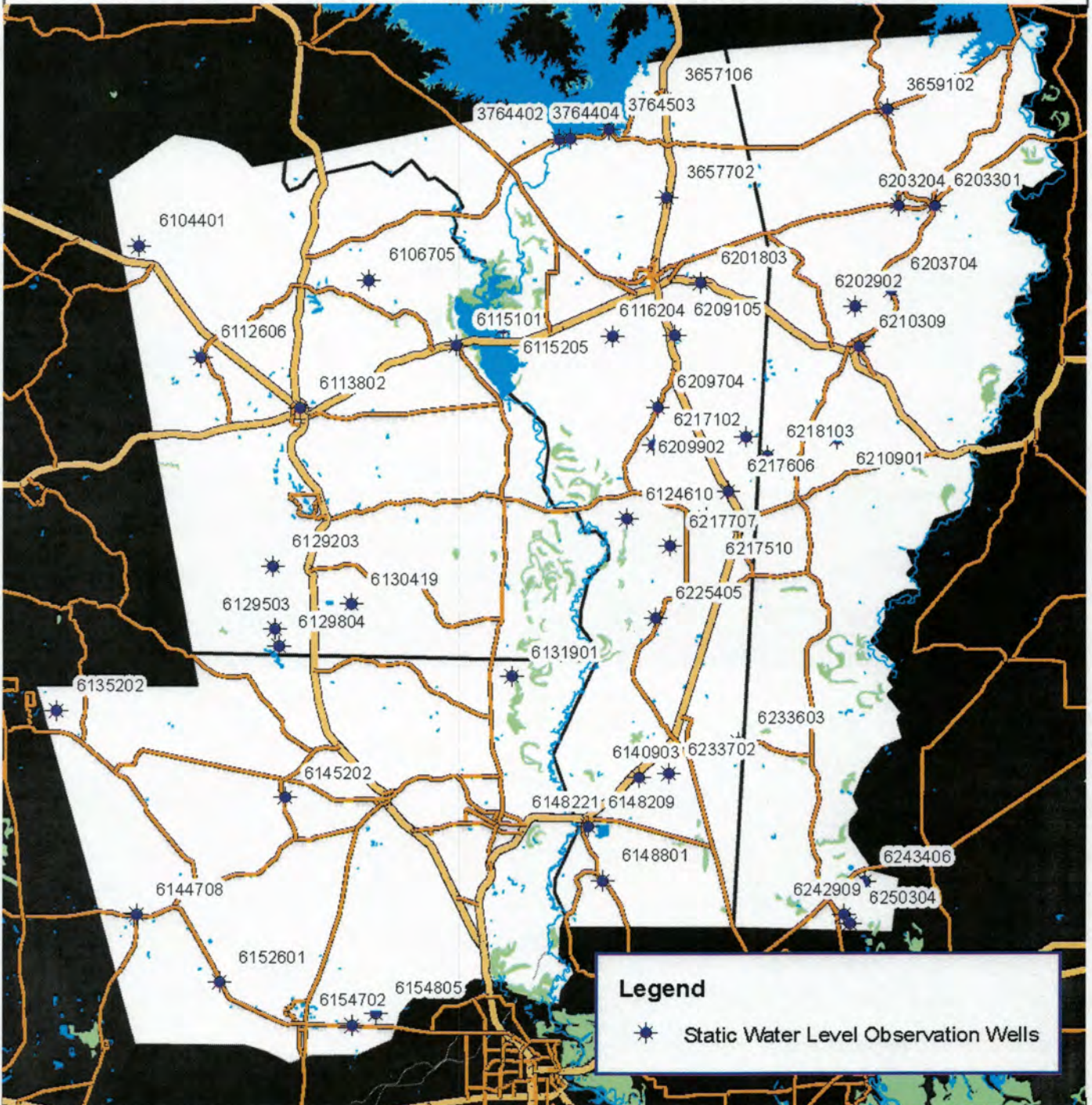
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- If you have a sprinkler system, keep it well maintained and keep an eye out for leaks.
- If you have a vegetable or flower garden consider a drip irrigation system. It will water your plants more efficiently and with less waste.
- Be conscientious when washing your vehicles at home. If you leave a hose running, you could use as much as 100 gallons or more washing your vehicle. Have a sprayer head on the hose to save water or consider a commercial car wash. A commercial car wash typically uses 35 – 70 gallons of water with newer high-tech facilities using as little as 15 gallons.

For more information on water conservation ideas visit the Southeast Texas Groundwater Conservation District's Website at: <https://setgcd.org/> or the Texas Water Development Board's site at: <https://www.twdb.texas.gov/conservation/>



# Static Water Level Observation Well Locations & State ID



## What Is A Static Water Level?

The Static Water Level is the distance from the surface of the ground down to the water table when a well is not being pumped. This is sometimes called the resting water level. For example, a static water level reading of -25 feet means that the distance from the ground down to the water table is 25 feet.

In the data on the following page, I have included a column indicating the amount of static water level change from the previous year. If the number is positive, it means that the water level has dropped in that particular well. If the change is a negative number, as most of them are, it means that the water level is higher than the previous year. Typically, large drops or rises are indicative of shallow wells



State Wel ID	County	Date Drilled	Well Depth	Early W.L. Reading / Year of W.L.		May_2009	Spring_2023	Spring_2024	1 year change
6131901	Hardin	1940	53	-38.79	1942	-25.35	-34.50	-4.45	30.05
6135202	Hardin	2003	363	-64	2003		-56.3	-56.87	-0.57
6144708	Hardin	1957	72	-24.12	1942	-24.21	-25.40	-26.15	-0.75
6145202	Hardin	2009	220	-12	2009		-7.95	-6.60	1.35
6152601	Hardin	1948	764	-21	1948	-29.67	-23.84	-24.59	-0.75
6154702	Hardin	1951	1027	-23.94	1966	-25.2	-27.22	-28.18	-0.96
6154805	Hardin	1998	618	-60	1998		-28.97	-30.2	-1.23
3657106	Jasper	1938	20	-8.7	1997	-4.69	-5.70	-4.90	0.80
3657702	Jasper	1994	378	-117.7	1997	-117.61	-116.02	-118.00	-1.98
3764402	Jasper	1962	300	-114.3	-114	-113.27	-109.07	-110.83	-1.76
3764404	Jasper	1982	260	-66	1982	-46.83	-44.82	-46.85	-2.03
3764503	Jasper	1981	260	-33.2	1997	-32.33	-31.59	-33.73	-2.14
6115205	Jasper	1984	442	39.96	1984	28.18	39.51	41.24	1.73
6116204	Jasper	1965	220	-51.7	1997	-51.61	-50.95	-50.86	0.09
6124610	Jasper	1998	200	-33.16	2008	-30.59	-31.84	-30.34	1.50
6148209	Jasper	1947	1295	-66.79	1956	-177.09	-199.98	-189.45	10.53
6148221	Jasper	pre 1956	671	-22.47	1956	-28.92	-28.50	-26.95	1.55
6148801	Jasper	1903	1084	-6.85	1960	-5.38	-7.90	-4.02	3.88
6201803	Jasper	1995	884	-85.1	1997	-85.54	-82.85	-82.85	0.00
6209105	Jasper	1967	15	-4.15	1997	-1.38	-1.88	-0.55	1.33
6209704	Jasper	1952	40	-35.84	1997	-34.4	-36.40	-34.18	2.22
6209902	Jasper	pre 1997	40	22.8	1997	-16.13	-18.98	-16.02	2.96
6217102	Jasper	1950	80	-54.85	1997	-80.00	-80.00	-52.68	27.32
6217510	Jasper	pre 1997	140	-15.9	1997	-14.7	-15.23	-17.57	-2.34
6217606	Jasper	1964	70	-7.8	1997	-1.09	-2.25	-0.85	1.40
6217707	Jasper	1950	28	-9.35	1997	-4.15		-2.37	-2.37
6225405	Jasper	1983	120	-58	1997	-57.5	-56.60	-58.12	-1.52
6233603	Jasper	1940	18	-14.7	1997	-10.92	-10.50	-5.77	4.73
6140903	Jasper	2002	802	-119	2002	New to Program		-116.85	
6233702	Jasper	1995	540	-65	1995	New to Program		-64.32	
3659102	Newton	2000	170	-98.76	2009		-93.09	-97.92	-4.83
6202902	Newton	pre 1999	24	-13.03	1999	-11.65	-7.86	-4.30	3.56
6203204	Newton	1979	645	-65.4	1994	-68.15	-66.40	-67.40	-1.00
6203301	Newton	1964	1050	-38.75	1992	-45.42	-36.53	-36.30	0.23
6203704	Newton	1989	640	-169	1989	-172.78	-171.68	-173.31	-1.63
6210309	Newton	1964	1218	-61.38	1993	-65.93	-63.25	-64.40	-1.15
6210901	Newton	1951	300	-13.68	1964	-16.48	-16.22	-16.50	-0.28
6218103	Newton	1980	208	-32.3	1992	-33.99	-34.65	-34.28	0.37
6242909	Newton	1981	590	-39.15	1992	-36.03	-36.80	-37.50	-0.70
6243406	Newton	1981	598	-30	1981	-26.29	-25.18	-25.60	-0.42
6250304	Newton	1983	420	-40	1989	-35.58	-36.65	-37.44	-0.79
6104401	Tyler	1935	860	-169.39	1960	-168.71	-164.37	-159.75	4.62
6106705	Tyler	1984	288	-145	1984		-148.02	-148.05	-0.03
6112606	Tyler	1960	250	-121.64	1964		-123.28	-123.45	-0.17
6113802	Tyler	1951	582	-155	1953	-174.13	-163.25	-167.70	-4.45
6115101	Tyler	1964	68	-31.66	1964	-33.09	-32.62	-32.96	-0.34
6129203	Tyler	pre 1953	30	-22.73	1953	-15.38	-15.25	-13.28	1.97
6129503	Tyler	2008	250	-20	2008		-19.33	-16.12	3.21
6130419	Tyler	pre 1965	22	-13.01	1965	-3.62	-4.02	-2.05	1.97
6129804	Tyler	1972	580	-22.92	2003	-31.70	-26.73	-29.15	-2.42



## Southeast Texas Groundwater Conservation District

P.O. Box 1407, Jasper, TX 75951

(409) 383-1577, [www.setgcd.org](http://www.setgcd.org)

«Suffix» «FIRST NAME» «LAST NAME»  
«ADDRESS 1»  
«CITY», «STATE» «ZIP»

*Did you know that the Gulf Coast Aquifer is also known as the Coastal Lowlands Aquifer System. Also, it is not confined to the State of Texas. It extends from the Texas/Mexico border all the way over to the Florida Panhandle.*



### CALENDAR OF EVENTS

July 4, 2024	Independence Day – District office closed
July 11, 2024	SETGCD – Regular meeting of the Board, in Jasper, TX
August 13, 2015	SETGCD – No Regular Meeting
September 2, 2024	Labor Day – District office closed
September 12, 2024	SETGCD – Regular meeting of the Board, in Jasper, TX
October 10, 2024	SETGCD – Regular meeting of the Board, in Jasper, TX
October 14, 2024	Columbus Day – District office closed
November 11, 2024	Veteran’s Day – District office closed
November 14, 2024	SETGCD – Regular meeting of the Board, in Jasper, TX
Nov. 28 & 29, 2024	Thanksgiving – District office closed
Dec. 25 & 26, 2024	Christmas – District office closed

### TEXAS GCD FACTS

- The first GCD was the High Plains Underground Water Conservation District formed in 1951.
- The smallest GCD is Red Sands at only 114 square miles.
- The largest GCD is High Plains at over 12,000 square miles.
- The Southeast Texas GCD is approximately 2,749 square miles.
- The western part of Texas is one of the driest areas in the U.S.
- The Eastern part of Texas is one of the wettest areas in the U.S.
- Annual average U.S. precipitation is approximately 30 inches.
- The annual average precipitation for the Southeast Texas GCD is 52–54 inches.



# GOAL 4.8

## ADDRESSING IN A QUANTITATIVE MANNER THE DESIRED FUTURE CONDITIONS

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### Objective

1. *The District will monitor groundwater conditions within the District by measuring the static water level in at least fifteen (15) monitor wells annually.*

### Performance Standard

1. *The recorded static water levels of the fifteen (15) monitor wells will be included in the District's Annual Report.*
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- 

### OBJECTIVE 1

Objective 1 has been met by the monitoring of approximately fifty (50) wells on two separate occasions in 2024 (Spring and Fall – reports attached). The static water level data collected is shared with the Texas Water Development Board, providing the agency with current data for groundwater modeling and planning purposes. The Texas Water Development Board continues to maintain a transducer in monitor well 6148209 (located in Jasper County) and well 6203704 (located in Newton County). In 2024 the Texas Water Development Board, in conjunction with the District, equipped two additional wells with transducers: well 6113802 (located in Tyler County) and well 6154805 (located in Hardin County). These transducers allow for static water levels to be obtained from these wells via the internet with data that is updated daily and can be found at:

<http://www.twdb.state.tx.us/gwrd/waterlevels/waterlevels.html>.

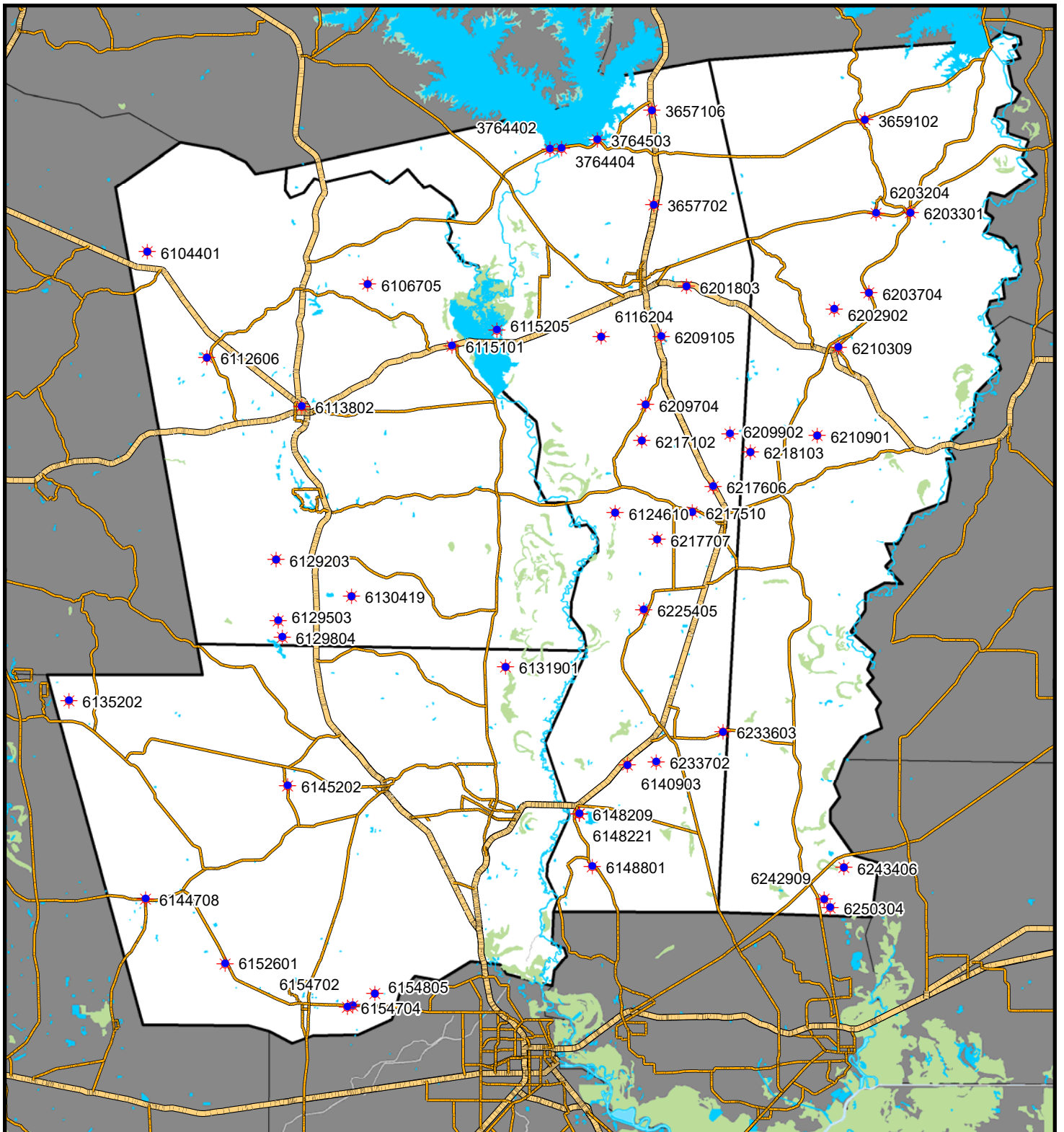
Additionally, the District continues joint planning within Groundwater Management Area 14 (“GMA 14”) to set, as statutorily required, the Desired Future Conditions of the GMA (our current DFCs are based on a sixty-year groundwater planning period). The Groundwater Availability Models, Modeled Available Groundwater, and associated data that is compiled in this process will be used by the District in its efforts to address the future conditions of the Gulf Coast Aquifer in the Southeast Texas Groundwater Conservation District.

A report prepared by James Beach, P.G. (Advanced Groundwater Solutions / Lone Star GCD Consultant) titled “2023 Artesian Head Change Update” and presented at the February 29, 2024 GMA 14 meeting is included. Among other items included in this report is a graph (page 15) that illustrates Percent Median Available Drawdown Remaining by

# GOAL 4.8

County. Using the static water levels recorded by the District, the graph illustrates that our District is well within the Desired Future Condition of 70 percent median available drawdown remaining in 2080 and is consistent with the goals of the 2021 Desired Future Condition statement.

# Water Level Observation Wells - 2024



	<p><b>Drafted By:</b> John Martin, Southeast Texas GCD</p> <p><b>Date:</b> February 5, 2025</p>	

# SPRING 2024

State Well ID No.	County	Date	Current Depth from MP	MP	Current Depth from Land Surface	Method	Remarks	Technician
3657106	Jasper	5/7/2024	-8.90	4.00	-4.90	E-Line		John Martin
3657702	Jasper	5/7/2024	-119.40	1.40	-118.00	Steel Tape		John Martin
3764402	Jasper	5/7/2024	-112.33	1.50	-110.83	E-Line		John Martin
3764404	Jasper	5/7/2024	-48.85	2.00	-46.85	Steel Tape		John Martin
3764503	Jasper	5/7/2024	-36.45	3.08	-33.37	E-Line		John Martin
6108101	Jasper						Plugged by landowner	John Martin
6115205	Jasper	5/22/2024	38.69	2.55	41.24	Pressure Gauge	16.75 PSI	John Martin
6116204	Jasper	5/7/2024	-54.36	3.50	-50.86	E-Line		John Martin
6124504	Jasper		0.00	0.00	0.00			John Martin
6124610	Jasper	5/7/2024	-31.00	0.66	-30.34	E-Line		John Martin
6148221	Jasper	5/15/2024	-27.95	1.00	-26.95	E-Line		John Martin
6148209	Jasper	5/15/2024	-189.45	0.00	-189.45		TWDB Satellite uplink	John Martin
6148801	Jasper	5/15/2024	-5.02	1.00	-4.02	E-Line		John Martin
6201105	Jasper				0.00			
6201701	Jasper							John Martin
6201803	Jasper	5/22/2024	-86.35	3.50	-82.85	Steel Tape		John Martin
6209105	Jasper	5/15/2024	-2.55	2.00	-0.55	E-Line		John Martin
6209704	Jasper	5/15/2024	-36.18	2.00	-34.18	E-Line		John Martin
6209902	Jasper	5/9/2024	-18.52	2.50	-16.02	E-Line		John Martin
6217102	Jasper	5/15/2024	-53.68	1.00	-52.68	E-Line		John Martin
6217510	Jasper	5/7/2024	-18.07	0.50	-17.57	E-Line		John Martin
6217606	Jasper	5/7/2024	-3.35	2.50	-0.85	E-Line		John Martin
6217707	Jasper	5/7/2024	-3.87	1.50	-2.37	E-Line		John Martin
6225405	Jasper	5/7/2024	-59.12	1.00	-58.12	E-Line		John Martin
6233603	Jasper	5/7/2024	-6.77	1.00	-5.77	E-Line		John Martin
6233702	Jasper	5/20/2024	-67.52	3.20	-64.32	E-Line	New to program	John Martin
6140903	Jasper	5/30/2024	-119.55	2.70	-116.85	E-Line	New to program	John Martin
6131901	Hardin	5/21/2024	-7.85	3.40	-4.45	E-Line		John Martin
6135202	Hardin	5/23/2024	-59.47	2.60	-56.87	Steel Tape		
6144708	Hardin	5/23/2024	-26.15	0.00	-26.15	E-Line		John Martin
6145202	Hardin	5/23/2024	-8.60	2.00	-6.60	E-Line		John Martin
6146202	Hardin			0.00	0.00	E-Line	Closed	John Martin
6152601	Hardin	5/23/2024	-25.25	0.66	-24.59	Steel Tape		John Martin
6154702	Hardin	5/23/2024	-29.08	0.90	-28.18	Steel Tape		John Martin
6154805	Hardin	5/23/2024	-32.30	2.10	-30.20	E-Line		John Martin



# SPRING 2024

6104401	Tyler	5/9/2024	-159.75	0.00	-159.75	E-Line		John Martin
6106705	Tyler	5/21/2024	-150.25	2.20	-148.05	Steel Tape		John Martin
6112606	Tyler	5/9/2024	-123.75	0.30	-123.45	E-Line		John Martin
6113802	Tyler	5/21/2024	-169.20	1.50	-167.70	E-Line		John Martin
6115101	Tyler	5/21/2024	-33.46	0.50	-32.96	E-Line		John Martin
6115501	Tyler			2.00	2.00		Plugged	John Martin
6115703	Tyler			0.00			no longer in program	John Martin
6121110	Tyler			0.33			recommending closure	John Martin
6129203	Tyler	5/21/2024	-16.28	3.00	-13.28	E-Line		John Martin
6129503	Tyler	5/21/2024	-18.62	2.50	-16.12	E-Line		John Martin
6129804	Tyler	5/23/2024	-30.70	1.55	-29.15	Steel Tape		John Martin
6130419	Tyler	5/21/2024	-5.55	3.50	-2.05	E-Line		John Martin
3659102	Newton	5/8/2024	-100.25	2.33	-97.92	E-Line		John Martin
6202902	Newton	5/8/2024	-5.95	1.65	-4.30	E-Line		John Martin
6203204	Newton	5/8/2024	-69.10	1.70	-67.40	Steel Tape		John Martin
6203301	Newton	5/8/2024	-38.60	2.30	-36.30	E-Line		John Martin
6203704	Newton	5/8/2024	-173.31	0.00	-173.31		TWDB Uplink	John Martin
6210309	Newton	5/8/2024	-66.80	2.40	-64.40	Steel Tape	New MP	John Martin
6210901	Newton	5/16/2024	-17.00	0.50	-16.50	E-Line		John Martin
6218103	Newton	5/9/2024	-35.58	1.25	-34.33	E-Line		John Martin
6242909	Newton	5/8/2024	-39.10	1.60	-37.50	E-Line		John Martin
6243406	Newton	5/8/2024	-27.60	2.00	-25.60	E-Line		John Martin
6250304	Newton	5/8/2024	-38.44	1.00	-37.44	E-Line		John Martin

# FALL 2024

State Well ID No.	County	Date	Current Depth from MP	MP	Current Depth from Land Surface	Method	Remarks	Technician
3657106	Jasper	11/6/2024	-12.90	4.00	-8.90	E-Line		John Martin
3657702	Jasper			1.40			Unavailable	John Martin
3764402	Jasper	11/6/2024	-111.92	1.50	-110.42	E-Line		John Martin
3764404	Jasper	11/6/2024	-48.93	2.00	-46.93	Steel Tape		John Martin
3764503	Jasper	11/6/2024	-38.10	3.08	-35.02	E-Line		John Martin
6115205	Jasper	11/6/2024	37.53	2.55	40.08	Pressure Gauge	16.25 PSI	John Martin
6116204	Jasper	11/6/2024	-55.28	3.50	-51.78	E-Line		John Martin
6124504	Jasper		0.00	0.00	0.00			John Martin
6124610	Jasper	11/7/2024	-31.92	0.66	-31.26	E-Line		John Martin
6148221	Jasper	11/13/2024	-29.43	1.00	-28.43	E-Line		John Martin
6148209	Jasper	11/13/2024	-191.51	0.00	-191.51		TWDB Satellite uplink	John Martin
6148801	Jasper	11/13/2024	-10.12	1.00	-9.12	E-Line		John Martin
6201105	Jasper				0.00			
6201701	Jasper							John Martin
6201803	Jasper	11/7/2024	-86.70	3.50	-83.20	Steel Tape		John Martin
6209105	Jasper	11/6/2024	-5.38	2.00	-3.38	E-Line		John Martin
6209704	Jasper	11/7/2024	-36.45	2.00	-34.45	E-Line		John Martin
6209902	Jasper	11/13/2024	-24.60	2.50	-22.10	E-Line		John Martin
6217102	Jasper	11/7/2024	Dry	1.00	Dry	E-Line		John Martin
6217510	Jasper	11/7/2024	-19.10	0.50	-18.60	E-Line		John Martin
6217606	Jasper	11/13/2024	-8.65	2.50	-6.15	E-Line		John Martin
6217707	Jasper	5/7/2024	-3.87	1.50	-2.37	E-Line	Unavailable	John Martin
6225405	Jasper	11/13/2024	-59.45	1.00	-58.45	E-Line		John Martin
6233603	Jasper	11/13/2024	-14.27	1.00	-13.27	E-Line	aking pressure tank / well runni	John Martin
6233702	Jasper	11/14/2024	-65.65	3.20	-62.45	E-Line		John Martin
6140903	Jasper	11/14/2024	-118.90	2.70	-116.20	E-Line		John Martin
6131901	Hardin	11/7/2024	-43.75	3.40	-40.35	E-Line		John Martin
6135202	Hardin	11/21/2024	-59.95	2.60	-57.35	Steel Tape		
6144708	Hardin	11/21/2024	-26.88	0.00	-26.88	E-Line		John Martin
6145202	Hardin	11/21/2024	-13.00	2.00	-11.00	E-Line		John Martin
6146202	Hardin			0.00	0.00	E-Line	Closed	John Martin
6152601	Hardin	11/21/2024	-27.80	0.66	-27.14	Steel Tape		John Martin
6154702	Hardin	11/21/2024	-29.95	0.90	-29.05	Steel Tape		John Martin
6154805	Hardin	11/21/2024	-34.65	2.10	-32.55	E-Line		John Martin
6154704	Hardin	11/21/2024	-35.88	3.00	-32.88	E-Line	New to program	

