

Update on Waterbodies Not **Meeting State Criteria** and **FY2019 Proposed Monitoring Presented by** Jenna Olson **Environmental Programs Coordinator**

Meeting Date: April 12, 2018



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Impairments - Basin Overview

In the 2014 IR:

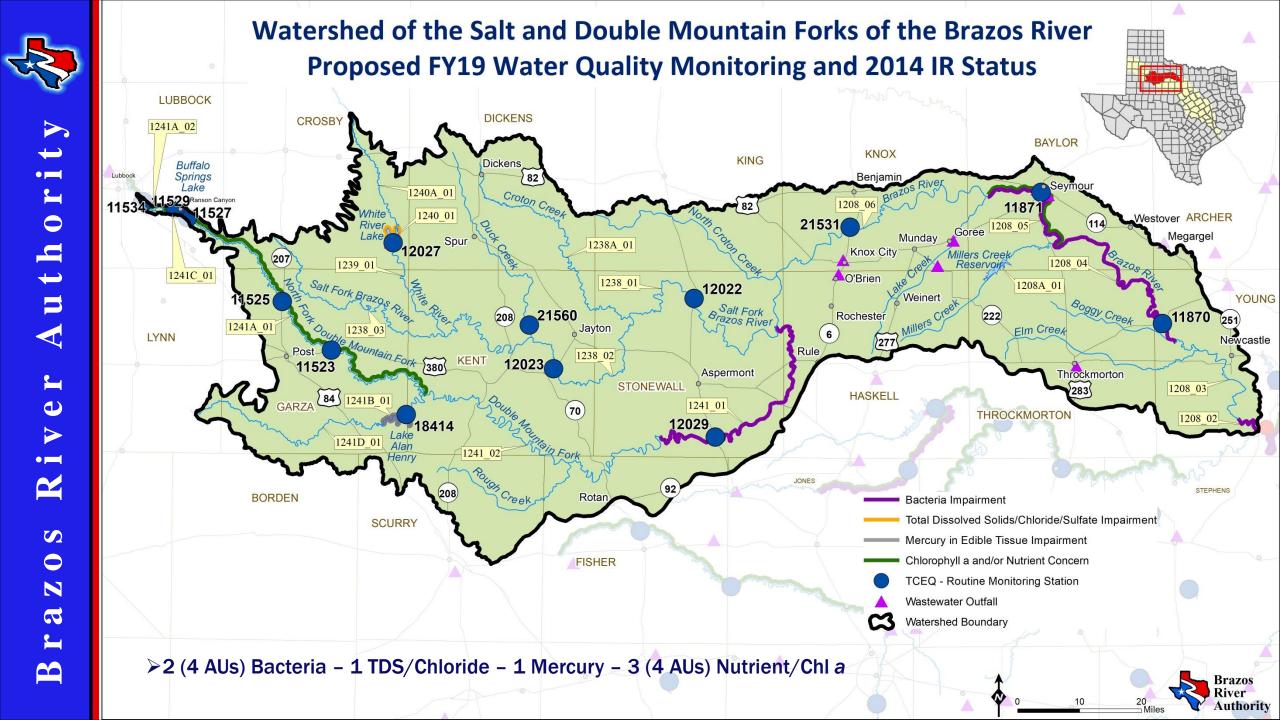
Out of a total of 205 waterbodies (336 Assessment units (AUs)) evaluated...

- 78 waterbodies (105 AUs) are listed as impaired on the draft 2014
 303(d) List (≈38/≈31%)
- 66 waterbodies (78 AUs) are listed as impaired for elevated bacteria (≈32/≈23%)
- 8 waterbodies (9 Aus) are listed for dissolved oxygen Impairment (≈4%/≈ 3%)
- 4 waterbodies (6 AUs) are listed as impaired for chloride, sulfate and/or TDS (≈ 2%/≈2%)
- 99 waterbodies (193 AUs) are identified as having concerns based on screening levels for algal growth and/or elevated nutrients (≈48%/≈ 57%)
- 4 waterbody AUs were added to the impaired list and 14 waterbody AUs were de-listed (as compared to the 2012 IR)

