Brazos River Authority

Updated Water Bodies Not Meeting State Criteria and FY2016 Proposed Monitoring

Impairments - Basin Overview

In the Draft 2014 IR:

Out of a total of 205 segments evaluated…

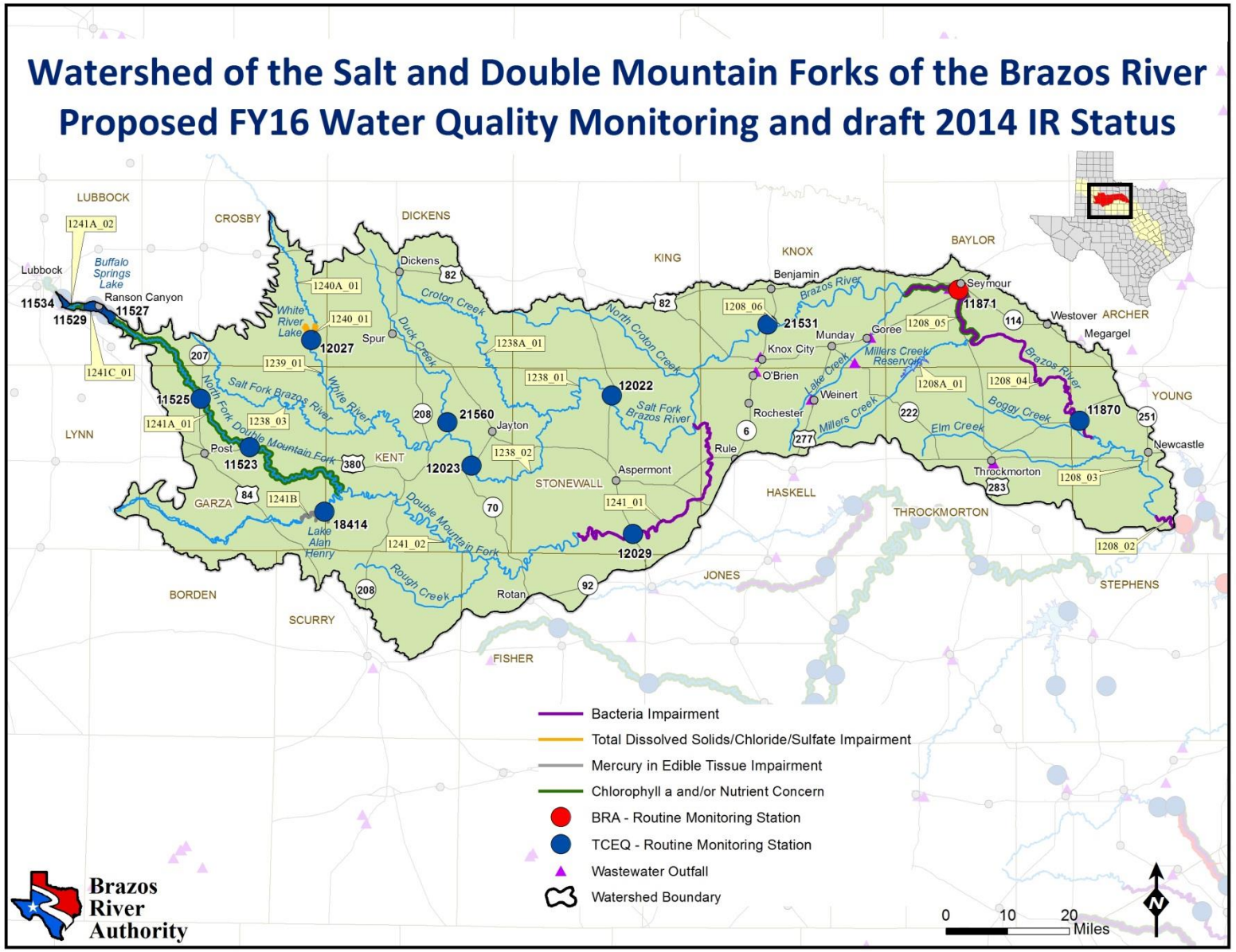
- 14 classified segments and 60 unclassified waterbodies are listed as impaired on the draft 2014 303(d) List (≈36%)
- 9 classified segments and 55 unclassified waterbodies are listed as impaired for elevated bacteria (≈ 31%)
- 2 classified segments and 6 unclassified waterbodies are listed for dissolved oxygen Impairment (≈ 4%)
- 4 classified segments are listed as impaired for chloride, sulfate and/or TDS (≈ 2%)
- 38 classified segments and 82 unclassified waterbodies are identified as having concerns based on screening levels for algal growth and/or elevated nutrients (≈ 59%)