# FALL 2024

6104401	Tyler	11/7/2024	-159.88	0.00	-159.88	E-Line		John Martin
6106705	Tyler	12/9/2024	-150.55	2.20	-148.35	Steel Tape		John Martin
6112606	Tyler	11/7/2024	-124.17	0.30	-123.87	E-Line		John Martin
6113802	Tyler	12/9/2024	-166.75	1.50	-165.25	E-Line		John Martin
6115101	Tyler	12/9/2024	-33.65	0.50	-33.15	E-Line		John Martin
6115501	Tyler			2.00	2.00		Plugged	John Martin
6115703	Tyler			0.00			no longer in program	John Martin
6121110	Tyler			0.33			recommending closure	John Martin
6129203	Tyler	11/7/2024	-26.00	3.00	-23.00	E-Line		John Martin
6129503	Tyler	11/7/2024	-26.05	2.50	-23.55	E-Line		John Martin
6129804	Tyler	11/21/2024	-31.78	1.55	-30.23	Steel Tape		John Martin
6130419	Tyler	11/7/2024	-13.55	3.50	-10.05	E-Line		John Martin
3659102	Newton	11/11/2024	-96.91	2.33	-94.58	E-Line		John Martin
6202902	Newton	11/11/2024	-13.80	1.65	-12.15	E-Line		John Martin
6203204	Newton	11/11/2024	-68.90	2.30	-66.60	Steel Tape	New MP	John Martin
6203301	Newton	11/11/2024	-39.50	2.30	-37.20	E-Line		John Martin
6203704	Newton	11/12/2024	-173.70	0.00	-173.70		TWDB Uplink	John Martin
6210309	Newton	5/8/2024	-66.80	2.40	-64.40	Steel Tape		John Martin
6210901	Newton	11/11/2024	-17.76	0.50	-17.26	E-Line		John Martin
6218103	Newton	11/13/2024	-38.85	1.25	-37.60	E-Line		John Martin
6242909	Newton	10/24/2024	-40.20	1.60	-38.60	E-Line		John Martin
6243406	Newton	10/24/2024	-29.57	2.00	-27.57	E-Line		John Martin
6250304	Newton	10/24/2024	-39.45	1.00	-38.45	E-Line		John Martin

# Lone Star Groundwater Conservation District

**2023 ARTESIAN  
HEAD CHANGE  
UPDATE**

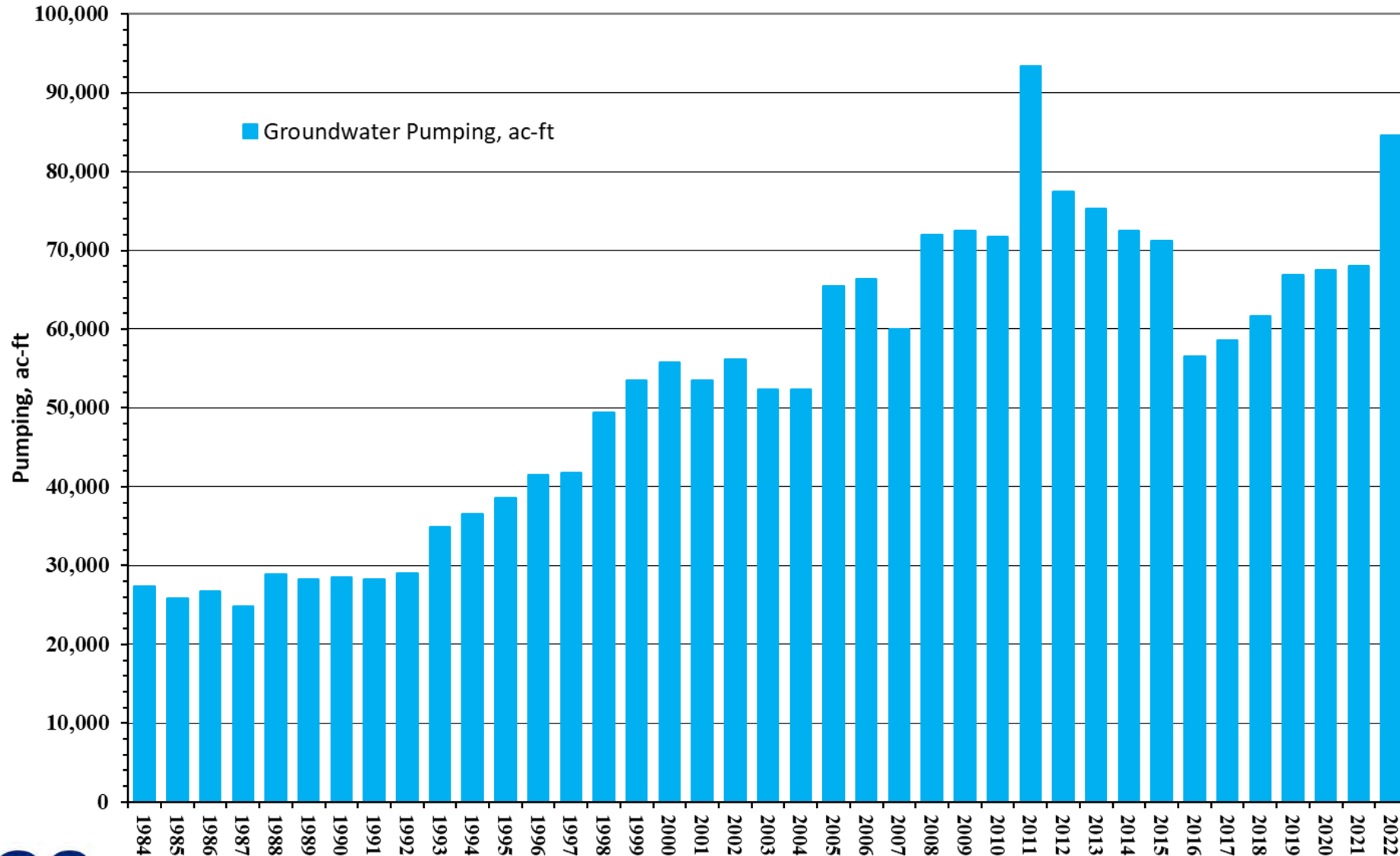
FEBRUARY 13, 2024



# OVERVIEW

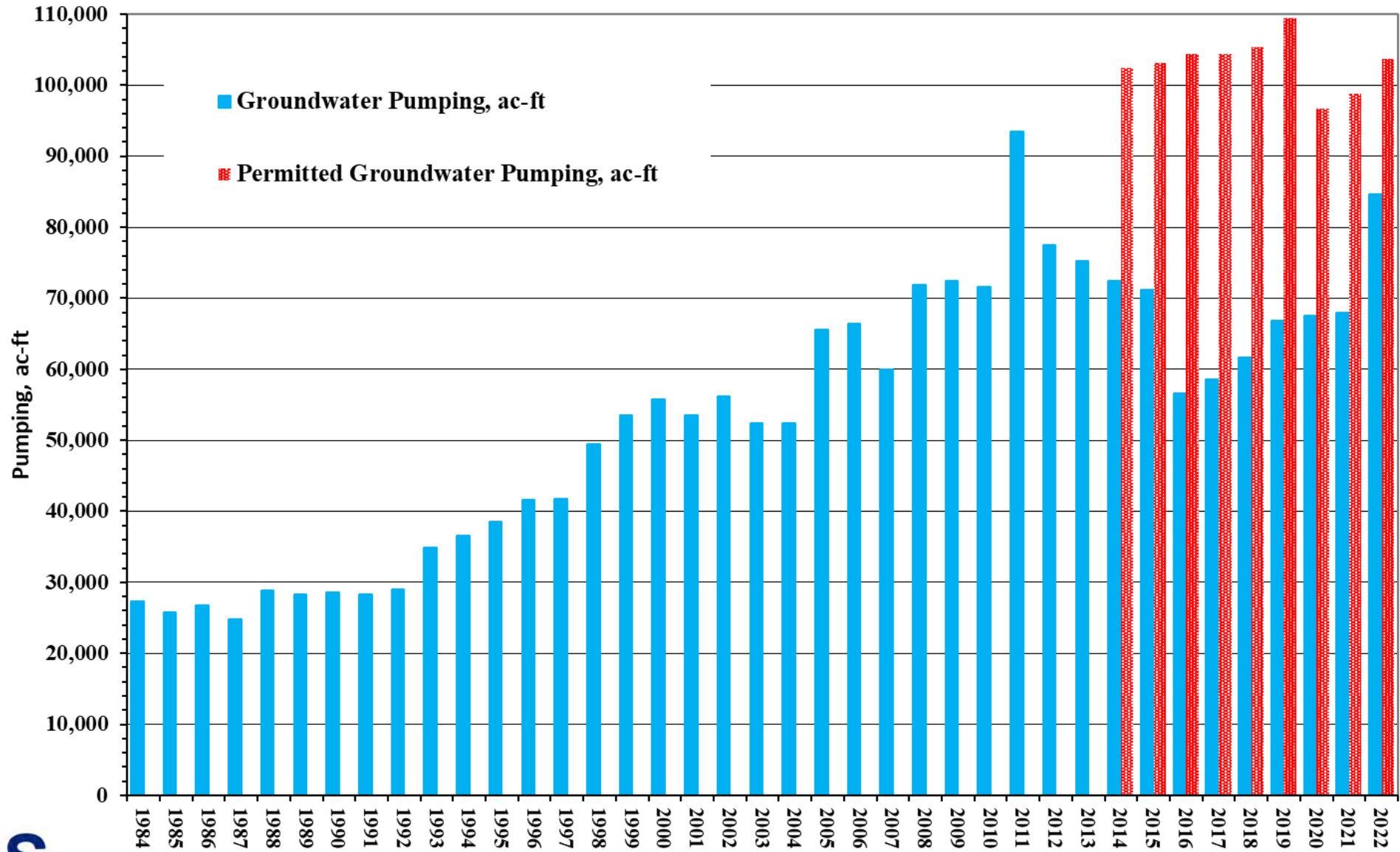
- Historical Groundwater Pumping in Montgomery County
- Update on Artesian Head Change in Montgomery County
  - Historical Hydrographs
  - Geographic locations of Artesian Head Change
- Assessment of Artesian Head Change
  - Available Water Level Data from the TWDB and USGS
    - ❖ Wells have measured data from both 2009 and 2023
      - Montgomery County
      - GMA 14
- Discussion of another approach comparing measured and simulated drawdowns within GMA 14

# HISTORICAL MONTGOMERY COUNTY PUMPING



2021 - 2022 Change in Pumping: ~24% Increase  
 2021: 67,998 ac-ft  
 2022: 84,600 ac-ft

\*Combined Pumping from the Chicot, Evangeline, Jasper and Catahoula Aquifers

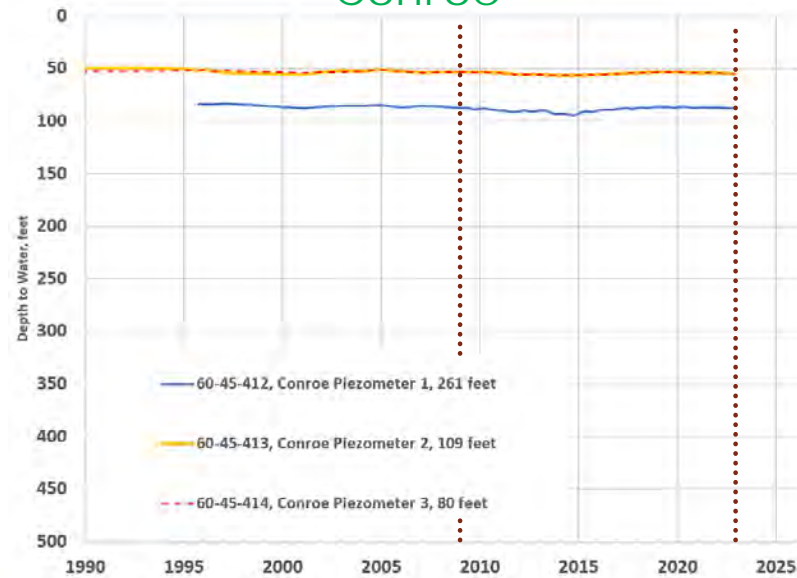


\*Combined Pumping from the Chicot, Evangeline, Jasper and Catahoula Aquifers

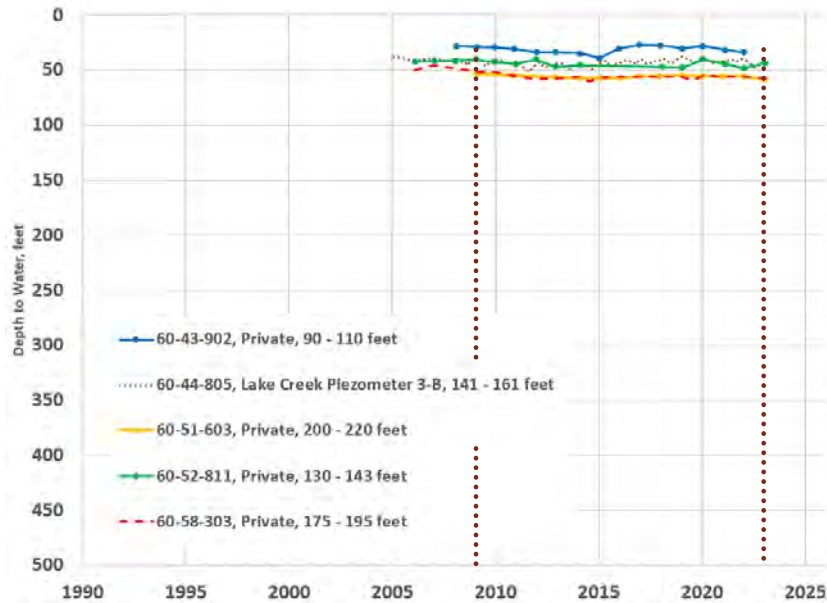
Source: TWDB and LSGCD

# CHICOT AQUIFER HYDROGRAPHS

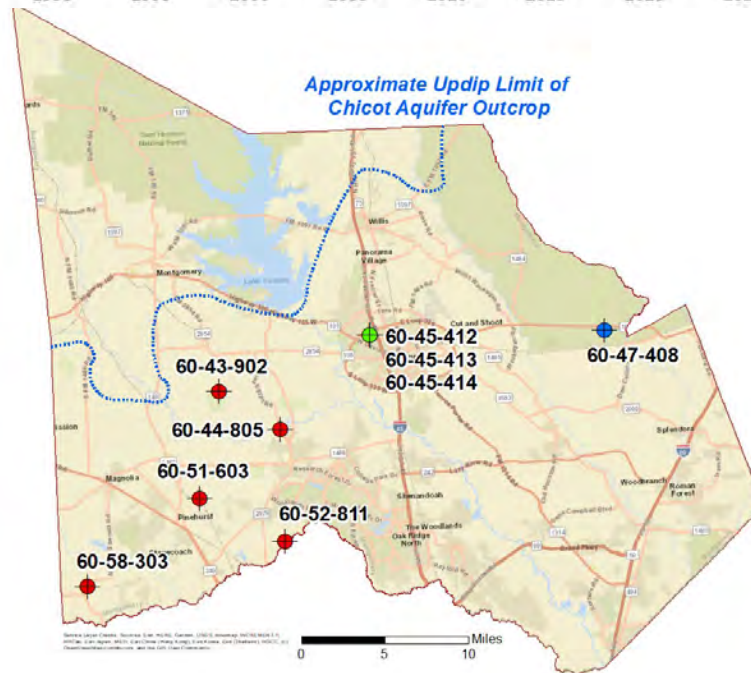
## Conroe



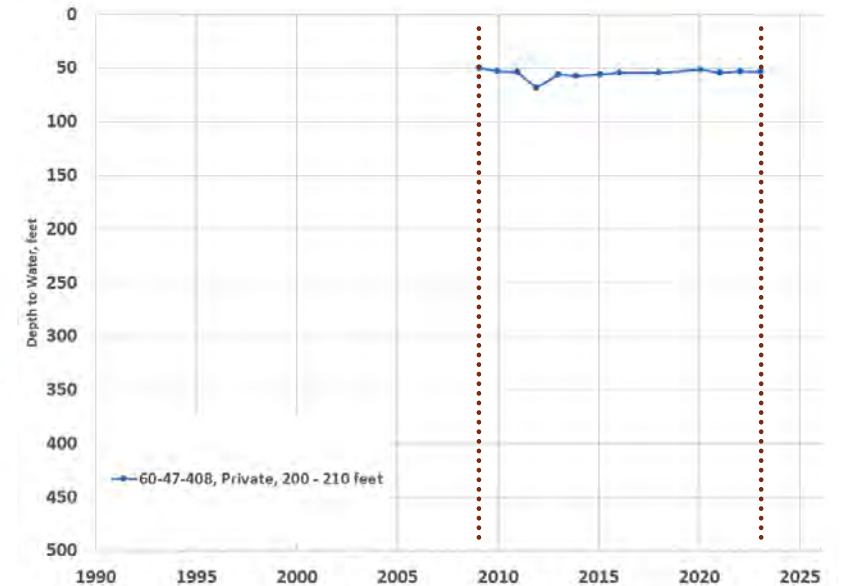
## Southwest



## Approximate Updip Limit of Chicot Aquifer Outcrop

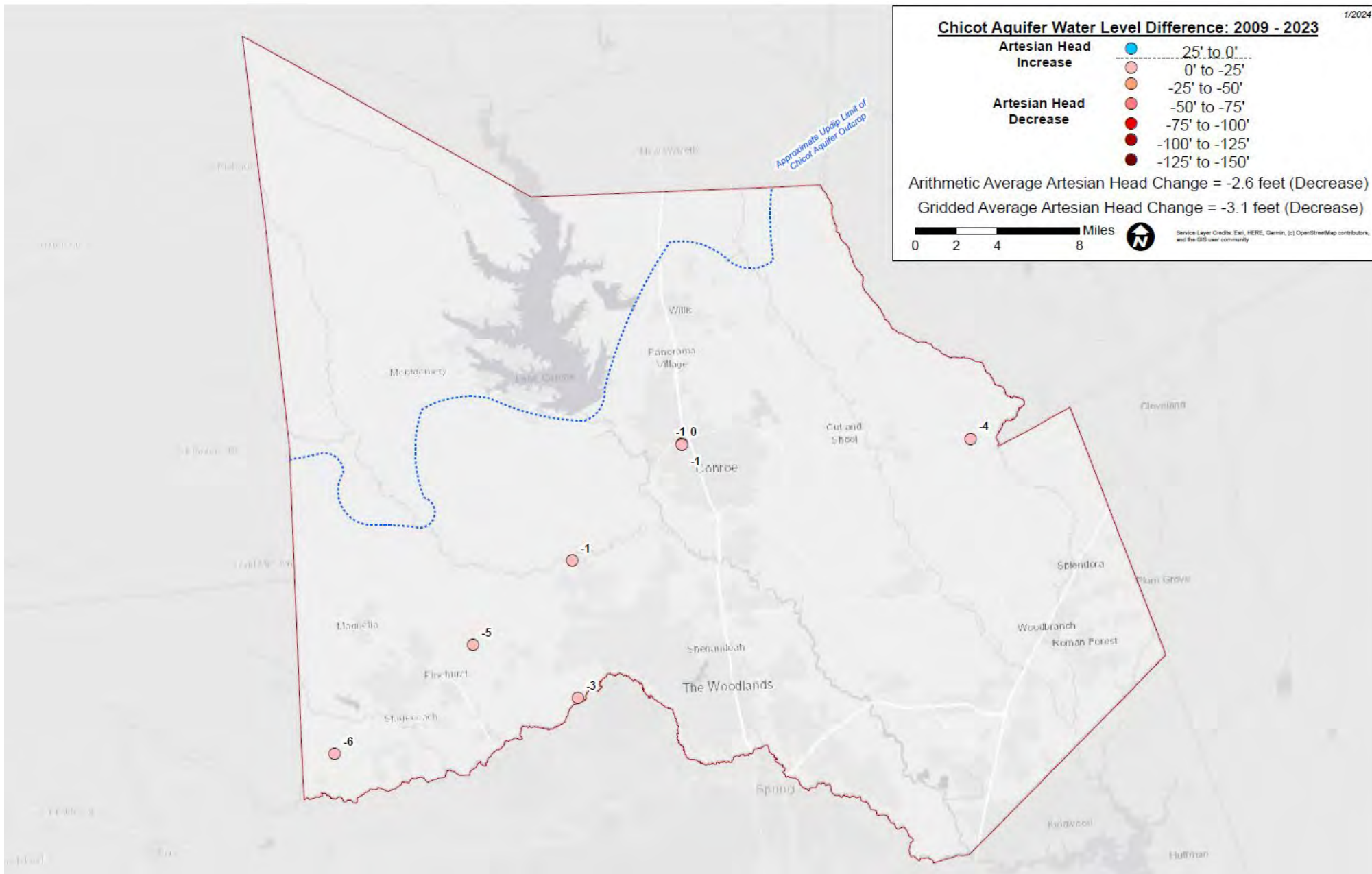


## East



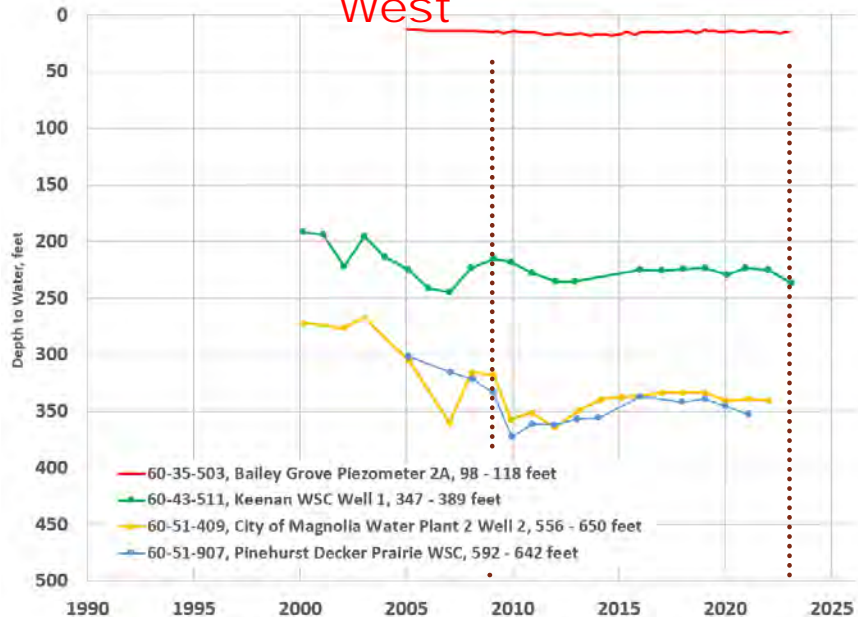


# 2009 – 2023 CHICOT AQUIFER CHANGE IN ARTESIAN HEAD

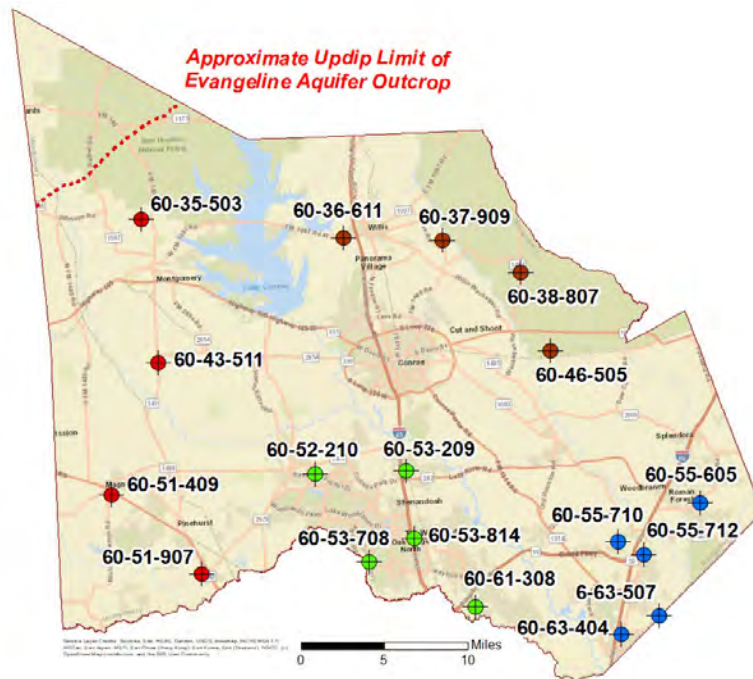
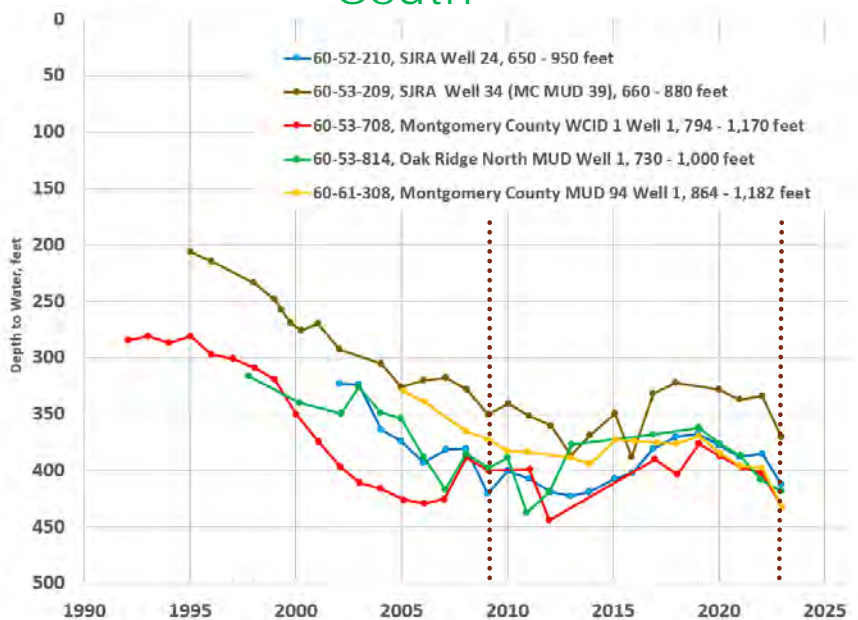


