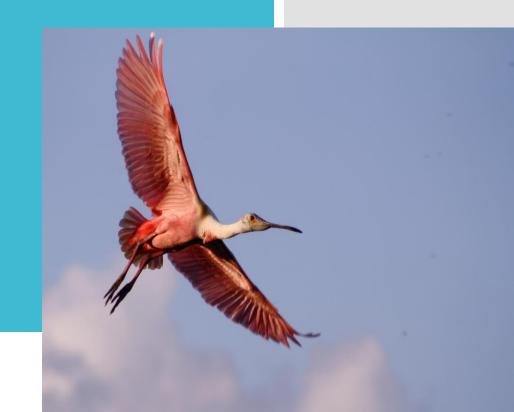
BRAZOS – COLORADO COASTAL BASIN: BASIN 13

Public Meeting 2 August 1, 2017

Steven Johnston Houston-Galveston Area Council steven.johnston@h-gac.com





Meeting Agenda

• 3:00 – 3:05 Welcome - Open Meeting

• 3:05 – 3:25 Basin Water Quality Update

• 3:25 – 3:45 Caney Creek Special Study

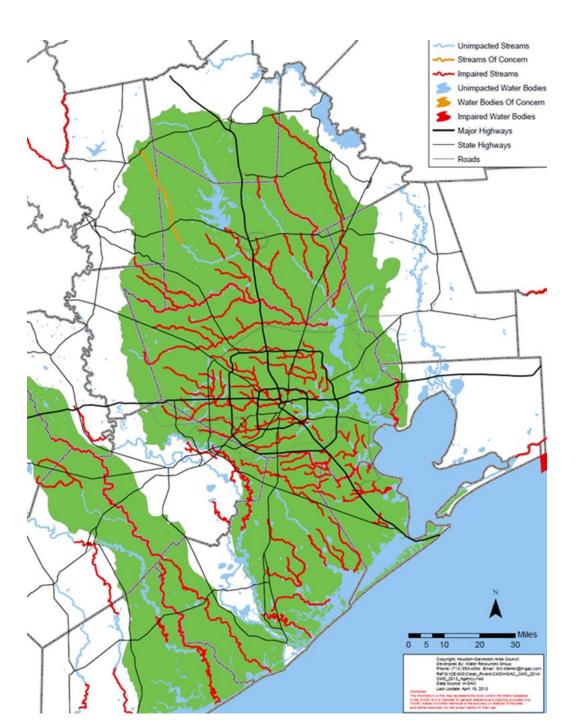
• 3:45 – 4:00 Next Steps

• 4:00 – 5:00 Q&A / Meet and Greet

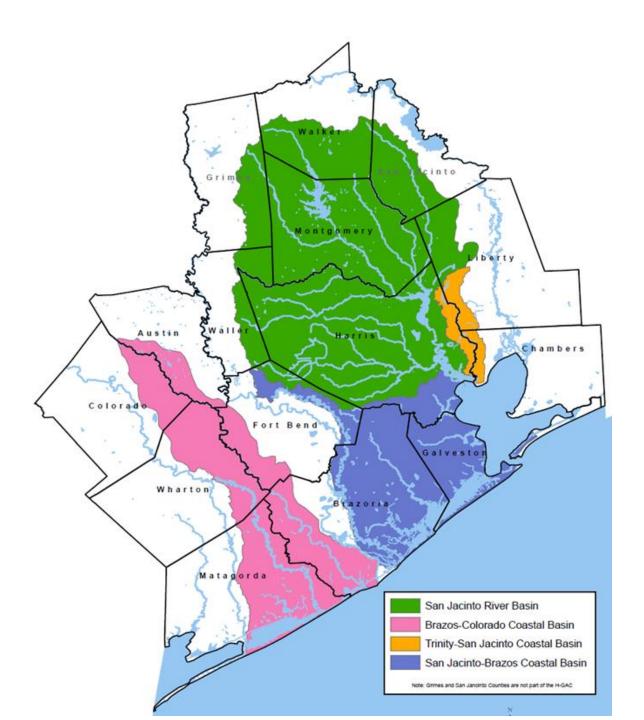
Meeting Goals / Takeaways

- ✓ Share Basin Water Quality Bacteria
 Review Water Quality Data
- ✓ What Are Potential Sources
- ✓ Watershed Planning Tools
- ✓ Local Stakeholder Involvement in Decisions
 - San Bernard Watershed Protection Plan Implementation
 - Caney Creek Watershed Planning

