General Managers of Groundwater Management Area 12

Alan Day, Brazos Valley GCD

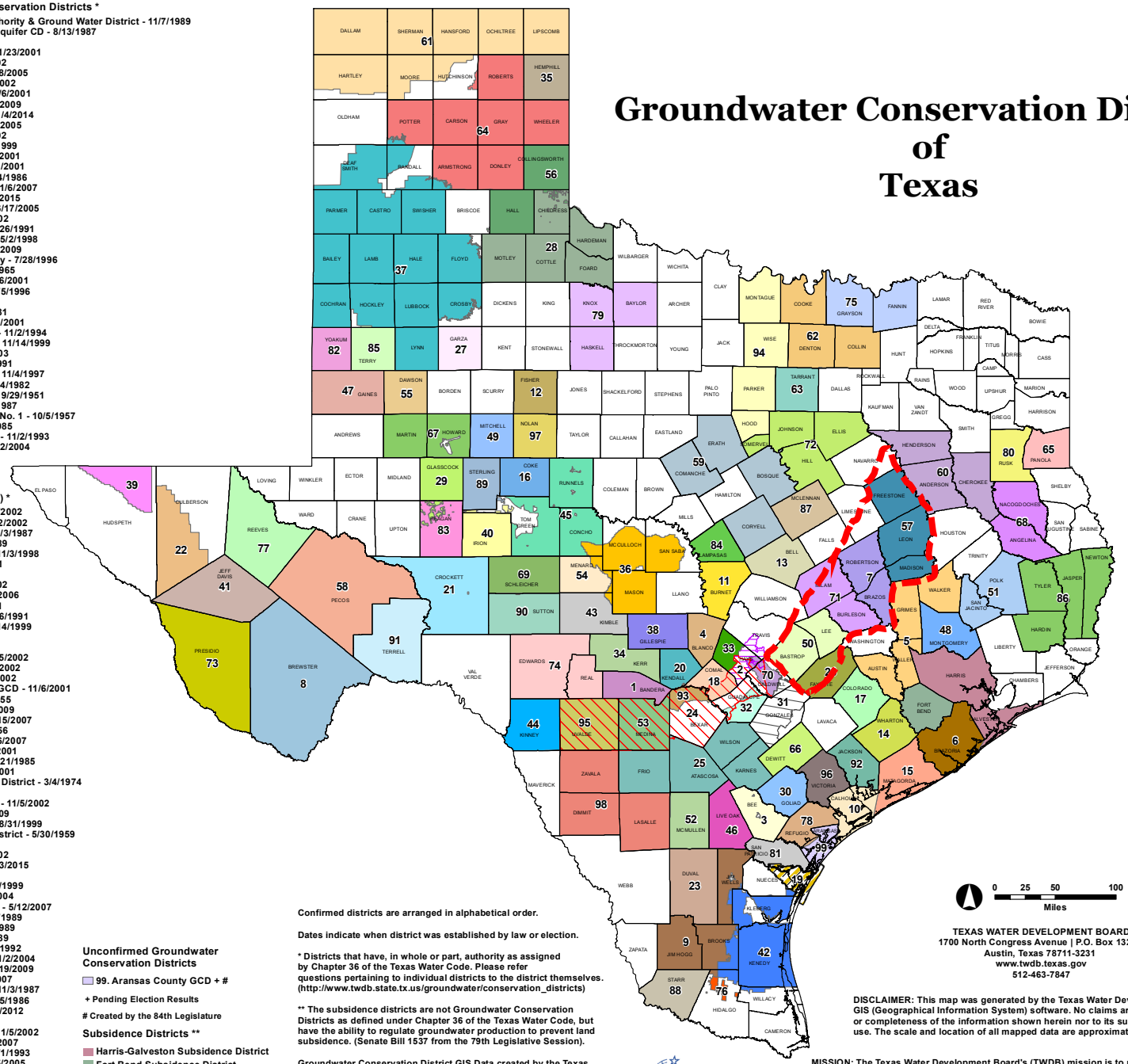
David Van Dresar, Fayette County GCD

Jim Totten, Lost Pines GCD

David Bailey, Mid-East Texas GCD

Gary Westbrook, Post Oak Savannah GCD

Groundwater Conservation Districts of Texas



Confirmed Groundwater Conservation Districts *

1. Bandera County River Authority & Ground Water District - 11/7/1989
2. Barton Springs/Edwards Aquifer CD - 8/13/1987
3. Bee GCD - 1/20/2001
4. Blanco-Pedernales GCD - 1/23/2001
5. Bluebonnet GCD - 11/5/2002
6. Brazoria County GCD - 11/8/2005
7. Brazos Valley GCD - 11/5/2002
8. Brewster County GCD - 11/6/2001
9. Brush Country GCD - 11/3/2009
10. Calhoun County GCD - 11/4/2014
11. Central Texas GCD - 9/24/2005
12. Clear Fork GCD - 11/5/2002
13. Clearwater UWCD - 8/21/1999
14. Coastal Bend GCD - 11/6/2001
15. Coastal Plains GCD - 11/6/2001
16. Coke County UWCD - 11/4/1986
17. Colorado County GCD - 11/6/2007
18. Comal Trinity GCD - 6/17/2015
19. Corpus Christi ASRCD - 6/17/2005
20. Cow Creek GCD - 11/5/2002
21. Crockett County GCD - 1/26/1991
22. Culberson County GCD - 5/2/1998
23. Duval County GCD - 7/25/2009
24. Edwards Aquifer Authority - 7/28/1996
25. Evergreen UWCD - 8/30/1965
26. Fayette County GCD - 11/6/2001
27. Garza County UWCD - 11/5/1996
28. Gateway GCD - 5/3/2003
29. Glasscock GCD - 8/22/1981
30. Goliad County GCD - 11/6/2001
31. Gonzales County UWCD - 11/2/1994
32. Guadalupe County GCD - 11/14/1999
33. Hays Trinity GCD - 5/3/2003
34. Headwaters GCD - 11/5/1991
35. Hemphill County UWCD - 11/4/1997
36. Hickory UWCD No. 1 - 8/14/1982
37. High Plains UWCD No.1 - 9/29/1951
38. Hill Country UWCD - 8/8/1987
39. Hudspeth County UWCD No. 1 - 10/5/1957
40. Irion County WCD - 8/2/1985
41. Jeff Davis County UWCD - 11/2/1993
42. Kenedy County GCD - 11/2/2004

Confirmed Groundwater Conservation Districts (Cont.) *

43. Kimble County GCD - 5/3/2002
44. Kinney County GCD - 1/12/2002
45. Lipan-Kickapoo WCD - 11/3/1987
46. Live Oak UWCD - 11/7/1989
47. Llano Estacado UWCD - 11/3/1998
48. Lone Star GCD - 11/6/2001
49. Lone Wolf GCD - 2/2/2002
50. Lost Pines GCD - 11/5/2002
51. Lower Trinity GCD - 11/7/2006
52. McMullen GCD - 11/6/2001
53. Medina County GCD - 8/26/1991
54. Menard County UWD - 8/14/1999
55. Mesa UWCD - 1/20/1990
56. Mesquite GCD - 11/4/1986
57. Mid-East Texas GCD - 11/5/2002
58. Middle Pecos GCD - 11/5/2002
59. Middle Trinity GCD - 5/4/2002