# EVANGELINE AQUIFER HYDROGRAPHS (2023)

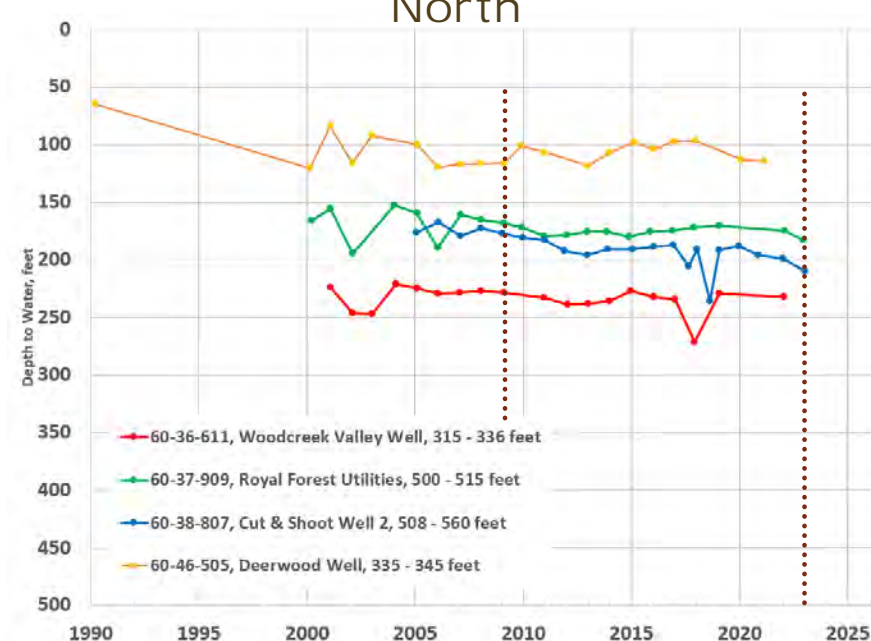
## West



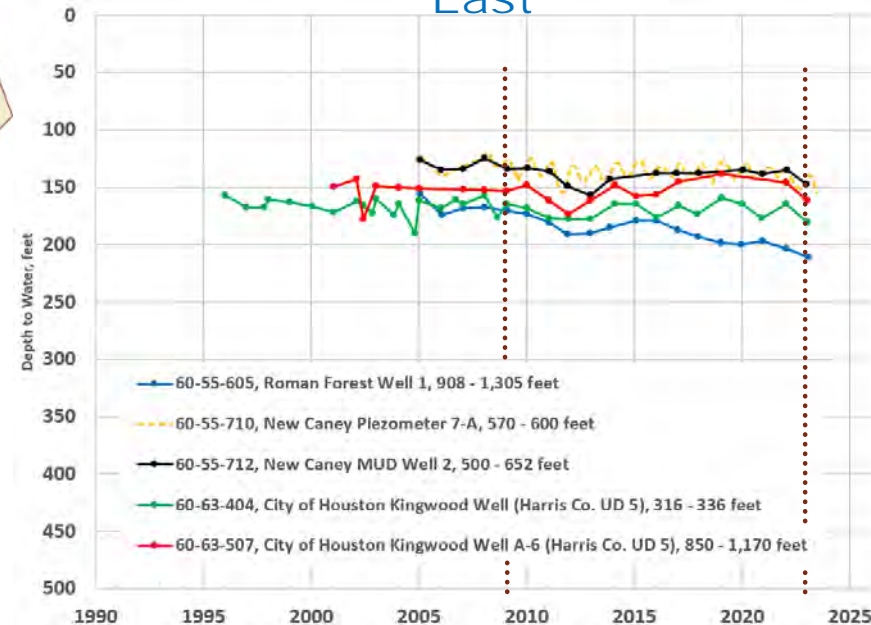
## South



## North

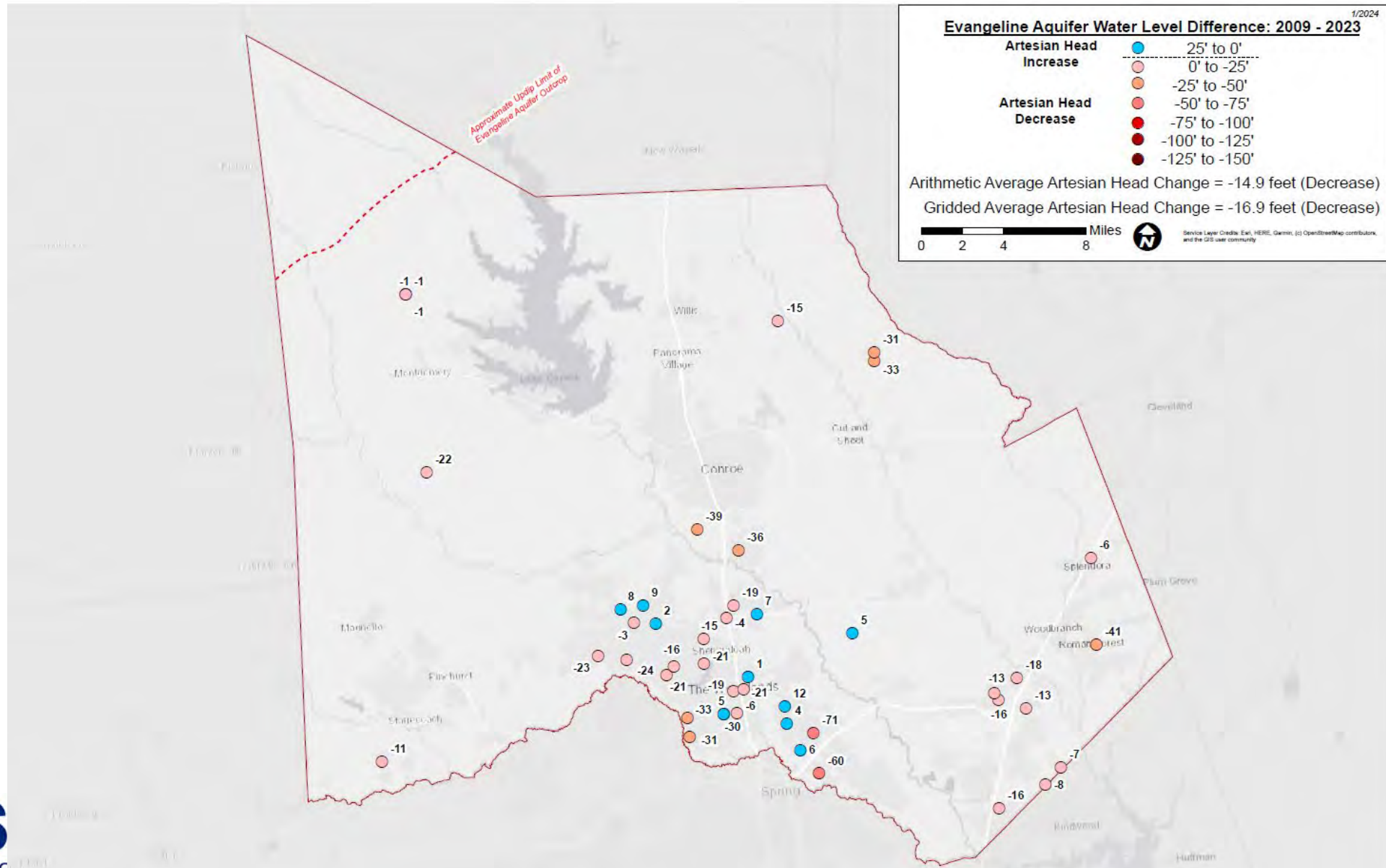


## East

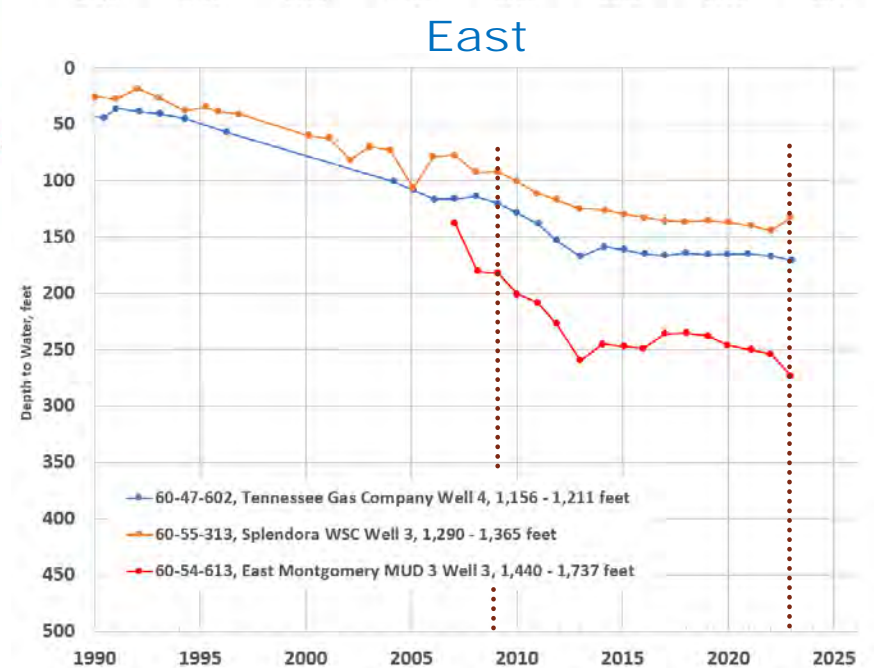
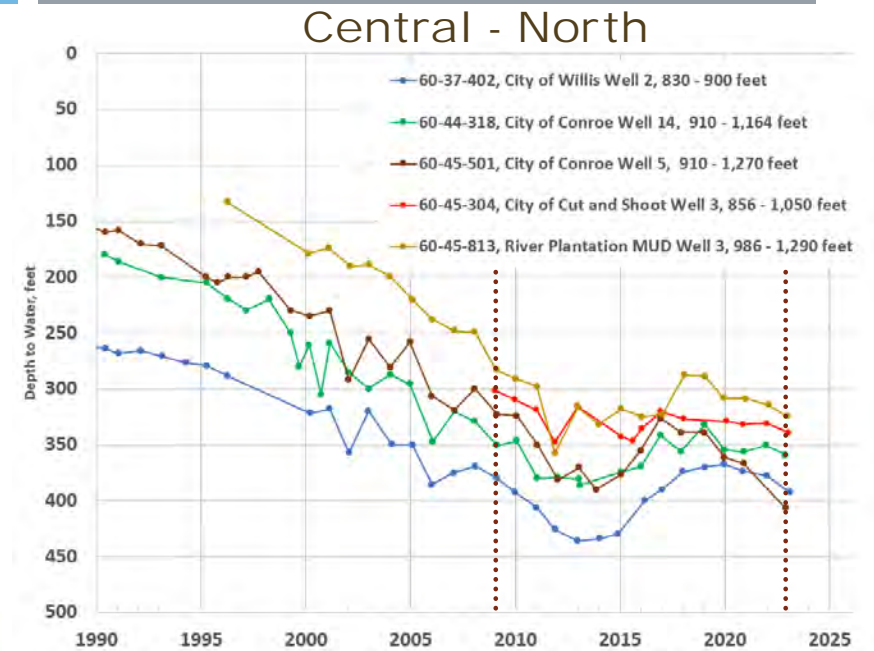
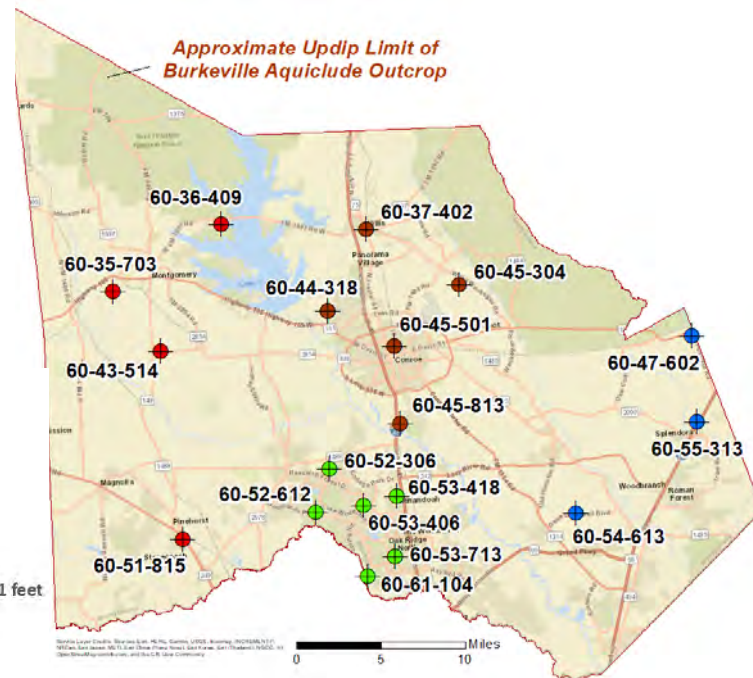
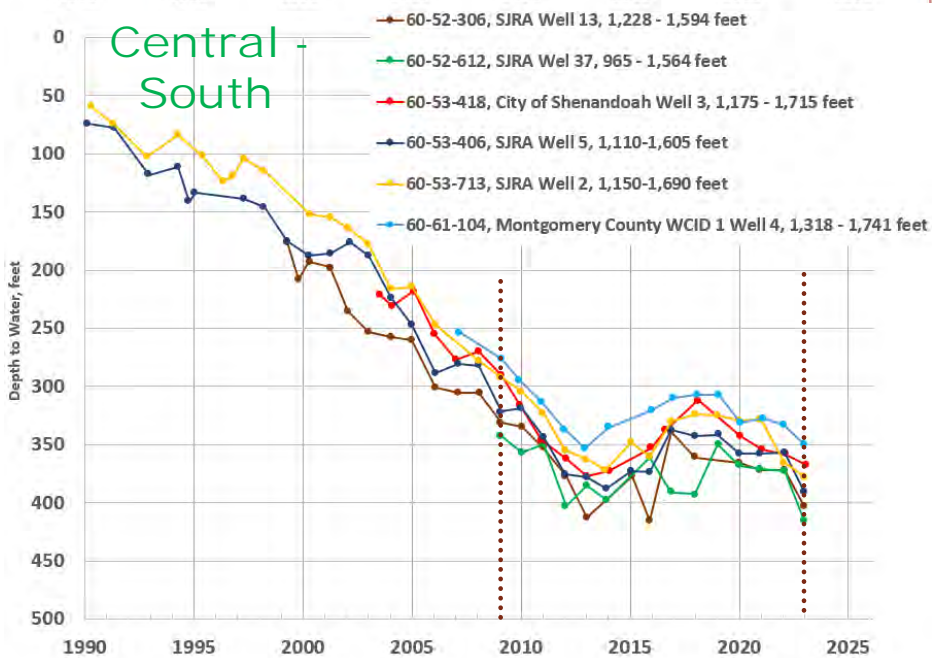
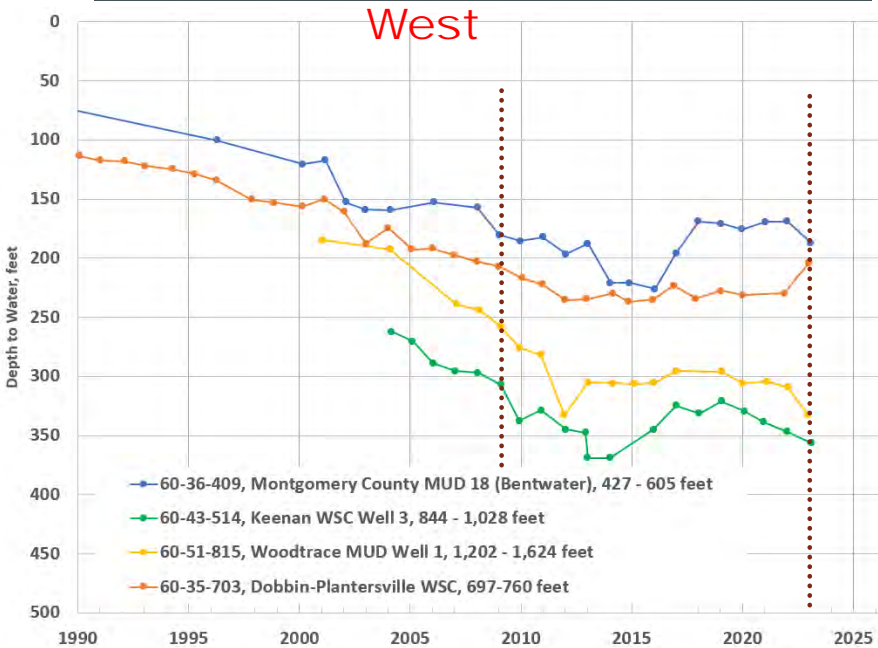




# 2009 – 2023 EVANGELINE AQUIFER CHANGE IN ARTESIAN HEAD

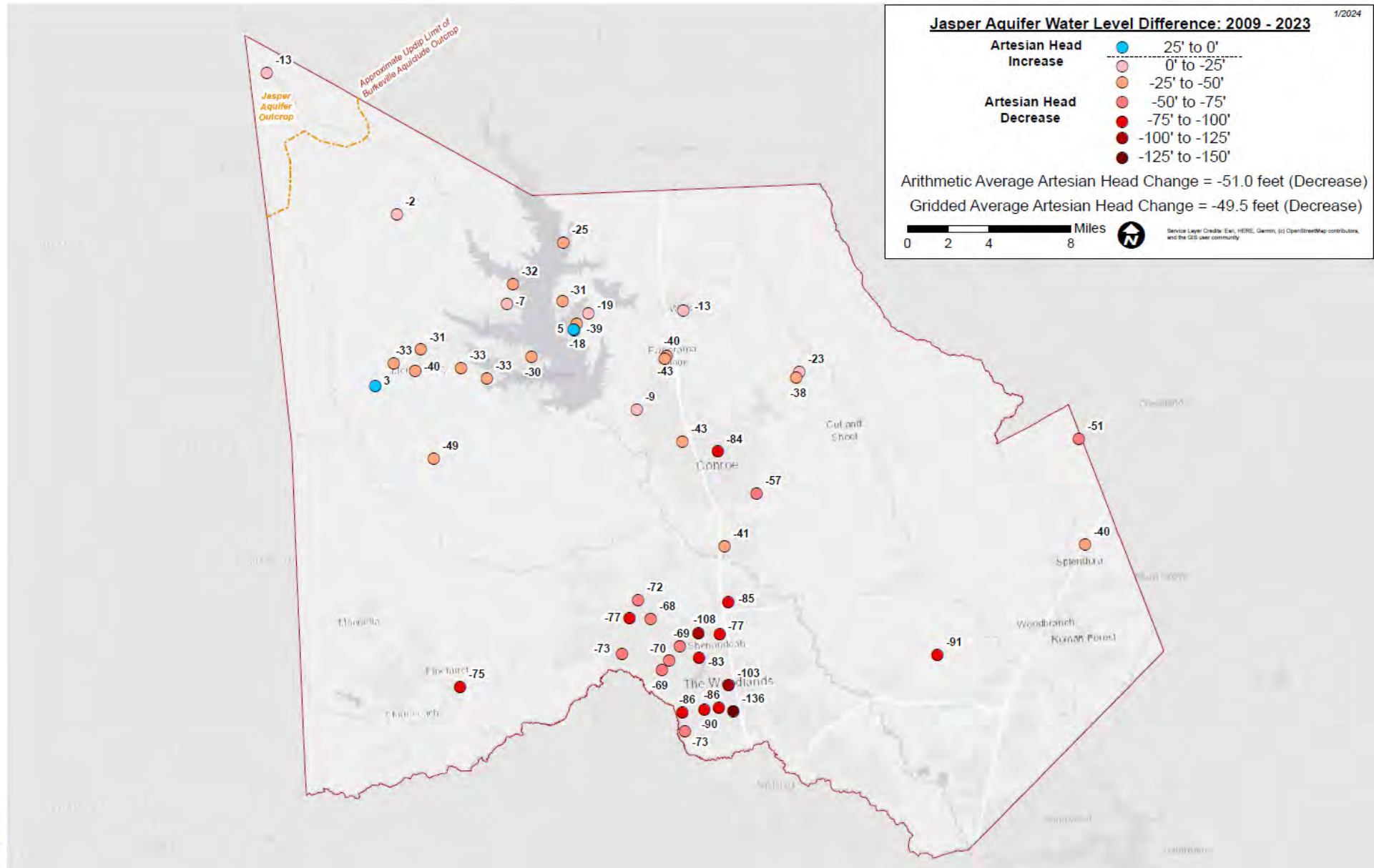


# JASPER AQUIFER HYDROGRAPHS





# 2009 – 2023 JASPER AQUIFER CHANGE IN ARTESIAN HEAD



## 2021 GMA 14 DFC

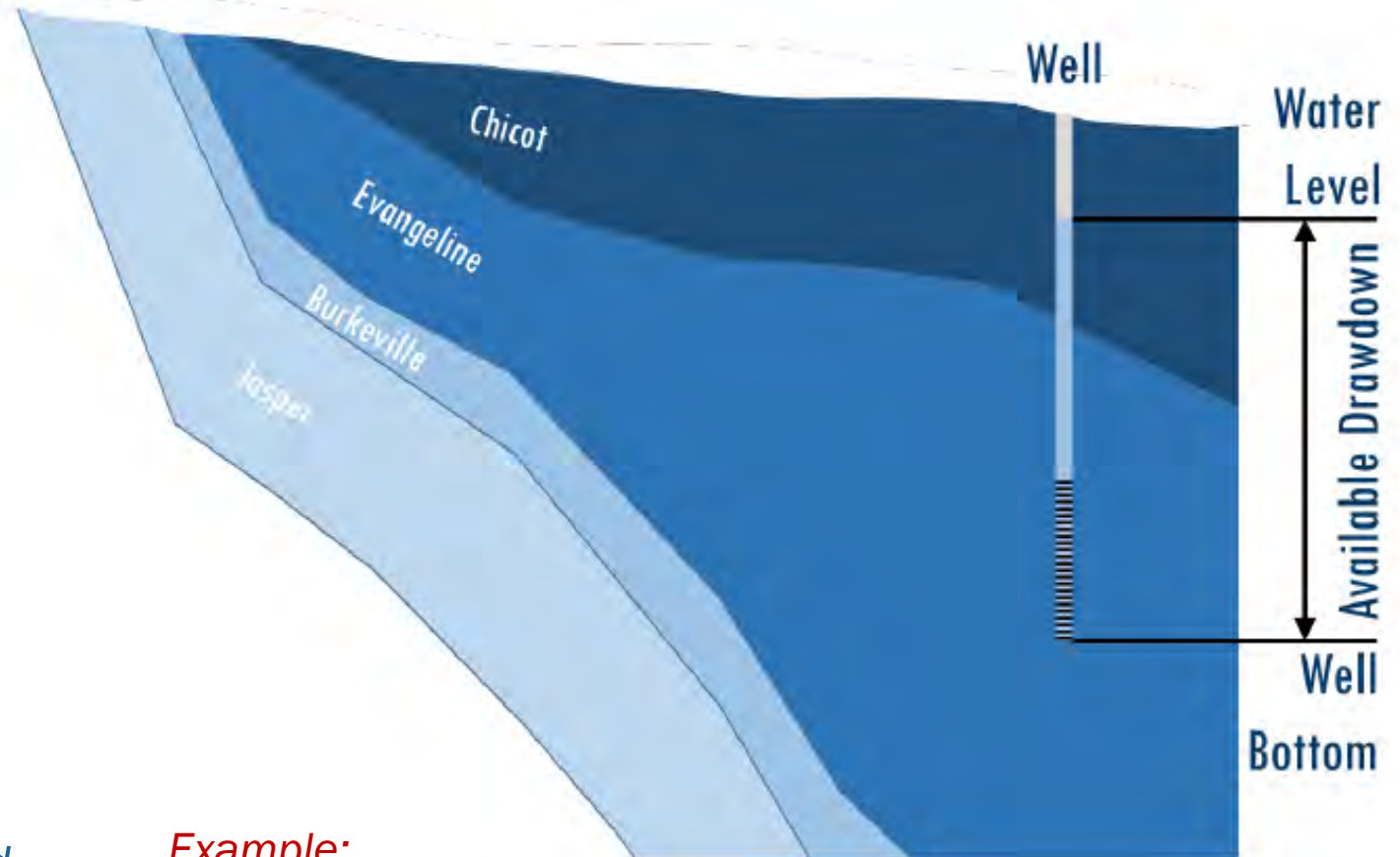
- In each county in Groundwater Management Area 14, no less than 70 percent median available drawdown remaining in 2080 or no more than an average of 1.0 additional foot of subsidence between 2009 and 2080. (1/5/2022)

### ■ Montgomery County:

- Data must be available in both 2009 and 2023
  - ❖ **Shallowest water level between October and March**
    - 2009 (10/2008 – 3/2009)
    - 2023 (10/2022 – 3/2023)

### ■ Methodology:

- $(WL_{2023-TD}) / (WL_{2009-TD}) * 100$
- Median available drawdown was evaluated



### Example:

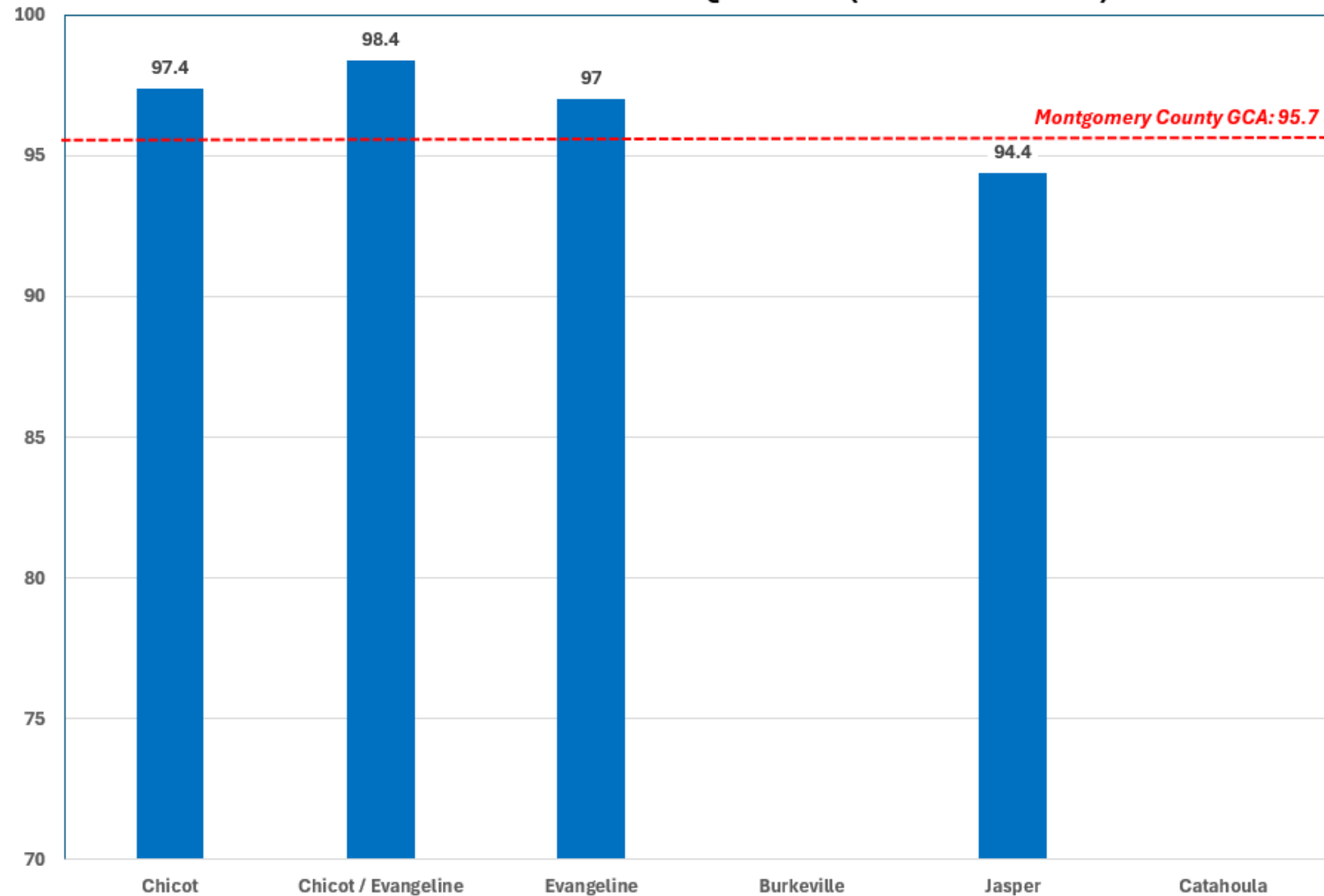
- ❖  $(WL_{2023-TD}) / (WL_{2009-TD}) * 100$
- ❖  $(347.7' - 1,090' / 308.0' - 1,090') = 0.949 (94.9\%)$

