

The Future of Water in Texas

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Presented by:

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Types of Water

- Surface Water all of the water under ordinary flow, underflow and tides of every flowing river, natural stream, lake, bay, arm of the Gulf of Mexico, and stormwater, floodwater, or rain water of every river, natural stream, canyon, ravine, depression and watershed in the state. (Texas Water Code §11.021)
- <u>Groundwater</u> water percolating below the surface of the earth.



Surface Water

- Regulated and permitted by the Texas Commission on Environmental Quality (TCEQ)
- Texas and TCEQ use the prior appropriation doctrine – first in time is the first in right.



Groundwater

Senate Bill 332 - 2011

 Established in Section 36.002 of the Texas Water
Code that a landowner owns the groundwater below the surface of the landowner's land as real property.

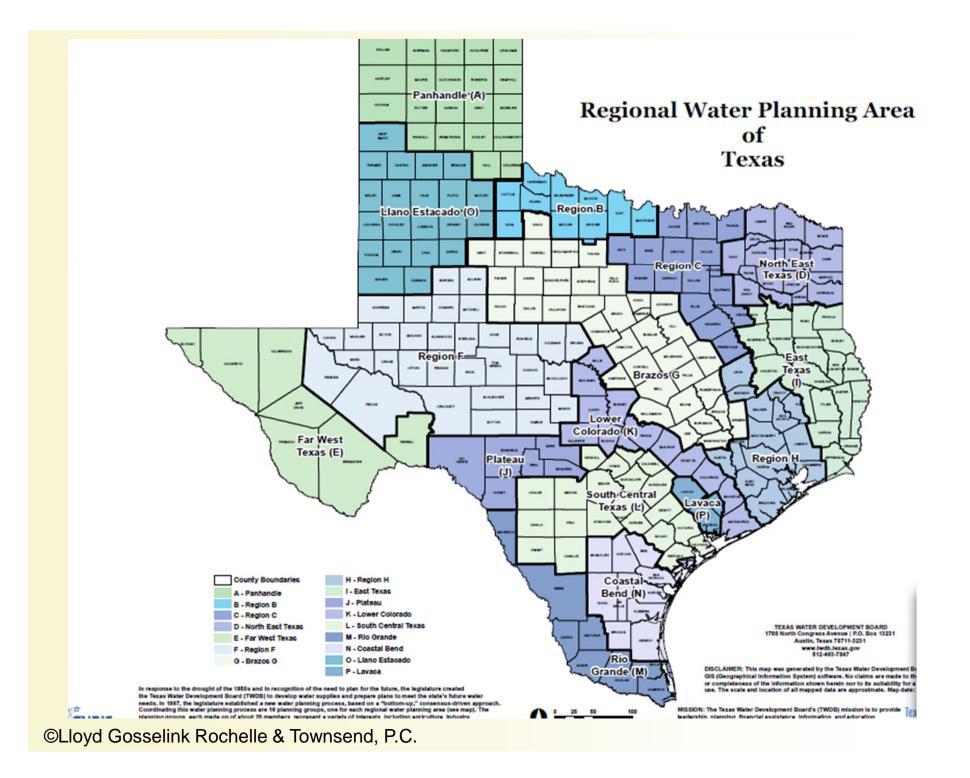
Edwards Aquifer Authority v. Day

 Confirmed the Legislature's statement of Texas groundwater law and stated that a landowner's right to produce groundwater is subject to the regulation of groundwater conservation districts (GCDs).



Recent Texas Water Legislation

- Senate Bill 1 1997
- Senate Bill 2 2001
- Senate Bill 3 2007
- House Bill 4, HB 1025, and SJR 1 2013





ATTORNEYS AT LAW

State Water Implementation Fund for Texas (SWIFT) Legislative Package

- <u>HB 4</u> provides the framework and administration of the SWIFT and State Water Implementation Revenue Fund (SWIRFT) and the re-organization of the Texas Water Development Board (TWDB).
- <u>Senate Joint Resolution (SJR)1</u> proposes an amendment to Texas Constitution to create the SWIFT and SWIRFT to assist in the financing of water projects.
- <u>HB 1025</u> authorizes a one-time \$2 billion placement of funds from the Economic Stabilization Fund (Rainy Day Fund) into the SWIFT if the voters