Brazos River Authority

General Monitoring Strategy for FY2016

- Maintain current routine monitoring effort throughout the Basin.
  - In instances where stations are dropped, we will negotiate in the Coordinated Monitoring Meeting to pick up stations and maintain effort
- BRA will perform biological assessments on two stations on Allen's Creek
- BRA will continue instream flow based biological monitoring in support of the BRA's Water Management Plan Environmental Studies
- BRA will conduct two 24-hour DO studies and one aquatic life assessment

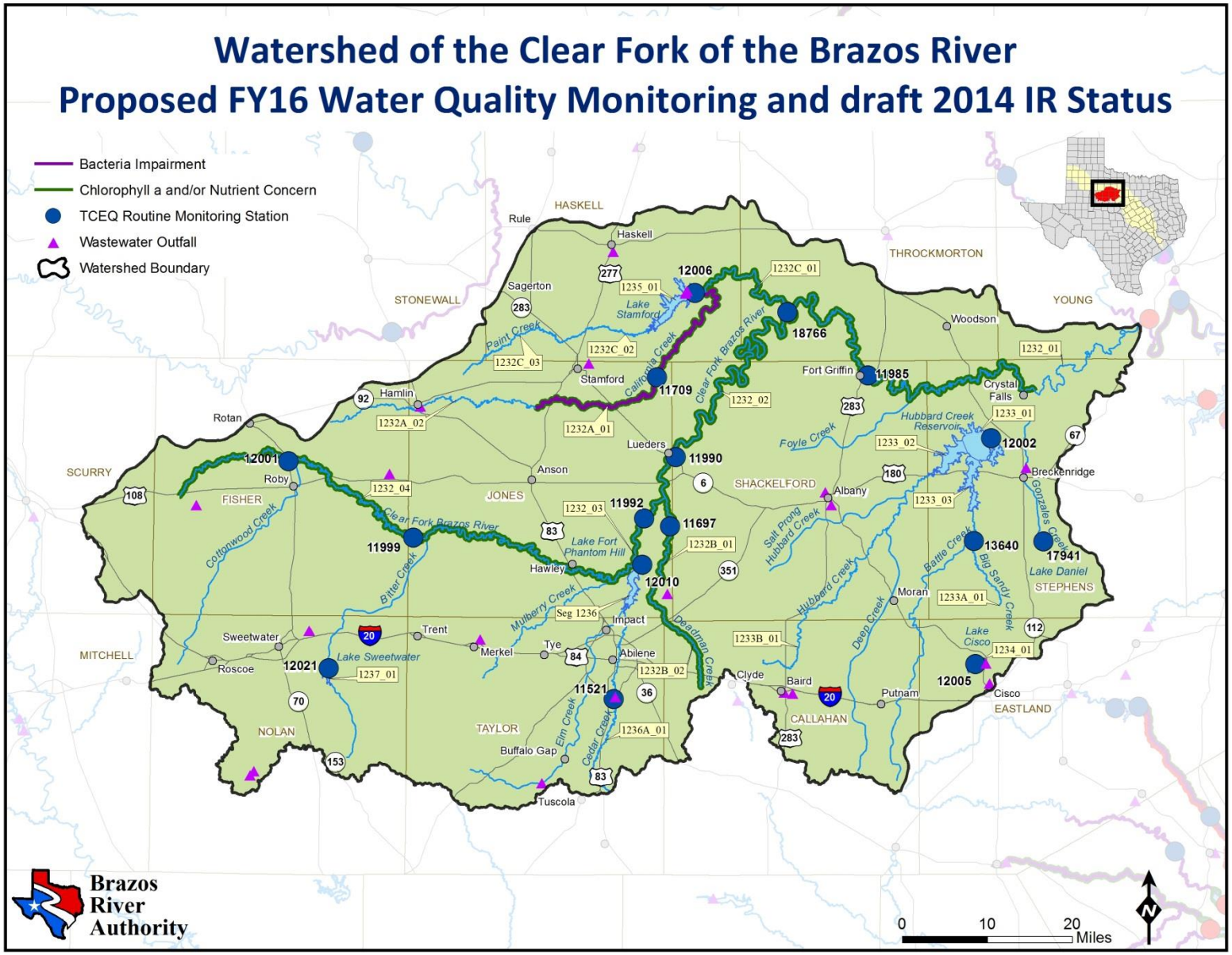
Brazos River Authority



➢2 Bacteria (1241A removed) – 1 TDS/Chloride/Sulfate – 1 Mercury – 3 Nutrient/Chl *a*

Brazos River Authority

Watershed of the Clear Fork of the Brazos River
Proposed FY16 Water Quality Monitoring and draft 2014 IR Status



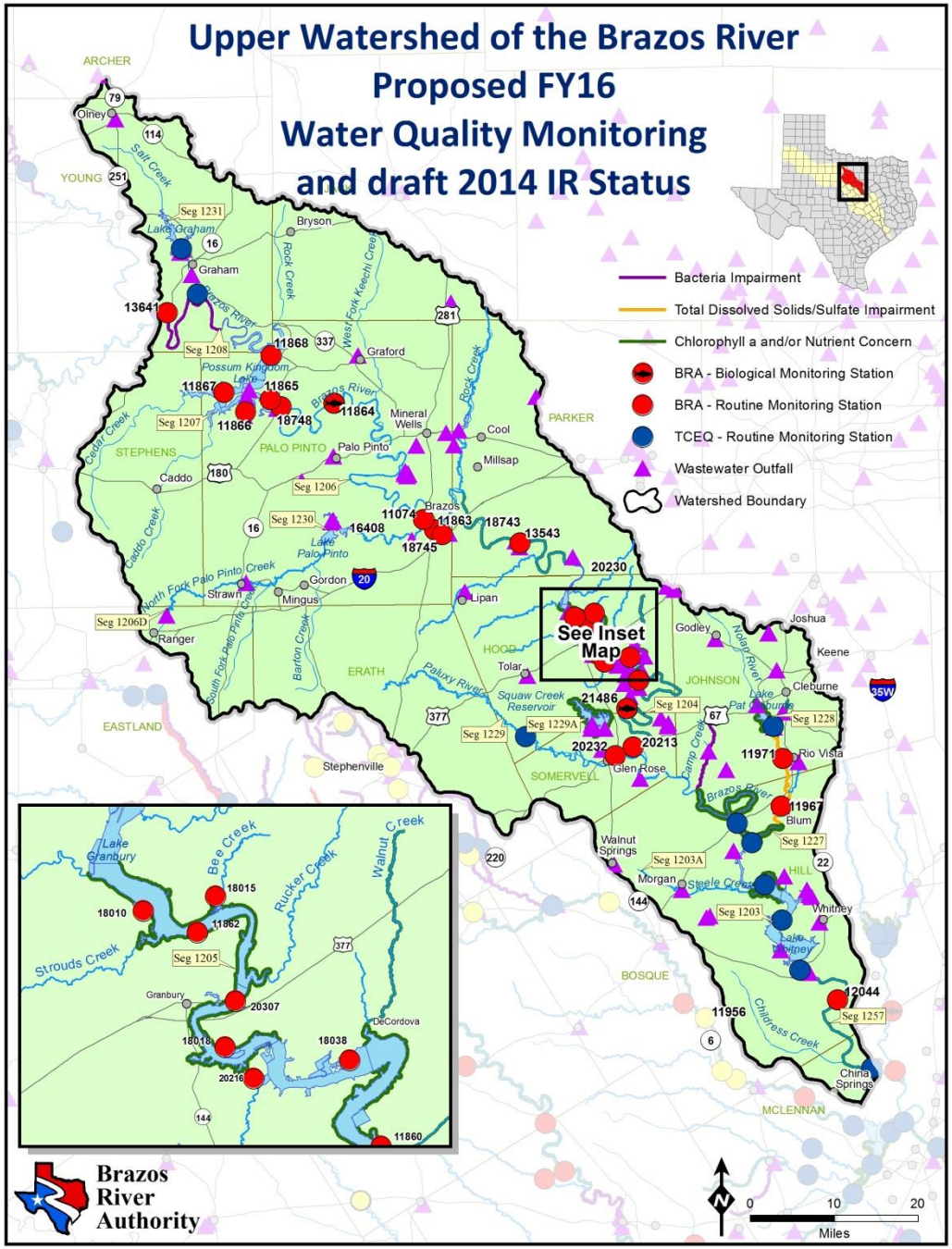
- 1 Bacteria (1232B removed) – 5 Nutrient/Chl *a*