60. Neches & Trinity Valleys GCD - 11/6/2001
61. North Plains GCD - 1/2/1955
62. North Texas GCD - 12/1/2009
63. Northern Trinity GCD - 5/15/2007
64. Panhandle GCD - 1/21/1956
65. Panola County GCD - 11/6/2007
66. Pecan Valley GCD - 11/6/2001
67. Permian Basin UWCD - 9/21/1985
68. Pineywoods GCD - 11/6/2001
69. Plateau UWC and Supply District - 3/4/1974
70. Plum Creek CD - 5/1/1993
71. Post Oak Savannah GCD - 11/5/2002
72. Prairielands GCD - 9/1/2009
73. Presidio County UWCD - 8/31/1999
74. Real-Edwards C and R District - 5/30/1959
75. Red River GCD - 9/1/2009
76. Red Sands GCD - 11/5/2002
77. Reeves County GCD - 11/3/2015
78. Refugio GCD - 11/6/2001
79. Rolling Plains GCD - 1/26/1999
80. Rusk County GCD - 6/5/2004
81. San Patricio County GCD - 5/12/2007
82. Sandy Land UWCD - 11/7/1989
83. Santa Rita UWCD - 8/19/1989
84. Saratoga UWCD - 11/7/1989
85. South Plains UWCD - 2/8/1992
86. Southeast Texas GCD - 11/2/2004
87. Southern Trinity GCD - 6/19/2009
88. Starr County GCD - 1/6/2007
89. Sterling County UWCD - 11/3/1987
90. Sutton County UWCD - 4/5/1986
91. Terrell County GCD - 11/6/2012
92. Texana GCD - 11/6/2001
93. Trinity Glen Rose GCD - 11/5/2002
94. Upper Trinity GCD - 11/6/2007
95. Uvalde County UWCD - 9/1/1993
96. Victoria County GCD - 8/5/2005
97. Wes-Tex GCD - 11/5/2002
98. Wintergarden GCD - 1/17/1998

Unconfirmed Groundwater Conservation Districts

99. Aransas County GCD + #

\+ Pending Election Results

\# Created by the 84th Legislature

Subsidence Districts **

- Harris-Galveston Subsidence District
- Fort Bend Subsidence District
- County Boundaries

Confirmed districts are arranged in alphabetical order.

Dates indicate when district was established by law or election.

* Districts that have, in whole or part, authority as assigned by Chapter 36 of the Texas Water Code. Please refer questions pertaining to individual districts to the district themselves. (http://www.twdb.state.tx.us/groundwater/conservation_districts)

** The subsidence districts are not Groundwater Conservation Districts as defined under Chapter 36 of the Texas Water Code, but have the ability to regulate groundwater production to prevent land subsidence. (Senate Bill 1537 from the 79th Legislative Session).

Groundwater Conservation District GIS Data created by the Texas Commission on Environmental Quality. For more information, please contact TCEQ at 512-239-1000 or wras@tceq.texas.gov.

