

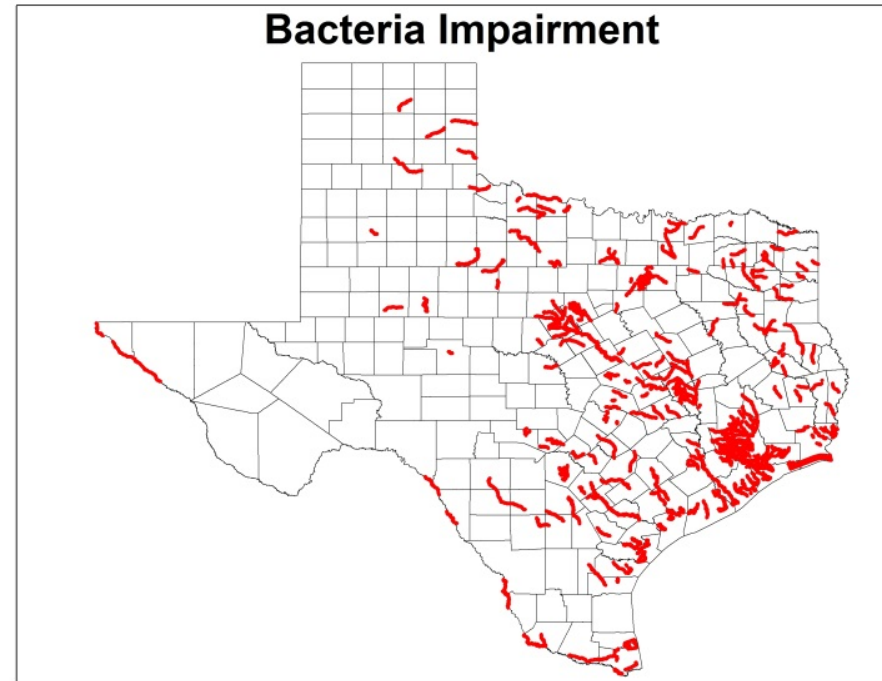
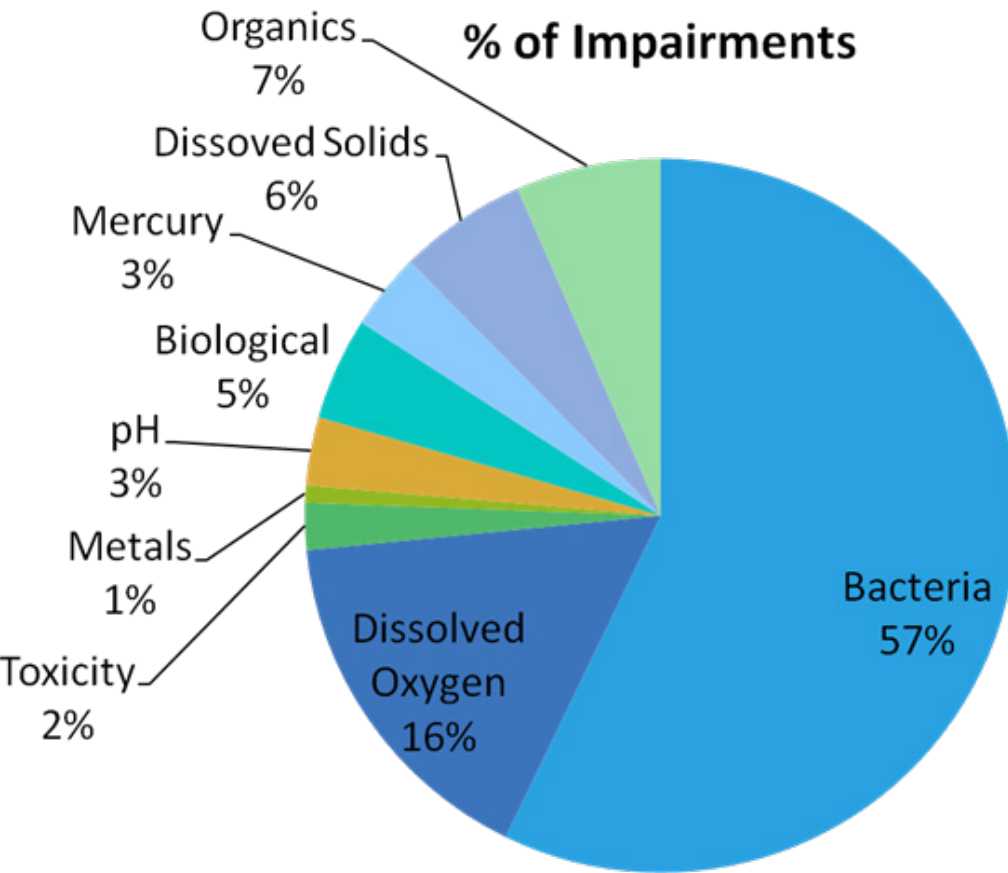
Water Quality Management and Matagorda Basin Project

