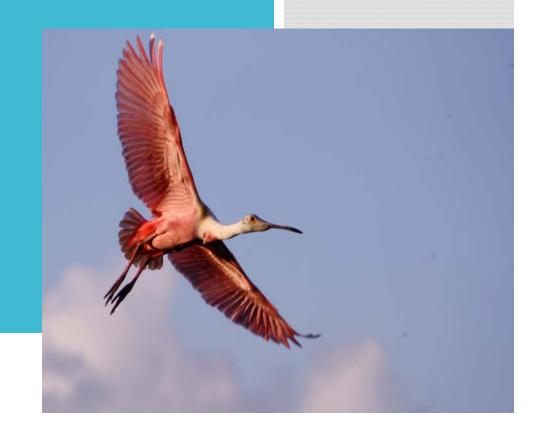
CANEY CREEK WATERSHED BRAZOS - COLORADO COASTAL BASIN

December 7, 2017

Steven Johnston & Kathy Janhsen





Meeting Agenda

• 10:00 – 10:05 Welcome - Open Meeting

• 10:05 – 10:25 Basin Approach Review

• 10:25 – 10:45 Caney Creek Special Study

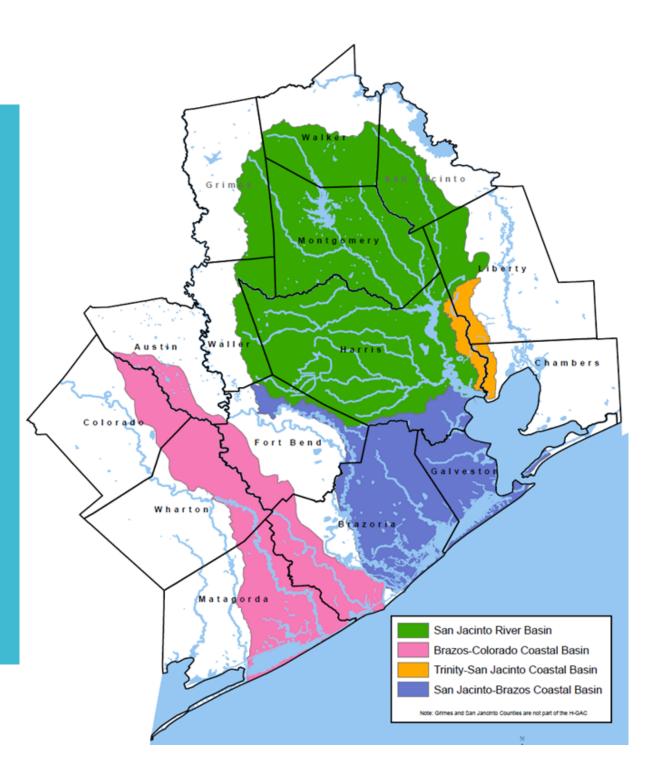
• 10:45 – 11:30 Coordination Committee Discussion

• 11:30 – 12:00 Q&A / Meet and Greet

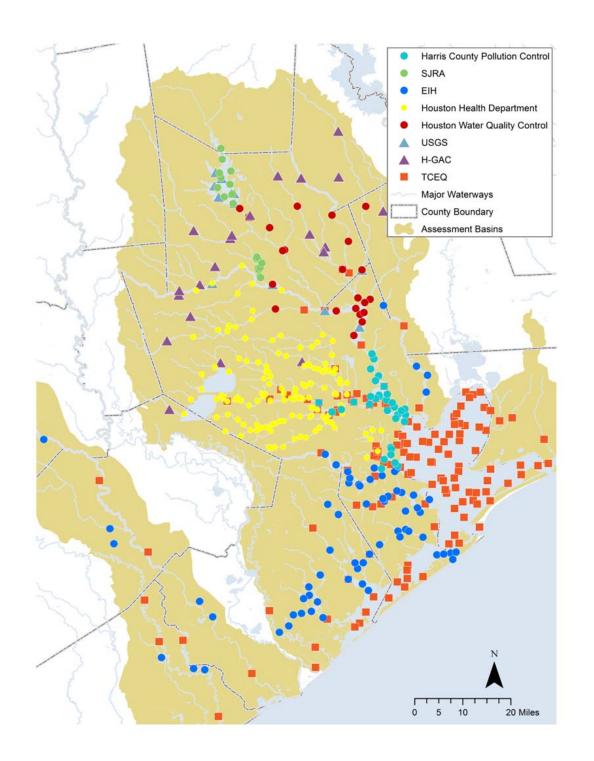
Meeting Goals

- ✓ Share Basin Water Quality Bacteria
 - Review Water Quality Data
- ✓ What Are Potential Sources
- ✓ Watershed Planning Tools
- ✓ Initiate Creek Stakeholder Involvement in Decisions
 - Caney Creek Watershed Planning