## Montgomery County:

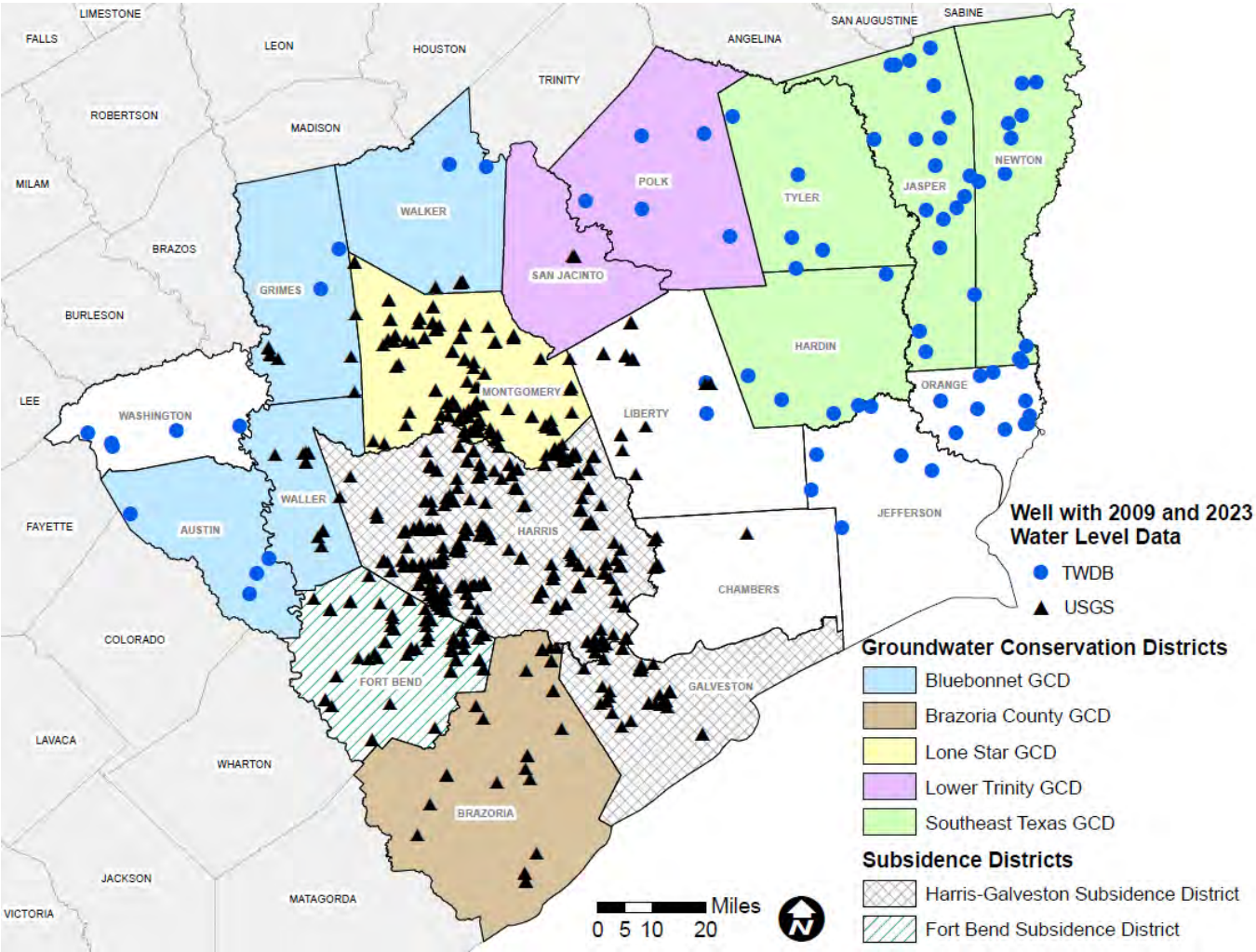
Median Available Drawdown Remaining (2009 – 2023):

- Gulf Coast Aquifer: **95.7%**
- Methodology:
  - ❖  $(WL_{2023}-TD)/(WL_{2009}-TD) * 100$
  - ❖ Median Available Drawdown was Evaluated
  - ❖ 103 Wells in Montgomery County with 2009 and 2023 Water Level Measurements

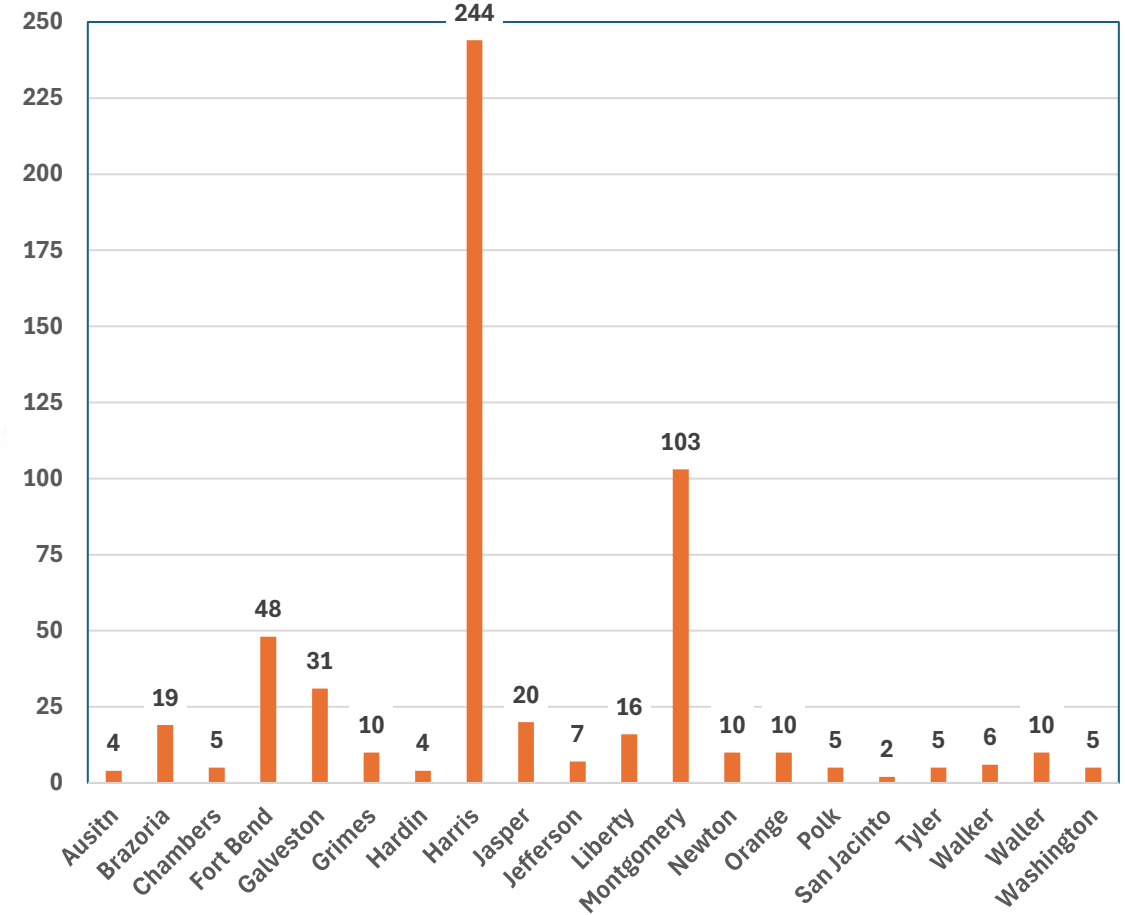
PERCENT MEDIAN AVAILABLE DRAWDOWN REMAINING IN MONTGOMERY COUNTY BY AQUIFER (2009 – 2023)



# GMA 14 - DATA AVAILABILITY



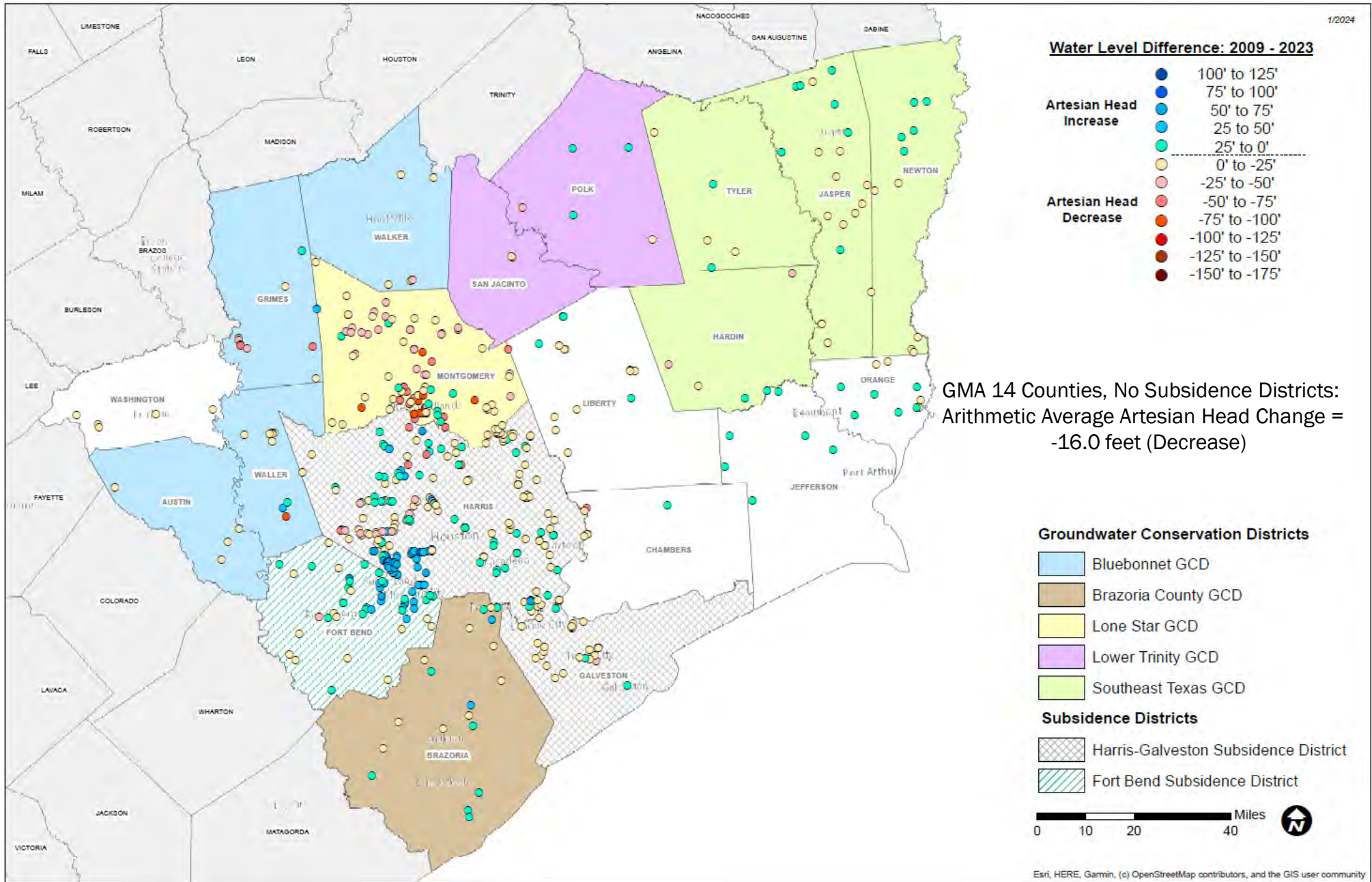
Number of Wells with Static Water Level Data in 2009 and 2023





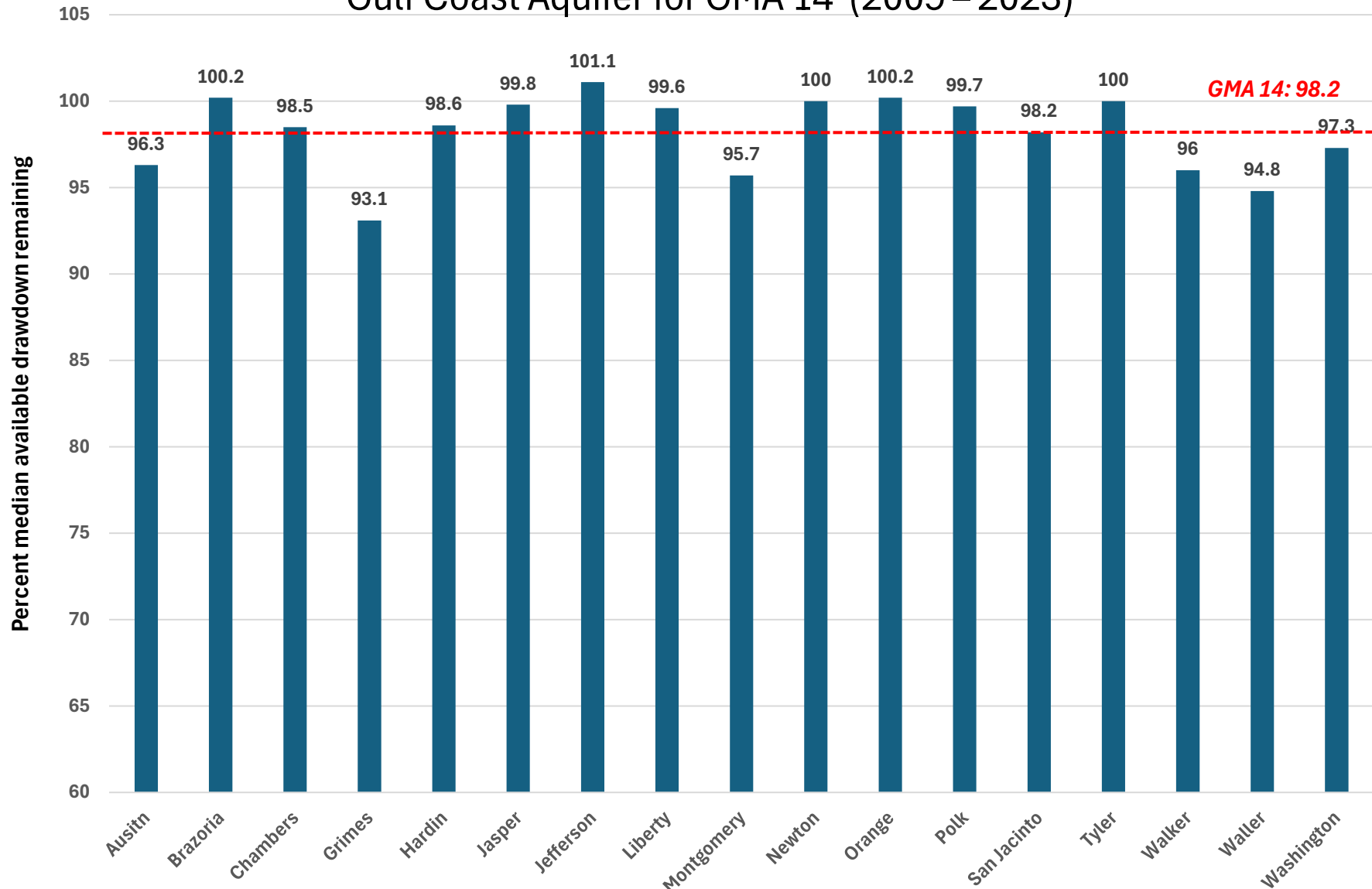
# GMA 14 GULF COAST AQUIFER

# ALL COUNTIES WITHIN GMA 14



GMA 14 Counties, No Subsidence Districts:  
Arithmetic Average Artesian Head Change =  
-16.0 feet (Decrease)

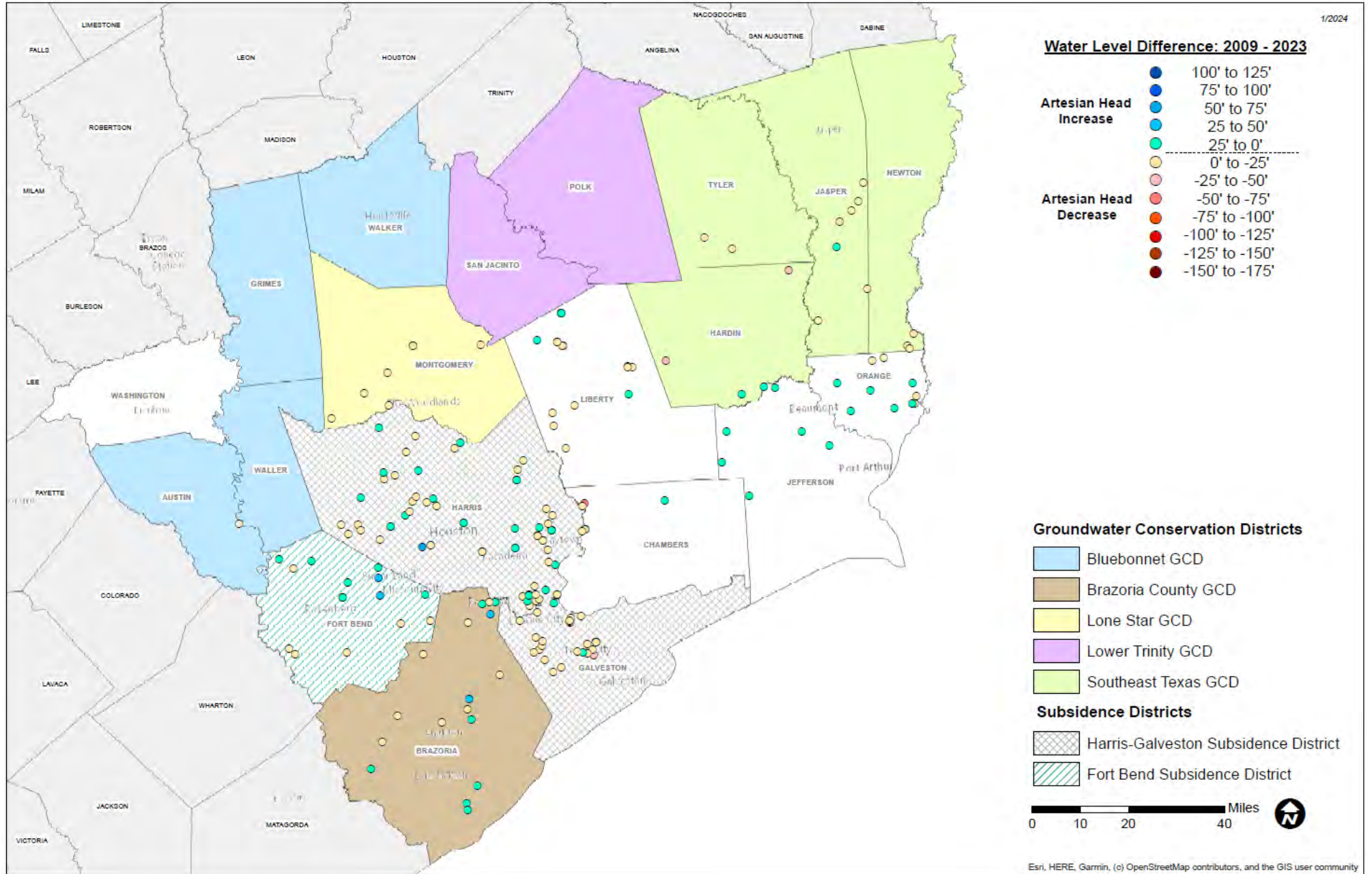
## Percent Median Available Drawdown Remaining by County in the Gulf Coast Aquifer for GMA 14 (2009 – 2023)