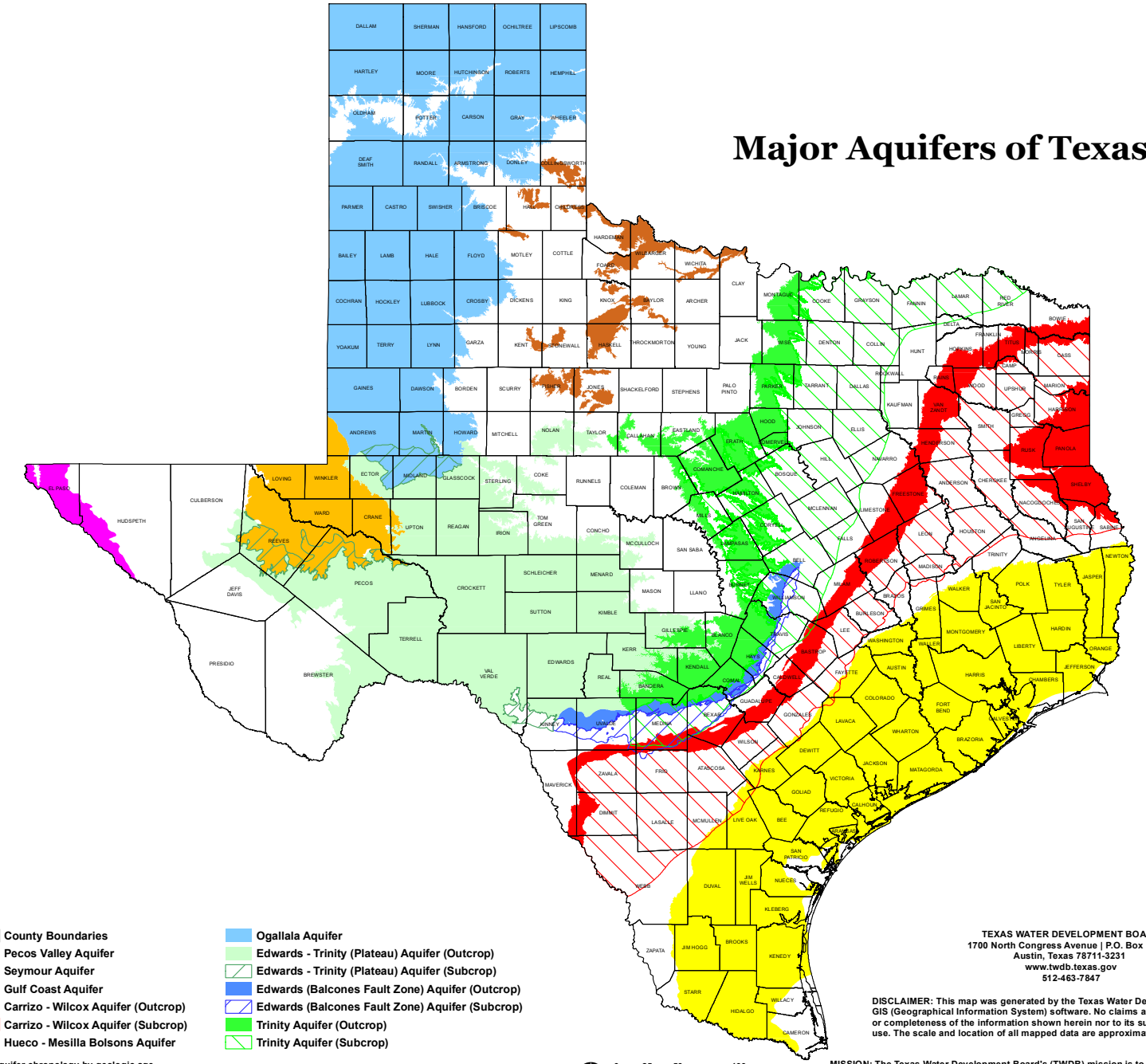
0 25 50 100
Miles

TEXAS WATER DEVELOPMENT BOARD
1700 North Congress Avenue | P.O. Box 13231
Austin, Texas 78711-3231
www.twdb.texas.gov
512-463-7847

MISSION: The Texas Water Development Board's (TWDB) mission is to provide leadership, planning, financial assistance, information, and education for the conservation and responsible development of water for Texas.

Texas Water Development Board

Major Aquifers of Texas



County Boundaries
Pecos Valley Aquifer
Seymour Aquifer
Gulf Coast Aquifer
Carrizo - Wilcox Aquifer (Outcrop)
Carrizo - Wilcox Aquifer (Subcrop)
Hueco - Mesilla Bolsons Aquifer
Ogallala Aquifer
Edwards - Trinity (Plateau) Aquifer (Outcrop)
Edwards - Trinity (Plateau) Aquifer (Subcrop)
Edwards (Balcones Fault Zone) Aquifer (Outcrop)
Edwards (Balcones Fault Zone) Aquifer (Subcrop)
Trinity Aquifer (Outcrop)
Trinity Aquifer (Subcrop)

- Aquifer chronology by geologic age.
- Solid colors indicate OUTCROP areas (portion of a water-bearing rock unit exposed at the land surface).
- Hatch colored lines indicate SUBCROP areas (portion of a water-bearing rock unit existing below other rock units).