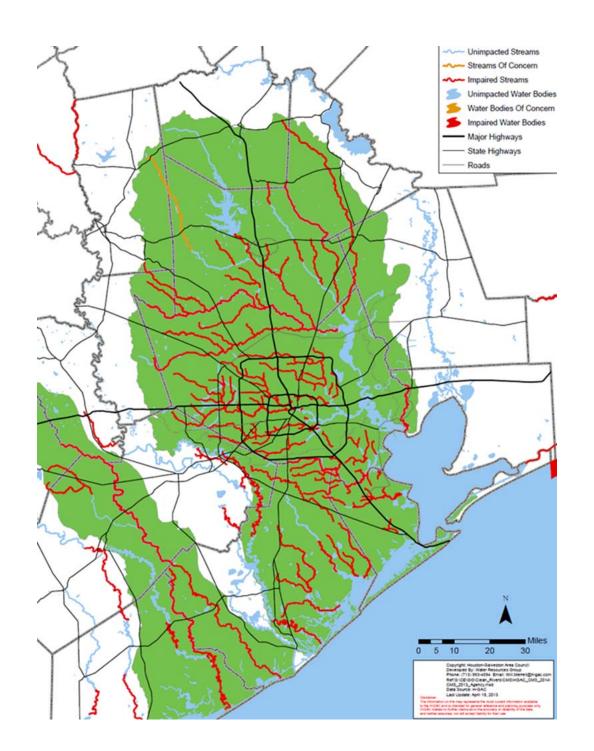
Clean Rivers Program -Region



Regional Coordinated Monitoring



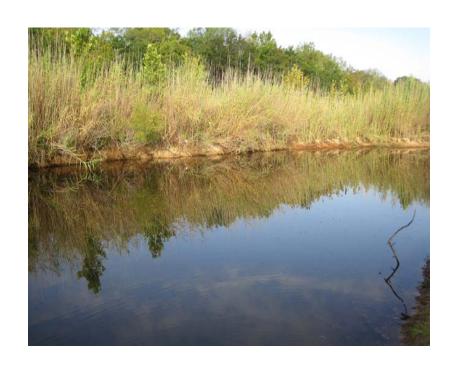
Why Are We Here?



Basin 13

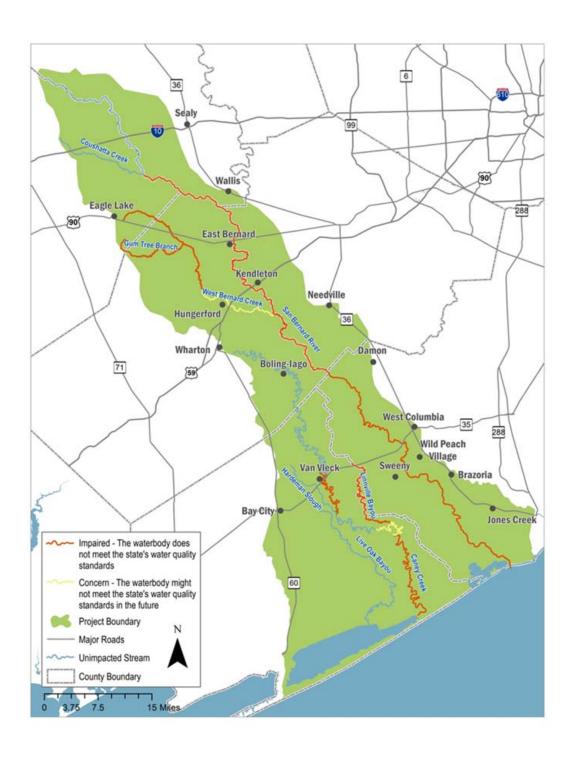
BASIN CHARACTERIZATION REPORT FOR THE BRAZOS – COLORADO COASTAL BASIN FOR INDICATOR BACTERIA

