

GCGCD Groundwater Availability Evaluation Studies

The mission of the Goliad County Groundwater Conservation District (GCGCD) is to implement water conservation strategies and management strategies to maintain groundwater availability from the Gulf Coast Aquifer on a sustainable basis, and

GCGCD is a member of GMA-15 and is required to establish an aquifer Desired Future Condition (DFC) in 2080, and

GCGCD has monitored groundwater levels across the District starting in 2003, and

The groundwater level data collected by GCGCD shows a steady drop of water level, and

Pumping is projected to increase in order to support Goliad County needs and

Scientific studies are being conducted by Texas Tech University that shows there is no aquifer recharge during an average rainfall year, and that pumping is drawing from storage, and

GCGCD has contracted with LRE Engineering to evaluate all existing scientific data and perform a recalibration of the current (2020) Groundwater Availability Model for the central portion of the Gulf Coast Aquifer System (GCAS) resulting in a tool that better represents the observed water level changes in the GCAS in Goliad County, and

The recalibrated GAM pumping file has produced annual pumping values that provide an annual Modeled Available Groundwater (MAG) that approximates current pumping and projected pumping to meet the needs of the agriculture industry and population growth, and the data has been provided to TWDB.

GCGCD maintains that no excess groundwater is available above the internal projected needs for Goliad County.

Pertinent Studies

Texas Tech Recharge Study

LRE GAM Recalibration Focusing on Goliad County

Water Level Monitoring Data

Annual Water Use Reports

Technical Memorandum - Summary of Modeling Results