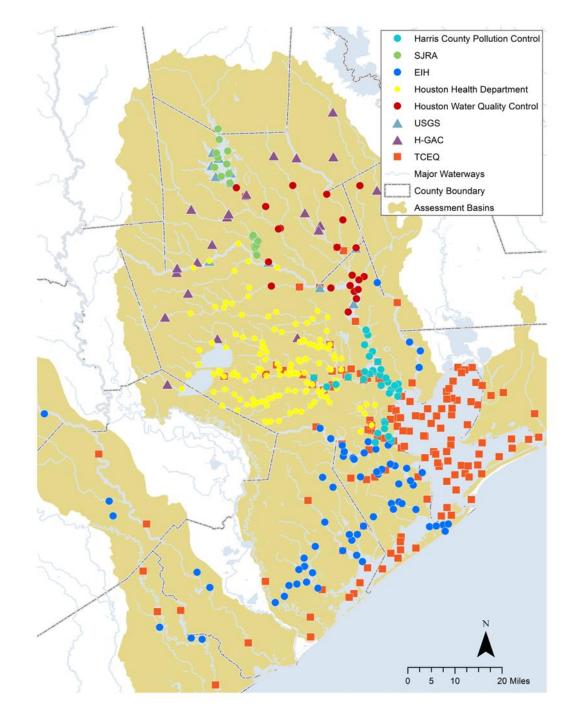
Why Are We Here?



Clean Rivers Program -Region



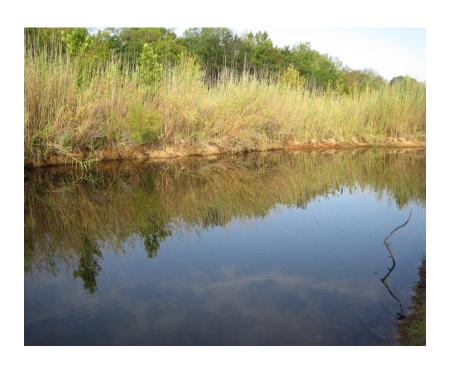
Regional Coordinated Monitoring



Basin 13

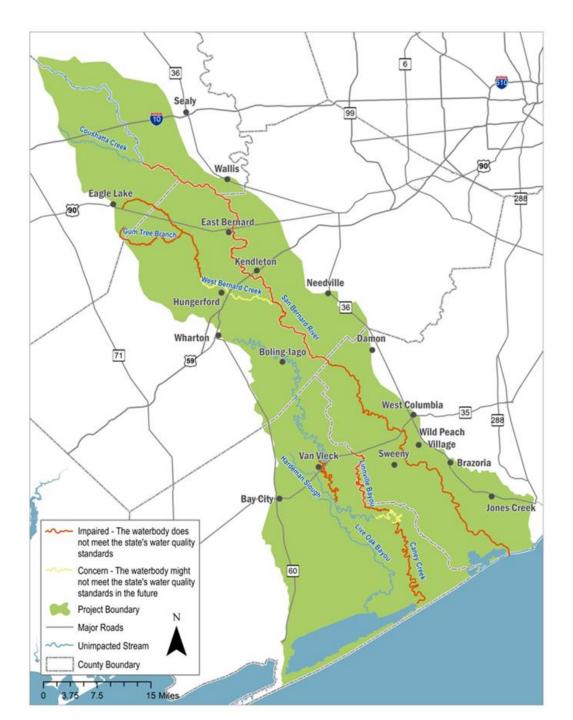
BASIN CHARACTERIZATION REPORT FOR THE BRAZOS – COLORADO COASTAL BASIN FOR INDICATOR BACTERIA