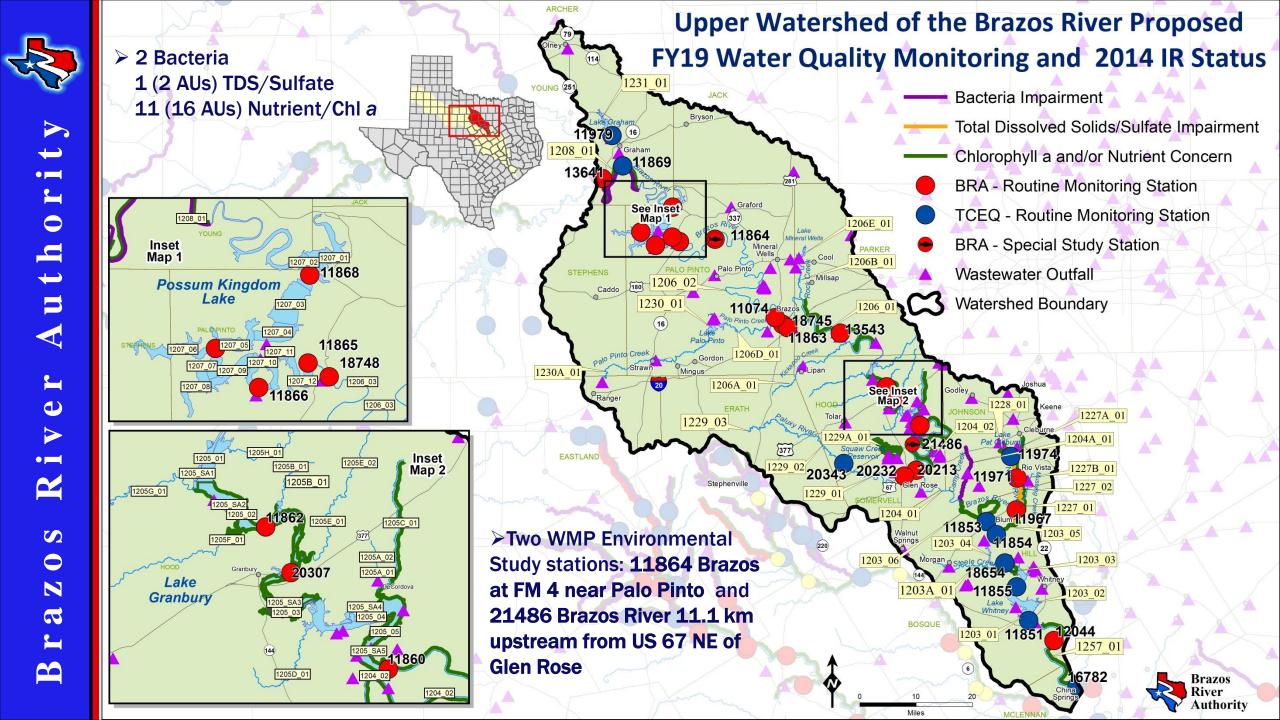


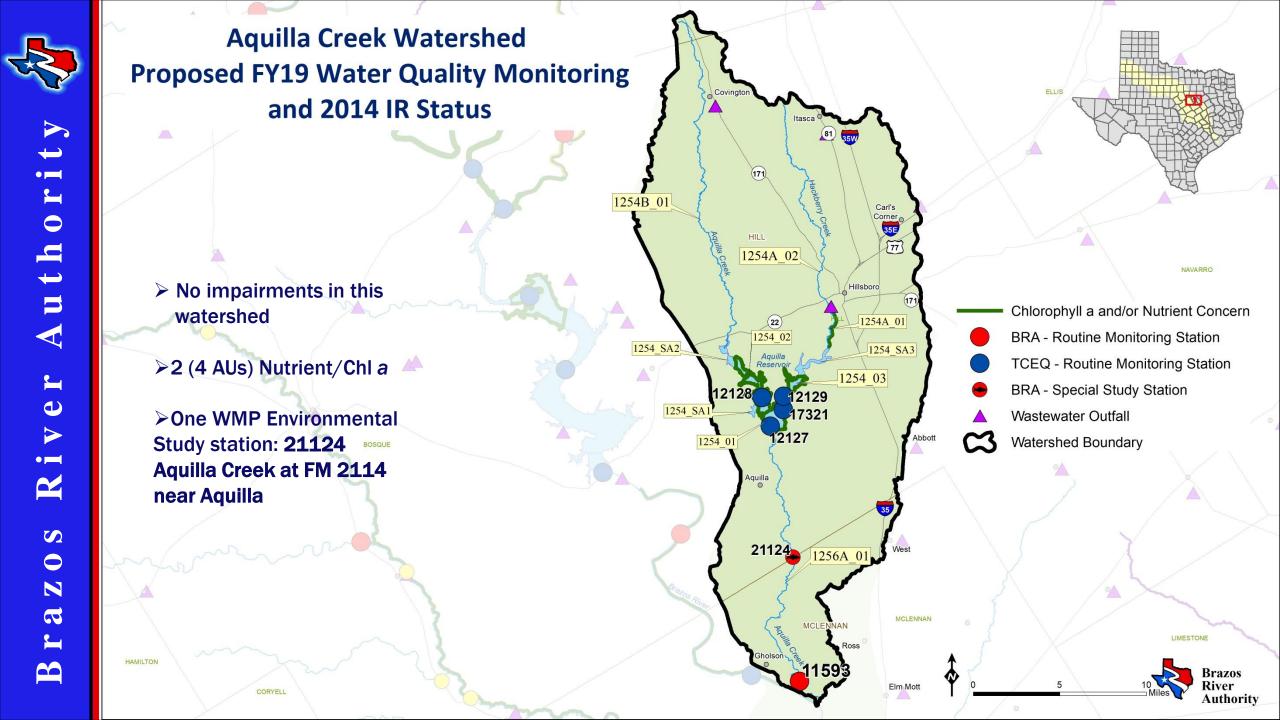
General Monitoring Strategy for FY 2019

- Maintain current routine monitoring effort throughout the Basin. BRA currently routinely monitors 105 stations.
 - There is potential to add additional stations if they can be incorporated into our current run schedule
 - In instances where stations are dropped, we will negotiate in the Coordinated Monitoring Meeting to pick up stations and maintain effort throughout the basin
- BRA will continue instream flow based biological monitoring in support of the BRA's Water Management Plan Environmental Studies and share data with CRP/SWQM as possible
- BRA will perform native and endangered mussel monitoring as negotiated with the USFWS.

