

Groundwater Management During Drought

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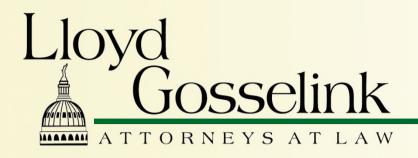
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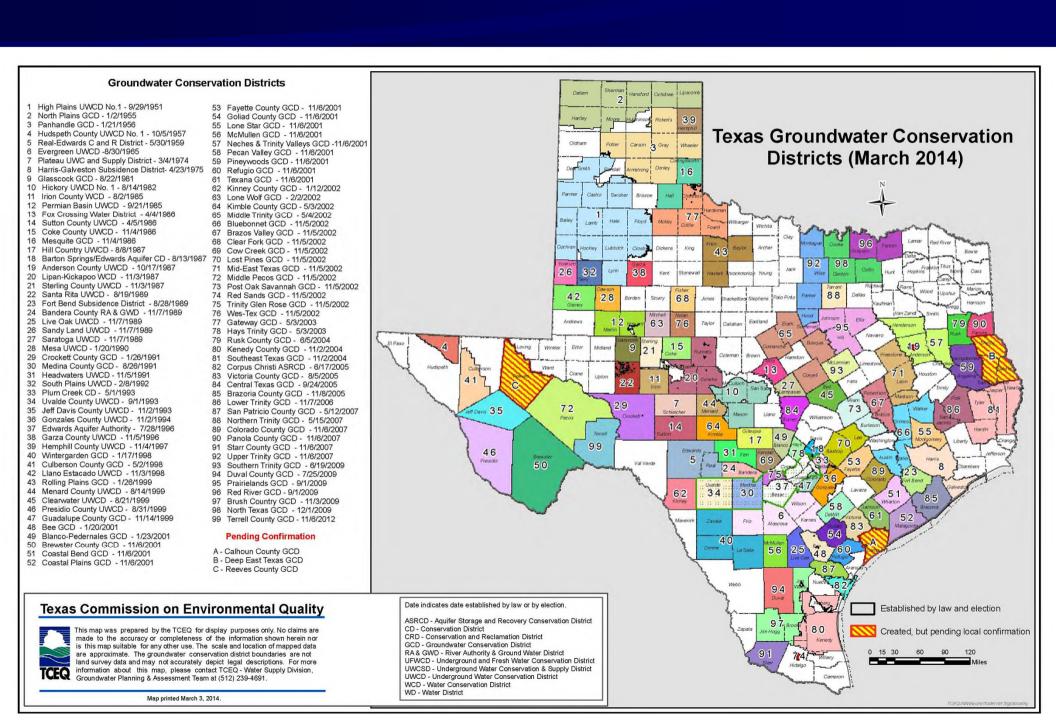
Drought Management in Texas

- Drought is a reality in Texas as our current circumstances and weather pattern show
- A significant amount of the water planning efforts in Texas are aimed at conserving and managing our water supplies during a time of drought



Role of GCDs in Drought Management

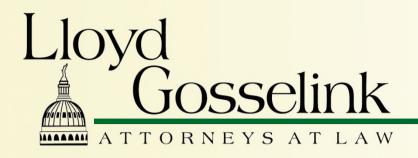
- Groundwater conservation districts (GCDs) are an integral part of the water planning framework in Texas
- Section 36.0015 of the Texas Water Code states that GCDs "are the state's preferred method of groundwater management through rules developed, adopted, and promulgated by a district"





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
- 1997 38 GCDs in existence
- 2013 99 GCDs with 3 GCDs awaiting confirmation elections



Texas Groundwater Management / Law

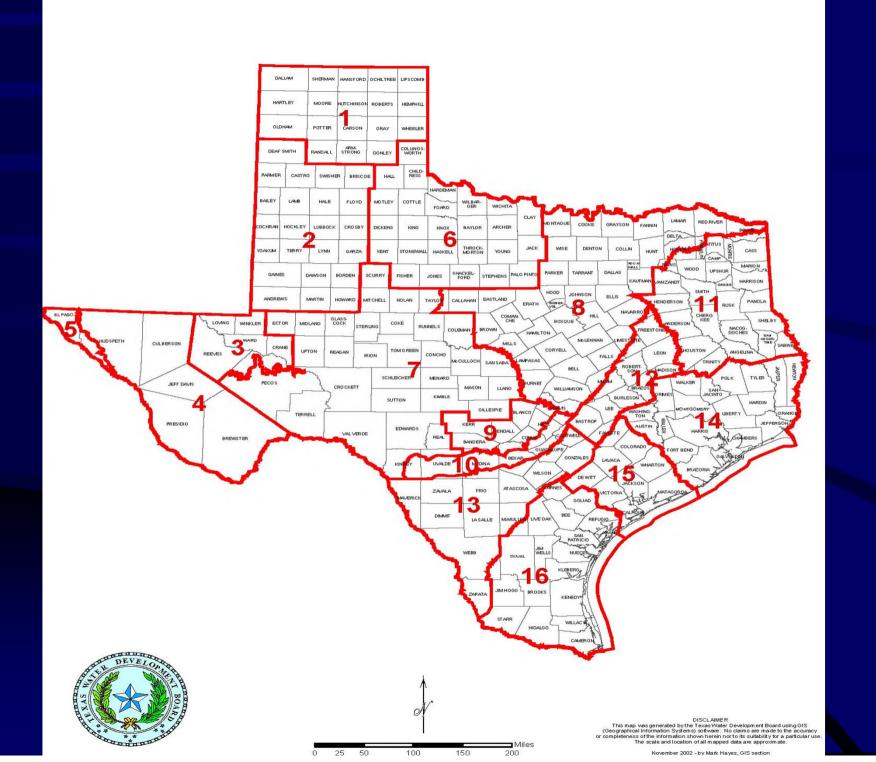
- Increased level of knowledge about groundwater resources and management but much more is needed
 - Ex. Middle Trinity GCD (Erath, Comanche, Bosque, and Coryell Counties)
- Science, science, science