Segments: 1301, 1302, 1304, 1305

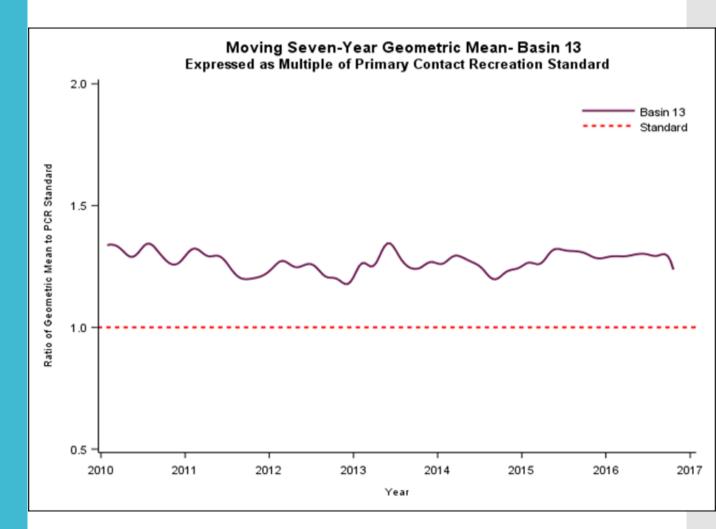


June 30, 2017

Bacteria



Bacteria Trends in Basin 13

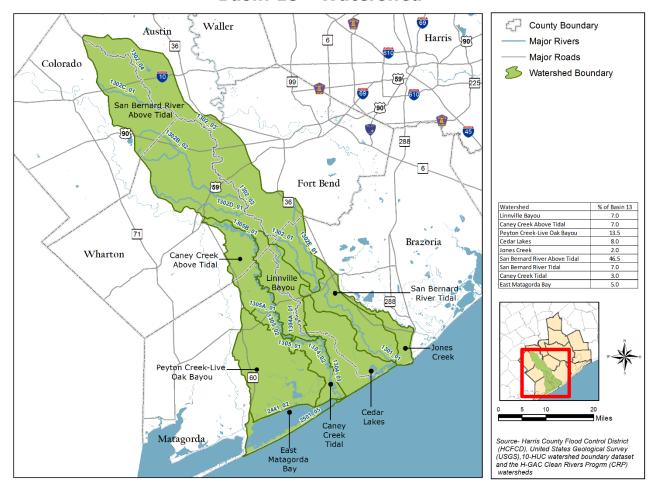


Basin Data



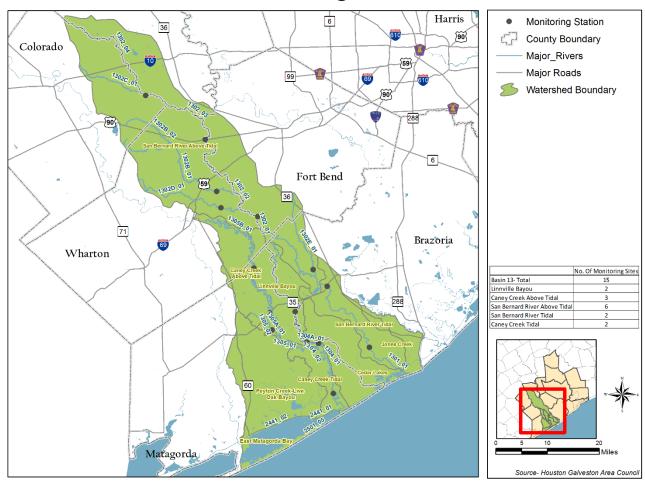
Watersheds

Basin 13 - Watershed



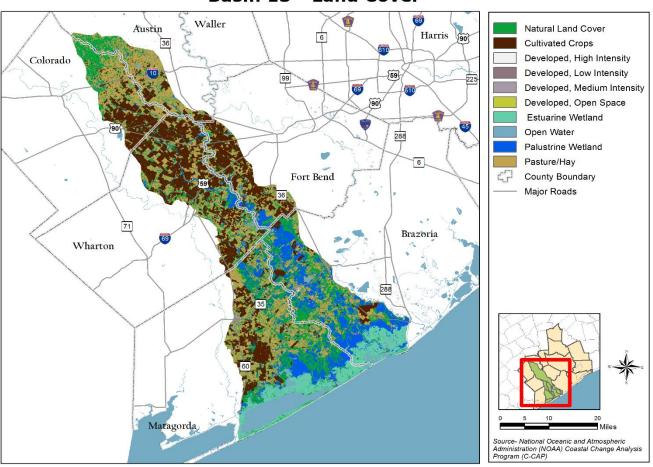
Monitoring Sites

Basin 13 - Monitoring Site Locations