0 25 50 100
Miles

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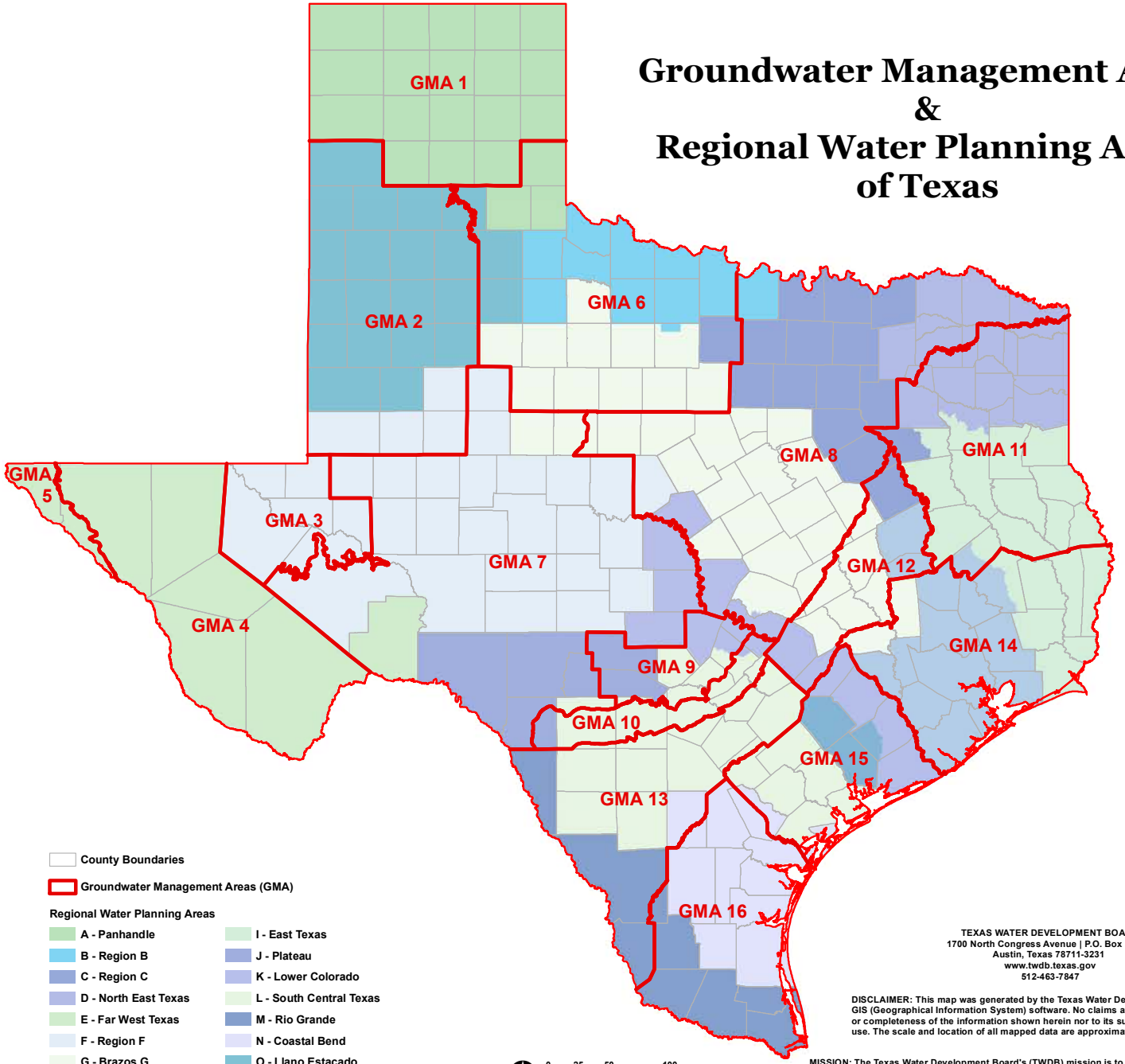
TNRIS