*\*Excludes Subsidence Districts*

# GMA 14

# CHICOT AQUIFER

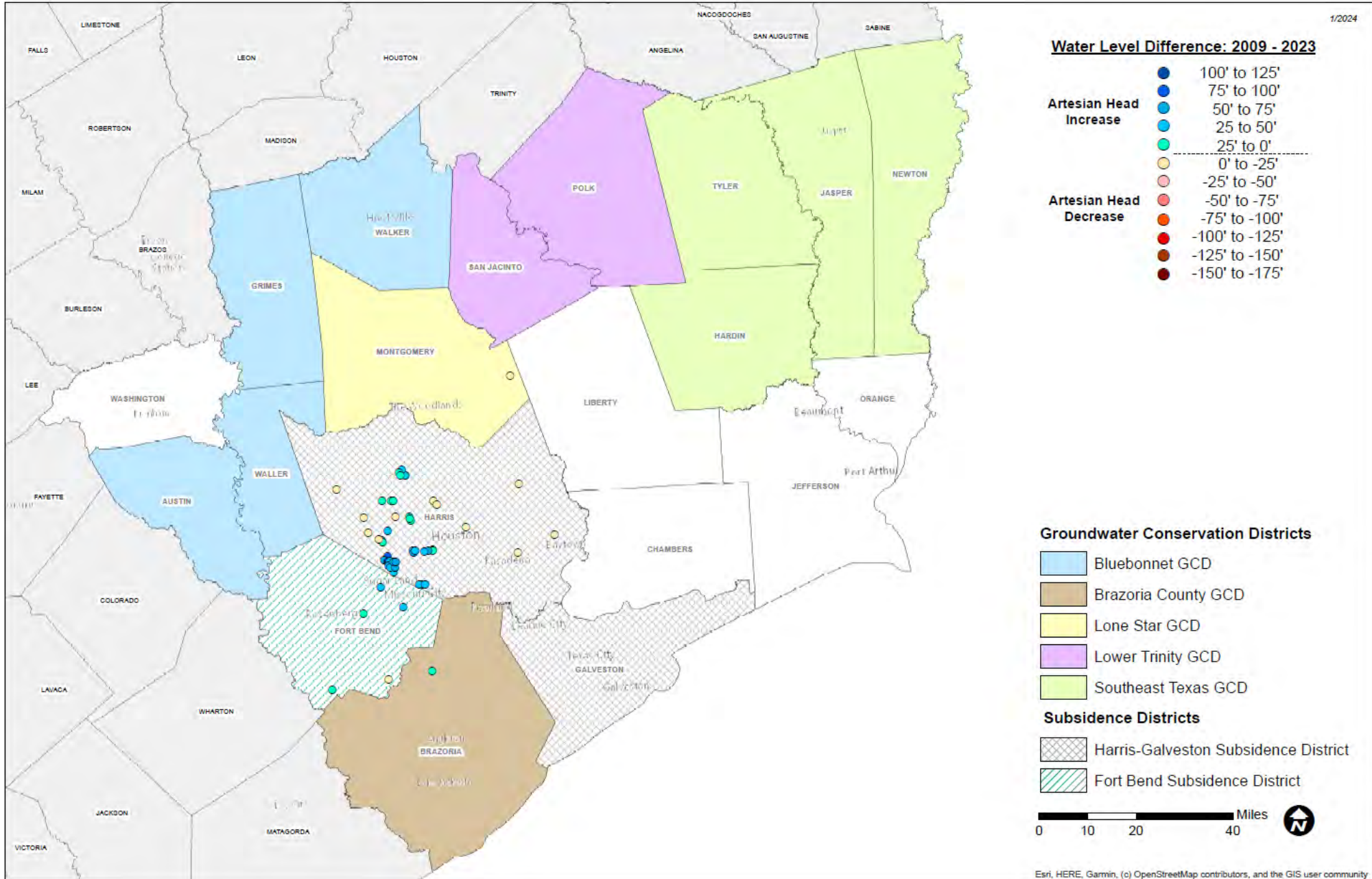


1/2024



# GMA 14

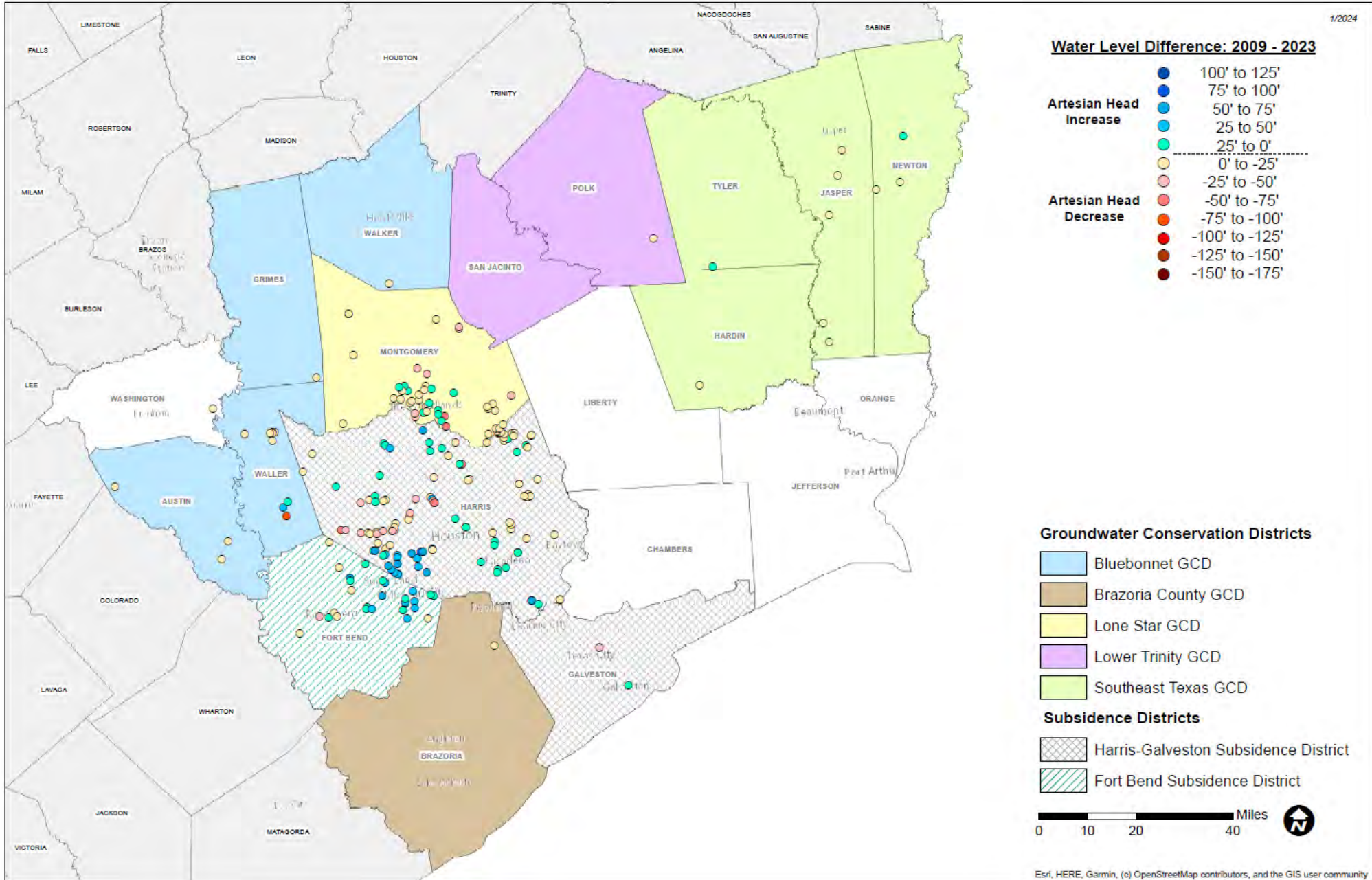
## CHICOT / EVANGELINE AQUIFER





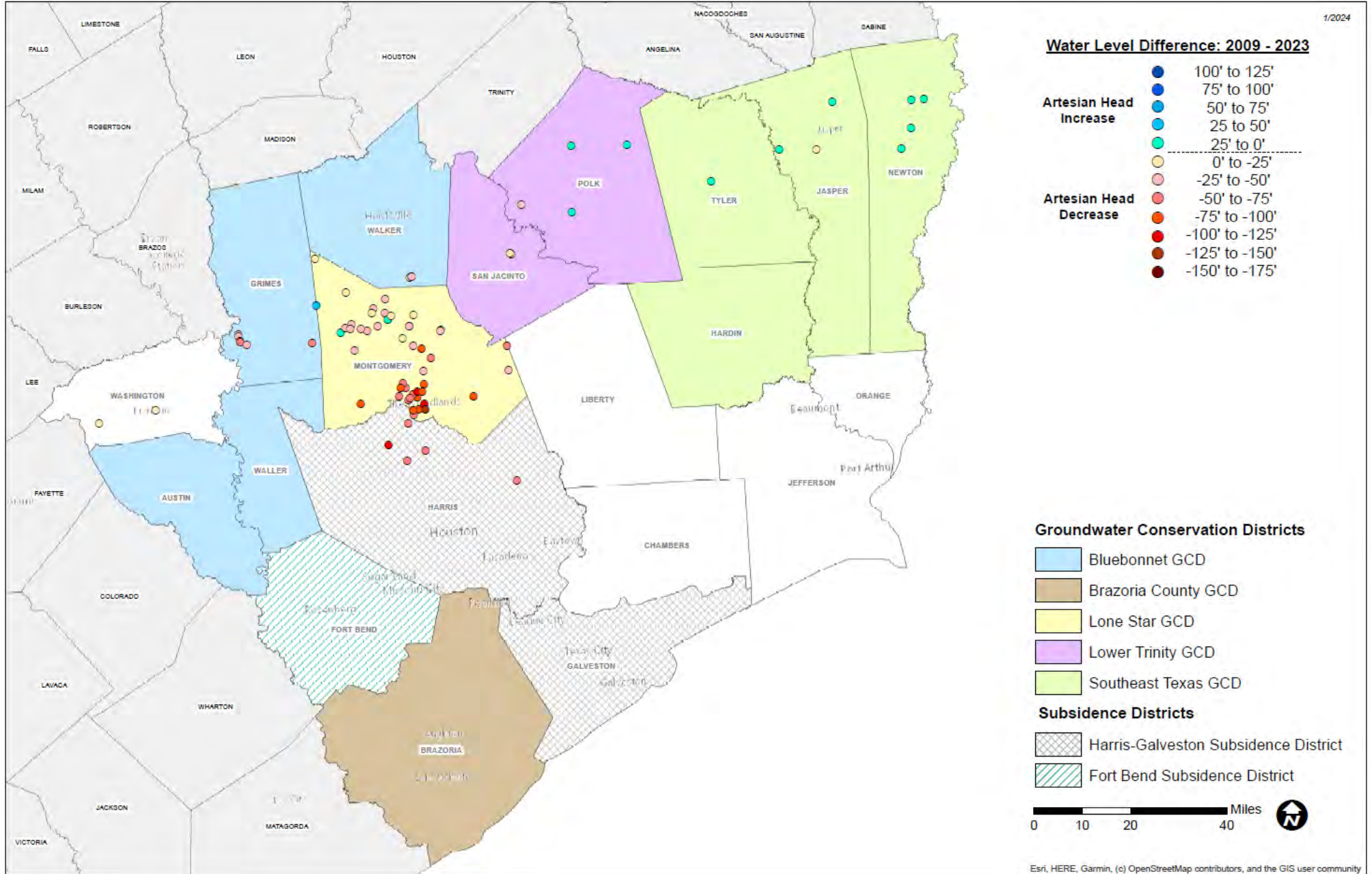
# GMA 14

# EVANGELINE AQUIFER



# GMA 14

# JASPER AQUIFER



# APPENDIX "A"

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- SETGCD Well Monitor Newsletter – Summer 2024
- District Permit Holder Email / Mailing List
- District V.I.P. Email / Mailing List
- Drillers – District and Surrounding Counties Mailing List
- Website Posting Evidence - Newsletter Posted to Website on July 10, 2024



Summer 2024



**Board of Directors:**

- Olen Bean, President
- Bobby Rogers, Vice Pres.—Hardin
- Charles Zimmerman, Treasurer—Tyler
- Sam Ashworth, Director—Hardin
- Robb Starr, Director—Hardin
- Billy Ted Smith, Director—Jasper
- Steven Black, Director—Jasper
- Greg Kelley, Director—Jasper
- Thomas Hawthorne, Director—Newton
- Cody Jones, Director—Newton
- Rick Russler, Director—Tyler
- Open Seat—Newton
- Open Seat—Tyler
  
- John Martin, General Manager
- John Stover, Esq., Counsel

**Did you Know?**

Texas is the only state that considers groundwater a private property right.

**Inside this issue:**

Appointment of New Executive Committee	2
Drought Impacts on Static Water Levels	2 - 3
Drought Conditions	4
Seasonal Drought Outlook	4
Conservation Corner	5
Static Water Level Well Map	6
Spring 2024 Static Water Levels	7

# SETGCD WELL MONITOR



## DISTRICT LOSES ONE OF THE BEST

FAMILY, FRIENDS, AND COLLEAGUES SADDENED BY UNEXPECTED LOSS

As you may know, the District lost its Board President, Roger Fussell, just after the start of the year. Roger was the senior member of the Board having been originally appointed to the District’s Board of Directors by the Hardin County Commissioner’s Court and Judge Caraway in 2006. Roger became the Vice President of the Board in the fall of 2009. In 2018 Walter Glenn retired from the Board as its President and the Jasper, Newton, Hardin, and Tyler County Commissioner’s Courts unanimously appointed Roger to be Mr. Glenn’s successor.



Roger was a consummate water industry professional, not only managing public water systems but a true supporter of all water management professionals. In addition to being on the District Board for 17 years, Roger was part of the Texas Water Utilities Association for 30+ years. He was always aware of the importance of those who were licensed and trained to manage our water resources and waste water treatment. We will miss not only his leadership, but his story telling as well, which always put a smile on your face.

## IMPACTS OF A DRY SUMMER OR PROLONGED DROUGHT ON LOCAL STATIC WATER LEVELS

One of the more important functions of the District is to monitor the static water levels of the Gulf Coast Aquifer System. The Gulf Coast Aquifer System is called such because it is comprised of several slightly different layers. From the surface down these layers are known as the Chicot, Evangeline, Burkeville Confining, Jasper, and Catahoula aquifers with the Chicot being the primarily used layer throughout most of the District. After all, why drill a well 1,000 feet deep or deeper to the Evangeline or Jasper layer when 100–500 feet down into the Chicot is often deep enough even for moderately high volume commercial wells.

The District has a network comprised of approximately 50 observation wells located throughout the four counties of the District that are visited twice a year to collect static water level data. The District has only been collecting the data since 2008, however in most instances our observation wells have data going back much further that was collected either by the Texas Water Development Board or the USGS. Some of the observation wells have data going back nearly 70 years.

Many people wonder and worry about what happens to our aquifer and the static water levels and how it might affect their water wells when we experi- (Continued on page 2)



## Appointment of New Executive Committee

Olen Bean, having been the District's Vice President prior to the loss of Roger, lead the District until the Jasper, Newton, Hardin, and Tyler County Commissioner's Courts took official steps to appoint Mr. Bean as the Board President. Mr. Bean was originally appointed to the Board by the Newton County Commissioner's Court in 2011.

After Mr. Bean became the Board President the full board took action at its March 14, 2024 meeting voting to move Bobby Rogers (formerly the District's Sec./Treas.) to the Vice President position and to make Director Zimmerman the District Secretary/Treasurer. Both of these gentlemen have been longstanding members of the Board, with Mr. Rogers serving since 2008 and Mr. Zimmerman since 2012.



Olen Bean, President



Bobby Rogers, Vice President

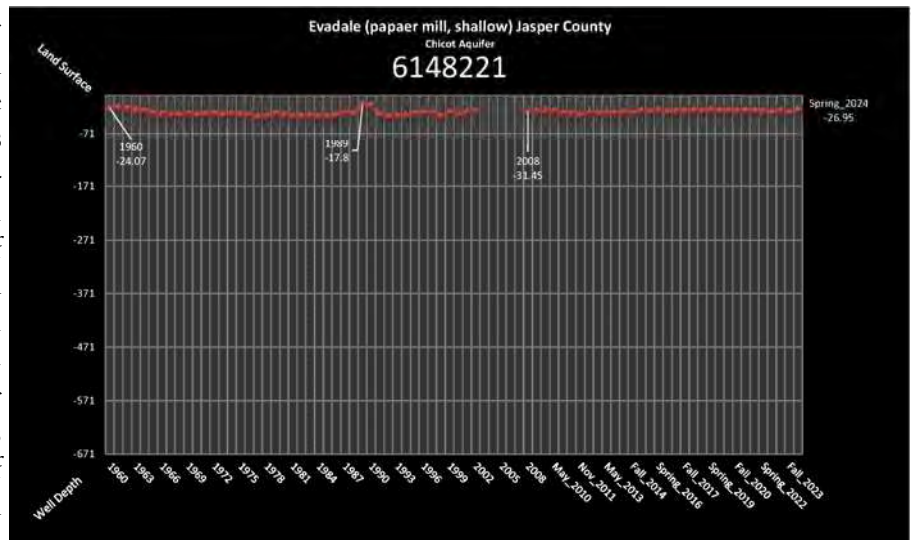


Charles Zimmerman, Sec./Treas.

### Continued from page 1—Impacts of Drought on Local Static Water Levels

for us, we live in an area that not only has a healthy aquifer that has not been over taxed, we also have the luxury of 3 river systems, the two largest reservoirs in the state, and an extremely healthy annual average rainfall. These factors combine to keep our water levels relatively stable even through periods of extended drought.

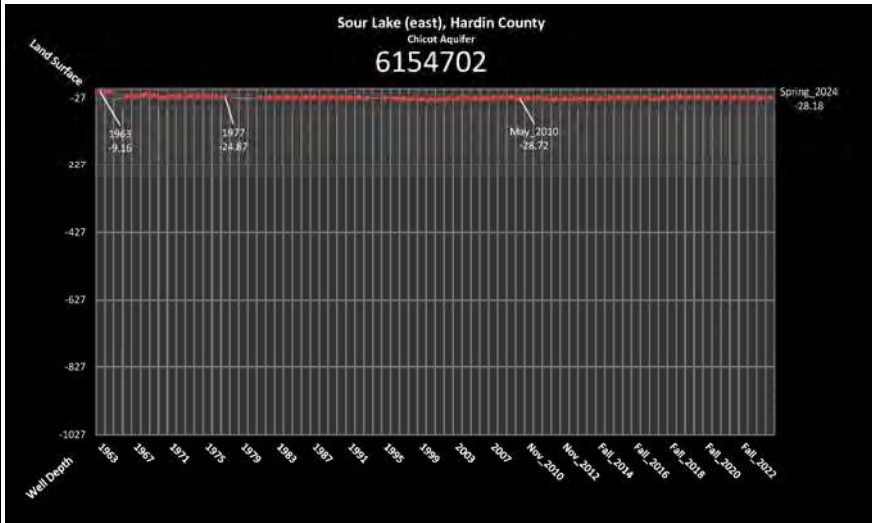
As you can see from the graph for Well 6148221, the static water level has remained relatively stable for the 60 years of data shown. The well is 671 feet deep and as you can see fluctuates only nominally. When you take into consideration the depth of the well and the water column, which averages about 640 feet in depth, even during the prolonged 2010–2012 drought, the water level never dropped below -35.4 feet, which was a change in the water column of about 1% from the pre-drought level taken in May of 2009.



Another very interesting fact about Well 6148221 is that it is located just across the street from the Evadale papermill which uses a combined groundwater and surface water amount exceeding 10s of millions of gallons a day (and has been doing so since the 1950s).

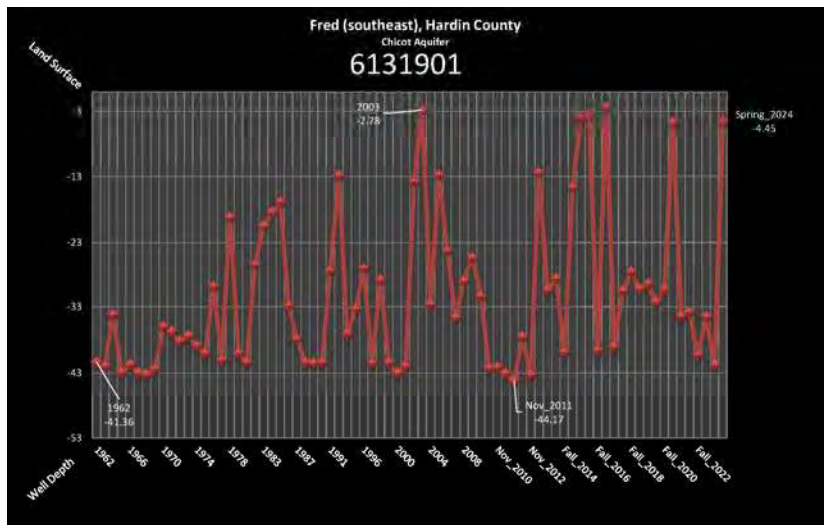
Continued from page 2—Impacts of Drought on Local Static Water Levels

Another well with a long history of water level readings is Well 6154702 which is located on Hwy. 105 in Sour Lake. This well has regular recording going back 60 years to 1963. The well is a little deeper and further south in the District putting this well in the Evangeline layer of the Gulf Coast Aquifer. The well was drilled in 1951 with the earliest know water level having been taken in 1959 which indicates that it was 5.57 feet below the surface. Between 1959 and 1966, for unknown reasons, there was a moderate drop in the static water level to 23.94 below the surface but it has remained extremely stable since with the latest measurement being 28.18 feet below the surface. In the case of this



well, the drop in static water level to approximately -32 feet during the 2010–2012 drought was approximately a 0.5% drop in the water column of this well.

Most wells that have 100 feet or more of depth to them show little impact from short to mid length droughts, but shallow wells can be a completely different story. Shallow wells are very susceptible to current weather conditions and during drought periods may see drastic drops in static water levels. Conversely, when we are experiencing wet conditions, those same wells can recover water just as quickly as they have lost it. This is clearly visualized by the graph for Well 6131901, which is located in northeast Hardin County. This well was drilled in 1940 and is the typical hand dug well of that era. This well is only 53 feet deep and is no where near as stable as the wells that are deeper. The change from the fall 2023 measurement to the spring 2024 measurement was an astounding 37 foot increase in the water level. This well had a similar recovery after the 2010–2012 drought with nearly a 31 foot recovery. Another interesting element of this well that is the fact that even during prolonged droughts the well maintained approximately 10 feet of water in the well. Also interesting is that the earliest water level recorded for this well was taken in April of 1942 and was -38.79 feet, far lower than our latest measurement.

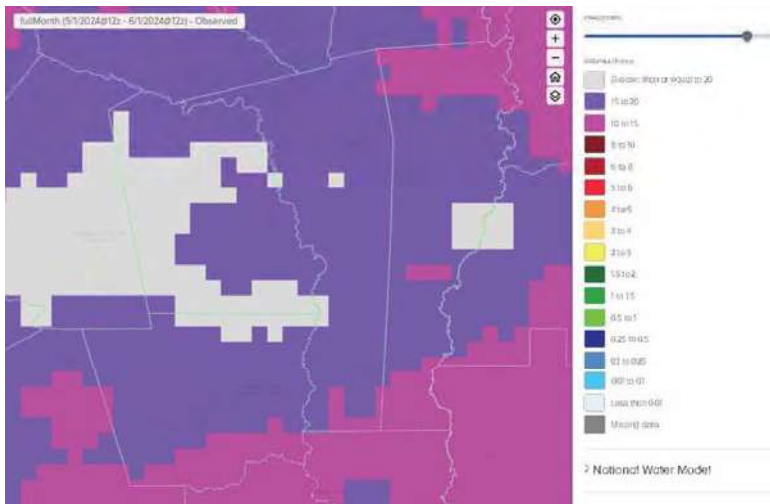
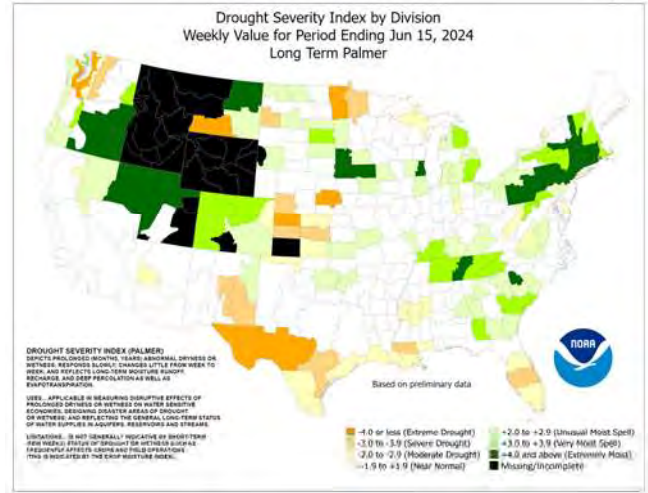


Will wells go dry during droughts, yes – of course wells will go dry from time to time; however, we are fortunate to live in an area that hasn't seen its groundwater resources overused and has a groundwater district in place to manage the aquifer. I once heard a local water professional say he thought that our area of the Gulf Coast Aquifer System was drought proof. While I don't want to tempt fate, I do think it is safe to say that the Gulf Coast Aquifer System in our area is relatively drought resistant.

For more static water level information see pages 6 and 7.

## DROUGHT CONDITIONS

It's a bit difficult sometimes to understand drought maps. A good example of this is the current U.S. Palmer Drought Severity Index (PDSI) which shows our area to be experiencing near normal conditions; however the majority of the District has already received nearly its annual average amount of rainfall for the year, with one rain gauge in Tyler County reading over 70 inches of rainfall since January 1. Needless to say, we have improved significantly from last year when we were experiencing D4 Exceptional Drought Conditions for several consecutive months. The D4 designation is the most severe conditions the U.S. Drought Monitor gives, and it is not often seen here in East Texas.



As you can see from the National Water Prediction Services map (left), the rainfall totals for May alone ranged from 10 to well over 20 inches, with the majority of the District having received between 15 and 22 inches for May. Those May totals combined with several other wet months this year have some areas of the District already reaching our annual average of 52–54 inches of rainfall.

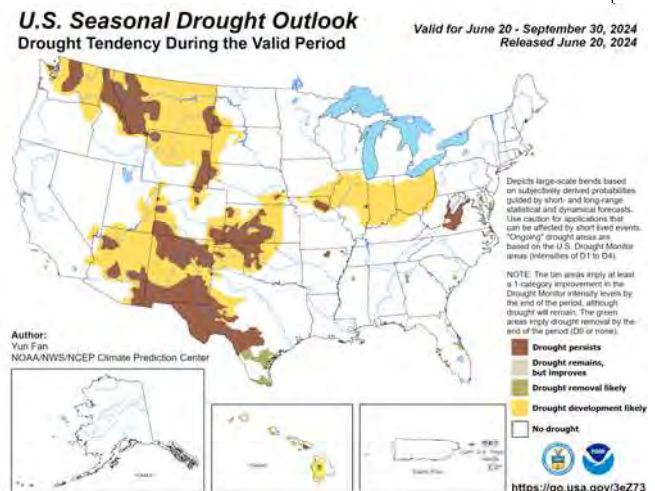
How the remainder of the year will play out with regard to rainfall is, of course, unknown. On one hand we are expecting an active hurricane season which can easily drop a “little” extra rain on the area (anyone recall Hurricane

Harvey?) but the prevailing weather pattern is expected to revert to a La Nina pattern which typically means hotter and drier weather like we saw last year.

## SEASONAL DROUGHT OUTLOOK

As you can see from the June 20, 2024, U.S. Seasonal Drought Outlook map (right), here in east Texas we are not expected to develop any drought conditions in the next several months. The second half of the year may be interesting with the predicted active hurricane season and the La Nina weather pattern expected to return. This makes it difficult to predict what our precipitation totals will be for the year.

The Big Bend area has not been as fortunate as the eastern, and to a lesser degree the southern portions, of Texas and is experiencing moderate to extreme drought conditions according to the June 20, 2024 U.S. Drought Monitor (not pictured).





## Drought Preparedness—Reduce Wasteful Practices to Bank Water for Future Use

### Conservation Corner

It was just last year that much of the Southeast Texas Groundwater Conservation District (and east Texas in general) was experiencing very severe drought conditions. How quickly things have changed - from drought conditions to wet conditions in only a matter of months. It's times like this that it's difficult to talk to people about conserving water, especially when, as of June 1, some parts of the District have received or surpassed (in some instances significantly surpassed) the annual average rainfall for the entire year. Even in an average year we typically have an abundance of rain with an average annual amount of 52 - 54 inches. Having already hit our annual average in some places and with a very active hurricane season predicted, it is quite possible that we could get 70 or more inches of rain in 2024 (one rain gauge in Tyler County has actually already surpassed 70 inches).

Although we have experienced wet conditions for the first five months of the year, predictions are that we will be transitioning back to a La Nina weather pattern which typically brings warmer and drier weather as was the case during the summer of 2023. Prolonged La Ninas are not unheard of, as was the case in 2010 - 2012 which was one of the driest periods in Texas history. Most areas within the Southeast Texas Groundwater Conservation District saw 30% - 35% less rain than normal during that period. The northwestern portion of the District (Woodville area) saw closer to 50% less rainfall. Because drought is always possible, it is best that we conserve our most precious resource when we can so that it will be available in the future. Just because we have plenty right now, doesn't mean that we shouldn't stay water wise and conserve whenever we can. Don't forget, it was only last summer that some parts of the District were experiencing category D4 Exceptional Drought Conditions, the highest drought rating on the U.S. Drought Monitor, which is a weekly map of drought conditions that is produced jointly by the National Oceanic and Atmospheric Administration (NOAA), the U.S. Department of Agriculture, and the National Drought Mitigation Center (NDMC).

Although it may seem unnecessary to conserve during wet periods, it is always a good practice so that when we are experiencing drought conditions, it doesn't hurt as much.

Here are some ways in which you can reduce your groundwater consumption and prevent waste:

#### Conserving Water Indoors:

- Using efficient showerheads and aerators on your faucets can significantly reduce the amount of water you use. In fact, installing an efficient showerhead is one of the most effective water saving steps you can take inside your house. You can save a little more water by getting into the shower as soon as possible - don't let the water run too long while warming it up.
- When possible, update and replace old toilets, washing machines, and dishwashers. New efficient models can save you thousands of gallons per year.
- An older clothes washer will use up to 23 gallons per load, whereas a new energy efficient model may use as little as 13 gallons. Considering that the average household washes about 300 loads per year, the numbers add up quickly. Another thing to keep in mind is that if you wash with hot water, up to 90% of the cost to wash those clothes is simply for heating the water. Only use hot water when necessary so you'll save on your electrical bill and reduce the impact on the water-energy nexus (a complex relationship of water usage in the production of electricity).
- In the kitchen, a water efficient dishwasher can save over 1,000 gallons per year. Keep in mind that 1,000 gallons may not seem significant, but multiply that by a neighborhood and 1,000 gallons per home will add up to quite a lot very quickly.
- Newer water efficient toilets will use only about 1—1.5 gallons of water per flush. You should always keep an eye out for any leaks in your toilet. A leaking toilet can waste quite a bit of water, possibly thousands of gallons a month in extreme cases. It is estimated that 10% of all homes in the U.S. have water leaks wasting 90+ gallons of water per day.