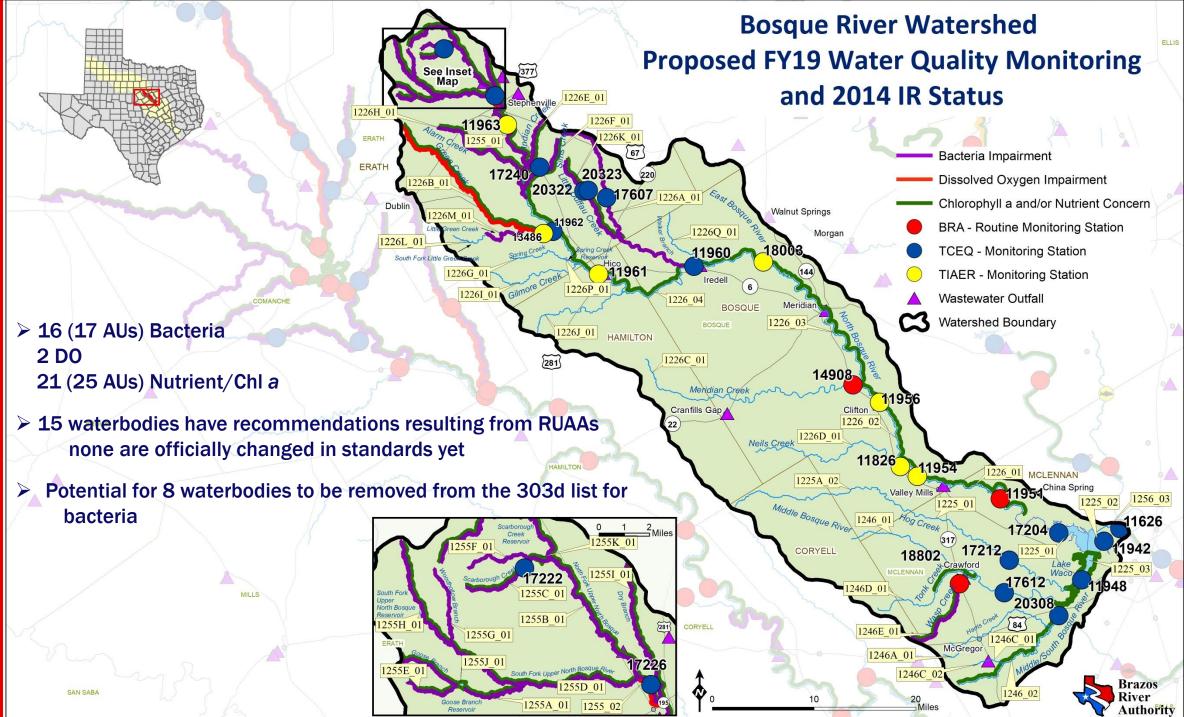


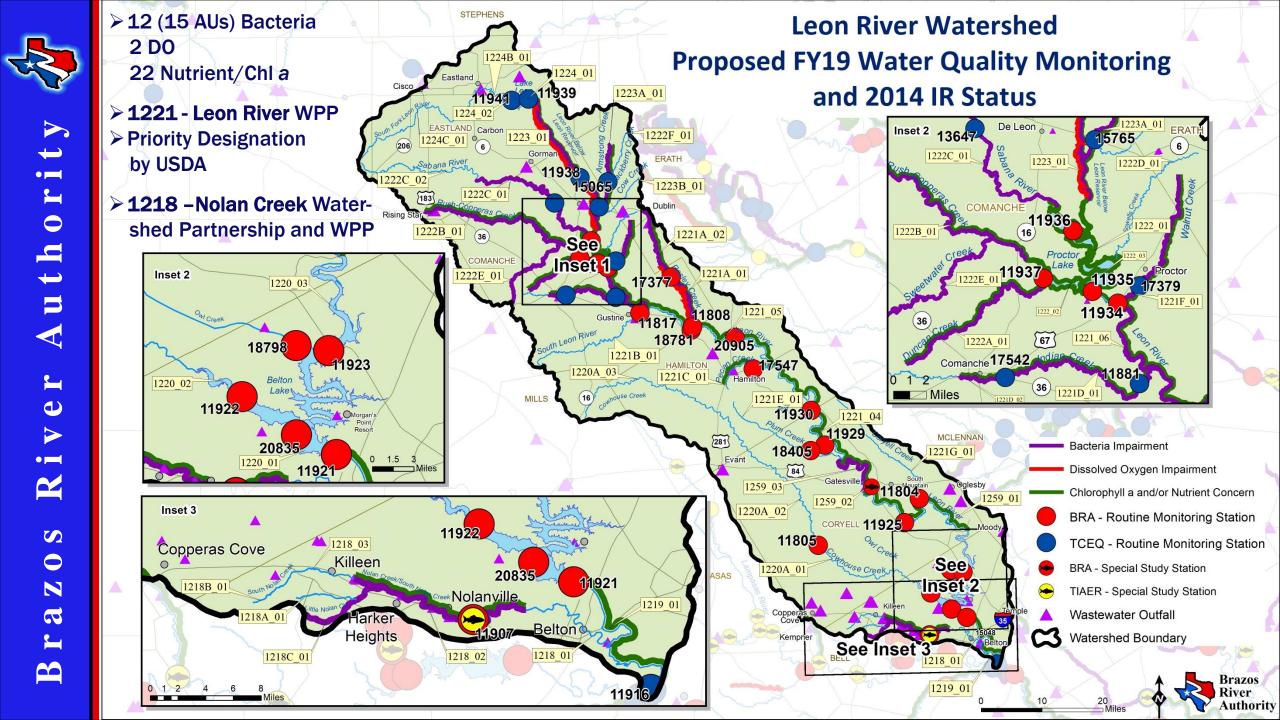


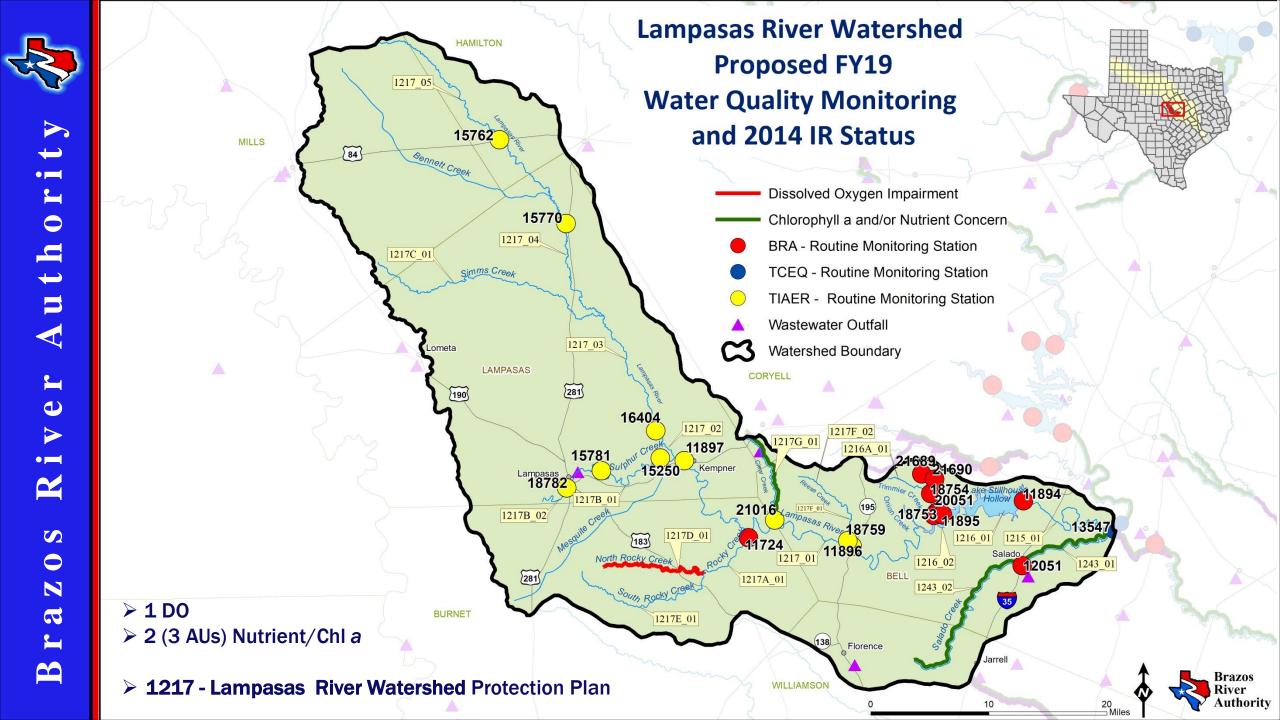


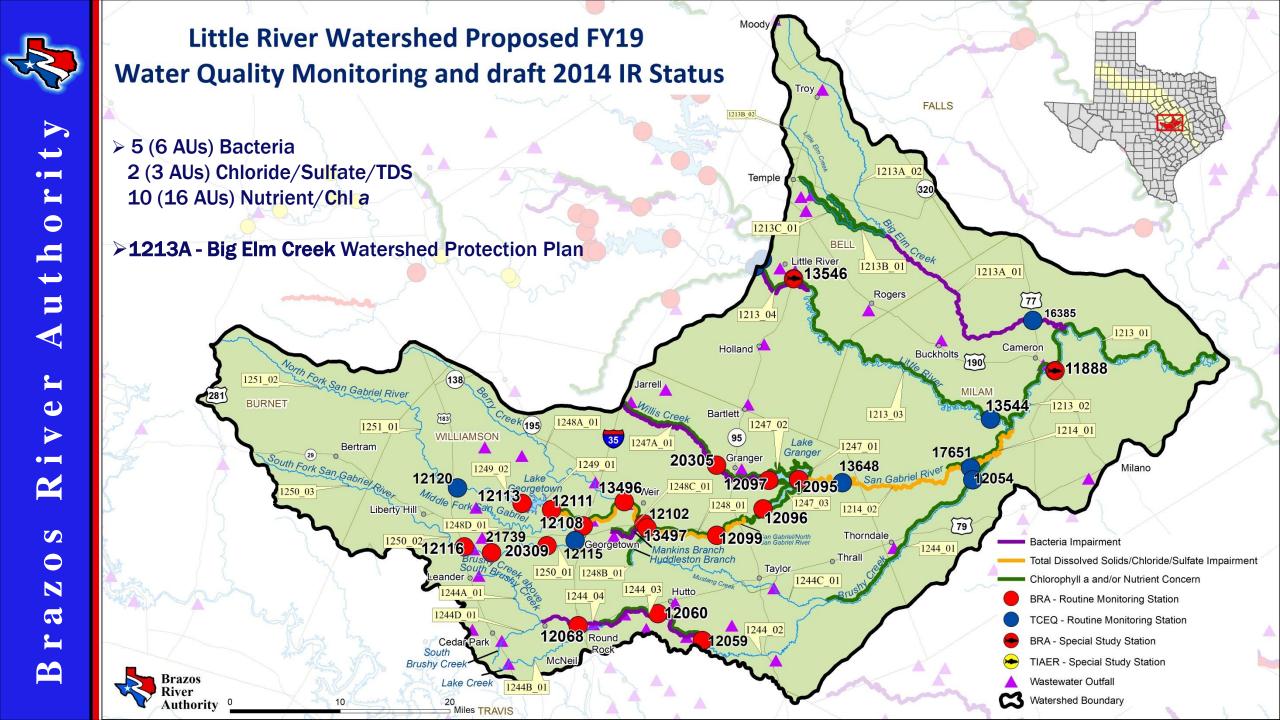








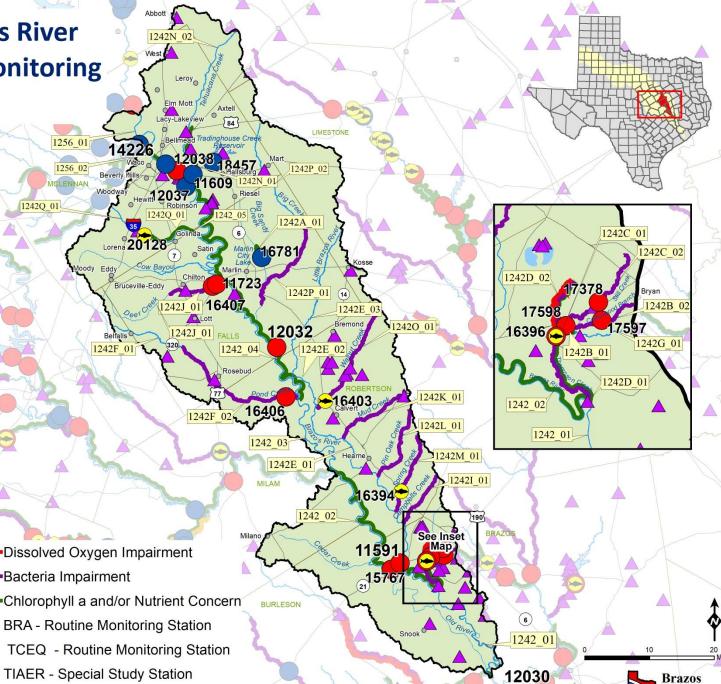






Central Watershed of the Brazos River Proposed FY19 Water Quality Monitoring and 2014 IR Status