- Voters of Texas approved Proposition 6 to amend the Texas Constitution to create the SWIFT.
- Proposition 6 approved by 73.37% of the voters.
- 836,424 voters voted in favor of Prop. 6
- 303,547 voters voted against Prop. 6



HB 4 (Ritter/Fraser) – SWIFT, SWIRFT, and TWDB Re-Organization

- Provides for framework and administration of SWIFT and SWIRFT.
- Re-organized several aspects of TWDB, including the leadership structure.
- TWDB will now have 3 full-time board members instead of 6 part-time board members.
- An advisory committee for the SWIFT is established which is comprised of the Comptroller and members appointed by Speaker and Lt. Governor. The advisory committee must make recommendations to the TWDB regarding the use of money in the SWIFT.
- Requires prioritization of projects by RWPGs and TWDB.
- TWDB must create a point system for prioritization of projects.



- SWIFT and SWIRFT were created to leverage \$2 billion to finance the nearly \$30 billion worth of water supply projects identified in the State Water Plan.
- The funds are revolving and self-supporting in nature.
- The funds are to be used to subsidize interest rates, to allow for longer and incremental repayment terms, and and to enable entities to have deferral periods on the repayment of funds needed for water projects.



- Sept. 1 = Board members appointed by Governor Perry begin terms.
- Nov. 5 = Voters approved Proposition 6
- ASAP after Nov. 5 = Advisory Committee members appt.
- Dec. 1 = RWPG stakeholder committee submits project prioritization standards to TWDB and TWDB must approve.
- Sept. 1, 2014 = RWPGs submit final prioritization of projects from 2011 RWPGs.
- March 1, 2015 = Deadline for TWDB adoption of rules.



TWDB Board Members Appointed by Governor Perry

- On August 16, 2013, Governor Perry appointed 3 board members to the TWDB pursuant to HB 4.
- Carlos Rubinstein, Bech Brunn, and Mary Ann Williamson were appointed effective September 1, 2013. Kathleen Jackson replaced Williamson.
- Rubinstein will serve as chair of the board for a term to expire at the pleasure of the governor.



Texas Groundwater Management / Law

- Exciting time to be involved with water issues in Texas
- Water management and Texas law governing water is evolving and organic
- <u>1997 38 GCDs in existence</u>
- <u>2013</u> 99 GCDs with 3 GCDs awaiting confirmation elections

Groundwater Conservation Districts

1 High Plains UWCD No.1 - 9/29/1951 2 North Plains GCD - 1/2/1955 3 Panhandle GCD - 1/21/1956 4 Hudspeth County UWCD No. 1 - 10/5/1957 5 Real-Edwards C and R District - 5/30/1959 6 Evergreen UWCD -8/30/1965 7 Plateau UWC and Supply District - 3/4/1974 8 Harris-Galveston Subsidence District- 4/23/1975 9 Glasscock GCD - 8/22/1981 10 Hickory UWCD No. 1 - 8/14/1982 11 Irion County WCD - 8/2/1985 12 Permian Basin UWCD - 9/21/1985 13 Fox Crossing Water District - 4/4/1986 14 Sutton County UWCD - 4/5/1986 15 Coke County UWCD - 11/4/1986 16 Mesquite GCD - 11/4/1986 17 Hill Country UWCD - 8/8/1987 18 Barton Springs/Edwards Aquifer CD - 8/13/1987 70 Lost Pines GCD - 11/5/2002 19 Anderson County UWCD - 10/17/1987 20 Lipan-Kickapoo WCD - 11/3/1987 21 Sterling County UWCD - 11/3/1987 22 Santa Rita UWCD - 8/19/1989 23 Fort Bend Subsidence District - 8/28/1989 24 Bandera County RA & GWD - 11/7/1989 25 Live Oak UWCD - 11/7/1989 26 Sandy Land UWCD - 11/7/1989 27 Saratoga UWCD - 11/7/1989 28 Mesa UWCD - 1/20/1990 29 Crockett County GCD - 1/26/1991 30 Medina County GCD - 8/26/1991 31 Headwaters UWCD - 11/5/1991 32 South Plains UWCD - 2/8/1992 33 Plum Creek CD - 5/1/1993 34 Uvalde County UWCD - 9/1/1993 35 Jeff Davis County UWCD - 11/2/1993 36 Gonzales County UWCD - 11/2/1994 37 Edwards Aquifer Authority - 7/28/1996 38 Garza County UWCD - 11/5/1996 39 Hemphill County UWCD - 11/4/1997 40 Wintergarden GCD - 1/17/1998 41 Culberson County GCD - 5/2/1998 42 Llano Estacado UWCD - 11/3/1998 43 Rolling Plains GCD - 1/26/1999 44 Menard County UWCD - 8/14/1999 45 Clearwater UWCD - 8/21/1999 46 Presidio County UWCD - 8/31/1999 47 Guadalupe County GCD - 11/14/1999 48 Bee GCD - 1/20/2001 49 Blanco-Pedernales GCD - 1/23/2001 50 Brewster County GCD - 11/6/2001 51 Coastal Bend GCD - 11/6/2001 52 Coastal Plains GCD - 11/6/2001