Allen Berthold
Texas Water Resources Institute

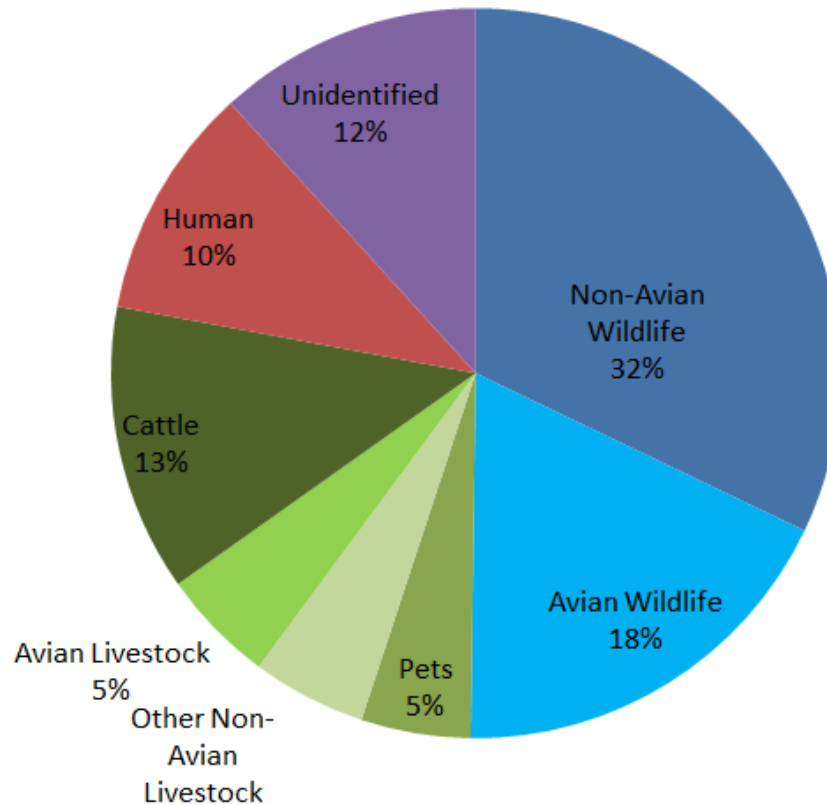
Water Quality Management Overview



#1 Water Quality Issue in Texas is addressing Bacteria Impairments



What are the sources of bacteria?



How does Bacteria get into Creeks?

▶ Non-Point Sources

- Animals directly deposit fecal material into water
- Fecal material runoff from landscape
 - Pet waste, livestock manure, wildlife scat
- Illegal dumping
- Failing septic systems