Texas Water Development Board

Groundwater Management Areas & Regional Water Planning Areas of Texas



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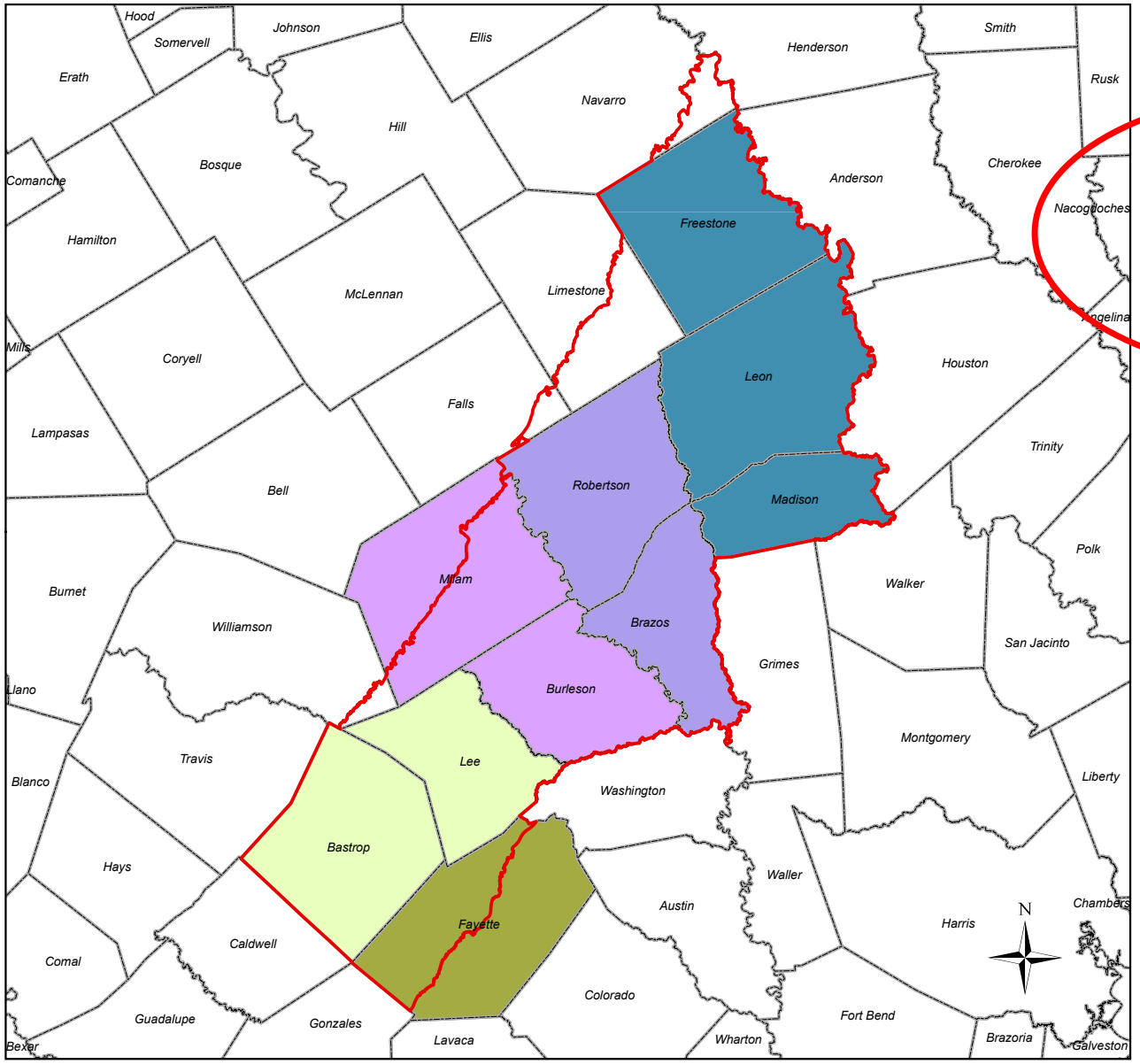
Texas Water Development Board

Groundwater Management Area 12



MAP LEGEND

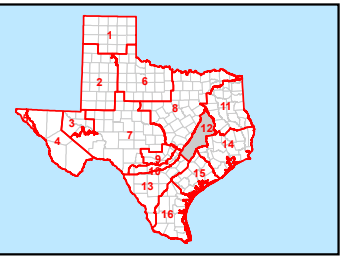
- Groundwater Management Area 12
- Counties

Groundwater Conservation Districts

- Brazos Valley GCD
- Fayette County GCD
- Lost Pines GCD
- Mid-East Texas GCD
- Post Oak Savannah GCD

DISCLAIMER
This map was generated by the Texas Water Development Board. No claims are made to the accuracy or completeness of the information shown herein nor to its suitability for a particular use. The scale and location of all mapped data are approximate. Boundaries for groundwater conservation districts are approximate and may not accurately depict legal descriptions.

Updated 8/26/2015



0 5 10 20 30 40 Miles

1 in = 14 miles

Exempt Wells

Brazos Valley	Fayette County	Lost Pines	Mid-East Texas	Post Oak Savannah
50,000 (D/L) O/G – rig supply Not frac supply	25,000 (D/L) O/G – rig supply	25,000 (D/L) O/G – rig supply	50,000 (D/L) O/G – rig supply Not frac supply	25,000 (D/L) O/G – rig supply Not frac supply

Frac Wells Permits

Brazos Valley	Fayette County	Lost Pines	Mid-East Texas	Post Oak Savannah
Yes	Yes	No	Yes	Yes

Permit by Production Acreage

Brazos Valley	Fayette County	Lost Pines	Mid-East Texas	Post Oak Savannah
X	X		X	X

Production Acreage Assigned

Brazos Valley	Fayette County	Lost Pines	Mid-East Texas	Post Oak Savannah
Varies based on aagpm	2 ac-ft/acre/year (cumulative)	N/A	3 ac-ft/acre/year (cumulative)	2 ac-ft/acre/year (cumulative)