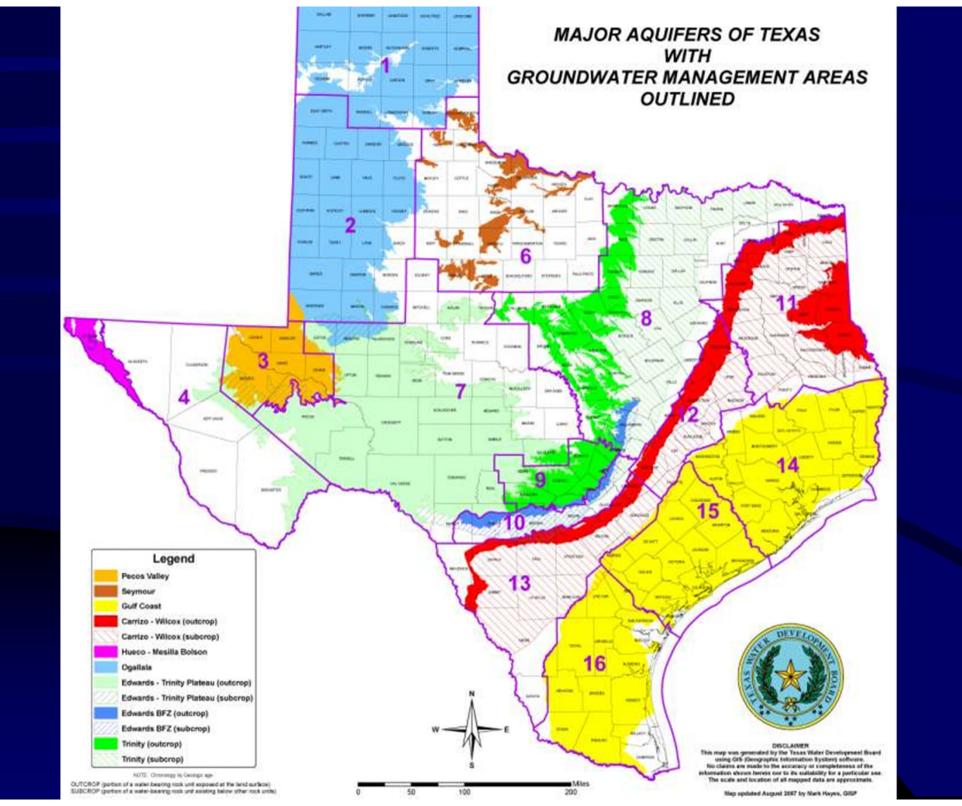


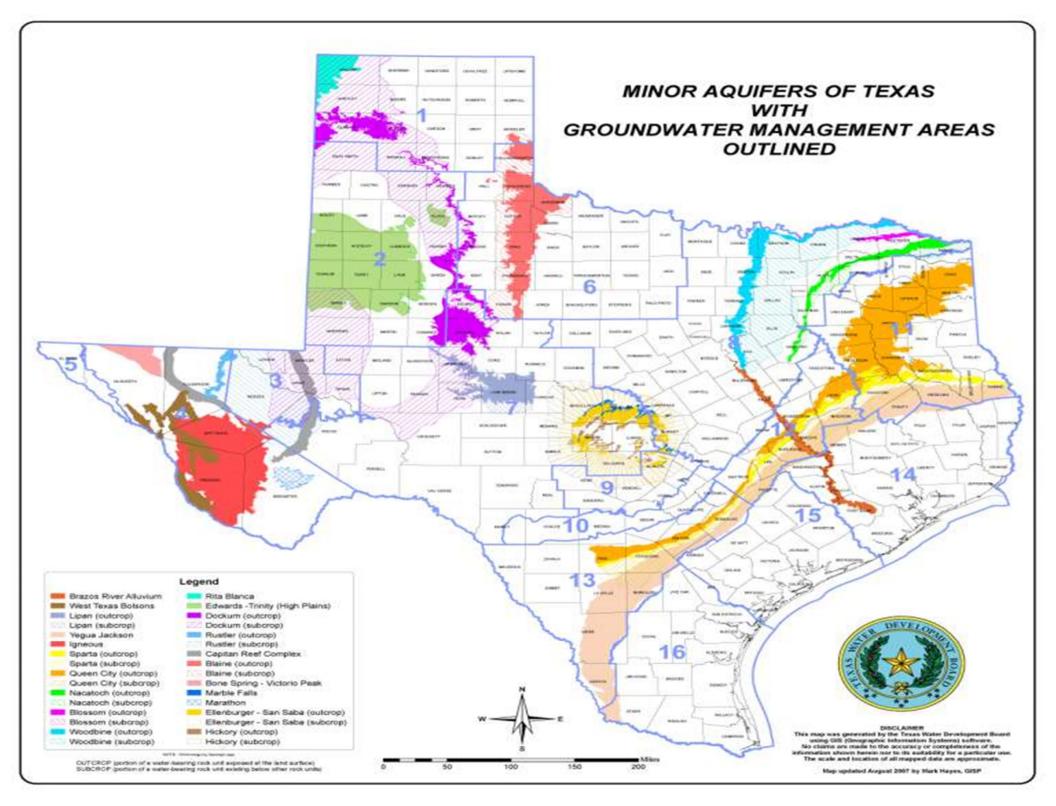
House Bill 1763 – Joint Planning Process through GMAs

- House Bill 1763 2005
 - Placed requirements and emphasis on joint planning by GCDs through Groundwater Management Areas (GMAs).
 - Established Desired Future Conditions (DFCs) for major and minor aquifers for next 50 years.
- Managed Available Groundwater (MAG)
 - GCDs were required under Section 36.1132 to issue permits up to the MAG

Groundwater Management Areas in Texas



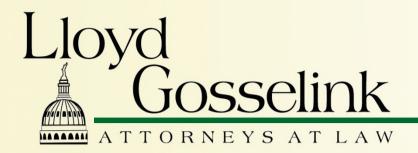






SB 737 in 2011 – Shift in GMA Planning Goals

- In enacting SB 737 in 2011, Texas Legislature shifted focus in groundwater management from MAG number to DFCs.
- Section 36.1132 was revised to require GCDs to take into consideration multiple factors in managing groundwater production to achieve a DFC for an aquifer, including but not limited to the modeled available groundwater (MAG) number.



Chapter 36 is a Tool Box

 Chapter 36 can be viewed as a tool box that provides GCDs with the tools they need to manage the groundwater resources on a local level to address local groundwater uses and conditions.



Chapter 36 – Protection of Historic and Existing Groundwater Use

- Section 36.113(e) A GCD may impose more restrictive permit conditions on new permit applications and permit amendment applications to increase use by historic users.
- Section 36.116 (b) In promulgating rules limiting groundwater production, a GCD may preserve historic or existing use to the maximum extent practicable.



