



# Seasonal Ecological Assessment in the upper Guadalupe Delta



GSA BBASC Meeting  
March 25, 2019



# Study Objectives

- Initiate establishment of *baseline* conditions of *marsh productivity* for the upper Guadalupe Delta region.
- Evaluate the role of *salinity and inundation* relative to marsh vegetation community dynamics within the project area.
- Quantify aquatic organism species abundance and community composition within *shallow habitats* in the study area in relation to physical habitat and salinity.



Reconnaissance



March 18, 2019

# Proposed Sampling Locations

Field Reconnaissance

March 18, 2019



# Site 1



# Site 2



# Site 3



# San Antonio River Authority / Texas Tech University EDYS Marsh Validation Sites in Guadalupe Delta



# Methodology

- Wetland Plant Productivity
  - Spring and fall sampling
  - Transects and 1m<sup>2</sup> plots
  - ½ clipped material left in place for decomposition
- Aquatic Organisms
  - Summer and fall sampling
  - Throw trap
  - Shallow non-vegetation bottom and Marsh Edge



# Schedule



- Contract signed October 8, 2018
- Reconnaissance completed March 18<sup>th</sup>.
- Spring sampling – May
- Summer sampling – July
- Fall sampling – October (will require extension)
- Reporting – December 2019 (will require extension)



Questions? Comments