Simsboro Aquifer - 200 ac-ft/yr - 124' radius - 1.11 acres

August 14, 2017

pointLayer

Override 1

polygonLayer

Override 1

Brazos CAD Parcels

Robertson CAD Parcels

1:1,323

0 0.01 0.02 0.04 mi

0 0.0175 0.035 0.07 km

Halff Associates Inc.
Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors

BVGCD Web Map

Simsboro Aquifer - 200 ac-ft/yr - 124' radius - 1.11 acres

August 14, 2017

pointLayer

Override 1

polygonLayer

Override 1

Brazos CAD Parcels

Robertson CAD Parcels

1:1,323

0 0.01 0.02 0.04 mi

0 0.0175 0.035 0.07 km

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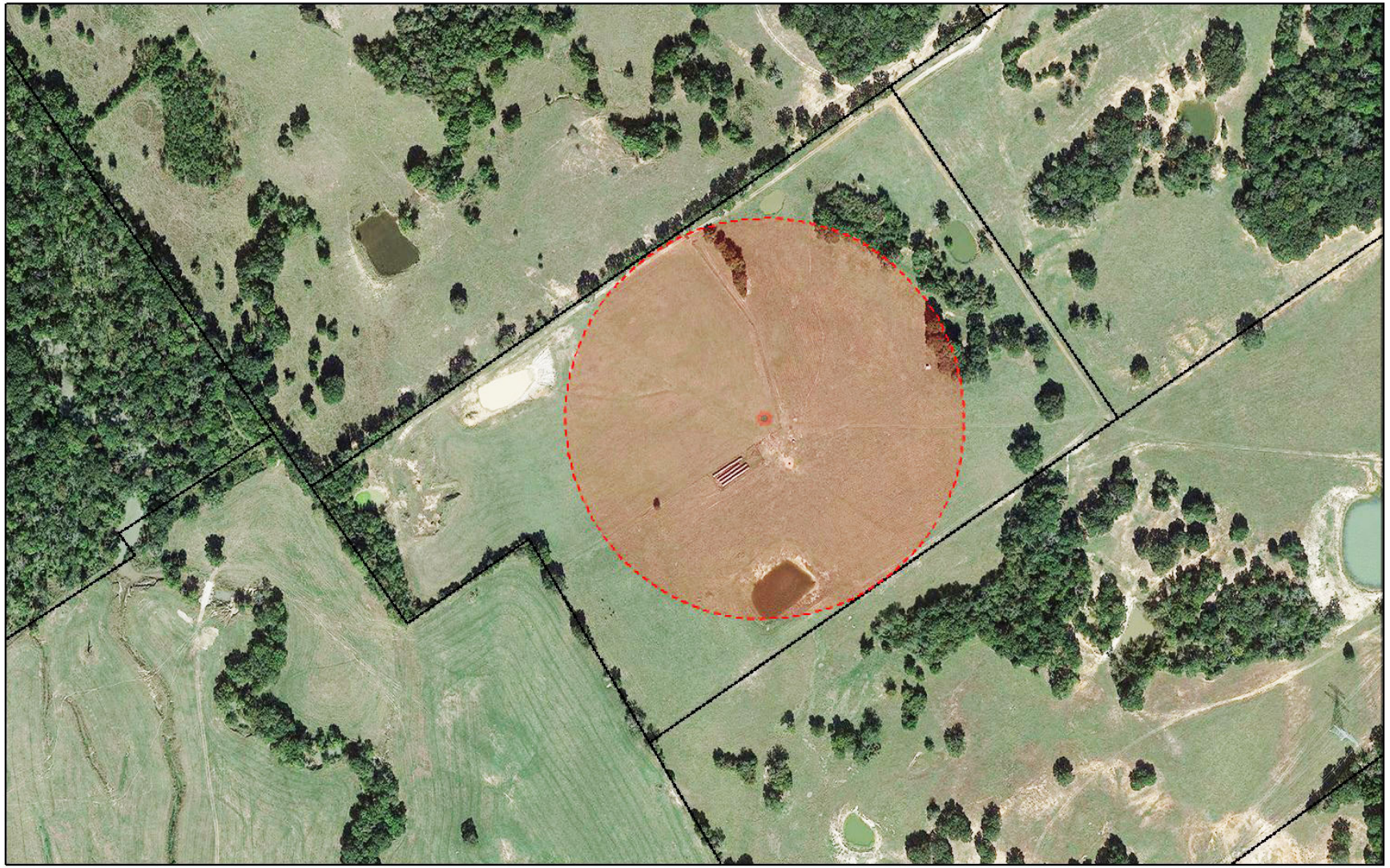
BVGCD Web Map

Minor Aquifer - 441 ac-ft/yr - 547' radius - 21.57 acres



August 14, 2017

pointLayer

Override 1

polygonLayer

Override 1

Brazos CAD Parcels

Robertson CAD Parcels

1:5,292

0 0.045 0.09 0.18 mi

0 0.05 0.1 0.2 km

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BVGCD Web Map

Permit by Beneficial Use

Brazos Valley	Fayette County	Lost Pines	Mid-East Texas	Post Oak Savannah
		X		

DFC Enforcement Rule

Brazos Valley	Fayette County	Lost Pines	Mid-East Texas	Post Oak Savannah
Yes	By Permit Amendment	By Permit Amendment	By Permit Amendment	Yes

Managed by MAG or DFC

Brazos Valley	Fayette County	Lost Pines	Mid-East Texas	Post Oak Savannah
DFC	DFC	DFC	DFC	DFC