53 Favette County GCD - 11/6/2001 54 Goliad County GCD - 11/6/2001 55 Lone Star GCD - 11/6/2001 56 McMullen GCD - 11/6/2001 57 Neches & Trinity Valleys GCD -11/6/2001 58 Pecan Valley GCD - 11/6/2001 59 Pineywoods GCD - 11/6/2001 60 Refugio GCD - 11/6/2001 61 Texana GCD - 11/6/2001 62 Kinney County GCD - 1/12/2002 63 Lone Wolf GCD - 2/2/2002 64 Kimble County GCD - 5/3/2002 65 Middle Trinity GCD - 5/4/2002 66 Bluebonnet GCD - 11/5/2002 67 Brazos Valley GCD - 11/5/2002 68 Clear Fork GCD - 11/5/2002 69 Cow Creek GCD - 11/5/2002 71 Mid-East Texas GCD - 11/5/2002 72 Middle Pecos GCD - 11/5/2002 73 Post Oak Savannah GCD - 11/5/2002 74 Red Sands GCD - 11/5/2002 75 Trinity Glen Rose GCD - 11/5/2002 76 Wes-Tex GCD - 11/5/2002 77 Gateway GCD - 5/3/2003 78 Hays Trinity GCD - 5/3/2003 79 Rusk County GCD - 6/5/2004 80 Kenedy County GCD - 11/2/2004 81 Southeast Texas GCD - 11/2/2004 82 Corpus Christi ASRCD - 6/17/2005 83 Victoria County GCD - 8/5/2005 84 Central Texas GCD - 9/24/2005 85 Brazoria County GCD - 11/8/2005 86 Lower Trinity GCD - 11/7/2006 87 San Patricio County GCD - 5/12/2007 88 Northern Trinity GCD - 5/15/2007 89 Colorado County GCD - 11/6/2007 90 Panola County GCD - 11/6/2007 91 Starr County GCD - 11/6/2007 92 Upper Trinity GCD - 11/6/2007 93 Southern Trinity GCD - 6/19/2009 94 Duval County GCD - 7/25/2009 95 Prairielands GCD - 9/1/2009 96 Red River GCD - 9/1/2009 97 Brush Country GCD - 11/3/2009 98 North Texas GCD - 12/1/2009 99 Terrell County GCD - 11/6/2012 Pending Confirmation A - Calhoun County GCD B - Deep East Texas GCD

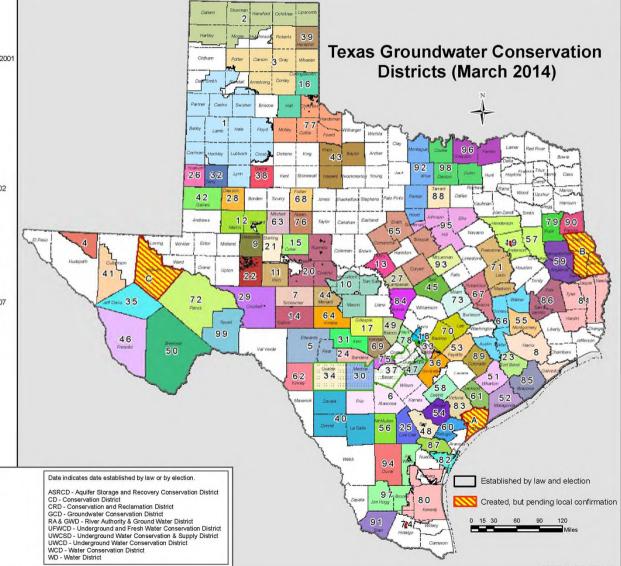
Texas Commission on Environmental Quality

