



## Texas Commission on Environmental Quality Nonpoint Source Program

### Lower Laguna Madre: Coastal Watershed Characterization (North)

**River Basin:** Bays and Estuaries

**Water Body:** Raymondville Drain, Hidalgo Main, and North Floodway (Segments 2491C, and 2491B)

**Location:** Lower Rio Grande Valley; Lower Laguna Madre watershed

#### Background

The Raymondville Drain and the Hidalgo main Floodwater Channel flow into Laguna Madre (2491\_01) which does not meet state water quality standards for dissolved oxygen and has concerns for excess nutrients. The North Floodway flows into the Laguna Madre (AU 2491\_02) which does not meet state water quality standards for dissolved oxygen or bacteria and has concerns for excess nutrients. The project area is comprised of sub-watersheds associated with the Raymondville Drain, the Hidalgo Floodway, and the North Floodway. Although these water bodies meet water quality standards, they are main contributors of freshwater, wastewater, and stormwater to the Laguna Madre.

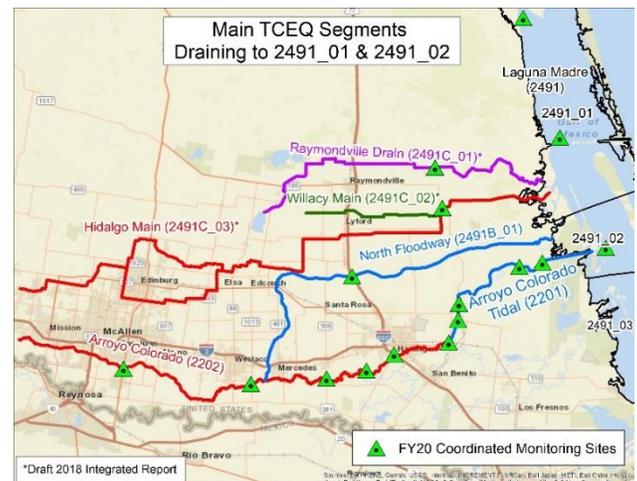
#### Project Descriptions

The University of Texas at Rio Grande Valley (UTRGV) will initiate a characterization of the Lower Laguna Madre watershed. Data will be collected, analyzed, categorized, and evaluated to identify information that can be used to assess current conditions. This includes identifying water quality issues, potential sources of pollution, and the relative contribution of each source. UTRGV will complete an inventory of these data.

UTRGV will develop a conceptual model to show the linkage between the water quality problems and pollution sources. This analysis, to the extent possible, will include a spatial and temporal exploration of water quality problems and sources of pollution in the watershed.

Gathering and analyzing existing water quality data will assist in identifying data gaps and what data need to be collected in the future. Existing data and new data will determine which analytical method will be used for estimating pollutant loadings, and the reductions needed to improve water quality.

Stakeholders will be engaged throughout the process to provide local input.



*This map was developed by the Nonpoint Source program of TCEQ. No claims are made to the accuracy or completeness of the data or to its suitability for a particular use. For more information concerning this map contact [nps@tceq.texas.gov](mailto:nps@tceq.texas.gov).*

#### For More Information

##### Project Website

[RGV characterization of rio northern and central grande valley watersheds](#)

##### TCEQ NPS Program

[nps@tceq.texas.gov](mailto:nps@tceq.texas.gov)

##### UTRGV Project Manager

Ahmed Mahmoud

[ahmed.mahmoud@utrgv.edu](mailto:ahmed.mahmoud@utrgv.edu)