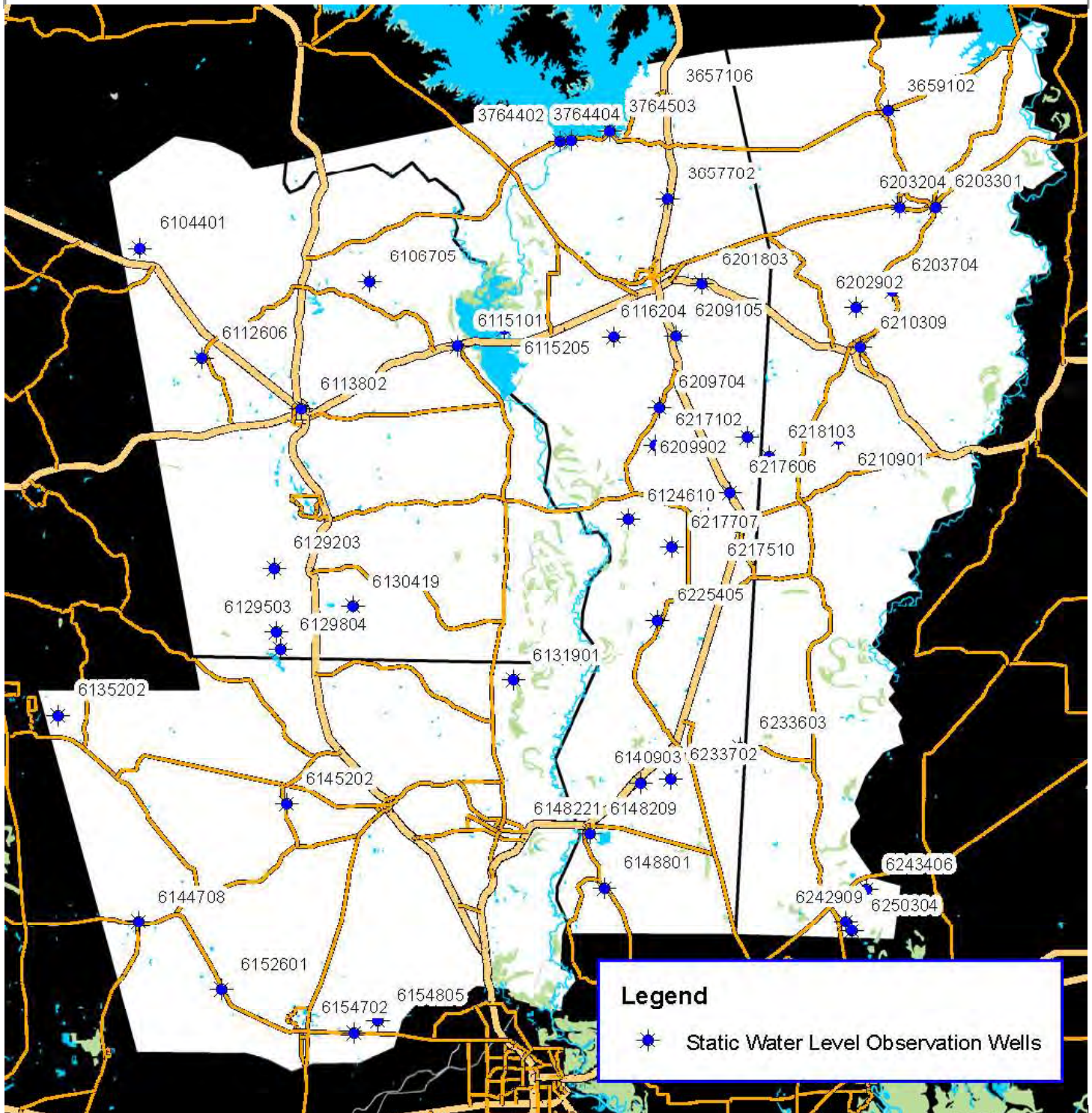
#### Conserving Water Outdoors and Reducing Waste:

- If you have a swimming pool, consider covering it when not in use. In the summer, a pool can lose as much as half an inch per day due to evaporation, which can add up to the equivalent of your pool's entire volume each summer. You could potentially save 10,000 – 20,000 gallons or more depending on the size of your pool.
- Water landscaping in the morning or late evening to reduce evaporation loss, and only water when needed. Most lawns only need 1 inch of water per week.
- If you have a sprinkler system, keep it well maintained and keep an eye out for leaks.
- If you have a vegetable or flower garden consider a drip irrigation system. It will water your plants more efficiently and with less waste.
- Be conscientious when washing your vehicles at home. If you leave a hose running, you could use as much as 100 gallons or more washing your vehicle. Have a sprayer head on the hose to save water or consider a commercial car wash. A commercial car wash typically uses 35 – 70 gallons of water with newer high-tech facilities using as little as 15 gallons.

For more information on water conservation ideas visit the Southeast Texas Groundwater Conservation District's Website at: <https://setgcd.org/> or the Texas Water Development Board's site at: <https://www.twdb.texas.gov/conservation/>



# Static Water Level Observation Well Locations & State ID



## What Is A Static Water Level?

The Static Water Level is the distance from the surface of the ground down to the water table when a well is not being pumped. This is sometimes called the resting water level. For example, a static water level reading of -25 feet means that the distance from the ground down to the water table is 25 feet.

In the data on the following page, I have included a column indicating the amount of static water level change from the previous year. If the number is positive, it means that the water level has dropped in that particular well. If the change is a negative number, as most of them are, it means that the water level is higher than the previous year. Typically, large drops or rises are indicative of shallow wells

State Wel ID	County	Date Drilled	Well Depth	Early W.L. Reading /		May_2009	Spring_2023	Spring_2024	1 year change
				Year of W.L.					
6131901	Hardin	1940	53	-38.79	1942	-25.35	-34.50	-4.45	30.05
6135202	Hardin	2003	363	-64	2003		-56.3	-56.87	-0.57
6144708	Hardin	1957	72	-24.12	1942	-24.21	-25.40	-26.15	-0.75
6145202	Hardin	2009	220	-12	2009		-7.95	-6.60	1.35
6152601	Hardin	1948	764	-21	1948	-29.67	-23.84	-24.59	-0.75
6154702	Hardin	1951	1027	-23.94	1966	-25.2	-27.22	-28.18	-0.96
6154805	Hardin	1998	618	-60	1998		-28.97	-30.2	-1.23
3657106	Jasper	1938	20	-8.7	1997	-4.69	-5.70	-4.90	0.80
3657702	Jasper	1994	378	-117.7	1997	-117.61	-116.02	-118.00	-1.98
3764402	Jasper	1962	300	-114.3	-114	-113.27	-109.07	-110.83	-1.76
3764404	Jasper	1982	260	-66	1982	-46.83	-44.82	-46.85	-2.03
3764503	Jasper	1981	260	-33.2	1997	-32.33	-31.59	-33.73	-2.14
6115205	Jasper	1984	442	39.96	1984	28.18	39.51	41.24	1.73
6116204	Jasper	1965	220	-51.7	1997	-51.61	-50.95	-50.86	0.09
6124610	Jasper	1998	200	-33.16	2008	-30.59	-31.84	-30.34	1.50
6148209	Jasper	1947	1295	-66.79	1956	-177.09	-199.98	-189.45	10.53
6148221	Jasper	pre 1956	671	-22.47	1956	-28.92	-28.50	-26.95	1.55
6148801	Jasper	1903	1084	-6.85	1960	-5.38	-7.90	-4.02	3.88
6201803	Jasper	1995	884	-85.1	1997	-85.54	-82.85	-82.85	0.00
6209105	Jasper	1967	15	-4.15	1997	-1.38	-1.88	-0.55	1.33
6209704	Jasper	1952	40	-35.84	1997	-34.4	-36.40	-34.18	2.22
6209902	Jasper	pre 1997	40	22.8	1997	-16.13	-18.98	-16.02	2.96
6217102	Jasper	1950	80	-54.85	1997	-80.00	-80.00	-52.68	27.32
6217510	Jasper	pre 1997	140	-15.9	1997	-14.7	-15.23	-17.57	-2.34
6217606	Jasper	1964	70	-7.8	1997	-1.09	-2.25	-0.85	1.40
6217707	Jasper	1950	28	-9.35	1997	-4.15		-2.37	-2.37
6225405	Jasper	1983	120	-58	1997	-57.5	-56.60	-58.12	-1.52
6233603	Jasper	1940	18	-14.7	1997	-10.92	-10.50	-5.77	4.73
6140903	Jasper	2002	802	-119	2002	New to Program		-116.85	
6233702	Jasper	1995	540	-65	1995	New to Program		-64.32	
3659102	Newton	2000	170	-98.76	2009		-93.09	-97.92	-4.83
6202902	Newton	pre 1999	24	-13.03	1999	-11.65	-7.86	-4.30	3.56
6203204	Newton	1979	645	-65.4	1994	-68.15	-66.40	-67.40	-1.00
6203301	Newton	1964	1050	-38.75	1992	-45.42	-36.53	-36.30	0.23
6203704	Newton	1989	640	-169	1989	-172.78	-171.68	-173.31	-1.63
6210309	Newton	1964	1218	-61.38	1993	-65.93	-63.25	-64.40	-1.15
6210901	Newton	1951	300	-13.68	1964	-16.48	-16.22	-16.50	-0.28
6218103	Newton	1980	208	-32.3	1992	-33.99	-34.65	-34.28	0.37
6242909	Newton	1981	590	-39.15	1992	-36.03	-36.80	-37.50	-0.70
6243406	Newton	1981	598	-30	1981	-26.29	-25.18	-25.60	-0.42
6250304	Newton	1983	420	-40	1989	-35.58	-36.65	-37.44	-0.79
6104401	Tyler	1935	860	-169.39	1960	-168.71	-164.37	-159.75	4.62
6106705	Tyler	1984	288	-145	1984		-148.02	-148.05	-0.03
6112606	Tyler	1960	250	-121.64	1964		-123.28	-123.45	-0.17
6113802	Tyler	1951	582	-155	1953	-174.13	-163.25	-167.70	-4.45
6115101	Tyler	1964	68	-31.66	1964	-33.09	-32.62	-32.96	-0.34
6129203	Tyler	pre 1953	30	-22.73	1953	-15.38	-15.25	-13.28	1.97
6129503	Tyler	2008	250	-20	2008		-19.33	-16.12	3.21
6130419	Tyler	pre 1965	22	-13.01	1965	-3.62	-4.02	-2.05	1.97
6129804	Tyler	1972	580	-22.92	2003	-31.70	-26.73	-29.15	-2.42



## Southeast Texas Groundwater Conservation District

P.O. Box 1407, Jasper, TX 75951

(409) 383-1577, [www.setgcd.org](http://www.setgcd.org)

«Suffix» «FIRST NAME» «LAST NAME»  
«ADDRESS 1»  
«CITY», «STATE» «ZIP»

*Did you know that the Gulf Coast Aquifer is also known as the Coastal Lowlands Aquifer System. Also, it is not confined to the State of Texas. It extends from the Texas/Mexico border all the way over to the Florida Panhandle.*



### CALENDAR OF EVENTS

July 4, 2024	Independence Day – District office closed
July 11, 2024	SETGCD – Regular meeting of the Board, in Jasper, TX
August 13, 2015	SETGCD – No Regular Meeting
September 2, 2024	Labor Day – District office closed
September 12, 2024	SETGCD – Regular meeting of the Board, in Jasper, TX
October 10, 2024	SETGCD – Regular meeting of the Board, in Jasper, TX
October 14, 2024	Columbus Day – District office closed
November 11, 2024	Veteran’s Day – District office closed
November 14, 2024	SETGCD – Regular meeting of the Board, in Jasper, TX
Nov. 28 & 29, 2024	Thanksgiving – District office closed
Dec. 25 & 26, 2024	Christmas – District office closed

### TEXAS GCD FACTS

- The first GCD was the High Plains Underground Water Conservation District formed in 1951.
- The smallest GCD is Red Sands at only 114 square miles.
- The largest GCD is High Plains at over 12,000 square miles.
- The Southeast Texas GCD is approximately 2,749 square miles.
- The western part of Texas is one of the driest areas in the U.S.
- The Eastern part of Texas is one of the wettest areas in the U.S.
- Annual average U.S. precipitation is approximately 30 inches.
- The annual average precipitation for the Southeast Texas GCD is 52–54 inches.



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Water System	Street	City	Contact First	Contact Last	Email Address
A-Bar Properties, LLC	10265 County Line Rd.	Willis	Martin	Arriola	<a href="mailto:martarrio@aol.com">martarrio@aol.com</a>
Angelina and Neches River Authority	2901 N. John Redditt Dr.	Lufkin	Chris	Key	<a href="mailto:info@anra.org">info@anra.org</a>
Artesian Springs	2518 CR 2016	Newton	Brian	Carroll	<a href="mailto:artesian Springsresort@yahoo.com">artesian Springsresort@yahoo.com</a>
Batson Lumber Co.	P.O. Box 444	Batson	Ryan	Leloux	
Blue Topaz Utilities	P.O. Box 2927	Conroe	Deanna	Degeyter	<a href="mailto:deanna@bluetopazutilities.com">deanna@bluetopazutilities.com</a>
Bon Wier W.S.C.	P.O. Box 167	Bon Wier	Cody	Jones	<a href="mailto:Cody83jones@gmail.com">Cody83jones@gmail.com</a>
Brookeland Fresh Water Supply District	P.O. Box 5350	Jasper	Joshua	Culbert	<a href="mailto:jculbert@bfwsd.com">jculbert@bfwsd.com</a>
Buck Springs Bottled Water Co.	4829 US Hwy. 96 N.	Jasper	Heather	Greer	<a href="mailto:heather@buckspringstexas.com">heather@buckspringstexas.com</a>
Bullock's Mobile Home Park	P.O. Box 999	Silsbee	Kevin	Wilson	
Buna ISD	P.O. Box 1087	Buna	Tiffany	Spicer	<a href="mailto:tspicer@bunaisd.net">tspicer@bunaisd.net</a>
Burkeville W.S.C.	P.O. Box 220	Burkeville	Tim		<a href="mailto:bwater1@windstream.net">bwater1@windstream.net</a>
Cartwright Springs, LTD	P.O. Box C	Terrell	Robert	Rodgers	<a href="mailto:rwrogers@sbcglobal.net">rwrogers@sbcglobal.net</a>
Chester W.S.C.	P.O. Box 87	Chester	Dale	Clamon	<a href="mailto:cityofchester@eastex.net">cityofchester@eastex.net</a>
City of Beaumont	1550 Pine Street	Beaumont	Troy	Pierce	<a href="mailto:Troy.Pierce@beaumontTexas.gov">Troy.Pierce@beaumontTexas.gov</a>
City of Browndell	P.O. Box 430	Brookeland	Tyncie	Brooks	<a href="mailto:CityofBrowndell@yahoo.com">CityofBrowndell@yahoo.com</a>
City of Colmesneil	P.O. Box 144	Colmesneil	Keith	Barnes	<a href="mailto:cityofcolmesneil@valornet.com">cityofcolmesneil@valornet.com</a>
City of Jasper	P.O. Box 610	Jasper	Eric	Rogers	<a href="mailto:erogers@jaspertx.org">erogers@jaspertx.org</a>
City of Kirbyville	107 S. Elizabeth	Kirbyville	Robert	Byerly	<a href="mailto:rbyerly.cok@yahoo.com">rbyerly.cok@yahoo.com</a>
City of Kountze	P.O. Box 188	Kountze	Tim	Drake	<a href="mailto:tdkch@sbcglobal.net">tdkch@sbcglobal.net</a>
City of Newton	101 North Street	Newton	Donnie	Meek	<a href="mailto:Julie@newtontexas.org">Julie@newtontexas.org</a>
City of Silsbee	1220 Hwy. 327 East	Silsbee	Russell	Hutto	<a href="mailto:rhutto@cityofsilsbee.com">rhutto@cityofsilsbee.com</a>
City of Sour Lake	625 Hwy. 105 West	Sour Lake	Joey	Keel	<a href="mailto:Joeykeel@aol.com">Joeykeel@aol.com</a>
City of Woodville	400 West Bluff	Woodville	Charles	Odom	<a href="mailto:Coon@woodville-tx.gov">Coon@woodville-tx.gov</a>
Cooper, William - Windmill Estates	130 CR 2779	Colmesneil	Marci	Cooper	<a href="mailto:windmillmobilehomeestates@gmail.com">windmillmobilehomeestates@gmail.com</a>
Cougar Country W.S.C	P.O. Box 23	Buna	Edna	Humble	<a href="mailto:deal.amber@yahoo.com">deal.amber@yahoo.com</a>
Crown Pine Timber 1, L.P.	229 North Bowie	Jasper	Tim	Tindell	<a href="mailto:ttindell">ttindell</a>
Cypress Creek W.S.C.	P.O. Box 536	Woodville	Elmer	May	<a href="mailto:rebelem@sbcglobal.net">rebelem@sbcglobal.net</a>
Doucette Water System	P.O. Box 952	Colmesneil	Thomas & Danasa	Rawls	<a href="mailto:yaya2star@gmail.com">yaya2star@gmail.com</a>
East Texas Electric Cooperative, Inc	P.O. Box 631623	Nacogdoches	Edd	Hargett	
Entergy Texas, Inc. - f/k/a East Texas Electric Coop	10055 Grogans Mill Rd, Parkw	The Woodlands	Tory	Theriot	<a href="mailto:ttherio@entergy.com">ttherio@entergy.com</a>
Energy Transfer - ETC	428 CR 200	Brookeland	Todd	McGown	<a href="mailto:tood.mcgown@energytransfer.com">tood.mcgown@energytransfer.com</a>
Evadale W.C. & I.D. #1	P.O. Box 149	Evadale	Amber	Deal	<a href="mailto:deal.amber@yahoo.com">deal.amber@yahoo.com</a>
ExxonMobil Oil Corporation	301 Old Choate Rd.	Houston	Carl/Ryan	Cox/Magruder	<a href="mailto:ryan.j.magruder@exxonmobil.com">ryan.j.magruder@exxonmobil.com</a>
Hardin County W.C. & I.D. #1	101 PineGarden Lane	Sour Lake	Wayne	Turk	<a href="mailto:wturk253@gmail.com">wturk253@gmail.com</a>
Harrisburg WSC	514 CR 232	Jasper	John	Cole	
Harrisburg WSC	P.O. Box 1324	Jasper	Joshua	Culbert	<a href="mailto:hhwatersupply@gmail.com">hhwatersupply@gmail.com</a>
H & H Timber Comapany, LLC	P.O. Box 990	Jasper	Ronald / Donna	Hughes / Meek	<a href="mailto:ron@hhtimber.com">ron@hhtimber.com</a>
Holly-Huff W.S.C.	P.O. Box 1917	Jasper	Joshua	Culbert	<a href="mailto:hhwatersupply@gmail.com">hhwatersupply@gmail.com</a>



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Andrew and Idania Cure (fka Hydro Farms, Inc.)	32507 Hwy. 105	Sour Lake	Andrew and Idania	Cure	<a href="mailto:Hydroair@bellsouth.net">Hydroair@bellsouth.net</a>
Jamestown W.S.C.	P.O. Box 886	Jasper	Joshua	Culbert	<a href="mailto:hjwatersupply@gmail.com">hjwatersupply@gmail.com</a>
Jasper County W.C. & I.D. #1	P.O. Box 1207	Buna	Henry	Ogden	<a href="mailto:JCWCID1@sbcglobal.net">JCWCID1@sbcglobal.net</a>
JBD Burkeville, LLC (fka Runyan Rock)	9590 IH 10	Orange	Danny	Brian	<a href="mailto:Danny@sabinepark.com">Danny@sabinepark.com</a>
Lake Livingston W.S. & S.S.	P.O. Box 1149	Livingston	Scott	Saxe	<a href="mailto:ssaxe@llwater.net">ssaxe@llwater.net</a>
Lakeside Water System	P.O. Box 952	Colmesneil	Thomas & Danasa	Rawls	<a href="mailto:yaya2star@gmail.com">yaya2star@gmail.com</a>
Leoffler Springs, Inc.	9653 FM 1005	Kirbyville	Linda	Taylor	<a href="mailto:Lindalee0926@gmail.com">Lindalee0926@gmail.com</a>
Little Big Horn Services	8029 FM 92	Silsbee	Dolores	Luke	
Little Hawks Early Childhood Center, Inc.	P.O. Box 406	Sour Lake	Christie	Gieseke	<a href="mailto:littlehawksearlychildhood@gmail.com">littlehawksearlychildhood@gmail.com</a>
Louisiana-Pacific Corp	5110 U.S. Hwy 190 East	Jasper	Kevin	Honeycutt	<a href="mailto:Kevin.Honeycutt@lpcorp.com">Kevin.Honeycutt@lpcorp.com</a>
Lumberton M.U.D.	P.O. Box 8065	Lumberton	Robb	Starr	<a href="mailto:robbs@lumbertonmud.com">robbs@lumbertonmud.com</a>
Mauriceville M.U.D.	15509 FM 1442	Orange	Brad	Haeggquist	<a href="mailto:generalmanager@mauricevillemud.com">generalmanager@mauricevillemud.com</a>
MeadWestvaco	P.O. Box 816	Silsbee	Steven	Black	<a href="mailto:Steven.black@westrock.com">Steven.black@westrock.com</a>
Merziere, James - Village Mills RV Park	123 North 9th Street	Neederland	James	Merziere	<a href="mailto:jthmezi@sbcglobal.net">jthmezi@sbcglobal.net</a>
Monach Utilities	1620 Grand Avenue Pkwy., Ste	Pflugerville	Tim	Williford	<a href="mailto:twilliford@swwc.com">twilliford@swwc.com</a>
Ghost Road, LLC (fka Murphy Energy Services)	15237 Williams Dr.	Saratoga	Diane	Murphy	<a href="mailto:ghost.roadllc@yahoo.com">ghost.roadllc@yahoo.com</a>
North Hardin W.S.C.	P.O. Box 55	Silsbee	Bobby	Rogers	<a href="mailto:brogers@nhwsc.com">brogers@nhwsc.com</a>
Net-Mar, LLC	6795 FM 1747	Jasper	Hugh	Hamilton	<a href="mailto:hamiltonconstruction75951@gmail.com">hamiltonconstruction75951@gmail.com</a>
Sisbee Holdings - dba Pine Meadow M.H.P.	46-E Peninsula Center #364	Rolling Hills Est	David	Asemanfar	<a href="mailto:dasemanfar@gmail.com">dasemanfar@gmail.com</a>
Manfield Properties (Quail Valley Estates)	P.O. Box 2076	Silsbee			<a href="mailto:Manfieldproperties@gmail.com">Manfieldproperties@gmail.com</a>
See City of Kountze - Ranchland Property Owners	P.O. Box 188	Kountze	Tim	Drake	<a href="mailto:tdkch@sbcglobal.net">tdkch@sbcglobal.net</a>
Rayburn Country Club Redevelopment	6550 Tram Rd.	Beaumont	Joe	Pennland	<a href="mailto:joerj@qmat.com">joerj@qmat.com</a>
Rayburn Country M.U.D.	P.O. Box 5309	Sam Rayburn	Charles	Manicom	<a href="mailto:ctmanicom@yahoo.com">ctmanicom@yahoo.com</a>
Rural W.S.C.	P.O. Box 832	Jasper	Jimmy	Hensarling	<a href="mailto:jdougharty@sbcglobal.net">jdougharty@sbcglobal.net</a>
Seneca W.S.C.	P.O. Box 27	Woodville	James	MacGinnis	<a href="mailto:senecawater@att.net">senecawater@att.net</a>
Southern Forest Products	P.O. Box 207	Bon Wier	Vicki	Hall	<a href="mailto:office@sfp texas.com">office@sfp texas.com</a>
South Hampton Resources, Inc.	P.O. Box 1636	Silsbee	Patrick	Sayles	<a href="mailto:psayles@trecchem.com">psayles@trecchem.com</a>
South Jasper County W.S.C.	P.O. Box 1939	Buna	Gaylon	Chesser	<a href="mailto:sjcwater@wildblue.net">sjcwater@wildblue.net</a>
South Kirbyville Rural W.S.C.	P.O. Box 189	Call	Shane	Mitchell	<a href="mailto:skrwsc@sbcglobal.net">skrwsc@sbcglobal.net</a>
South Newton W.S.C.	P.O. Box 659	Deweyville	Brandy	Lane	<a href="mailto:snw@att.net">snw@att.net</a>
South Sabine W.S.C.	807 Fairdale Rd.	Hemphill	R.J.	Wells	<a href="mailto:sswsc@valornet.com">sswsc@valornet.com</a>
Tall Timbers W.S.C.	436 Tall Timbers	Burkeville	Jim	Hebert	<a href="mailto:talltimberswsc@yahoo.com">talltimberswsc@yahoo.com</a>
Georgia-Pacific WF & S, LLC	303 S. Temple Drive	Diboll	Patrick	Miller	
Terry Johnson	6343 Biscamp Road	Silsbee	Terry	Johnson	<a href="mailto:tjohnsoninc@gt.rr.com">tjohnsoninc@gt.rr.com</a>
Texas Electric Cooperative, Inc.	2240 Bevil Loop	Jasper	Billy	Caldwell	<a href="mailto:bcaldwell@texas-ec.org">bcaldwell@texas-ec.org</a>
One Floral Group - Timberline	P.O. Box 530	Hillister	Jill	Dinger	<a href="mailto:jdinger@onefloral.com">jdinger@onefloral.com</a>
Timberline Opportunity Fund	611 Chase Dr.	Tyler	Chris	Boone	<a href="mailto:Christopher.w.boone@gmail.com">Christopher.w.boone@gmail.com</a>
Transcontinental Gas Pipe Line, LLC.	29979 Hwy 105	Sour Lake	Brandon	Clayton	<a href="mailto:Brandon.Clayton@williams.com">Brandon.Clayton@williams.com</a>
Tyler County S.U.D.	P.O. Drawer 138	Spurger	Jerry	Lovelady	<a href="mailto:generalmanager@tylercountywater.com">generalmanager@tylercountywater.com</a>
UFP Retail, LLC (Universal Forest Products)	445 FM 92	Silsbee	Michael	Newsom	<a href="mailto:Christopher.bach@ufpi.com">Christopher.bach@ufpi.com</a>
See Timberline Opportunity - Umphrey Land & Cat	P.O. Box 96	Hillister	Sidney/Jill	Allison/Dinger	<a href="mailto:sidney.allison@utexas.edu">sidney.allison@utexas.edu</a>