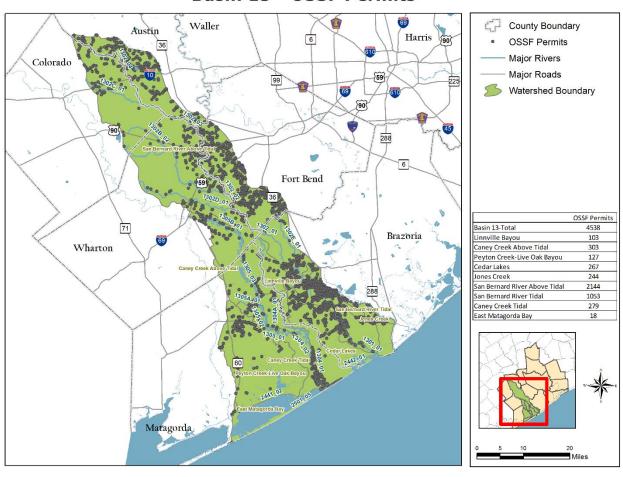
Potential Sources: Land Cover

Basin 13 - Land Cover



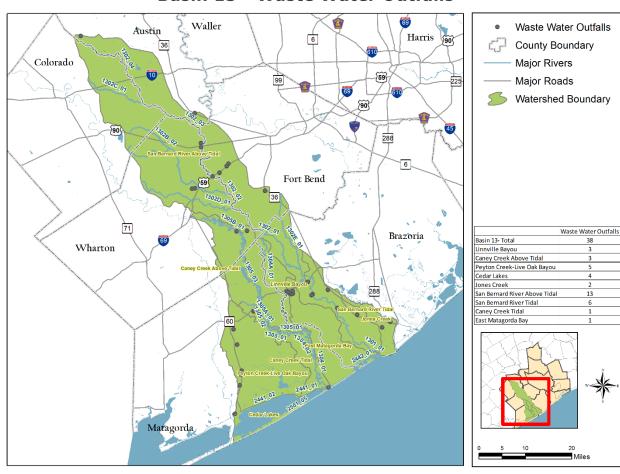
Potential Sources: OSSFs

Basin 13 - OSSF Permits



Potential Sources: Wastewater Outfalls

Basin 13 - Waste Water Outfalls



Addressing Impaired Waterways

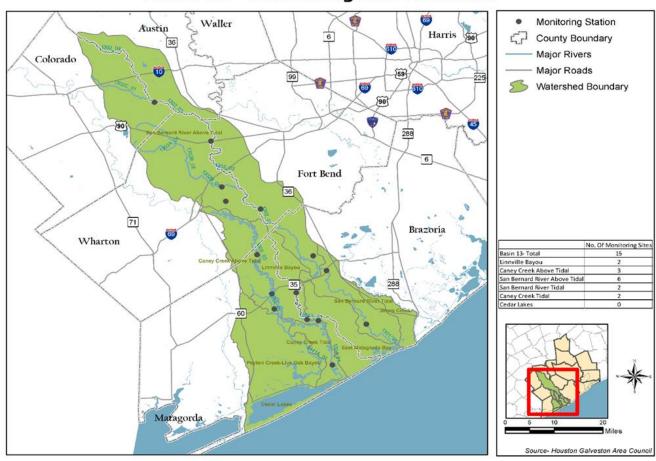
Watershed Planning Tools include:

- Increase or Expand Monitoring
- Recreational Use Attainability Analysis (RUAA)
- Total Maximum Daily Load (TMDL)
- Watershed Protection Plan (WPP)



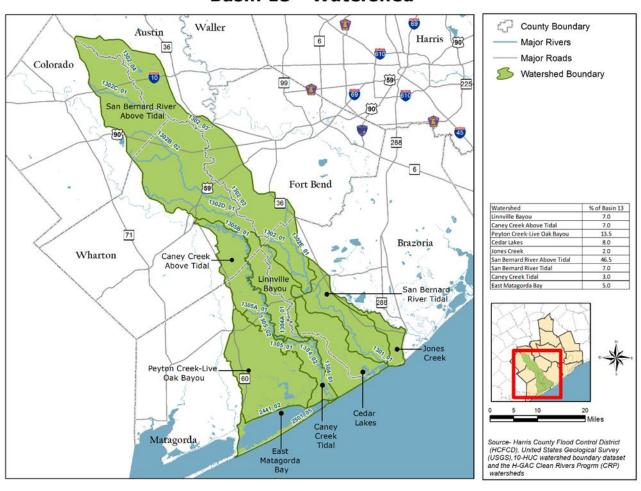
Increase or Expand Monitoring

Basin 13 - Monitoring Site Locations

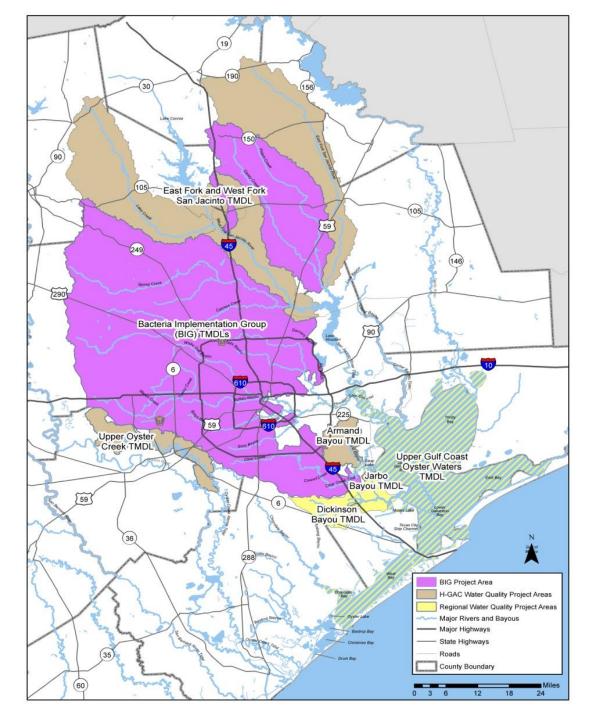


RUAAs

Basin 13 - Watershed



TMDL Projects



Addressing Impaired Waterways

What is a TMDL?

- "Budget" for pollutant
- Focus only on constituent of concern
- Can lead to mandatory and voluntary changes





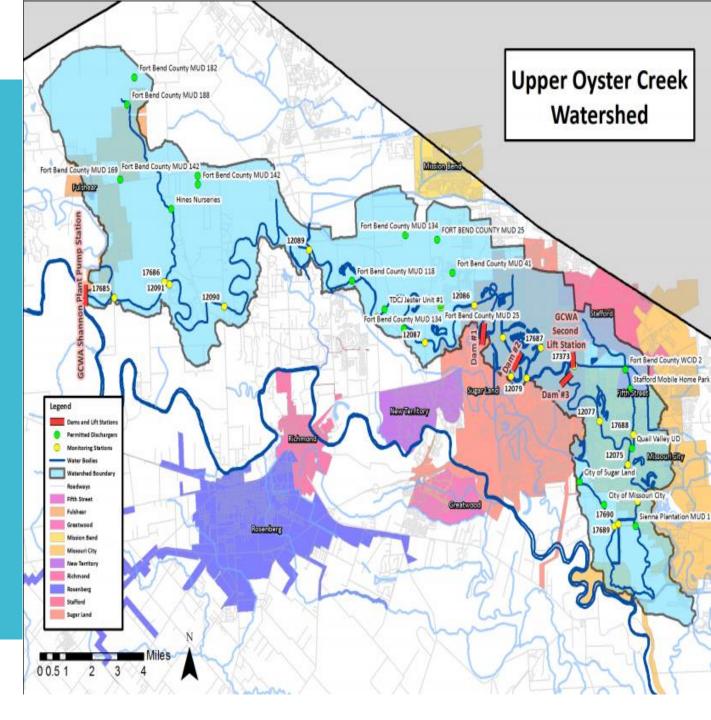
What is an Implementation Plan?