- 11 (14 AUs) Bacteria **1 D0** 8 (12 AUs) Nutrient/Chl a
- 11 recommendations from completed RUAAs
- **Potential 2 waterbodies** removed from 303d list
- **TIAER** visual periphyton \succ assessment



Authority.

Wastewater Outfall

1242Q_01



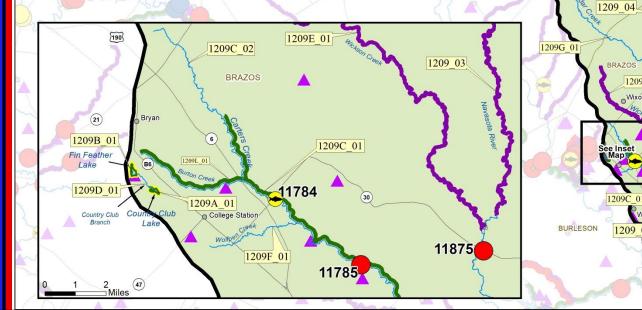
7 (9 AUs) Bacteria 1 (2 AUs) DO 9 (13 AUs) Nutrient/Chl a

- 7 recommendations from completed RUAAs
- **Potential 6 waterbodies** removed from 303d list

Carter's and Burton Creek TMDL Implementation

Navasota River WPP and TMDL

> TIAER visual periphyton assessment



Navasota River Watershed **Proposed FY19 Water Quality Monitoring** and 2014 IR Status