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Undine Texas, LLC (formerly Pure Utility wells)	17681 Telge Rd.	Cypress	Sarah	Carlock	<a href="mailto:scarlock@undinellc.com">scarlock@undinellc.com</a>
Undine Texas, LLC (formerly Pure Utility wells)			Eric	Martin	<a href="mailto:eric.martin@h20innovation.com">eric.martin@h20innovation.com</a>
Upper Jasper County Water Authority	269 C.R. 080	Jasper	Shelley	Vaught	<a href="mailto:ujcwa80@gmail.com">ujcwa80@gmail.com</a>
Village Mills Creek Property, LLC	26830 Kuykendahl Rd., Ste. 20	Tomball	Rahim	Maknojia	<a href="mailto:rahim@fuelmaxx.net">rahim@fuelmaxx.net</a>
Warren W.S.C.	P.O. Box 95	Warren	Heather	Brown	<a href="mailto:warrenwater@sbcglobal.net">warrenwater@sbcglobal.net</a>
Wapiti Energy, LLC	800 Gessner, Suite 1000	Houston	Charles	Nye	
West Hardin W.S.C.	P.O. Box 286	Saratoga	Robert	Ryan	<a href="mailto:whwsc@netzero.com">whwsc@netzero.com</a>
Westview Investments, Inc.	21021 Spring Brook Plaza Dr.,	Spring	Nizarali	Momin	<a href="mailto:nizar@fuelmaxx.net">nizar@fuelmaxx.net</a>
Westwood W.S.C.	317 Wildbriar Drive	Jasper	Becky	West	<a href="mailto:wwsc12@gmail.com">wwsc12@gmail.com</a>
Wildwood Property Owners Assoc.	P.O. Box 903	Village Mills	Carla	McKee	<a href="mailto:kathy.wpoa@gmail.com">kathy.wpoa@gmail.com</a>
Woodville Hardwoods	P.O. Box 2144	Woodville	Cody	Anthony	<a href="mailto:cody.woodvillehardwoods@gmail.com">cody.woodvillehardwoods@gmail.com</a>
Woodville Pellets, LLC	164 CR 1040	Woodville	Kristina	Nielson	<a href="mailto:Kristina.Nielson@graanulinvest.com">Kristina.Nielson@graanulinvest.com</a>
John Martin	P.O. Box 1407	Jasper	John	Martin	<a href="mailto:jmartin@setgcd.org">jmartin@setgcd.org</a>
The Woods Mobile Home Park	P.O. Box 181	Jasper	Stephen	McClure	
Slash C. Sawmill	2531 Old Brookeland Rd.	Jasper	Carroll	Brian	
Pure Utilities, L.C. / See Undine Texas	207 W. Mill Street	Livingston	Stonewall	Jackson	<a href="mailto:pureutils@livingston.net">pureutils@livingston.net</a>
Paradise Entertainment, Inc.	P.O. Box 8006	Lumberton	Jack	Mossburg	<a href="mailto:pat@pwoftexas.com">pat@pwoftexas.com</a>
Plains Exploration and Production, Co.	400 East Kaliste Saloom Rd., St Laffayette		Jerome	Meaux	
Mike Bruce	2364 FM 105, Evadale Racewa	Evadale			
Steve Simpson	P.O. Box 570	Brookeland	Steve	Simpson	
Milestone Environmenta Services (fka Oilfield Was	15721 Park Row #150	Houston	Chris	Carroll	<a href="mailto:chriscarroll@milestone-es.com">chriscarroll@milestone-es.com</a>
Runyan Rock / See JBD Burkeville LLC	P.O. Box 68	Newton	Bric	Barrow	<a href="mailto:Barrow_surveying@yahoo.com">Barrow_surveying@yahoo.com</a>
IESI Corporation	P.O. Box 1509	Kountze	Chancie	Bailey	<a href="mailto:Chancie.Bailey@progressivewaste.com">Chancie.Bailey@progressivewaste.com</a>
East Newton W.S.C.	P.O. Box 956	Newton	Michael	Horn	

District V.I.P.s  
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	B	C	F	G	H	J	K	L	M
1	First Name	Last Name	Position	Entity	Address 1	City	State	Zip	Email
2	Anderson	Land	Mayor	City of Jasper	465 South Main	Jasper	TX	75951	
3	Ronald	Sample	Council Member	City of Jasper	465 South Main	Jasper	TX	75951	
4	Marcus	Barber	Council Member	City of Jasper	465 South Main	Jasper	TX	75951	
5	DeMarcus	Holmes	Council Member	City of Jasper	465 South Main	Jasper	TX	75951	
6	Angel	McCrosky	Council Member	City of Jasper	465 South Main	Jasper	TX	75951	
7	Lequin	Hilderbrand	Council Member	City of Jasper	465 South Main	Jasper	TX	75951	
8	Fred	Williams	Mayor	City of Kountze	P.O. Box 188	Kountze	TX	77625	
9	Glenn	Matthews	Mayor Pro-Tem	City of Kountze	P.O. Box 188	Kountze	TX	77625	
10	Andrea	Cutwright	Alderwoman	City of Kountze	P.O. Box 188	Kountze	TX	77625	
11	Jack	Darden	Alderman	City of Kountze	P.O. Box 188	Kountze	TX	77625	
12	James	Shirley	Alderman	City of Kountze	P.O. Box 188	Kountze	TX	77625	
13	Barbara	Greer	Alderwoman	City of Kountze	P.O. Box 188	Kountze	TX	77625	
14	Tim	Drake	City Administrator	City of Kountze	P.O. Box 188	Kountze	TX	77625	
15	Josh	Marble	Public Works Director	City of Kountze	P.O. Box 188	Kountze	TX	77625	
16	Don	Surratt	Mayor	City of Lumberton	836 N. Main	Lumberton	TX	77657	
17	Lynette	Barks	Councilman	City of Lumberton	836 N. Main	Lumberton	TX	77657	
18	Kenneth	Wahl	Councilman	City of Lumberton	836 N. Main	Lumberton	TX	77657	
19	Kimberly	Cline	Councilman	City of Lumberton	836 N. Main	Lumberton	TX	77657	
20	David	Maniscalco	Mayor Pro-Tem	City of Lumberton	836 N. Main	Lumberton	TX	77657	
21	Ken	Burkhalter	Councilman	City of Lumberton	836 N. Main	Lumberton	TX	77657	
22	Dan	Bell	Councilman	City of Lumberton	836 N. Main	Lumberton	TX	77657	
23	Steve	Clark	City Manager	City of Lumberton	836 N. Main	Lumberton	TX	77657	
24	Mark	Whiteley	City Engineer	City of Lumberton	836 N. Main	Lumberton	TX	77657	
25	Joe	Blacksher	Commissioner Pct #1	Tyler County Commis	100 W. Bluff	Woodville	TX	75979	
26	Doug	Hughes	Commissioner Pct #2	Tyler County Commis	100 W. Bluff	Woodville	TX	75979	
27	Mike	Marshall	Commissioner Pct #3	Tyler County Commis	100 W. Bluff	Woodville	TX	75979	
28	Buck	Hudson	Commissioner Pct #4	Tyler County Commis	100 W. Bluff	Woodville	TX	75979	
29	Milton	Powers	County Judge	Tyler County	100 W. Bluff St., Room	Woodville	TX	75979	
30	Mark	Allen	County Judge	Jasper County	121 N. Austin, Room 1	Jasper	TX	75951	
31	Seth	Martindale	Commissioner	Jasper County Comm	146 C.R. 80	Jasper	TX	75951	
32	Kevin	Holloway	Commissioner	Jasper County Comm	1867 FM 777	Jasper	TX	75951	
33	Willie	Stark	Commissioner	Jasper County Comm	191 CR 411	Kirbyville	TX	75956	
34	Dennis	Marks	Commissioner	Jasper County Comm	P.O. Box 1914	Buna	TX	77612	
35	Ronald	Cochran	County Judge	Newton County	110 Court Street	Newton	TX	75966	
36	Danny	Bentsen	Commissioner	Newton County Comr	129 C.R. 3073	Kirbyville	TX	75956	
37	Phillip	White	Commissioner	Newton County Comr	988 FM 1415 N.	Wiergate	TX	75977	
38	Gary	Fomby	Commissioner	Newton County Comr	2240 Hwy. 87 N.	Newton	TX	75966	
39	Leonard	Powell	Commissioner	Newton County Comr	P.O. Box 1205	Deweyville	TX	77614	

District V.I.P.s  
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	B	C	F	G	H	J	K	L	M
40	Wayne	McDaniel	County Judge	Hardin County	300 Monroe Street	Kountze	TX	77625	
41	L. W.	Cooper, Jr.	Commissioner	Hardin County Comm	1290 Hwy. 327 W.	Silsbee	TX	77656	
42	Chris	Kirkendall	Commissioner	Hardin County Comm	P.O. Box 1436	Kountze	TX	77625	
43	Amanda	Young	Commissioner	Hardin County Comm	P.O. Box 225	Saratoga	TX	77585	
44	Ernie	Koch	Commissioner	Hardin County Comm	P.O. Box 8166	Lumberton	TX	77657	
45	Amy	Bythewood	Mayor	City of Woodville	400 West Bluff	Woodville	TX	75979	
46	Mike	Cabaniss	Alderman	City of Woodville	400 North Nellius	Woodville	TX	75979	
47	Mandy	Risinger	City Administrator	City of Woodville	400 West Bluff	Woodville	TX	75979	
48	Joyce	Wilson	Mayor Pro-Tem	City of Woodville	400 West Bluff	Woodville	TX	75979	
49	Kelly	Dillard	Alderwoman	City of Woodville	400 West Bluff	Woodville	TX	75979	
50	Clifton	Wright	Alderman	City of Woodville	400 West Bluff	Woodville	TX	75979	
51	Lee	Mann	Alderman	City of Woodville	400 West Bluff	Woodville	TX	75979	
52	Charles	Odom	Public Works Director	City of Woodville	400 West Bluff	Woodville	TX	75979	
53	Carolyn	Williams	Council Member	City of Ivanhoe	870 Charmaine Dr. E.	Woodville	TX	75979	<a href="mailto:Carolyn.Williams@cityofivanhoe.texas.gov">Carolyn.Williams@cityofivanhoe.texas.gov</a>
54	Joe	McWhorter	Council Member	City of Ivanhoe	870 Charmaine Dr. E.	Woodville	TX	75979	<a href="mailto:jmcwhorter@cityofivanhoe.texas.gov">jmcwhorter@cityofivanhoe.texas.gov</a>
55	Justin	Gregory	Council Member	City of Ivanhoe	870 Charmaine Dr. E.	Woodville	TX	75979	<a href="mailto:Justin.Gregory@cityofivanhoe.texas.gov">Justin.Gregory@cityofivanhoe.texas.gov</a>
56	Skip	Blackstone	Mayor	City of Ivanhoe	870 Charmaine Dr. E.	Woodville	TX	75979	<a href="mailto:Skip.blackstone@cityofivanhoe.texas.gov">Skip.blackstone@cityofivanhoe.texas.gov</a>
57	David	Herrington	Council Member	City of Ivanhoe	870 Charmaine Dr. E.	Woodville	TX	75979	<a href="mailto:David.Herrington@cityofivanhoe.texas.gov">David.Herrington@cityofivanhoe.texas.gov</a>
58	Will	Warren	Mayor Pro-Tem	City of Ivanhoe	870 Charmaine Dr. E.	Woodville	TX	75979	<a href="mailto:Will.Warren@cityofivanhoe.texas.gov">Will.Warren@cityofivanhoe.texas.gov</a>
59	C.D.	Woodrone	City Secretary	City of Ivanhoe	870 Charmaine Dr. E.	Woodville	TX	75979	<a href="mailto:Cityofivanhoe@cityofivanhoe.texas.gov">Cityofivanhoe@cityofivanhoe.texas.gov</a>
60	Mark	Muckleroy	Mayor Pro-Tem	City of Silsbee	105 S. Third Street	Silsbee	TX	77656	<a href="mailto:MWMuck1956@gmail.com">MWMuck1956@gmail.com</a>
61	Thomas	Tyler	Councilman	City of Silsbee	105 S. Third Street	Silsbee	TX	77656	
62	William	Bass	Councilman	City of Silsbee	105 S. Third Street	Silsbee	TX	77656	<a href="mailto:wmbass1957@gmail.com">wmbass1957@gmail.com</a>
63	Paul	Davis	Councilman	City of Silsbee	105 S. Third Street	Silsbee	TX	77656	<a href="mailto:pauld@paulyleadslinger.com">pauld@paulyleadslinger.com</a>
64	Adalaide	Balaban	Councilman	City of Silsbee	105 S. Third Street	Silsbee	TX	77656	<a href="mailto:cash3205@aol.com">cash3205@aol.com</a>
65	Danny	Reneau	Mayor	City of Silsbee	105 S. Third Street	Silsbee	TX	77656	<a href="mailto:dreneau52@gmail.com">dreneau52@gmail.com</a>
66	Roy	Gravis	Councilman	City of Silsbee	105 S. Third Street	Silsbee	TX	77656	<a href="mailto:roygravis@icloud.com">roygravis@icloud.com</a>
67	DeeAnn	Zimmerman	City Manager	City of Silsbee	105 S. Third Street	Silsbee	TX	77656	<a href="mailto:DeeAnn@cityofsilsbee.com">DeeAnn@cityofsilsbee.com</a>
68	John	Pollock	Mayor	City of Newton	101 North Street	Newton	TX	75966	<a href="mailto:mayor@newtontexas.org">mayor@newtontexas.org</a>
69	Donnie	Meek	City Administrator	City of Newton	101 North Street	Newton	TX	75966	
70	John	Jefferson	Councilman	City of Newton	101 North Street	Newton	TX	75966	
71	Joe	Miller	Councilman	City of Newton	101 North Street	Newton	TX	75966	
72	Joni	Miller	Councilman	City of Newton	101 North Street	Newton	TX	75966	
73	Tommy	Westbrook	Councilman	City of Newton	101 North Street	Newton	TX	75966	
74	James	Bean	Councilman	City of Newton	101 North Street	Newton	TX	75966	
75	Frank	George	Mayor	City of Kirbyville	107 S. Elizabeth	Kirbyville	TX	75956	
76	Daryl	Cheney	Lead Operator	City of Kirbyville	107 S. Elizabeth	Kirbyville	TX	75956	
77	Laura	Adams	Mayor Pro-Tem	City of Kirbyville	107 S. Elizabeth	Kirbyville	TX	75956	
78	Andra	Grant	Councilman	City of Kirbyville	107 S. Elizabeth	Kirbyville	TX	75956	



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	B	C	F	G	H	J	K	L	M
79	Vondol	Bailey	Councilman	City of Kirbyville	107 S. Elizabeth	Kirbyville	TX	75956	
80	Wayne	Love	Councilman	City of Kirbyville	107 S. Elizabeth	Kirbyville	TX	75956	
81	Amanda	Gates	Councilman	City of Kirbyville	107 S. Elizabeth	Kirbyville	TX	75956	
82	Duane	Crews	Mayor	City of Colmesneil	P.O. Box 31	Colmesneil	TX	75938	
83	Bubba	Sheffield	Mayor Pro-Tem	City of Colmesneil	501 Hickory	Colmesneil	TX	75938	
84	Dennis	Moffett	Alderman	City of Colmesneil	1009 Shirley Lane	Colmesneil	TX	75938	
85	Gene	Allen	Alderman	City of Colmesneil	505 Ogden Dr.	Colmesneil	TX	75938	
86	Billy	Andrus	Alderman	City of Colmesneil	408 Oak St.	Colmesneil	TX	75938	
87	Virgie	Sullivan	Alderman	City of Colmesneil	P.O. 1012	Colmesneil	TX	75938	
88	Sam	Ashworth	Director	SETGCD	954 Tucker Hill Rd.	Silsbee	TX	77656	
89	Wendy	Turner	Director	SETGCD	P.O. Box 816	Silsbee	TX	77656	
90	Olen	Bean	Director	SETGCD	156 Private Rd. 8031	Newton	TX	75966	
91	Mike	Adams		SETGCD	3507 Highway 87 North	Newton	TX	75966	
92	Robert C.	Woods		SETGCD	Rt. 1, Box 1546	Newton	TX	75966	
93	Cody	Jones	Director	SETGCD	101 North Street	Newton	TX	75966	
94	Julie	Simmons-Carr		SETGCD	101 North Street	Newton	TX	75966	
95	Bobby	Rogers	Treasurer/Secretary	SETGCD	P.O. Box 55	Silsbee	TX	77656	
96	Roger	Fussell	Vice President	SETGCD	P.O. Box 8065	Lumberton	TX	77657	
97	Charles	Zimmerman	Director	SETGCD	298 CR 2152	Woodville	TX	75979	
98	Jim	Boone	Director	SETGCD	1930 CR 2570	Colmesneil	TX	75938	
99	Greg	Wobbe	Director	SETGCD					
100	Robert	Nichols	Senator		329 Neches Street	Jacksonville	TX	75766	
101	Dade	Phelan	Representative		812 N. 16th Street	Orange	TX	77630	
102	Trent	Ashby	Representative		2915 Atkinson Dr.	Lufkin	TX	75901	
103	Earnest	Bailes	Representative		P.O. Box 1116	Shepherd	TX	77371	
104	Travis	Clardy	Representative		202 E. Pilar	Nacogdoche	TX	75961	
105	James	White	Representative					75901	<a href="mailto:James.White@TFSC.Texas.Gov">James.White@TFSC.Texas.Gov</a>
106	Roy	Parker			7397 FM 777	Jasper	TX	75951	
107	Silsbee Bee				404 Hwy. 96 South	Silsbee	TX	77656	
108	Tyler County Booster				P.O. Box 339	Woodville	TX	75979	

Drillers - District and Surrounding Counties  
 Summer 2024 Newsletter - Mailed 7/11/2024

	A	B	C	D	E	F	G	H
1	Suffix	LAST NAME	FIRST NAME	ADDRESS 1	CITY	STATE	ZIP	COUNTY
2								
3	Mr.	Bell	Evan	2455 Cardinal Dr, St.	Beaumont	TX	77705	Jefferson
4	Mr.	Bishop	Nathan	P.O. Box 1186	Newton	TX	75966	Newton
5	Mr.	Bishop	David	622 CR 2049	Newton	TX	75966	Newton
6	Mr.	Bowman	Harold	925 Scott Drive	Vidor	TX	77662	Orange
7	Mr.	Brevard	Daniel	523 FM 1819	Pollok	TX	75969	Angelina
8	Mr.	Britton	Claude	P.O. Box 12114	Beaumont	TX	77726	Jefferson
9	Mr.	Britton	Steven	P.O. Box 12114	Beaumont	TX	77726	Jefferson
10	Mr.	Bryson	Harry	P.O. Box 213	Winnie	TX	77665	
11	Mr.	Bufkin	Stephen	2425 FM 3229	Bronson	TX	75930	Sabine
12	Mr.	Casarez	Patrick	914 North Washington	Cleveland	TX	77327	Liberty
13	Mr.	Chapman	Keith	16693 Hwy. 147 N.	Broadus	TX	75929	San Augustine
14	Mr.	Davis	Graham	209 CR 2024	Newton	TX	75966	Newton
15	Mr.	Dodds	Keith	1609 S. Chestnut, Ste	Lufkin	TX	75901	Angelina
16	Mr.	Elms	Thomas	P.O. Box 12114	Beaumont	TX	77726	Jefferson
17	Mr.	English	James	2403 North Raguet St	Lufkin	TX	75904	Angelina
18	Mr.	English	Ronald	2403 North Raguet St	Lufkin	TX	75904	Angelina
19	Mr.	Gilbert	Marvin	22502 Hwy. 105 E.	Cleveland	TX	77328	Liberty
20	Mr.	Gore	Dale	3710 Swinney Rd.	Silsbee	TX	77656	Hardin
21	Mr.	Greak	James	P.O. Box 92	Liberty	TX	77575	Liberty
22	Mr.	Griffin	Donald	2598 Blue Water Rd.	Livingston	TX	77351	Polk
23	Mr.	Guichard	Lance	P.O. Box 2000	Crowley	LA	70527	
24	Mr.	Holmes	Kenneth	8625 Hwy. 69 S.	Kountze	TX	77625	Hardin
25	Ms.	Holt	Geneva	4112 FM 1005	Jasper	TX	75951	Jasper
26	Mr.	Jones	Dale	205 Shannon Rd.	Vidor	TX	77662	Orange
27	Mr.	Jones	Wes	205 Shannon Rd.	Vidor	TX	77662	Orange
28	Mr.	Jones	Terry	235 Shannon Rd.	Vidor	TX	77662	Orange
29	Mr.	Jones	Whit	1555 Evangeline Dr.	Vidor	TX	77662	Orange
30	Mr.	Jones	Bobby	408 CR 018	Jasper	TX	75951	Jasper
31	Mr.	McDaniel	Boyd	P.O. Box 1149	Livingston	TX	77351	Polk
32	Mr.	Mizell	Ronald	58 CR 3011	Dayton	TX	77535	Liberty
33	Mr.	Newman	Mitchell	4112 FM 1005	Jasper	TX	75951	Jasper
34	Mr.	Odom	Michael	9021 Oak Rd.	Orange	TX	77630	Orange

Drillers - District and Surrounding Counties  
 Summer 2024 Newsletter - Mailed 7/11/2024

	A	B	C	D	E	F	G	H
35	Mr.	Padgett	Albert	5650 Jefferson St.	Vidor	TX	77662	Orange
36	Mr.	Paskell	Fred	235 Decker	Vidor	TX	77662	Orange
37	Mr.	Paskell	Keith	235 Decker	Vidor	TX	77662	Orange
38	Mr.	Payne	Dillin	408 CR 018	Jasper	TX	75951	Jasper
39	Mr.	Payne	Jason	1967 CR 661	Dayton	TX	77535	Liberty
40	Mr.	Peters	Danny	Rt. 1, Box 68	Kirbyville	TX	75956	Jasper
41	Mr.	Robinson	Norman	235 Decker Rd.	Vidor	TX	77662	Orange
42	Mr.	Primo	Trejo	P.O. Box 675	Belleville	TX	77418	
43	Mr.	Stevenson	Jason	1985 Dublin	Vidor	TX	77662	Orange
44	Mr.	Turk	Mitch	P.O. Box 1012	Silsbee	TX	77656	Hardin
45	Mr.	Vanya	David	3820 St. Hwy. 146 S.	Livingston	TX	77351	Polk
46	Mr.	Vanya	John	300 Jack Nettles Rd.	Livingston	TX	77351	Polk
47	Mr.	West	Randy	P.O. Box 82	Batson	TX	77519	Hardin
48	Mr.	Williams	Jon	336 Dickens Oaks W.	Livingston	TX	77351	Polk
49	Mr.	Willoughby	Matthew	2455 Cardinal Dr, St.	Beaumont	TX	77705	Jefferson
50	Mr.	Wilson	Jackie	7247 FM 252	Jasper	TX	75951	Jasper
51	Mr.	Wright	Curtis	2585 Tidwell	Diboll	TX	75941	Angelina



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# Newsletters

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Summer 2024



Fall 2023



Fall 2022



Fall 2021



Fall 2020



Fall 2019





Winter 2018



Summer 2017



Spring 2016



Fall 2014



Winter 2013



Summer 2013



Fall 2012



Spring 2012



Summer 2011



Fall 2010



## Spring 2010

### Board Meetings

2nd Thursday of each month beginning at 10:00 AM unless otherwise noticed.

No Board meetings scheduled for August or December unless otherwise noticed.

Meetings are held at the Jasper County Courthouse Annex Building  
271 E. Lamar, Suite 202, 2nd Floor –  
Emergence Operations Center Offices  
Jasper, TX 75951

### Important links

- [Meeting and Hearing Notes](#)
- [Groundwater Management Area 14 Region I](#)
- [Water Planning Group](#)
- [Conservation](#)
- [Drought Information](#)
- [Newsletters](#)
- [Reports / DFCs](#)
- [Source Water Protection](#)
- [Understanding Texas Aquifers](#)



Summer 2024



**Board of Directors:**

- Olen Bean, President
- Bobby Rogers, Vice Pres.—Hardin
- Charles Zimmerman, Treasurer—Tyler
- Sam Ashworth, Director—Hardin
- Robb Starr, Director—Hardin
- Billy Ted Smith, Director—Jasper
- Steven Black, Director—Jasper
- Greg Kelley, Director—Jasper
- Thomas Hawthorne, Director—Newton
- Cody Jones, Director—Newton
- Rick Russler, Director—Tyler
- Open Seat—Newton
- Open Seat—Tyler

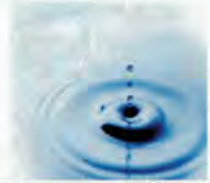
John Martin, General Manager  
 John Stover, Esq., Counsel

**Did you Know?**  
 Texas is the only state  
 that considers  
 groundwater a private  
 property right.

**Inside this issue:**

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Drought Impacts on Static Water Levels	2 - 3
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Seasonal Drought Outlook	4
Conservation Corner	5
Static Water Level Well Map	6
Spring 2024 Static Water Levels	7

# SETGCD WELL MONITOR



## DISTRICT LOSES ONE OF THE BEST FAMILY, FRIENDS, AND COLLEAGUES SADDENED BY UNEXPECTED LOSS

As you may know, the District lost its Board President, Roger Fussell, just after the start of the year. Roger was the senior member of the Board having been originally appointed to the District’s Board of Directors by the Hardin County Commissioner’s Court and Judge Caraway in 2006. Roger became the Vice President of the Board in the fall of 2009. In 2018 Walter Glenn retired from the Board as its President and the Jasper, Newton, Hardin, and Tyler County Commissioner’s Courts unanimously appointed Roger to be Mr. Glenn’s successor.



Roger was a consummate water industry professional, not only managing public water systems but a true supporter of all water management professionals. In addition to being on the District Board for 17 years, Roger was part of the Texas Water Utilities Association for 30+ years. He was always aware of the importance of those who were licensed and trained to manage our water resources and waste water treatment. We will miss not only his leadership, but his story telling as well, which always put a smile on your face.

## IMPACTS OF A DRY SUMMER OR PROLONGED DROUGHT ON LOCAL STATIC WATER LEVELS

One of the more important functions of the District is to monitor the static water levels of the Gulf Coast Aquifer System. The Gulf Coast Aquifer System is called such because it is comprised of several slightly different layers. From the surface down these layers are known as the Chicot, Evangeline, Burkeville Confining, Jasper, and Catahoula aquifers with the Chicot being the primarily used layer throughout most of the District. After all, why drill a well 1,000 feet deep or deeper to the Evangeline or Jasper layer when 100–500 feet down into the Chicot is often deep enough even for moderately high volume commercial wells.

The District has a network comprised of approximately 50 observation wells located throughout the four counties of the District that are visited twice a year to collect static water level data. The District has only been collecting the data since 2008, however in most instances our observation wells have data going back much further that was collected either by the Texas Water Development Board or the USGS. Some of the observation wells have data going back nearly 70 years.

Many people wonder and worry about what happens to our aquifer and the static water levels and how it might affect their water wells when we experi- (Continued on page 2)



## Appointment of New Executive Committee

Olen Bean, having been the District's Vice President prior to the loss of Roger, lead the District until the Jasper, Newton, Hardin, and Tyler County Commissioner's Courts took official steps to appoint Mr. Bean as the Board President. Mr. Bean was originally appointed to the Board by the Newton County Commissioner's Court in 2011. After Mr. Bean became the Board President the full board took action at its March 14, 2024 meeting voting to move Bobby Rogers (formerly the District's Sec./Treas.) to the Vice President position and to make Director Zimmerman the District Secretary/Treasurer. Both of these gentlemen have been longstanding members of the Board, with Mr. Rogers serving since 2008 and Mr. Zimmerman since 2012.