Segments: 1301, 1302, 1304, 1305

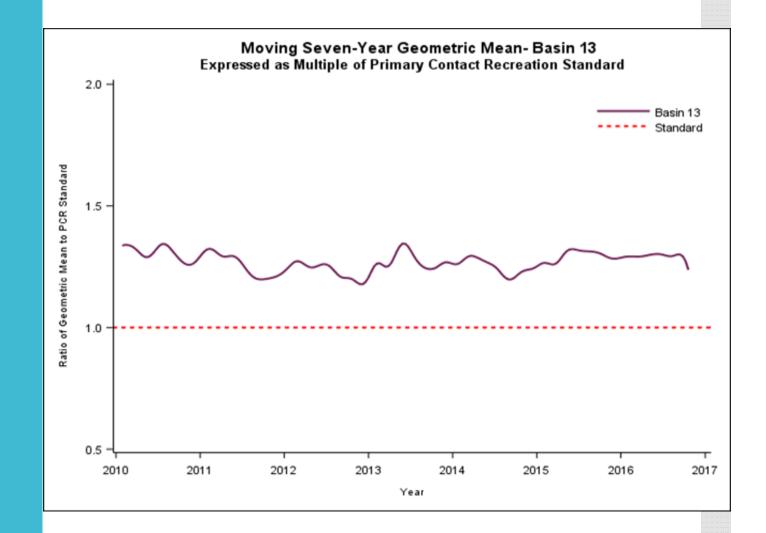


June 30, 2017

Bacteria



Bacteria Trends in Basin 13



Addressing Impaired Waterways

Watershed Planning Tools include:

- Increase or Expand Monitoring
- Recreation Use Attainability Analysis (RUAA)
- Watershed Based Plans
 - Total Maximum Daily Load (TMDL) and Implementation Plan (I-Plan)
 - Watershed Protection Plan (WPP)
 - Galveston Bay Coalition of Watersheds



Watershedbased Plans

TMDL Study

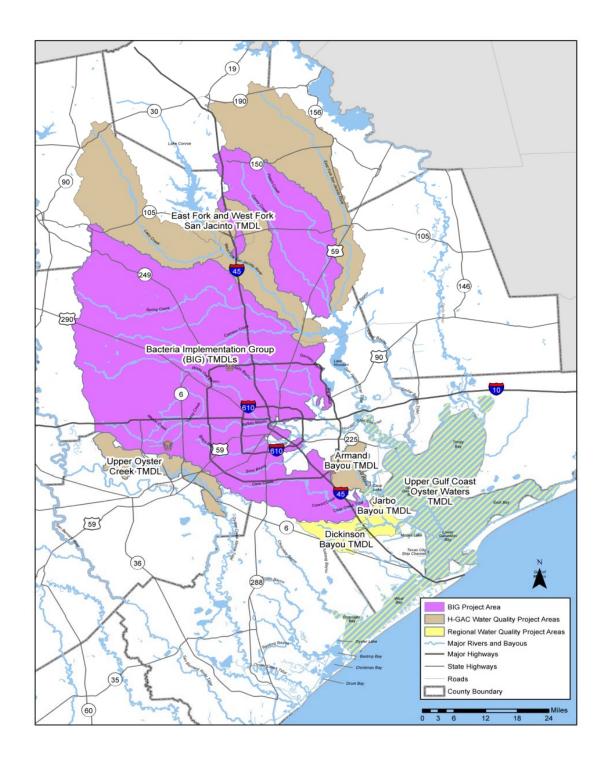
- "Budget" for pollutant
- Focus only on constituent of concern
- Can lead to mandatory and voluntary changes