- "Second Phase" of TMDL
- Determines HOW reductions will be made
- Based on stakeholder recommendations
- Identifies
 - Solutions
 - Implementing Partners
 - Timelines
 - Means of gauging improvement



The I-Plan

Example TMDL / I-Plan



Addressing Impaired Waterways

What is a WPP?

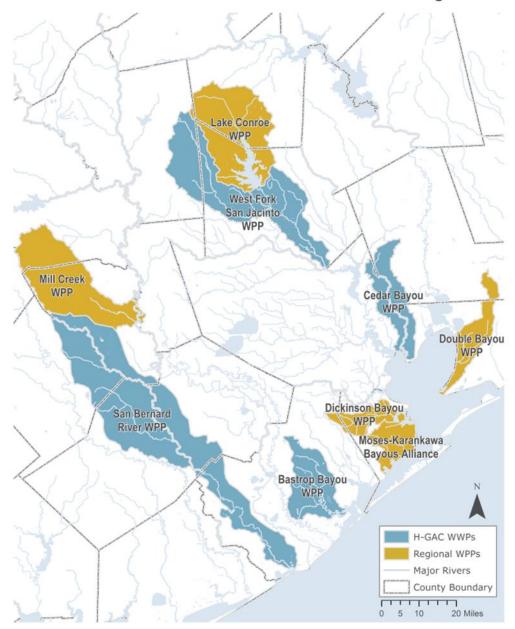
- Stakeholder-led process
- Holistic approach to water quality improvement
- Recommends voluntary changes





Regional WPP Projects

Watershed Protection Plans in the H-GAC Region



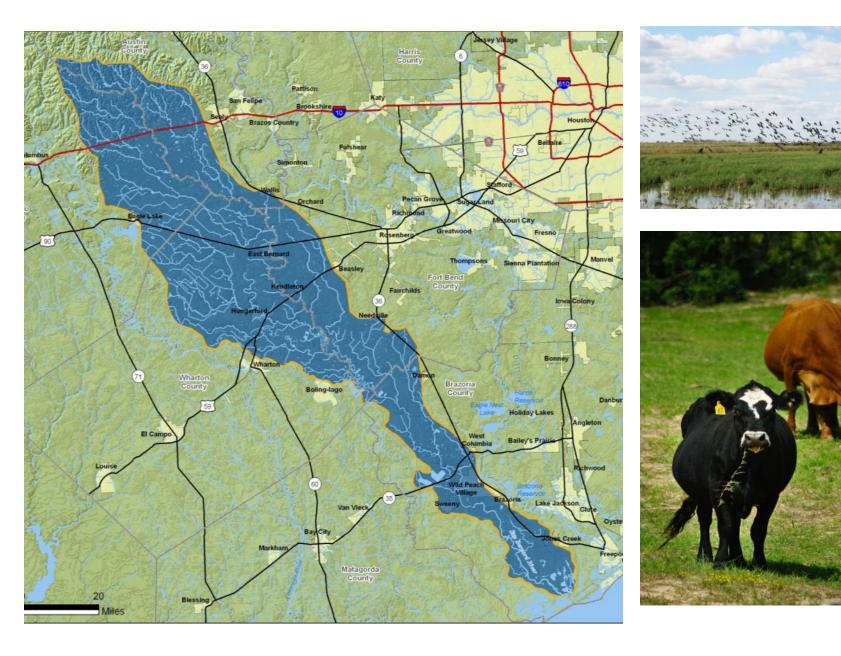
WPP Process

- Identify and Characterized Watershed Impairments
- 2. Model Sources and Develop Loading Reductions
- 3. Stakeholders Identify Management Measures
- 4. Voluntary Approach