FREESTONE

1253 02

12125

1252 04

12124

12123

11877

1209E 01

Wixon Valley

Wellbor

1209 02

1252 03

1209 05

1209 05

1209P 01

MADISON

orth Zulch

1209 03

bons Creek

1209I 01

Reservoir

18800

1209J 01

1209N 01

1209N 04

1209I 02

1209 01

1209N 02

12090 01

Marquez

1210 02

1253A 01

16247

13970

1252 01

16389 🗢

OBERTSON 18341

209H 01

1209K 01

1209H

12126

1252 05

1210 01

17586

1253 03

LIMESTON

1253 01

1209K 02

Mount Calm

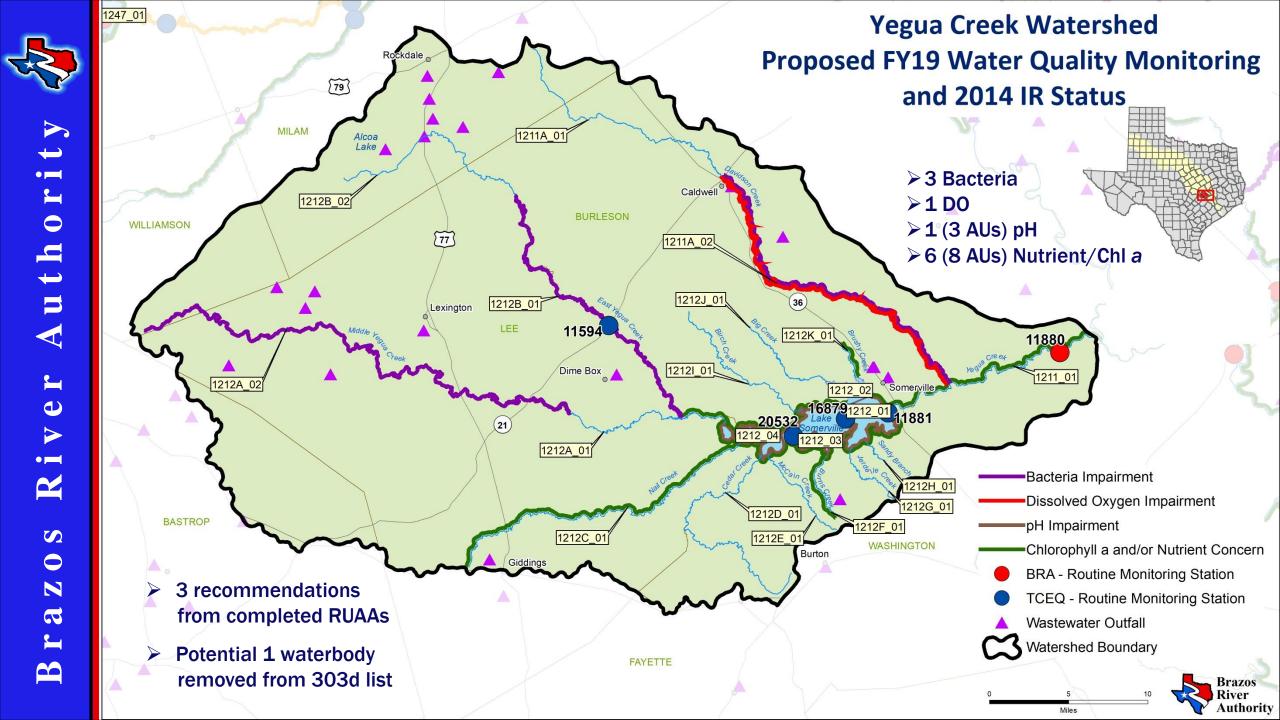
1210A 01

MCLENNAN

WMP Environmental Study station: 18341 Navasota **River at OSR NE of Bryan**

> **Bacteria** Impairment **Dissolved Oxygen Impairment** Toxicity in Sediment Impairment Chlorophyll a and/or Nutrient Concern **BRA - Routine Monitoring Station TCEQ - Routine Monitoring Station BRA - Special Study Station TIAER - Special Study Station** Wastewater Outfall Watershed Boundary







7 Bacteria 8 Nutrient/Chl a

Two WMP Environmental Study stations: 21620 -**Brazos River upstream of FM** 1462 W of Rosharon and 11847 – Brazos River at FM 723 N of Rosenberg