Implementation Plan

- Determines HOW reductions will be made
- Based on stakeholder recommendations



TMDL Projects with I-Plans



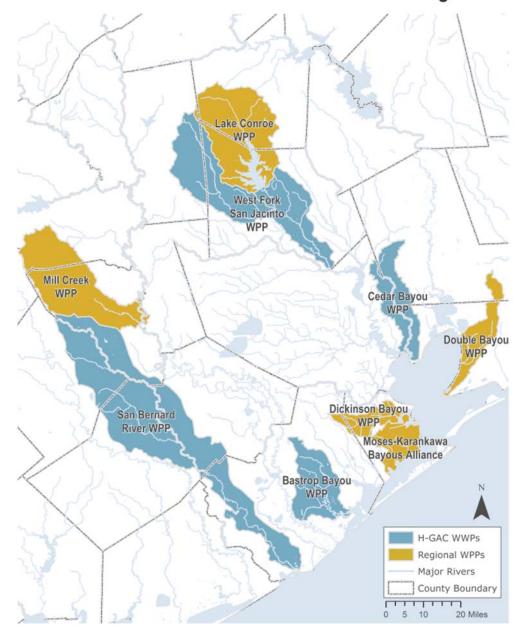
Watershedbased Plans (cont.)

Watershed Protection Plans

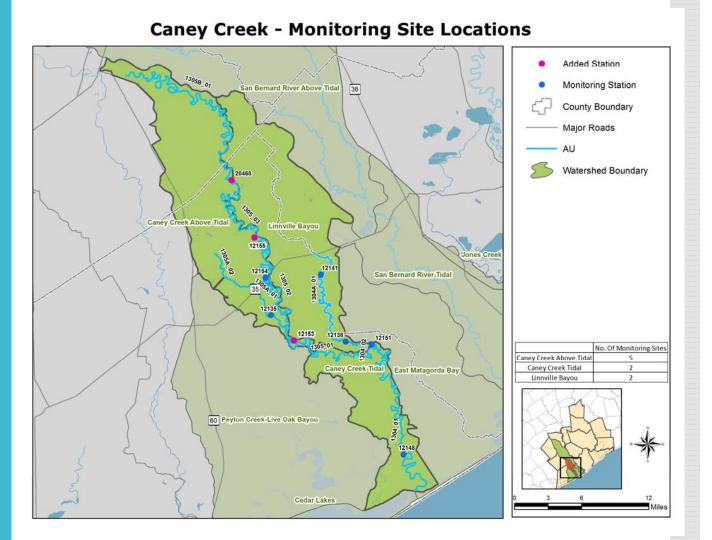
- Voluntary approach to reducing impairments in local waterways
- Most funded under EPA CWA 319(h) grants from TCEQ, TSSWCB
- Engage local stakeholders to use good science to generate solutions
- Target one or more issues, not only water quality

Regional WPP Projects

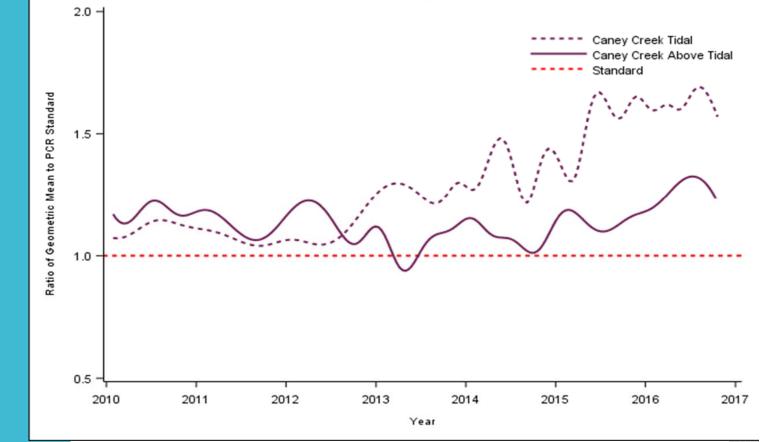
Watershed Protection Plans in the H-GAC Region



Caney Creek Special Study



Moving Seven-Year Geometric Mean- Caney Creek Tidal and Above Tidal Expressed as Multiple of Primary Contact Recreation Standard