Example WPP: San Bernard River WPP

- Started in FY 10 through ARRA Grant
- Primary target is elevated indicator bacteria
- Focus of WPP is reducing bacteria from OSSFs and cattle
- WPP approved by TCEQ/EPA

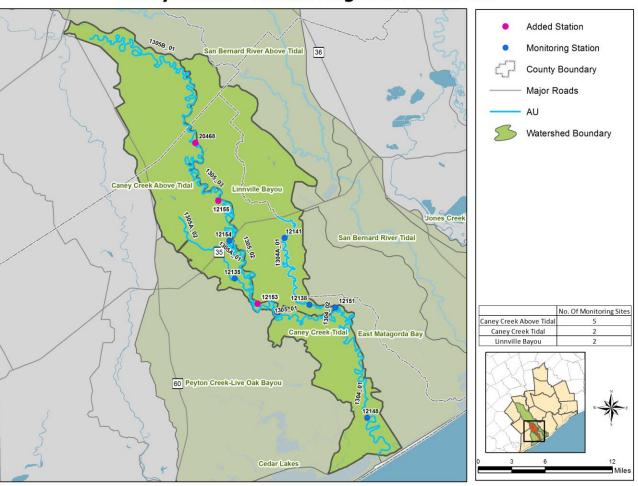




www.h-gac.com/community/water/watershed_protection/san-bernard-river.aspx

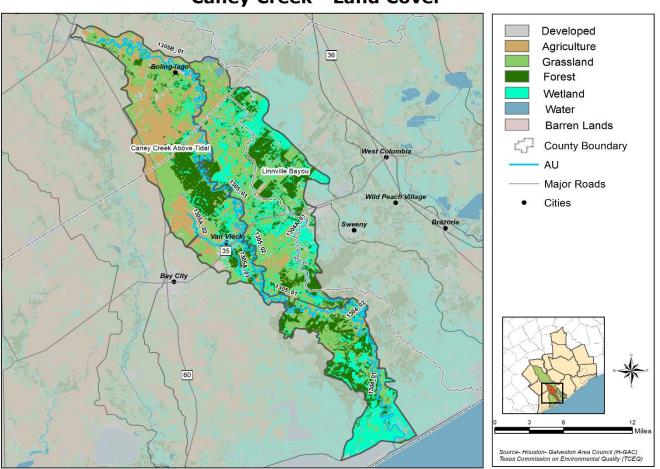
Caney Creek

Caney Creek - Monitoring Site Locations



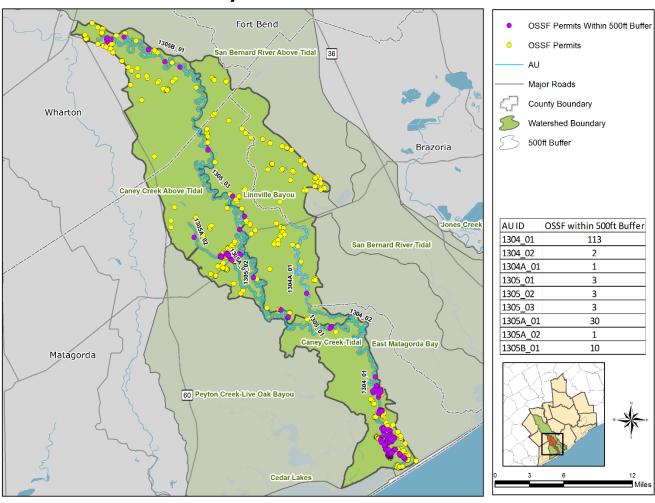
Caney Creek: Land Cover

Caney Creek - Land Cover



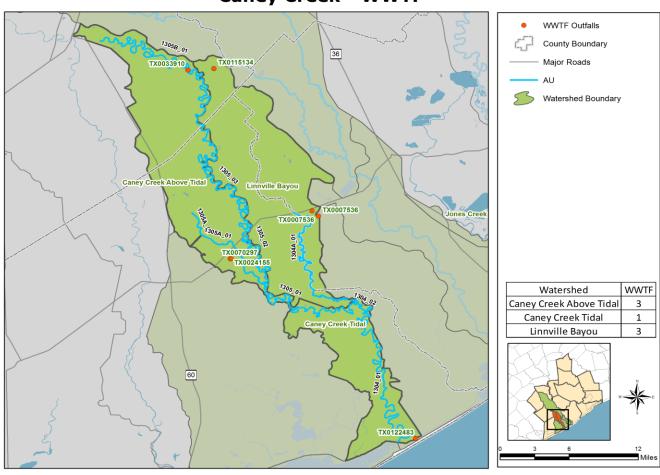