Brazos River Authority

- 2 Bacteria
  1 TDS/Sulfate
  11 Nutrient/Chl *a*

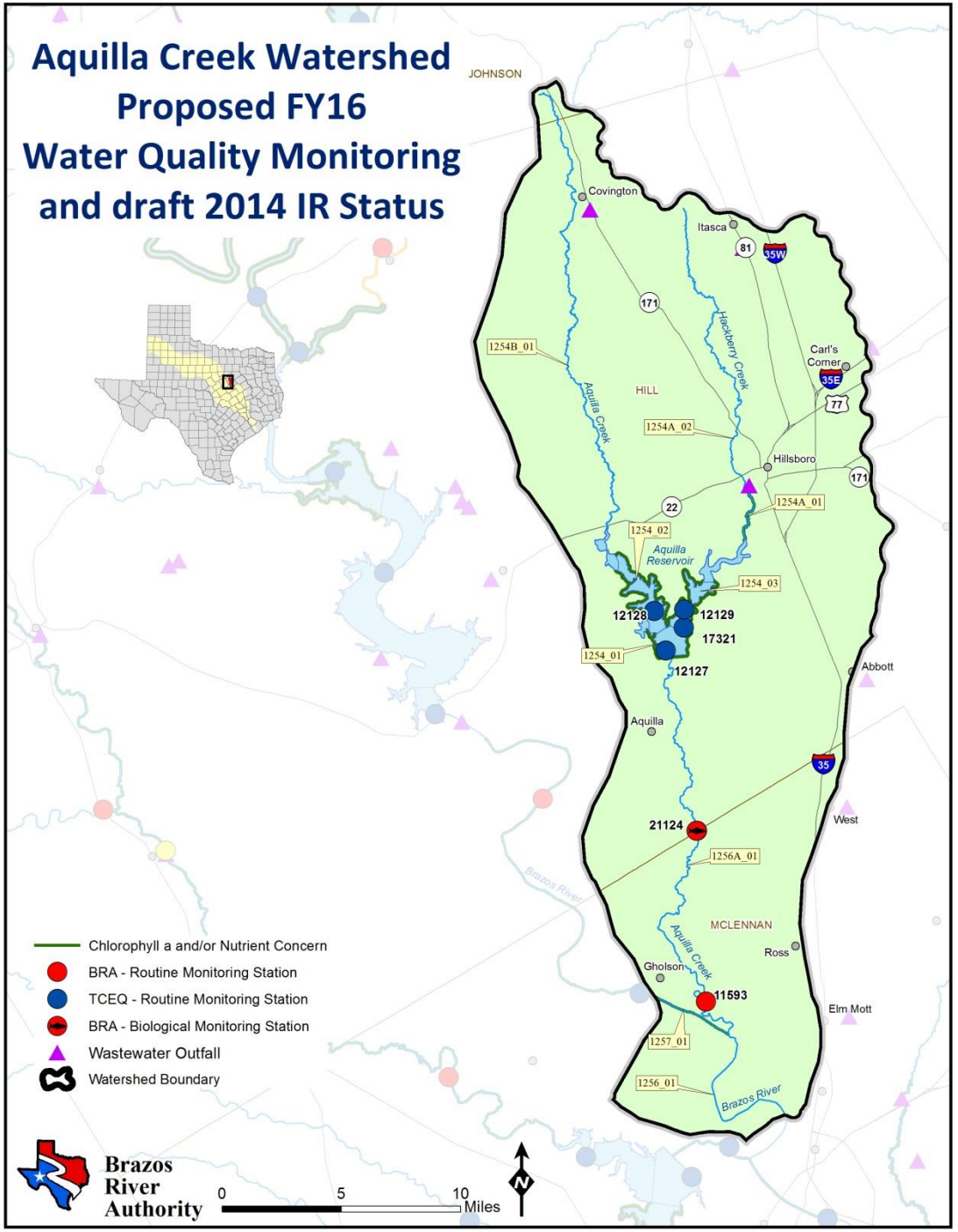
- **Lake Granbury Watershed** Protection Plan Implementation