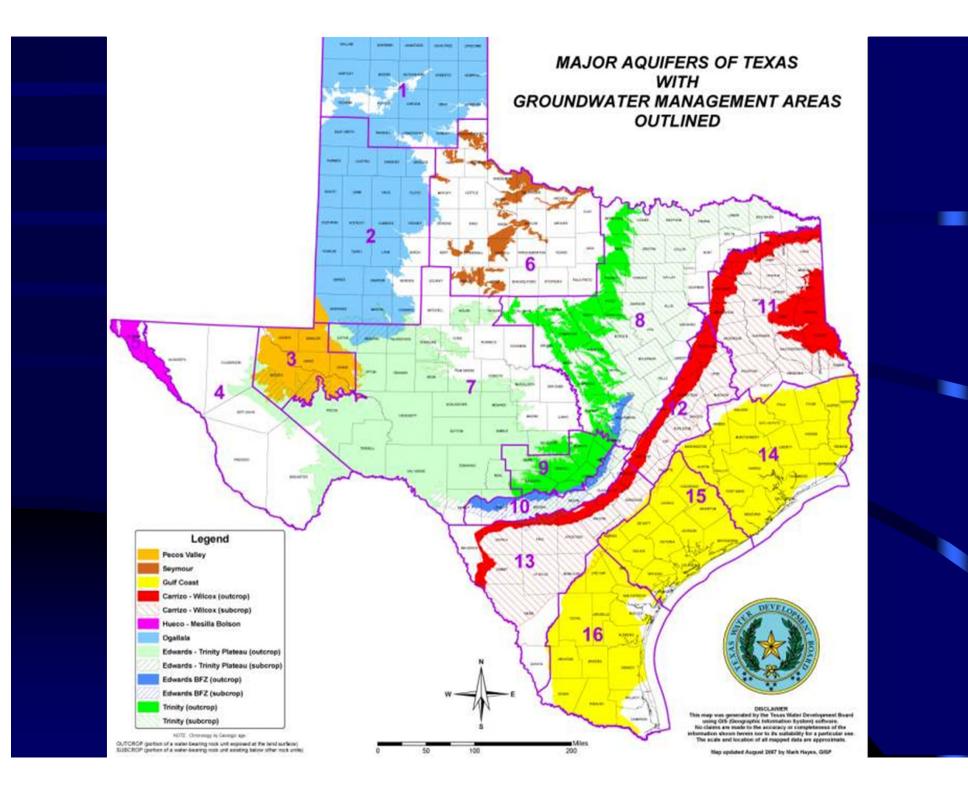


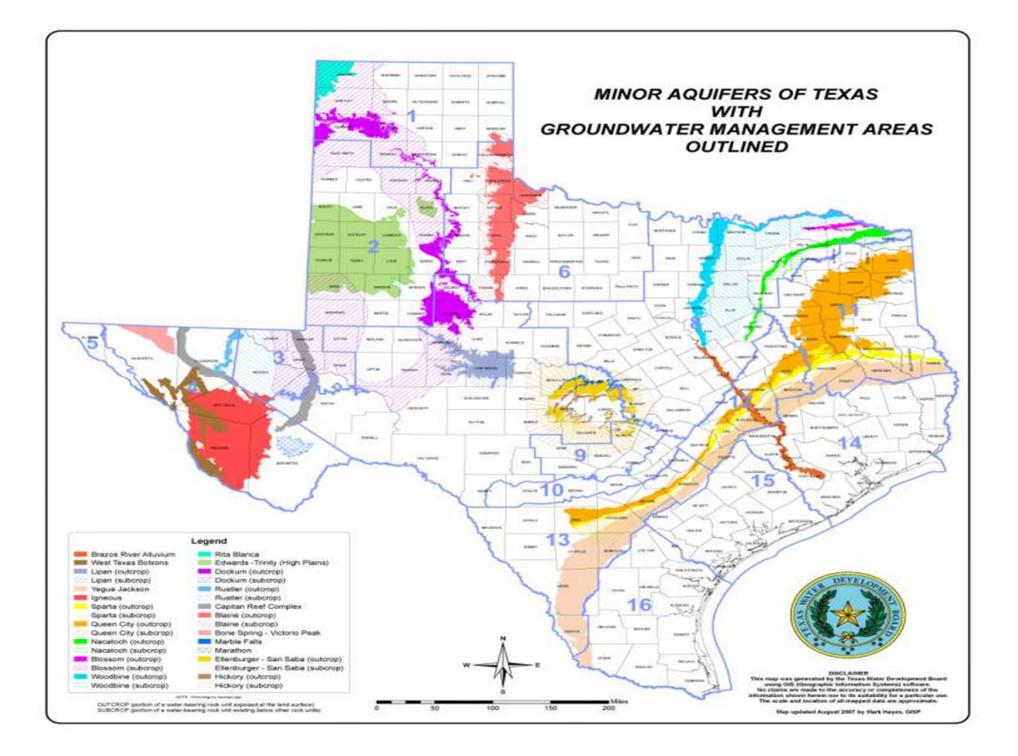
This map was prepared by the TCEQ for display purposes only. No claims are made to the accuracy or completeness of the information shown herein nor is this map suitable for any other use. The scale and location of mapped data are approximate. The groundwater conservation district boundaries are not land survey data and may not accurately depict legal descriptions. For more information about this map, please