Caney Creek: OSSF

Caney Creek - OSSF Permits

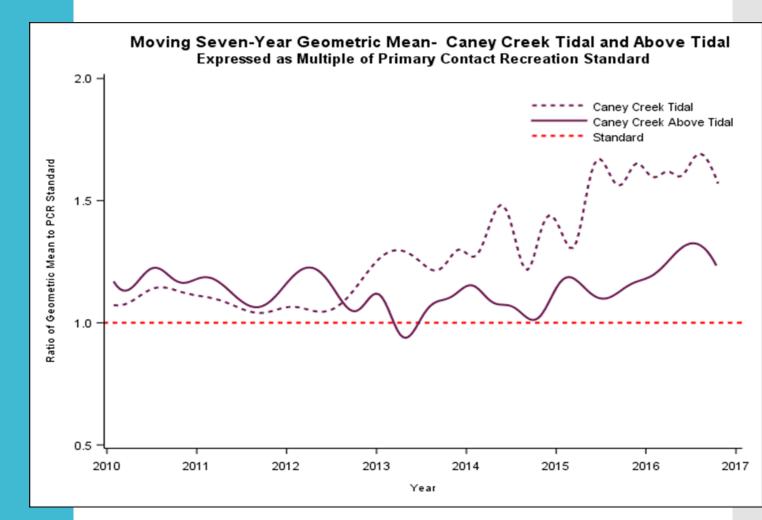


Caney Creek: WWTF Outfalls

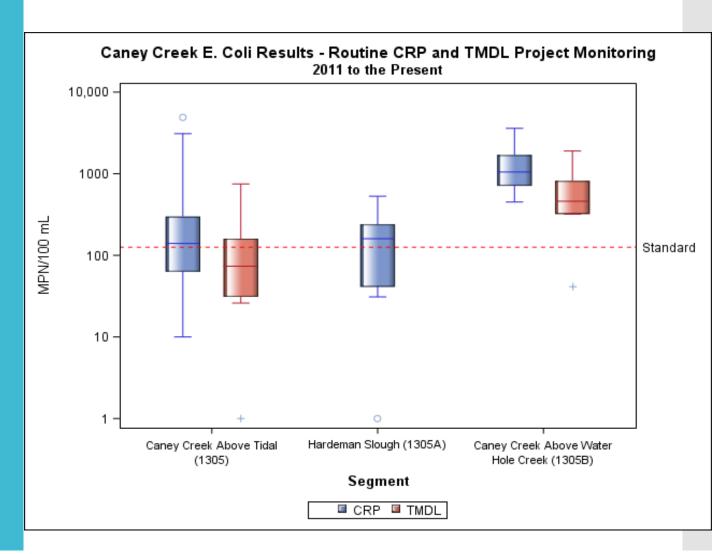
Caney Creek - WWTF



Bacteria Trends



New Data



State Programs -Implementation



Workshops and Training



Next Steps

- Working to find support for San Bernard WPP implementation.
- Start stakeholder meetings in Caney Creek
 - Selecting members of the Coordination Committee
 - Stakeholder input of watershed planning approach
- Draft Caney Creek Technical Support Document
 - Draft Due June 2018.

Questions?