Olen Bean, President



Bobby Rogers, Vice President

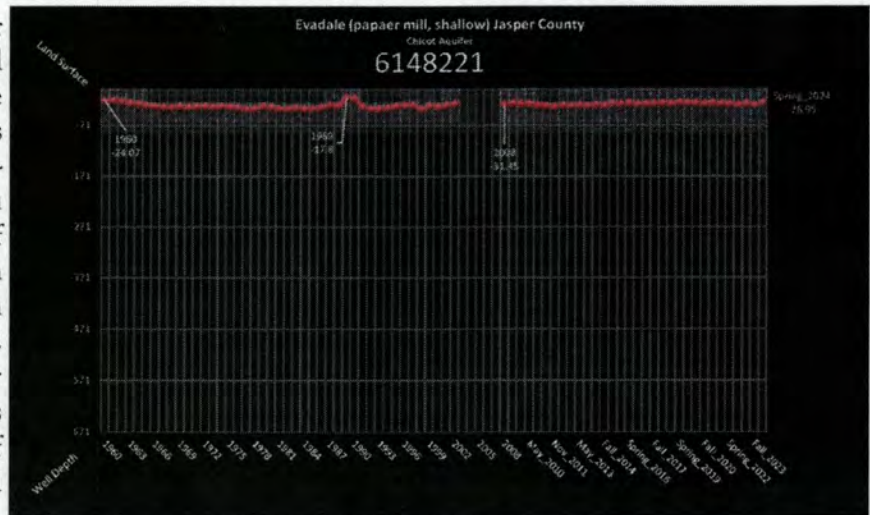


Charles Zimmerman, Sec./Treas.

### Continued from page 1—Impacts of Drought on Local Static Water Levels

ence drought conditions, as we did in 2023 or the prolong 2010–2012 drought. Fortunately for us, we live in an area that not only has a healthy aquifer that has not been over taxed, we also have the luxury of 3 river systems, the two largest reservoirs in the state, and an extremely healthy annual average rainfall. These factors combine to keep our water levels relatively stable even through periods of extended drought.

As you can see from the graph for Well 6148221, the static water level has remained relatively stable for the 60 years of data shown. The well is 671 feet deep and as you can see fluctuates only nominally. When you take into consideration the depth of the well and the water column, which averages about 640 feet in depth, even during the prolonged 2010–2012 drought, the water level never dropped below -35.4 feet, which was a change in the water column of about 1% from the pre-drought level taken in May of 2009.



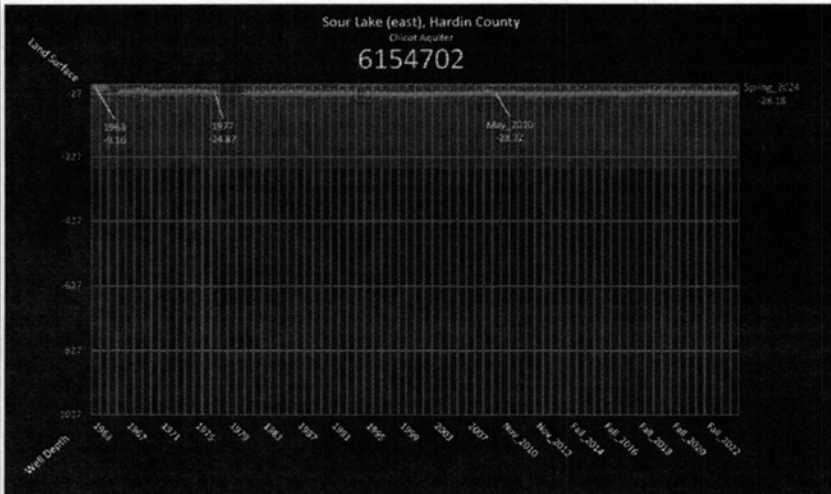
Another very interesting fact about Well 6148221 is that it is located just across the street from the Evadale papermill which uses a combined groundwater and surface water amount exceeding 10s of millions of gallons a day (and has been doing so since the 1950s).

Continued on page 3



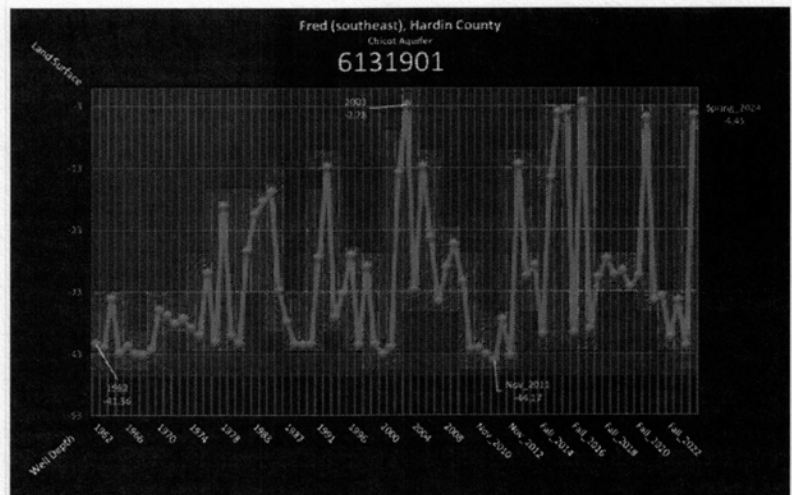
Continued from page 2—Impacts of Drought on Local Static Water Levels

Another well with a long history of water level readings is Well 6154702 which is located on Hwy. 105 in Sour Lake. This well has regular recording going back 60 years to 1963. The well is a little deeper and further south in the District putting this well in the Evangeline layer of the Gulf Coast Aquifer. The well was drilled in 1951 with the earliest know water level having been taken in 1959 which indicates that it was 5.57 feet below the surface. Between 1959 and 1966, for unknown reasons, there was a moderate drop in the static water level to 23.94 below the surface but it has remained extremely stable since with the latest measurement being 28.18 feet below the surface. In the case of this



well, the drop in static water level to approximately -32 feet during the 2010–2012 drought was approximately a 0.5% drop in the water column of this well.

Most wells that have 100 feet or more of depth to them show little impact from short to mid length droughts, but shallow wells can be a completely different story. Shallow wells are very susceptible to current weather conditions and during drought periods may see drastic drops in static water levels. Conversely, when we are experiencing wet conditions, those same wells can recover water just as quickly as they have lost it. This is clearly visualized by the graph for Well 6131901, which is located in northeast Hardin County. This well was drilled in 1940 and is the typical hand dug well of that era. This well is only 53 feet deep and is no where near as stable as the wells that are deeper. The change from the fall 2023 measurement to the spring 2024 measurement was an astounding 37 foot increase in the water level. This well had a similar recovery after the 2010–2012 drought with nearly a 31 foot recovery. Another interesting element of this well that is the fact that even during prolonged droughts the well maintained approximately 10 feet of water in the well. Also interesting is that the earliest water level recorded for this well was taken in April of 1942 and was -38.79 feet, far lower than our latest measurement.



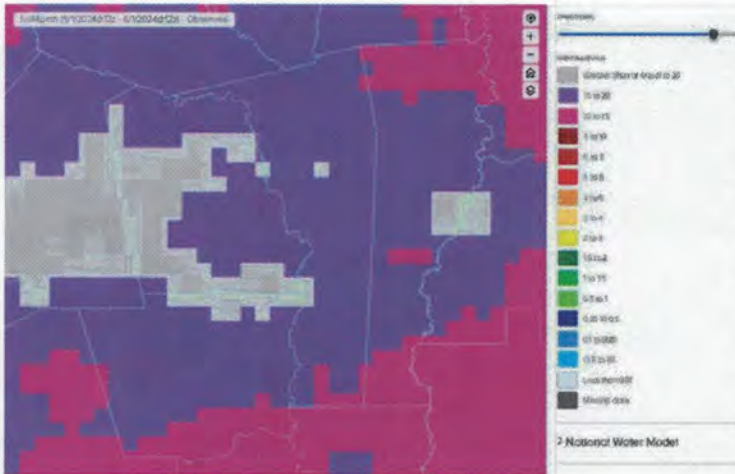
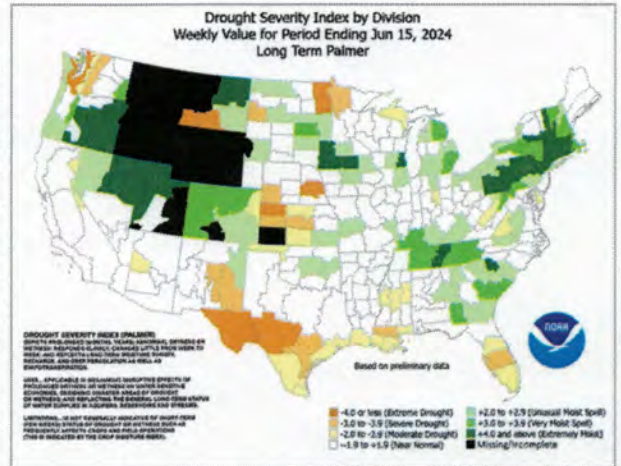
Will wells go dry during droughts, yes – of course wells will go dry from time to time; however, we are fortunate to live in an area that hasn't seen its groundwater resources overused and has a groundwater district in place to manage the aquifer. I once heard a local water professional say he thought that our area of the Gulf Coast Aquifer System was drought proof. While I don't want to temp fate, I do think it is safe to say that the Gulf Coast Aquifer System in our area is relatively drought resistant.

For more static water level information see pages 6 and 7.



## DROUGHT CONDITIONS

It's a bit difficult sometimes to understand drought maps. A good example of this is the current U.S. Palmer Drought Severity Index (PDSI) which shows our area to be experiencing near normal conditions; however the majority of the District has already received nearly its annual average amount of rainfall for the year, with one rain gauge in Tyler County reading over 70 inches of rainfall since January 1. Needless to say, we have improved significantly from last year when we were experiencing D4 Exceptional Drought Conditions for several consecutive months. The D4 designation is the most severe conditions the U.S. Drought Monitor gives, and it is not often seen here in East Texas.



As you can see from the National Water Prediction Services map (left), the rainfall totals for May alone ranged from 10 to well over 20 inches, with the majority of the District having received between 15 and 22 inches for May. Those May totals combined with several other wet months this year have some areas of the District already reaching our annual average of 52–54 inches of rainfall.

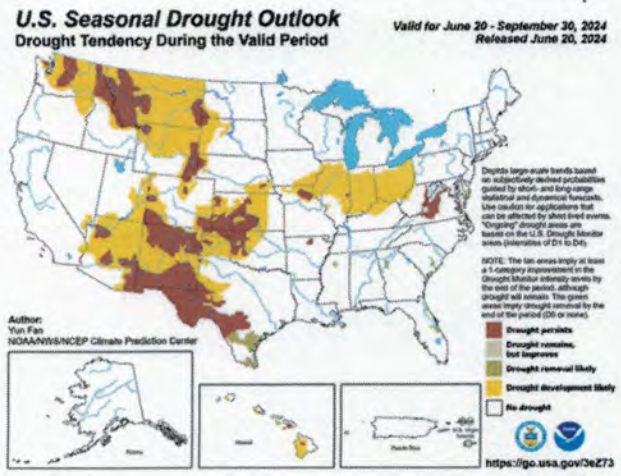
How the remainder of the year will play out with regard to rainfall is, of course, unknown. On one hand we are expecting an active hurricane season which can easily drop a “little” extra rain on the area (anyone recall Hurricane

Harvey?) but the prevailing weather pattern is expected to revert to a La Nina pattern which typically means hotter and drier weather like we saw last year.

## SEASONAL DROUGHT OUTLOOK

As you can see from the June 20, 2024, U.S. Seasonal Drought Outlook map (right), here in east Texas we are not expected to develop any drought conditions in the next several months. The second half of the year may be interesting with the predicted active hurricane season and the La Nina weather pattern expected to return. This makes it difficult to predict what our precipitation totals will be for the year.

The Big Bend area has not been as fortunate as the eastern, and to a lesser degree the southern portions, of Texas and is experiencing moderate to extreme drought conditions according to the June 20, 2024 U.S. Drought Monitor (not pictured).





## Drought Preparedness—Reduce Wasteful Practices to Bank Water for Future Use

Conservation Corner

It was just last year that much of the Southeast Texas Groundwater Conservation District (and east Texas in general) was experiencing very severe drought conditions. How quickly things have changed - from drought conditions to wet conditions in only a matter of months. It's times like this that it's difficult to talk to people about conserving water, especially when, as of June 1, some parts of the District have received or surpassed (in some instances significantly surpassed) the annual average rainfall for the entire year. Even in an average year we typically have an abundance of rain with an average annual amount of 52 - 54 inches. Having already hit our annual average in some places and with a very active hurricane season predicted, it is quite possible that we could get 70 or more inches of rain in 2024 (one rain gauge in Tyler County has actually already surpassed 70 inches).

Although we have experienced wet conditions for the first five months of the year, predictions are that we will be transitioning back to a La Nina weather pattern which typically brings warmer and drier weather as was the case during the summer of 2023. Prolonged La Ninas are not unheard of, as was the case in 2010 - 2012 which was one of the driest periods in Texas history. Most areas within the Southeast Texas Groundwater Conservation District saw 30% - 35% less rain than normal during that period. The northwestern portion of the District (Woodville area) saw closer to 50% less rainfall. Because drought is always possible, it is best that we conserve our most precious resource when we can so that it will be available in the future. Just because we have plenty right now, doesn't mean that we shouldn't stay water wise and conserve whenever we can. Don't forget, it was only last summer that some parts of the District were experiencing category D4 Exceptional Drought Conditions, the highest drought rating on the U.S. Drought Monitor, which is a weekly map of drought conditions that is produced jointly by the National Oceanic and Atmospheric Administration (NOAA), the U.S. Department of Agriculture, and the National Drought Mitigation Center (NDMC).

Although it may seem unnecessary to conserve during wet periods, it is always a good practice so that when we are experiencing drought conditions, it doesn't hurt as much.

Here are some ways in which you can reduce your groundwater consumption and prevent waste:

### Conserving Water Indoors:

- Using efficient showerheads and aerators on your faucets can significantly reduce the amount of water you use. In fact, installing an efficient showerhead is one of the most effective water saving steps you can take inside your house. You can save a little more water by getting into the shower as soon as possible - don't let the water run too long while warming it up.
- When possible, update and replace old toilets, washing machines, and dishwashers. New efficient models can save you thousands of gallons per year.
- An older clothes washer will use up to 23 gallons per load, whereas a new energy efficient model may use as little as 13 gallons. Considering that the average household washes about 300 loads per year, the numbers add up quickly. Another thing to keep in mind is that if you wash with hot water, up to 90% of the cost to wash those clothes is simply for heating the water. Only use hot water when necessary so you'll save on your electrical bill and reduce the impact on the water-energy nexus (a complex relationship of water usage in the production of electricity).
- In the kitchen, a water efficient dishwasher can save over 1,000 gallons per year. Keep in mind that 1,000 gallons may not seem significant, but multiply that by a neighborhood and 1,000 gallons per home will add up to quite a lot very quickly.
- Newer water efficient toilets will use only about 1—1.5 gallons of water per flush. You should always keep an eye out for any leaks in your toilet. A leaking toilet can waste quite a bit of water, possibly thousands of gallons a month in extreme cases. It is estimated that 10% of all homes in the U.S. have water leaks wasting 90+ gallons of water per day.

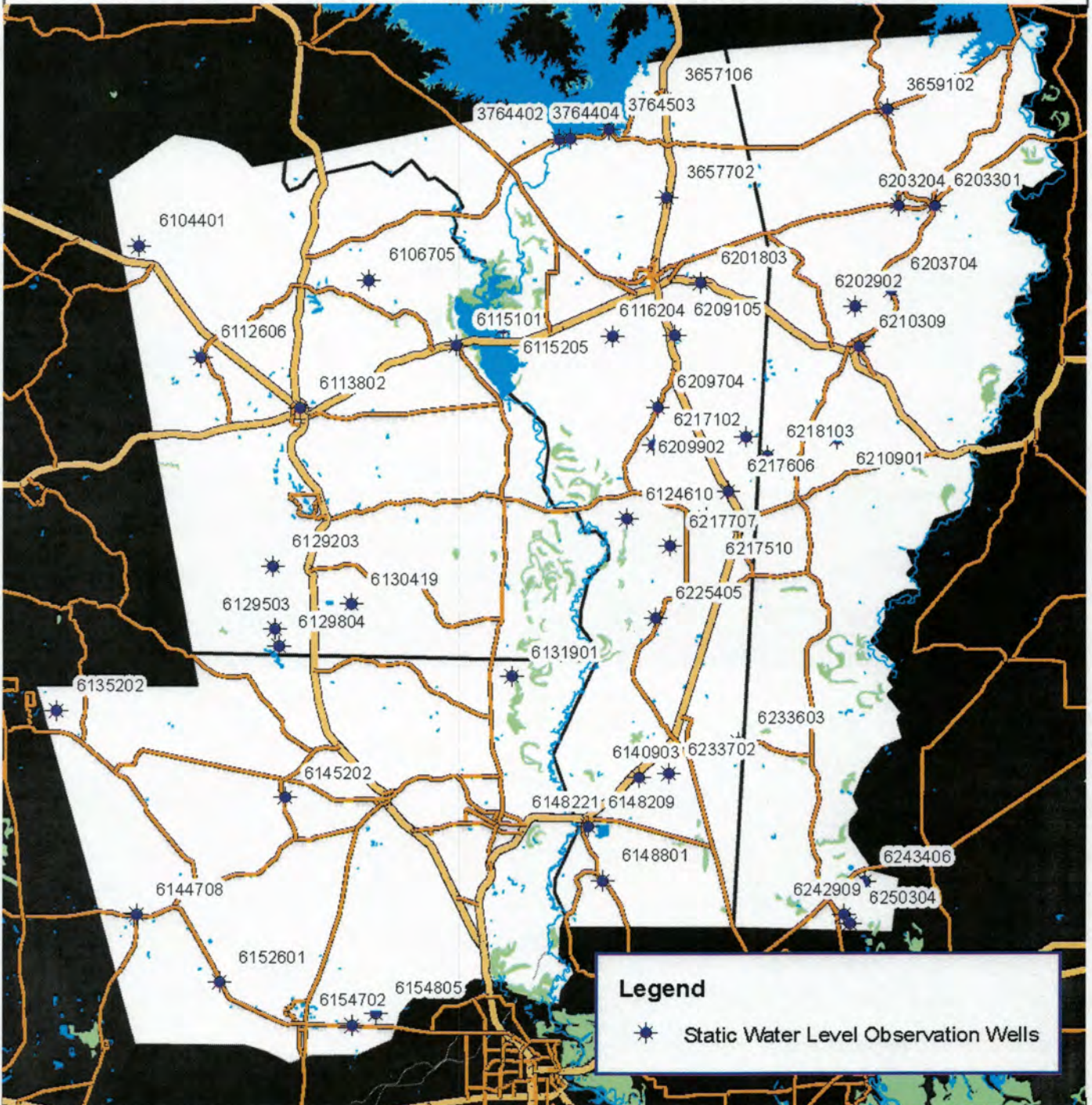
### Conserving Water Outdoors and Reducing Waste:

- If you have a swimming pool, consider covering it when not in use. In the summer, a pool can lose as much as half an inch per day due to evaporation, which can add up to the equivalent of your pool's entire volume each summer. You could potentially save 10,000 – 20,000 gallons or more depending on the size of your pool.
- Water landscaping in the morning or late evening to reduce evaporation loss, and only water when needed. Most lawns only need 1 inch of water per week.
- If you have a sprinkler system, keep it well maintained and keep an eye out for leaks.
- If you have a vegetable or flower garden consider a drip irrigation system. It will water your plants more efficiently and with less waste.
- Be conscientious when washing your vehicles at home. If you leave a hose running, you could use as much as 100 gallons or more washing your vehicle. Have a sprayer head on the hose to save water or consider a commercial car wash. A commercial car wash typically uses 35 – 70 gallons of water with newer high-tech facilities using as little as 15 gallons.

For more information on water conservation ideas visit the Southeast Texas Groundwater Conservation District's Website at: <https://setgcd.org/> or the Texas Water Development Board's site at: <https://www.twdb.texas.gov/conservation/>



# Static Water Level Observation Well Locations & State ID



**What Is A Static Water Level?** The Static Water Level is the distance from the surface of the ground down to the water table when a well is not being pumped. This is sometimes called the resting water level. For example, a static water level reading of -25 feet means that the distance from the ground down to the water table is 25 feet.

In the data on the following page, I have included a column indicating the amount of static water level change from the previous year. If the number is positive, it means that the water level has dropped in that particular well. If the change is a negative number, as most of them are, it means that the water level is higher than the previous year. Typically, large drops or rises are indicative of shallow wells



State Wel ID	County	Date Drilled	Well Depth	Early W.L. Reading / Year of W.L.		May_2009	Spring_2023	Spring_2024	1 year change
6131901	Hardin	1940	53	-38.79	1942	-25.35	-34.50	-4.45	30.05
6135202	Hardin	2003	363	-64	2003		-56.3	-56.87	-0.57
6144708	Hardin	1957	72	-24.12	1942	-24.21	-25.40	-26.15	-0.75
6145202	Hardin	2009	220	-12	2009		-7.95	-6.60	1.35
6152601	Hardin	1948	764	-21	1948	-29.67	-23.84	-24.59	-0.75
6154702	Hardin	1951	1027	-23.94	1966	-25.2	-27.22	-28.18	-0.96
6154805	Hardin	1998	618	-60	1998		-28.97	-30.2	-1.23
3657106	Jasper	1938	20	-8.7	1997	-4.69	-5.70	-4.90	0.80
3657702	Jasper	1994	378	-117.7	1997	-117.61	-116.02	-118.00	-1.98
3764402	Jasper	1962	300	-114.3	-114	-113.27	-109.07	-110.83	-1.76
3764404	Jasper	1982	260	-66	1982	-46.83	-44.82	-46.85	-2.03
3764503	Jasper	1981	260	-33.2	1997	-32.33	-31.59	-33.73	-2.14
6115205	Jasper	1984	442	39.96	1984	28.18	39.51	41.24	1.73
6116204	Jasper	1965	220	-51.7	1997	-51.61	-50.95	-50.86	0.09
6124610	Jasper	1998	200	-33.16	2008	-30.59	-31.84	-30.34	1.50
6148209	Jasper	1947	1295	-66.79	1956	-177.09	-199.98	-189.45	10.53
6148221	Jasper	pre 1956	671	-22.47	1956	-28.92	-28.50	-26.95	1.55
6148801	Jasper	1903	1084	-6.85	1960	-5.38	-7.90	-4.02	3.88
6201803	Jasper	1995	884	-85.1	1997	-85.54	-82.85	-82.85	0.00
6209105	Jasper	1967	15	-4.15	1997	-1.38	-1.88	-0.55	1.33
6209704	Jasper	1952	40	-35.84	1997	-34.4	-36.40	-34.18	2.22
6209902	Jasper	pre 1997	40	22.8	1997	-16.13	-18.98	-16.02	2.96
6217102	Jasper	1950	80	-54.85	1997	-80.00	-80.00	-52.68	27.32
6217510	Jasper	pre 1997	140	-15.9	1997	-14.7	-15.23	-17.57	-2.34
6217606	Jasper	1964	70	-7.8	1997	-1.09	-2.25	-0.85	1.40
6217707	Jasper	1950	28	-9.35	1997	-4.15		-2.37	-2.37
6225405	Jasper	1983	120	-58	1997	-57.5	-56.60	-58.12	-1.52
6233603	Jasper	1940	18	-14.7	1997	-10.92	-10.50	-5.77	4.73
6140903	Jasper	2002	802	-119	2002	New to Program		-116.85	
6233702	Jasper	1995	540	-65	1995	New to Program		-64.32	
3659102	Newton	2000	170	-98.76	2009		-93.09	-97.92	-4.83
6202902	Newton	pre 1999	24	-13.03	1999	-11.65	-7.86	-4.30	3.56
6203204	Newton	1979	645	-65.4	1994	-68.15	-66.40	-67.40	-1.00
6203301	Newton	1964	1050	-38.75	1992	-45.42	-36.53	-36.30	0.23
6203704	Newton	1989	640	-169	1989	-172.78	-171.68	-173.31	-1.63
6210309	Newton	1964	1218	-61.38	1993	-65.93	-63.25	-64.40	-1.15
6210901	Newton	1951	300	-13.68	1964	-16.48	-16.22	-16.50	-0.28
6218103	Newton	1980	208	-32.3	1992	-33.99	-34.65	-34.28	0.37
6242909	Newton	1981	590	-39.15	1992	-36.03	-36.80	-37.50	-0.70
6243406	Newton	1981	598	-30	1981	-26.29	-25.18	-25.60	-0.42
6250304	Newton	1983	420	-40	1989	-35.58	-36.65	-37.44	-0.79
6104401	Tyler	1935	860	-169.39	1960	-168.71	-164.37	-159.75	4.62
6106705	Tyler	1984	288	-145	1984		-148.02	-148.05	-0.03
6112606	Tyler	1960	250	-121.64	1964		-123.28	-123.45	-0.17
6113802	Tyler	1951	582	-155	1953	-174.13	-163.25	-167.70	-4.45
6115101	Tyler	1964	68	-31.66	1964	-33.09	-32.62	-32.96	-0.34
6129203	Tyler	pre 1953	30	-22.73	1953	-15.38	-15.25	-13.28	1.97
6129503	Tyler	2008	250	-20	2008		-19.33	-16.12	3.21
6130419	Tyler	pre 1965	22	-13.01	1965	-3.62	-4.02	-2.05	1.97
6129804	Tyler	1972	580	-22.92	2003	-31.70	-26.73	-29.15	-2.42



## Southeast Texas Groundwater Conservation District

P.O. Box 1407, Jasper, TX 75951

(409) 383-1577, [www.setgcd.org](http://www.setgcd.org)

«Suffix» «FIRST NAME» «LAST NAME»  
«ADDRESS 1»  
«CITY», «STATE» «ZIP»

*Did you know that the Gulf Coast Aquifer is also known as the Coastal Lowlands Aquifer System. Also, it is not confined to the State of Texas. It extends from the Texas/Mexico border all the way over to the Florida Panhandle.*



### CALENDAR OF EVENTS

July 4, 2024	Independence Day – District office closed
July 11, 2024	SETGCD – Regular meeting of the Board, in Jasper, TX
August 13, 2015	SETGCD – No Regular Meeting
September 2, 2024	Labor Day – District office closed
September 12, 2024	SETGCD – Regular meeting of the Board, in Jasper, TX
October 10, 2024	SETGCD – Regular meeting of the Board, in Jasper, TX
October 14, 2024	Columbus Day – District office closed
November 11, 2024	Veteran’s Day – District office closed
November 14, 2024	SETGCD – Regular meeting of the Board, in Jasper, TX
Nov. 28 & 29, 2024	Thanksgiving – District office closed
Dec. 25 & 26, 2024	Christmas – District office closed

### TEXAS GCD FACTS

- The first GCD was the High Plains Underground Water Conservation District formed in 1951.
- The smallest GCD is Red Sands at only 114 square miles.
- The largest GCD is High Plains at over 12,000 square miles.
- The Southeast Texas GCD is approximately 2,749 square miles.
- The western part of Texas is one of the driest areas in the U.S.
- The Eastern part of Texas is one of the wettest areas in the U.S.
- Annual average U.S. precipitation is approximately 30 inches.
- The annual average precipitation for the Southeast Texas GCD is 52–54 inches.