contact TCEQ - Water Supply Division, TCEQ information about this map, please contact 1522 Groundwater Planning & Assessment Team at (512) 239-4691

C - Reeves County GCD

Map printed March 3, 2014



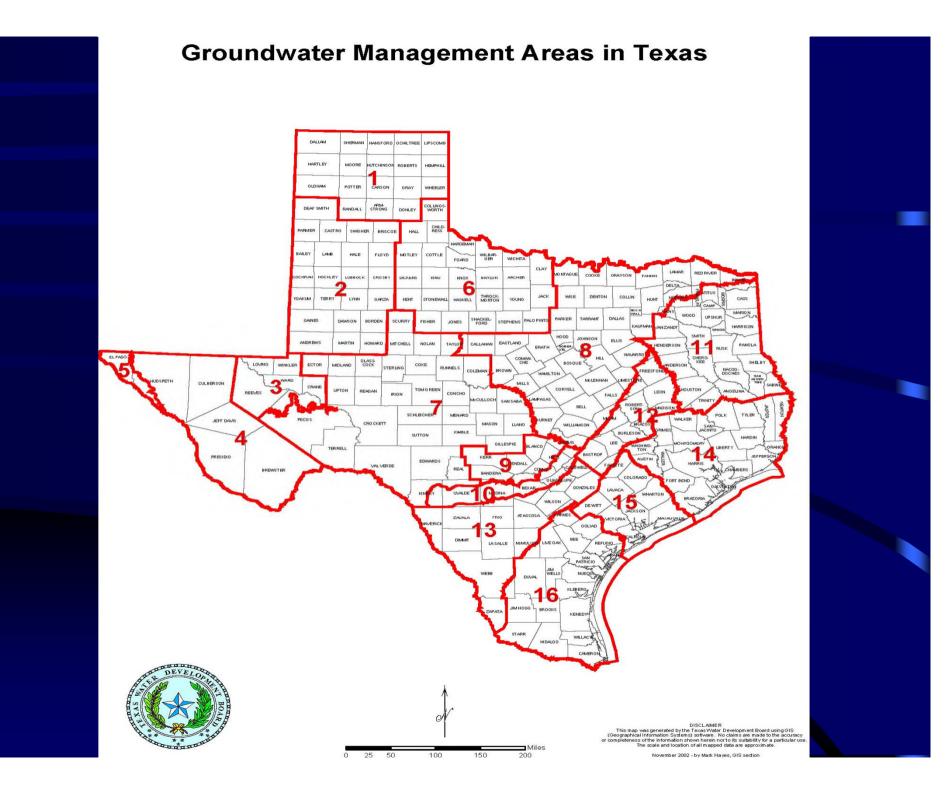






Texas Groundwater Management / Law

- Increased level of knowledge about groundwater resources and management but much more is needed
 - Ex. Middle Trinity GCD (Erath, Comanche, Bosque, and Coryell Counties)
- Science, science, science