- **Two WMP Environmental Study stations: 11864 Brazos at FM 4 near Palo Pinto and 21486 Brazos River 11.1 km upstream from US 67 NE of Glen Rose**

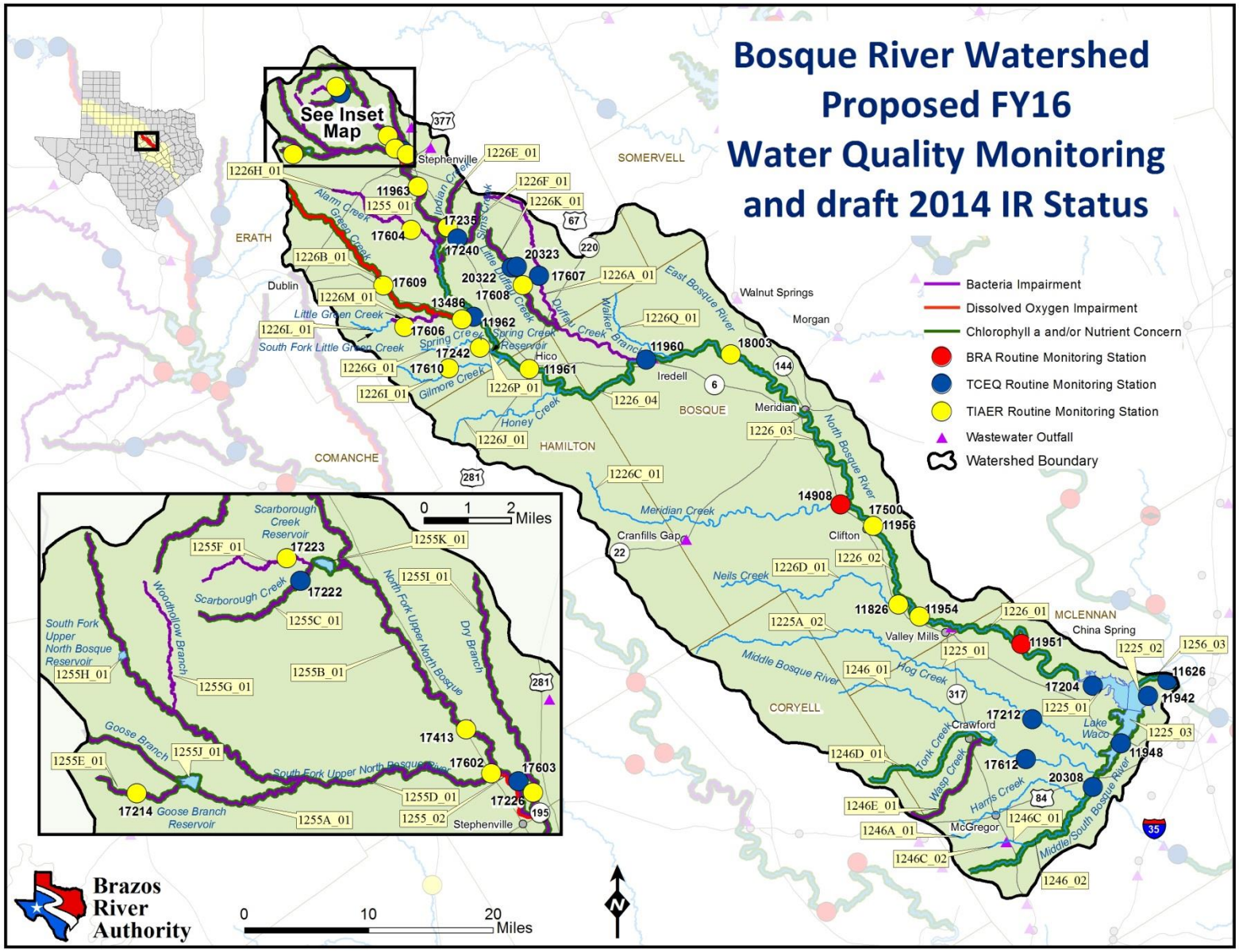


Brazos River Authority

- No impairments in this watershed
- 1 Nutrient/Chl *a*
- One WMP Environmental Study station: **21124 Aquilla Creek at FM 2114 near Aquilla**