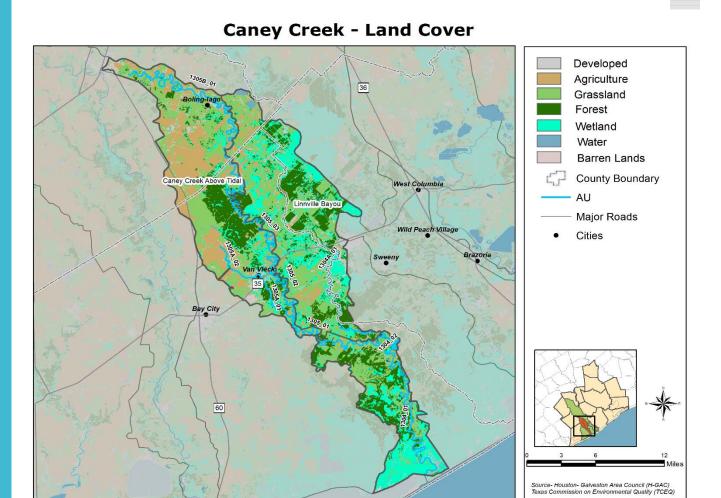
Bacteria Trends

Segment	Earliest Data	Most Recent Data	Number of Results	Indicator	Standard (MPN/ 100 mL)	Geometric Mean (MPN/ 100 mL)
Caney Creek Above Tidal	1/28/2010	10/13/2016	27	e. coli	126.00	155.5
Caney Creek Tidal	1/28/2010	10/20/2016	36	enterococci	35.00	55.1