1202E 01

1202C 01

Little Sandy Cref

ndustry

1202K 01

1202E 02

1202D 0

11850

1202 05

1202 04

AUSTIN

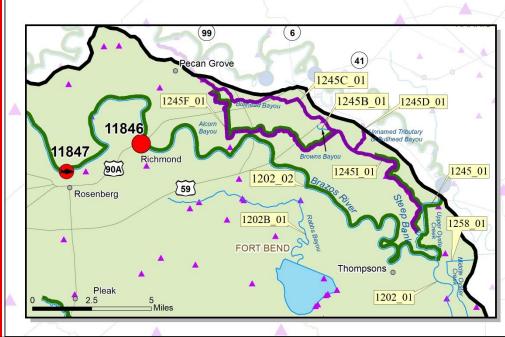
1202H 01

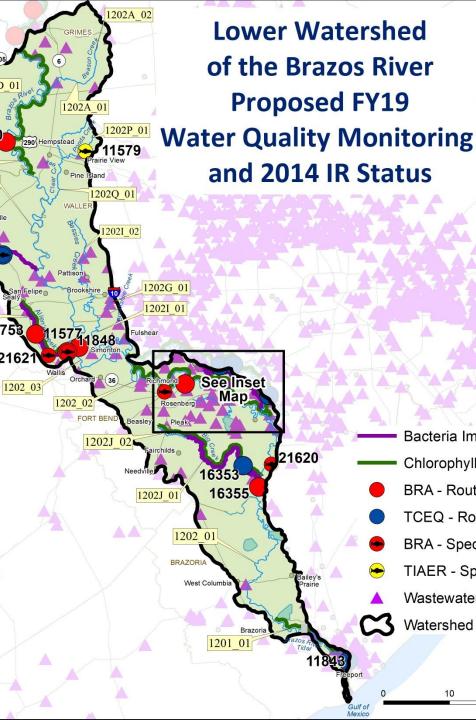
Bellville

21753

21621

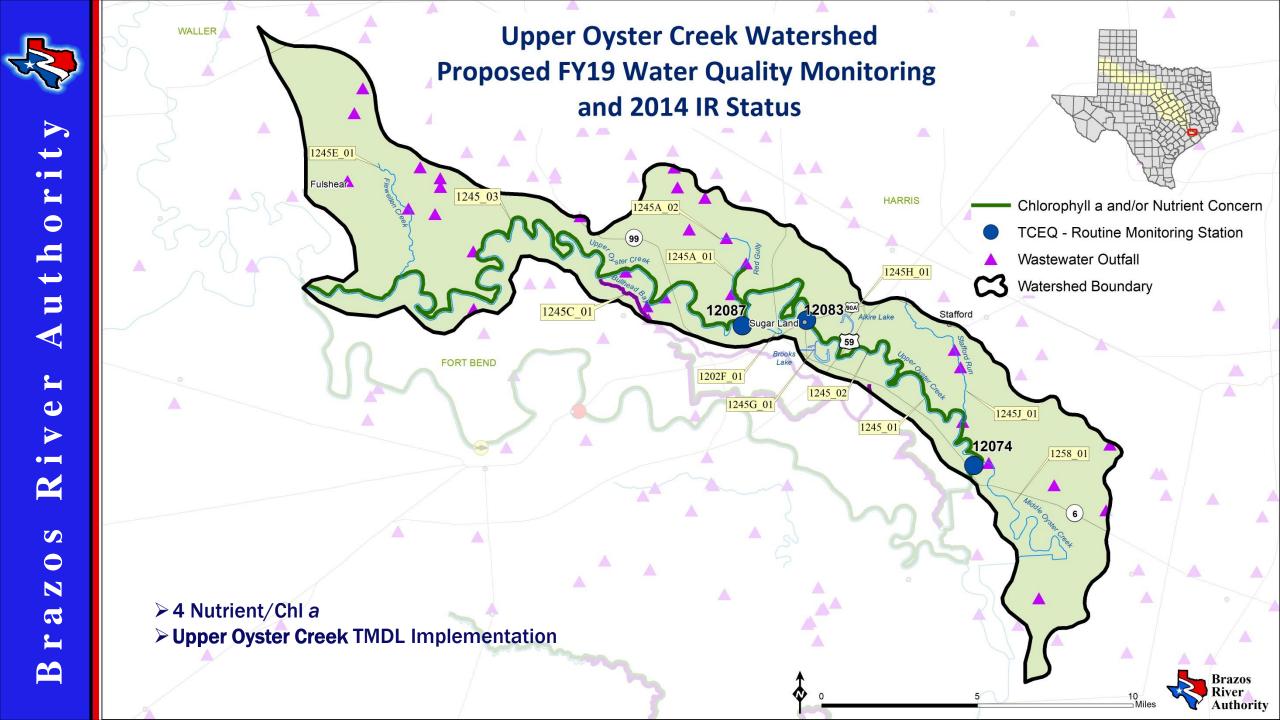
Biological assessment on two stations on Allen's Creek 21621 and 11577





Bacteria Impairment Chlorophyll a and/or Nutrient Concern **BRA - Routine Monitoring Station TCEQ - Routine Monitoring Station BRA - Special Study Station TIAER - Special Study Station** Wastewater Outfall Watershed Boundary ന്ദ







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