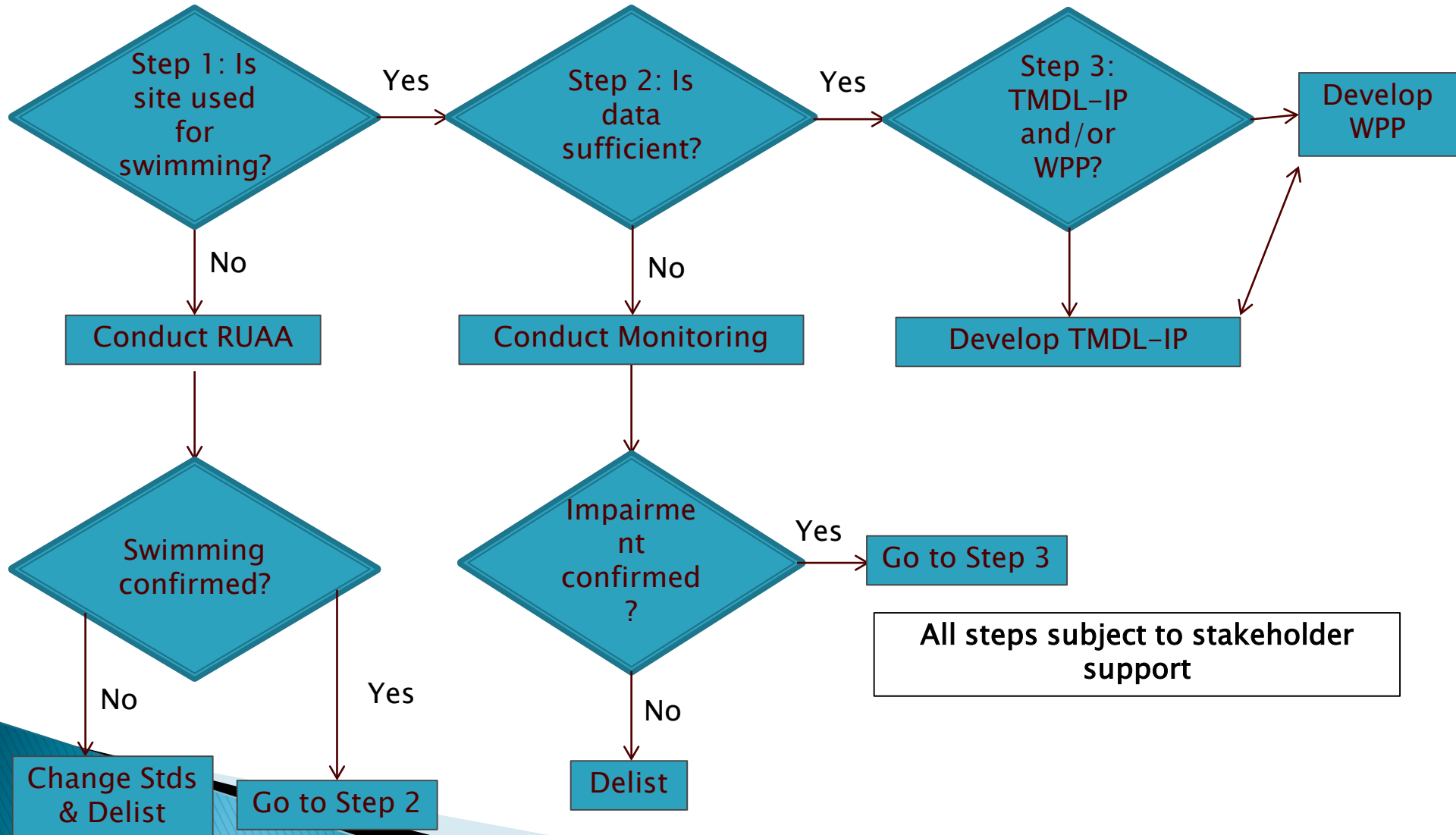


▶ Point Sources

- Improperly treated wastewater discharge
- Stormwater from cities

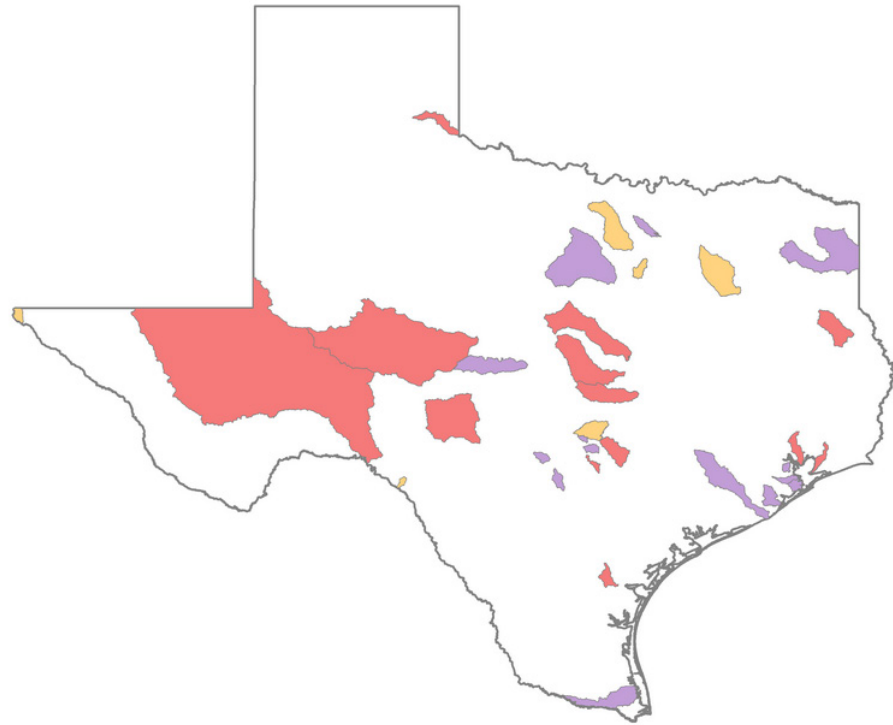


General approach used today for addressing bacteria

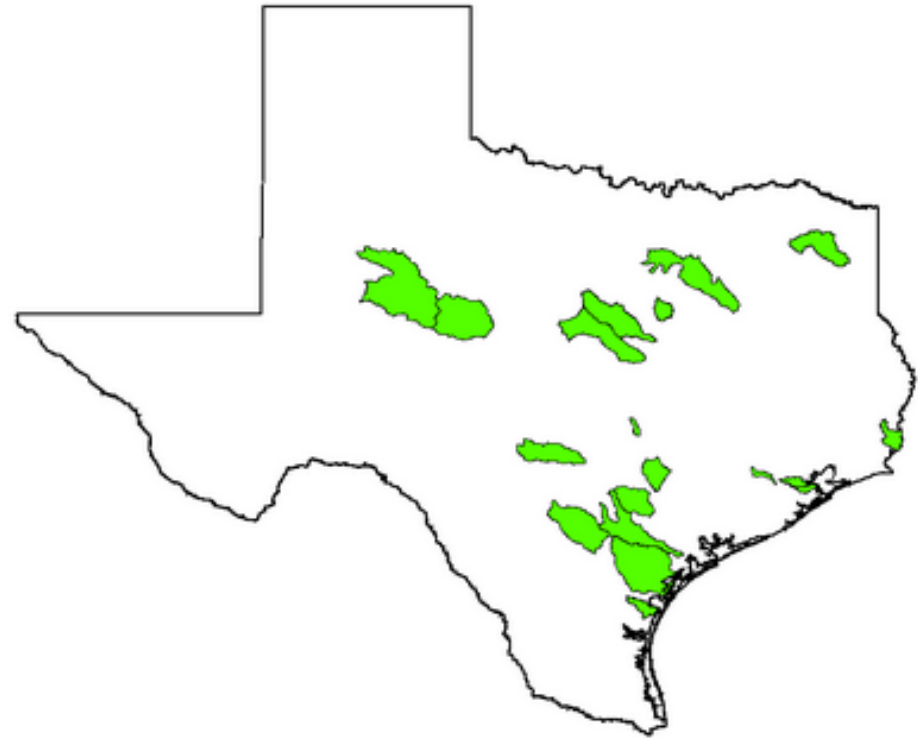


Watershed-Based Plans Across Texas

Watershed Protection Plans (WPP)



Total Maximum Daily Load (TMDL) and Implementation Plan (I-Plan)



Overview of Project

- ▶ Previous Work
 - Host Education Programs
 - Collect existing data
 - Initiate Tres Palacios Watershed Planning
 - Conducted Arenosa Creek RUAA
- ▶ Current – August 2016
 - Complete Tres Palacios WPP/TMDL I-Plan
 - Characterize Lavaca and Rocky Creek Data
 - Complete Arenosa Creek RUAA (Currently Under Review)
- ▶ September 2016 – August 2017
 - Develop Lavaca WPP/ TMDL I-Plan
 - Rocky Creek RUAA
 - Arenosa Creek and Carancahua Bay Characterization
- ▶ September 2017 – August 2018
 - Arenosa Creek and Carancahua Bay Watershed Planning

Questions?

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