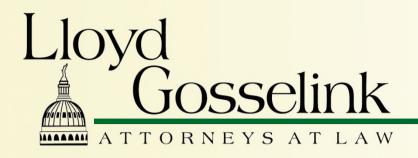
Typical GCD Permitting Structure

- Historic Use / Grandfather Permits
- Operating Permits
- Exempt Groundwater Users / Well Registrants
- Proportional reductions in groundwater use based on groundwater conditions, such as drought



Management Zones

- Section 36.116(d) authorizes GCDs to adopt different rules and create "management zones" to enable GCDs to manage groundwater use in specific areas different than other areas within a GCD.
- Management Zones can be delineated based on aquifers or geographic areas overlying an aquifer.



Drought Contingency Plans

- Some GCDs have adopted Drought Contingency Plans to help the GCDs and the areas within the GCDs proactively address drought conditions.
- Different stages / phase of DCPs with certain actions required at each stage / phase.
- Initial phases usually have voluntary actions.
- Sample triggers for different stages of DCPs
 - Precipitation Deficit Index (PDI)
 - Palmer Drought Severity Index (PDSI)



Factors Impacting Groundwater Management

- Edwards Aquifer Authority v. Day Decision
 - Groundwater ownership in place subject to regulation of a GCD.
 - Fair share of groundwater.
- Possible Legislative Changes
 - HB 2647 limitation on authority of GCDs to curtail groundwater production from wells used for power generation or mining.
 - ASR Legislation HB 655 / SB 1903
 - Brackish Groundwater Production HB 30



Questions?

Any questions?

Thank you.