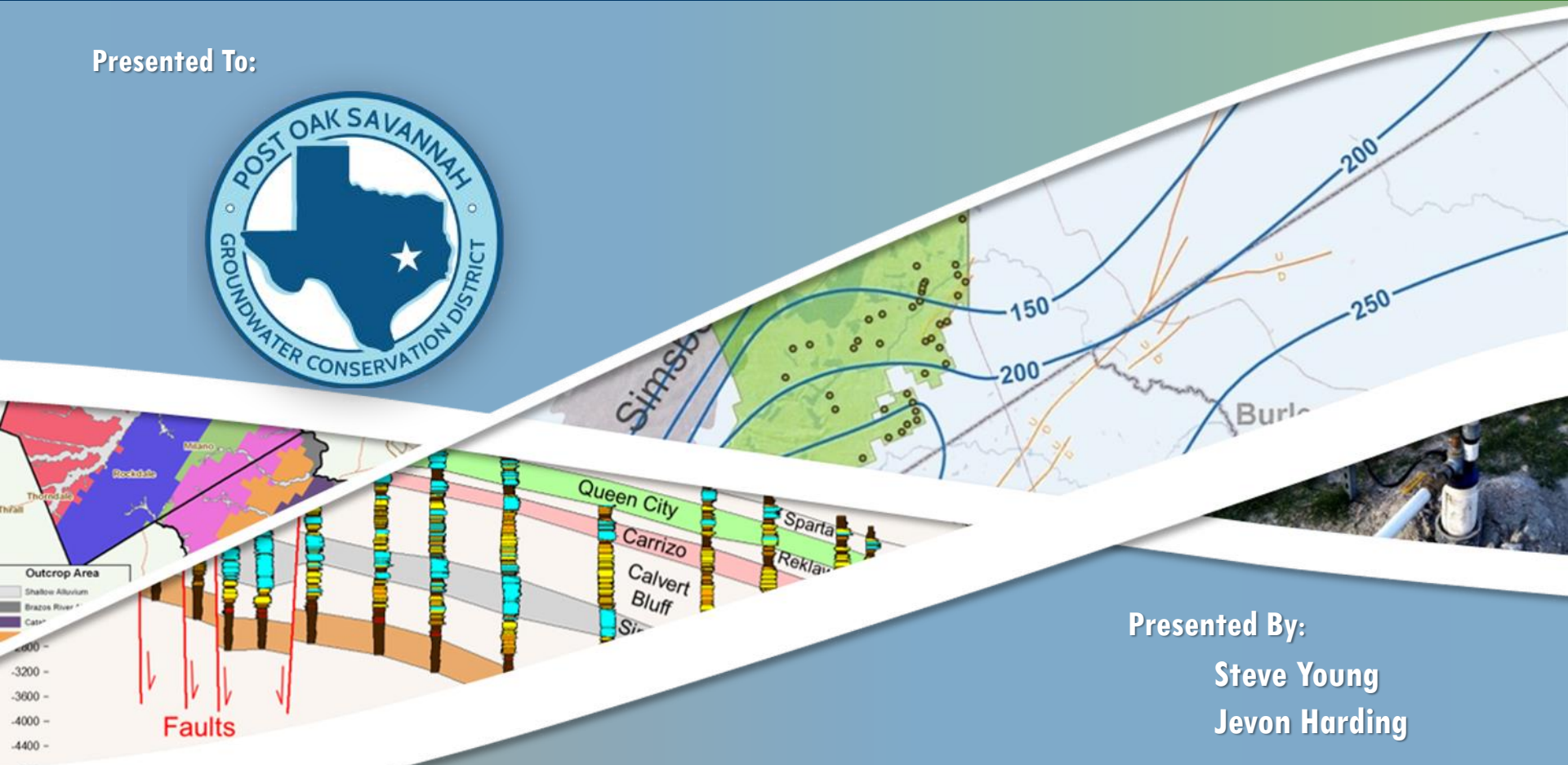


# Proposed Research Activities for 2018

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**