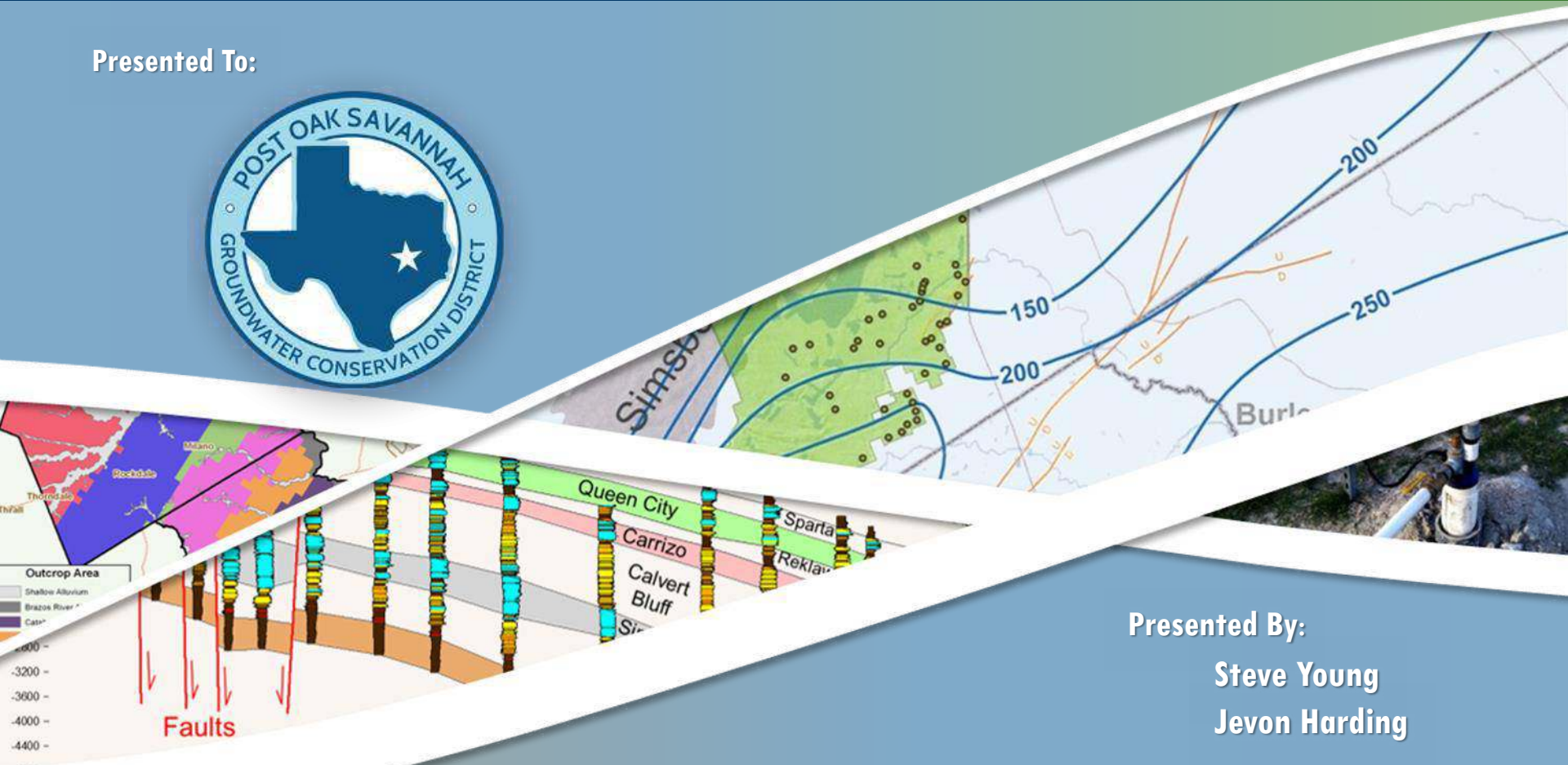


Proposed Research Activities for 2018

Presented To:



Presented By:
Steve Young
Jevon Harding



January 9, 2018

Research Topics Presented in 2017

- Groundwater Quality, including Brackish Groundwater
- Aquifer Storage and Recovery
- Surface Water-Groundwater Interaction
- Aquifer Storage and Recovery
- Enhanced Recharge
- Fair Share

Groundwater Quality

- Map Class II Injection Wells
- Map TCEQ contamination sites
- Assemble Existing TDS Information and Water Quality Information
- Map base of
 - Fresh water (1,000 mg/L TDS)
 - Slightly saline water (3,000 mg/L TDS)
 - Moderately saline water (10,000 mg/L TDS*)
- Assemble Rules from GCD in East Texas Regarding Brackish Groundwater and Water Quality Degradation

*Note: TDS – Total Dissolved Solids Concentrations

Timeline: 2 to 5 months

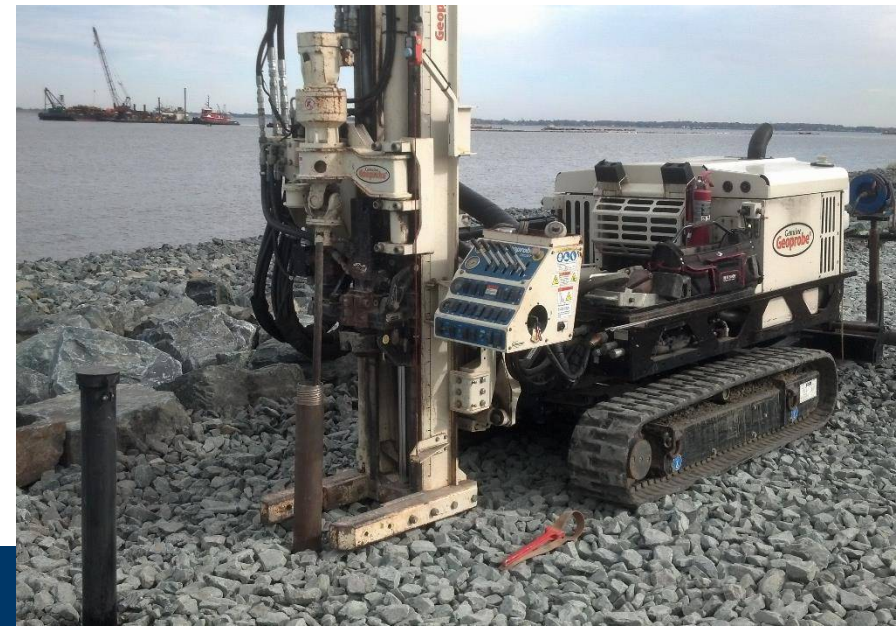
Aquifer Storage and Recovery

- Coordinate with GMA 12 GCDs and TCEQ to Determine whether to pursue an ASR workshop
 - Simsboro or Carrizo Aquifer
 - Review Modeling Codes
 - Evaluate modeling approaches to determine recovery efficiency (RE) and management area
 - Investigate monitoring strategies for demonstrating compliance for recovery efficiency

Timeline: 4-8 months

Groundwater – Surface Water Interaction

- Investigate installation of geoprobes instead of wells to monitoring surface water-groundwater interaction
- Develop plan to use water level-water quality probes provided by TWDB



Timeline: 2 – 4 months

Enhanced Recharge

- Renew discussions with Dr. Brad Wilcox
- Assess how enhanced recharge might help with management of Simsboro aquifer

Timeline: 2 months