Basin Data

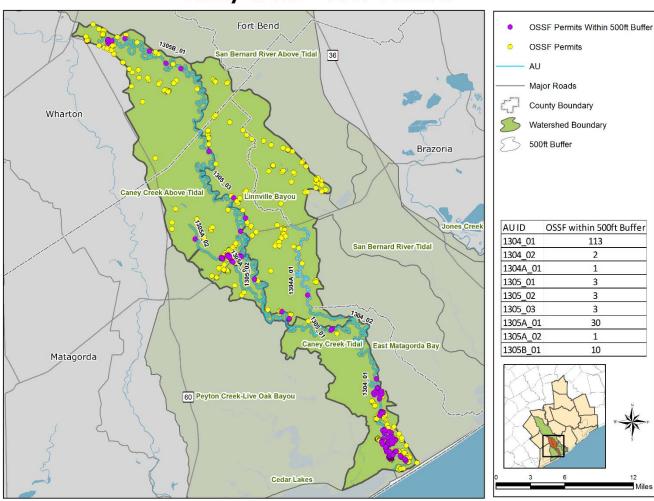


Caney Creek: Land Cover

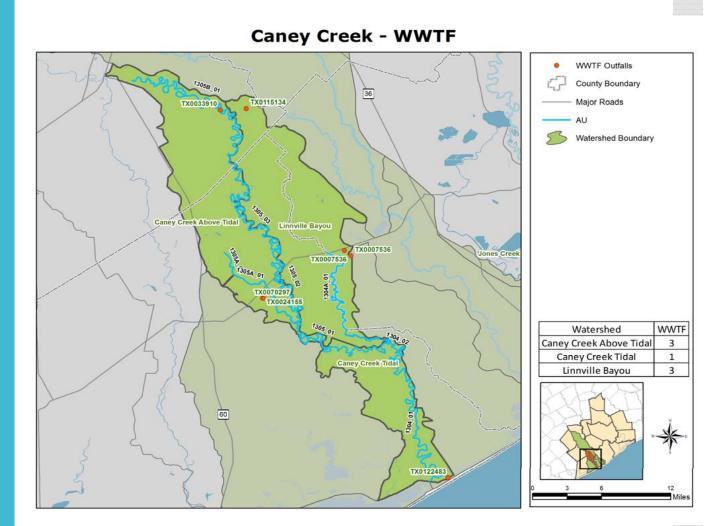


Caney Creek: OSSF

Caney Creek - OSSF Permits



Caney Creek: WWTF
Outfalls

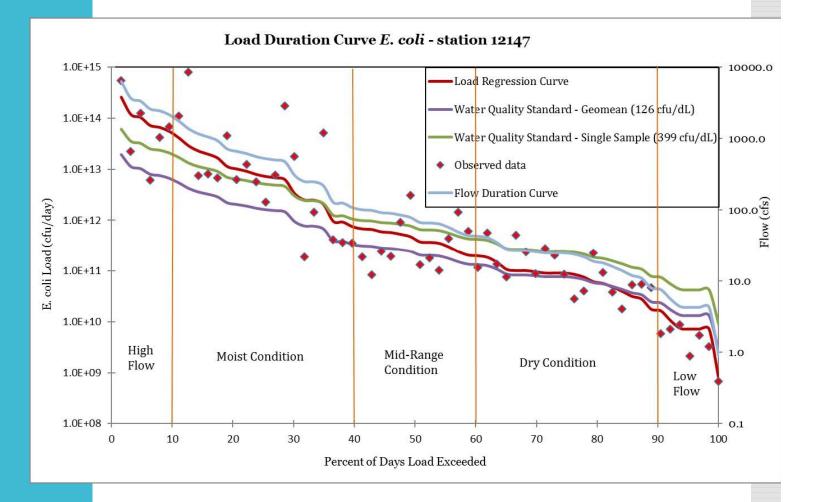


Other Potential Sources

- Agriculture
- Household Pets
- Feral Hogs
- Other Wildlife



Load Duration Curves



TMDL = WLA + LA + FG + MOS

Example: Chocolate Bayou TMDL – (Preliminary)

WLA_{wwtf} **TMDL** MOS WLA_{sw} LA Watershed Segment (Billion (Billion (Billion (Billion (Billion MPN/day) MPN/day) MPN/day) MPN/day) MPN/day) Chocolate 1107 718.01 21.08 44.72 18.46 633.75 Bayou Tidal Chocolate Bayou 1108 1,334.80 66.74 142.63 57.96 1,067.47 Above Tidal

TMDL

What's a Coordination Committee?

A proactive group of local and regional stakeholders helping to create and drive content for the TMDL / I-Plan and/or WPP documents.

Role of the Coordination Committee

- Attend Public Meetings
- Participate in Work Groups
- Act as Community Ambassadors

- Provide Input of Priorities for the Watershed
- Identify Appropriate Existing Measures
- Provide Input on Documents & Reports

What are Existing Measures?

Existing measures are a menu of voluntary strategies stakeholders can use to reduce bacteria levels in Caney Creek.

Small Group Discussion

(1) POTENTIAL INTERESTS

- Citizens
- Education
- Environmental Groups
- Government Interest
- Industry and Business
- Parks / Recreation
- Resource Agency
- Watersheds
- Wildcard
- Others?

(2) NUMBER OF REPRESENTATIVES

- Ideal size of the committee?
- Other committees range from 31 members to 18.
- Number should be fairly distributed by interest.

(3) PROCESS TYPES

FORMAL

- Formal nominations
- Recorded votes
- Written rules of order

INFORMAL

- Informal nominations
- Consensus-based
- Ground rules

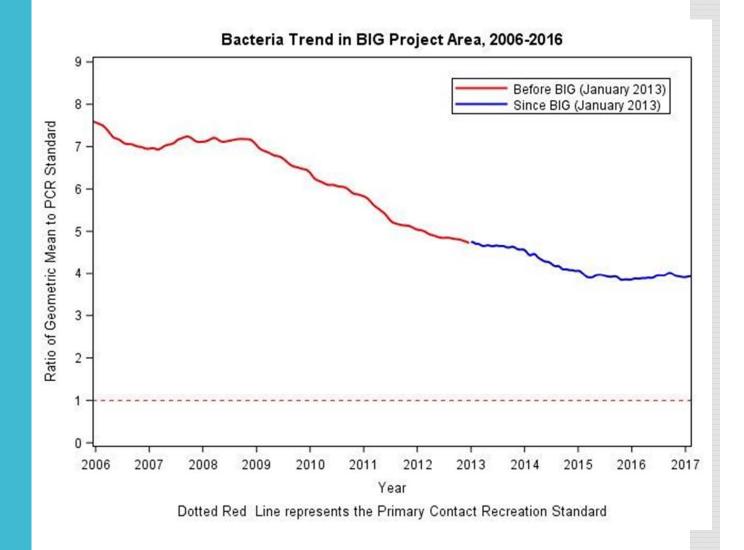
(4) MISSING PIECES

- Who should be here that isn't?
- Are we missing major industry or stakeholder groups?

Small Group Discussion - Results

- 1. Return to Larger Group
- 2. Review Results of break-out session
 - i. Interests to be represented
 - ii. Appropriate committee size
 - iii. Preferred process type
 - iv. Missing people & pieces?
- 3. Group Discussion of Results
- 4. Next Steps

Do Watershed Plans Work?



Texas Stream Team
Training — Spring 2017

Implementation: Workshops and Training

Texas Watershed Stewards Training/July 11, 2017



Questions?