Groundwater Management Area (GMA) Process for GCDs

- Based on legislative changes made in 2011, the DFC Process was substantially revised.
- GCDs in each of the 16 GMAs must consider a list of 9 factors and propose DFCs for the aquifers within the GMA
- A 90 day public comment period begins after DFCs are provided to the GCDs



Groundwater Management Area (GMA) Process for GCDs

- GCDs hold public hearings during 90 day comment period and prepare summary reports
- GMA meets to consider summary reports and to adopt DFCs
- GMA prepares an explanatory report and submits DFC info to TWDB
- GMA provides DFC info to GCDs and GCDs adopt DFCs ASAP after receiving info



Groundwater Issues to be studied during Legislative Interim Period

- GCD Permitting Exemptions Water involved in Oil and Gas activities
- Brackish groundwater / desalination
- Aquifer Storage and Recovery
- Long-Term Permitting by GCDs
- TDLR Regulation of Water Well Drillers



Section 36.117 of the Texas Water Code Permitting Exemptions for Oil and Gas Activities

- (b) A GCD may not require any permit issued by the GCD for:
 - The drilling of a water well used solely to supply water for a rig that is actively engaged in <u>drilling</u> or <u>exploration</u> operations for an oil and gas well permitted by the Railroad Commission of Texas provided that the person holding the permit is responsible for drilling and operating the water well and the well is located on the same lease or field associated with the drilling rig



Legal Issues Associated with Water Wells Used for Oil and Gas Activities

- Correlative rights / GCD approaches to permitting.
- Sale of groundwater placed in water storage tanks and transported to other operational sites
- Transportation Fees
- Water use associated with dominant mineral estate and effect on surface ownership



Texas Groundwater Management / Law

- Brackish groundwater / water quality
- Estimated that Texas has 2.7 billion acre-feet of brackish groundwater according to 2003 LBG-Guyton and Assoc. study.



2012 State Water Plan – Brackish Groundwater Desalination Projects

 2012 State Water Plan recommended groundwater desalination in five regional water planning areas of Texas – Regions E, F, L, M, and O

• The volume of water that would result from brackish groundwater desalination would increase from 56,553 acre-feet in 2010 to approximately 181,568 acre-feet by 2060.



- No statutory definition of "brackish groundwater" in Texas law.
- Some want to define as groundwater that contains a total dissolved solids (TDS) concentration of more than 1,000 milligrams per liter.
- Some want to define as groundwater that contains a total TDS concentration of more than 10,000 milligrams per liter.



- Production of brackish groundwater is being permitted by GCDs today
- No differentiation in most GCDs' rules between potable groundwater and brackish groundwater
- Vast majority of Desired Future Conditions (DFCs) and Modeled Available Groundwater (MAG) don't differentiate between potable groundwater and brackish groundwater



- Do GCDs want to encourage the production and use of brackish groundwater?
- Yes. GCDs understand that growing communities and businesses need more water supplies but not at the expense of the groundwater resources within GCDs' boundaries and, particularly, potable groundwater resources



- Can GCDs encourage the production brackish groundwater under existing Texas law and within their existing regulatory frameworks?
- Yes. GCDs can authorize the production of brackish groundwater in greater amounts as part of well permitting process.
- Chapter 36 enables GCDs to adopt different DFCs related to brackish groundwater production and to establish management zones from which brackish groundwater can be produced.



Legislative Interim / 84th Legislature

- Stakeholder groups working on brackish groundwater issues
 - Texas Water Conservation Association
 - Texas Alliance of Groundwater Districts
 - Texas Desalination Association
- Interim Committee Studies with recommendations for 84th Texas Legislature



Surface Water Issues

- Addressing Drought Issues
- <u>Colorado River</u> Highland Lakes vs. Rice Farmers
- <u>Brazos River</u> Designation of Water Master below Possum Kingdom
- Conservation Efforts by Municipalities
- TCEQ Regulation of Surface Water Impoundments / Dam Safety



Questions?

- Any questions?
- Thank you.