GM Permitted Wells

Brazos Valley	Fayette County	Lost Pines	Mid-East Texas	Post Oak Savannah
≤ 150 ac-ft/yr	<200 ac-ft/yr	<200 ac-ft/yr (AG) <50 ac-ft/yr (M&I)	≤ 10 ac-ft/yr (soon to be ≤ 56 ac-ft)	>25,000 & uo 50,000 D/L Any Ag related (all sizes) Any frac well (all sizes)

Permit Term Length

Brazos Valley	Fayette County	Lost Pines	Mid-East Texas	Post Oak Savannah
1 – year 5 – year	5 – year	5 – year	5 – year or less	40 – year 1 – year (non-renewable)

Renewals

Brazos Valley	Fayette County	Lost Pines	Mid-East Texas	Post Oak Savannah
Length of permit term	Length of permit term	Length of permit term	Length of permit term	Review every 5 years

Export Permit Required

Brazos Valley	Fayette County	Lost Pines	Mid-East Texas	Post Oak Savannah
X	X	X	X	X

Fee Structure

Brazos Valley	Fayette County	Lost Pines	Mid-East Texas	Post Oak Savannah
Metered Production	Tax Based	Permitted Production	Metered Production	Permitted Production

Meters Required for Permitted Wells

Brazos Valley	Fayette County	Lost Pines	Mid-East Texas	Post Oak Savannah
Yes	Yes	Yes	Yes	Yes

Production Reported for Permitted Wells

Brazos Valley	Fayette County	Lost Pines	Mid-East Texas	Post Oak Savannah
Yes	Yes	Yes	Yes	Yes

Hydrogeologic Study Required

Brazos Valley	Fayette County	Lost Pines	Mid-East Texas	Post Oak Savannah
400 – 800 ac-ft/yr (Evaluation) >800 ac-ft/yr (Study)	≥ 200 ac-ft/yr		>250 gpm	Required if permit goes to a hearing

Monitoring Wells (Frequency)

Brazos Valley	Fayette County	Lost Pines	Mid-East Texas	Post Oak Savannah
Quarterly	Annually	Annually Continuously	Annually	Annually Continuously

Spacing – Hooper Aquifer

Brazos Valley	Fayette County	Lost Pines	Mid-East Texas	Post Oak Savannah
2′/aagpm	0 – 1,000 gpm = 1′/gpm >1,000 gpm = 1,000′ +0.5′/gpm		50 – 250 gpm = 1,000′ 250 – 500 gpm = 1,500′ >500 gpm = Case by case	2′/gpm

gpm = gallons per minute
aagpm = average annual gallons per minute

Spacing – Simsboro Aquifer

Brazos Valley	Fayette County	Lost Pines	Mid-East Texas	Post Oak Savannah
1’/aagpm	0 – 1,000 gpm = 1’/gpm >1,000 gpm = 1,000’ +0.5’/gpm	≤ 500 gpm = 1,500’ 501 – 1,000 gpm = 2,500’ >1,000 gpm = 5,000’	50 – 250 gpm = 1,000’ 250 – 500 gpm = 1,500’ >500 gpm = Case by case	1’/gpm

gpm = gallons per minute
aagpm = average annual gallons per minute

Spacing – Calvert Bluff Aquifer

Brazos Valley	Fayette County	Lost Pines	Mid-East Texas	Post Oak Savannah
2′/aagpm	0 – 1,000 gpm = 1′/gpm >1,000 gpm = 1,000′ +0.5′/gpm		50 – 250 gpm = 1,000′ 250 – 500 gpm = 1,500′ >500 gpm = Case by case	2′/gpm

gpm = gallons per minute
aagpm = average annual gallons per minute

Spacing – Carrizo Aquifer

Brazos Valley	Fayette County	Lost Pines	Mid-East Texas	Post Oak Savannah
2′/aagpm	0 – 1,000 gpm = 1′/gpm >1,000 gpm = 1,000′ +0.5′/gpm	≤ 500 gpm = 1,500′ 501 – 1,000 gpm = 2,500′ >1,000 gpm = 5,000′	50 – 250 gpm = 1,000′ 250 – 500 gpm = 1,500′ >500 gpm = Case by case	2′/gpm

gpm = gallons per minute
aagpm = average annual gallons per minute

Spacing – Queen City Aquifer

gpm = gallons per minute
aagpm = average annual gallons per minute

Brazos Valley	Fayette County	Lost Pines	Mid-East Texas	Post Oak Savannah
2′/aagpm	0 – 1,000 gpm = 1′/gpm >1,000 gpm = 1,000′ +0.5′/gpm		50 – 250 gpm = 1,000′ 250 – 500 gpm = 1,500′ >500 gpm = Case by case	≤50 gpm = 2′/gpm 50 – 100 gpm = 3′/gpm 100 – 150 gpm = 4′/gpm 150 – 200 gpm = 5′/gpm >200 gpm = 7′/gpm

Spacing – Sparta Aquifer

gpm = gallons per minute
aagpm = average annual gallons per minute

Brazos Valley	Fayette County	Lost Pines	Mid-East Texas	Post Oak Savannah
2′/aagpm	0 – 1,000 gpm = 1′/gpm >1,000 gpm = 1,000′ +0.5′/gpm		50 – 250 gpm = 1,000′ 250 – 500 gpm = 1,500′ >500 gpm = Case by case	≤50 gpm = 2′/gpm 50 – 100 gpm = 3′/gpm 100 – 150 gpm = 4′/gpm 150 – 200 gpm = 5′/gpm >200 gpm = 7′/gpm

Spacing – Yegua-Jackson Aquifer

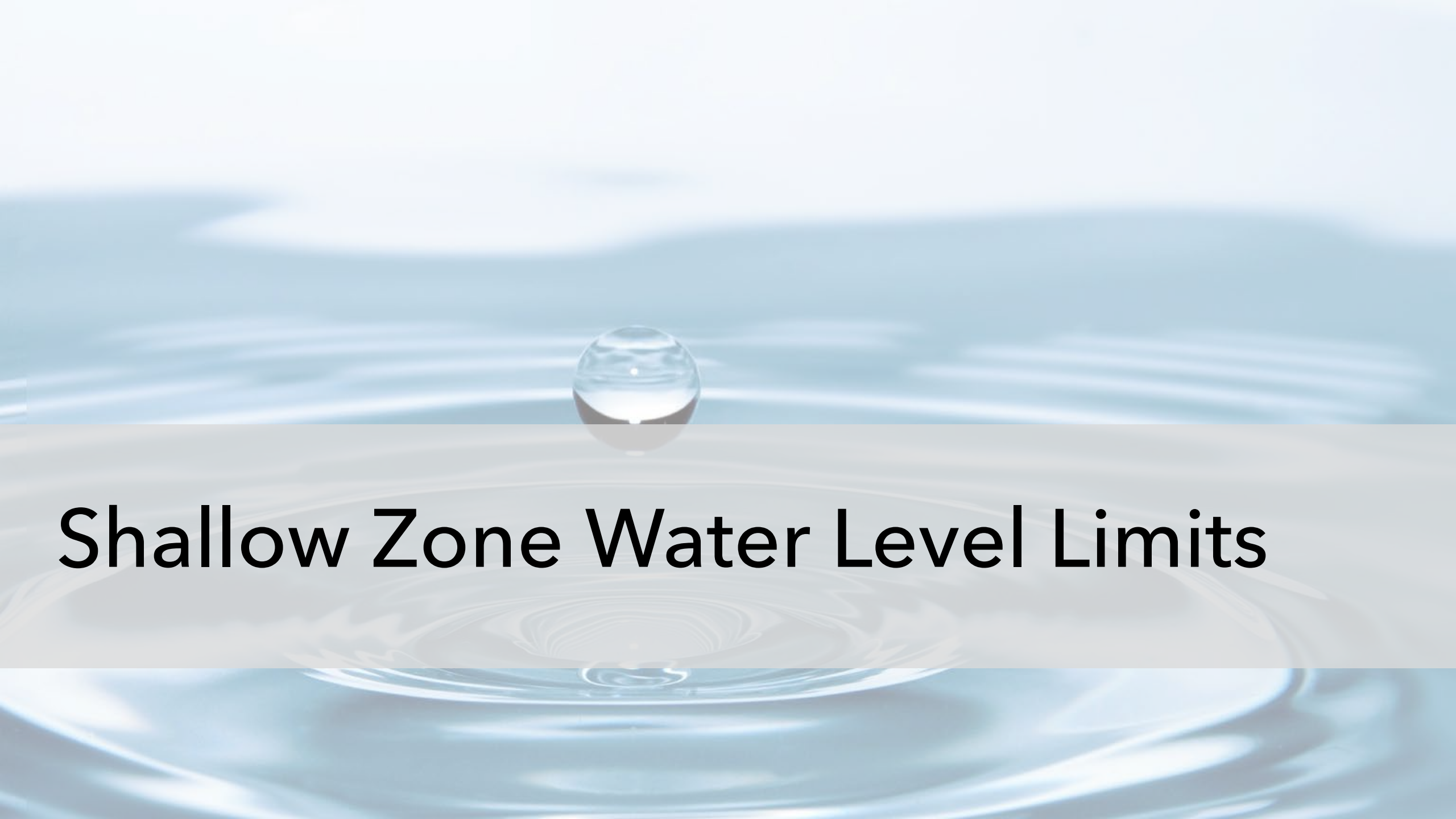
gpm = gallons per minute
aagpm = average annual gallons per minute

Brazos Valley	Fayette County	Lost Pines	Mid-East Texas	Post Oak Savannah
2′/aagpm	0 – 1,000 gpm = 1′/gpm >1,000 gpm = 1,000′ +0.5′/gpm		50 – 250 gpm = 1,000′ 250 – 500 gpm = 1,500′ >500 gpm = Case by case	≤50 gpm = 2′/gpm 50 – 100 gpm = 3′/gpm 100 – 150 gpm = 4′/gpm 150 – 200 gpm = 5′/gpm >200 gpm = 7′/gpm

Verify Property Rights

Standardized Classification of Wells

Standardized Monitoring Protocol



Shallow Zone Water Level Limits

QUESTIONS?