Brazos River Authority



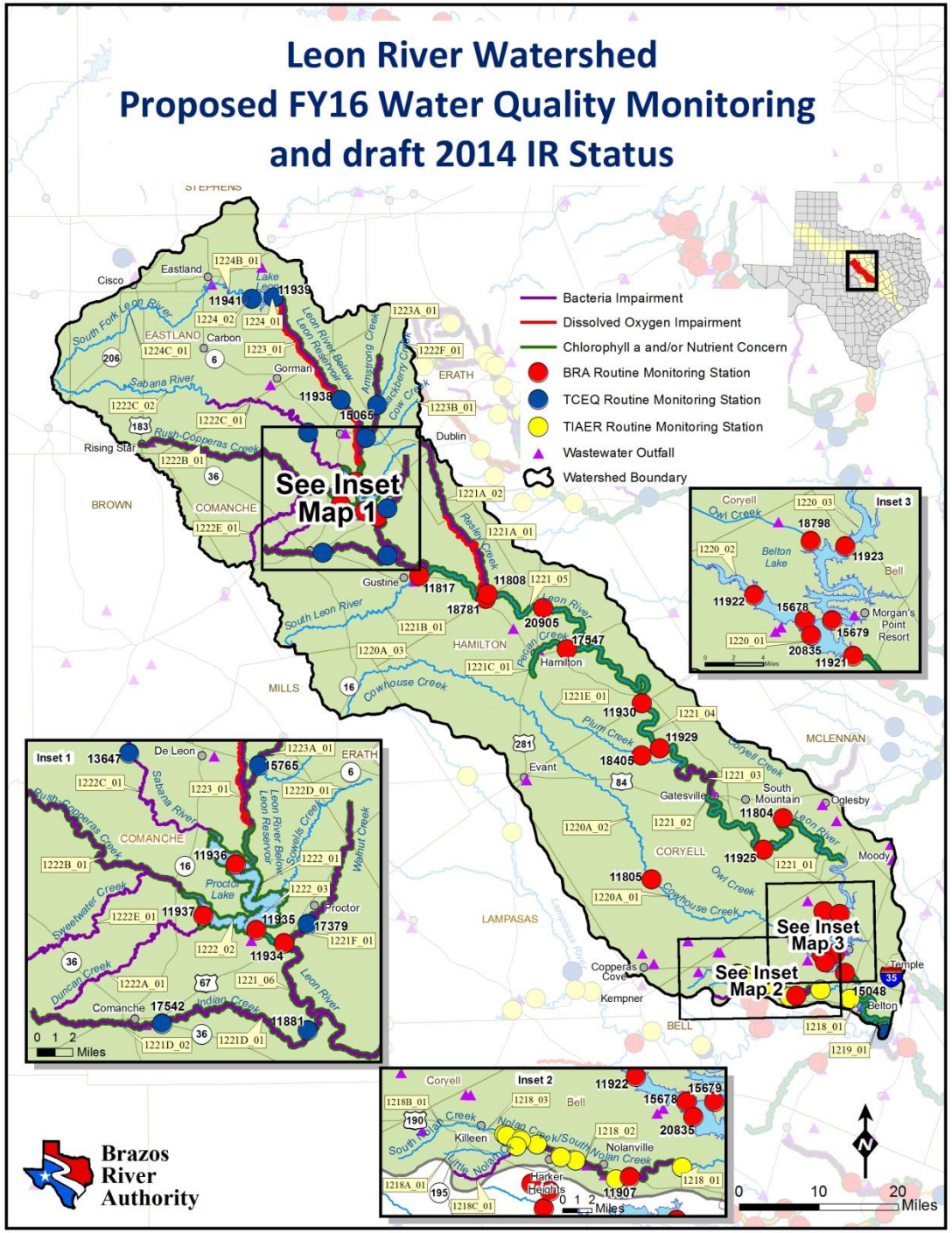
- 14 Bacteria – 2 DO – 21 Nutrient/Chl *a*

Brazos River Authority

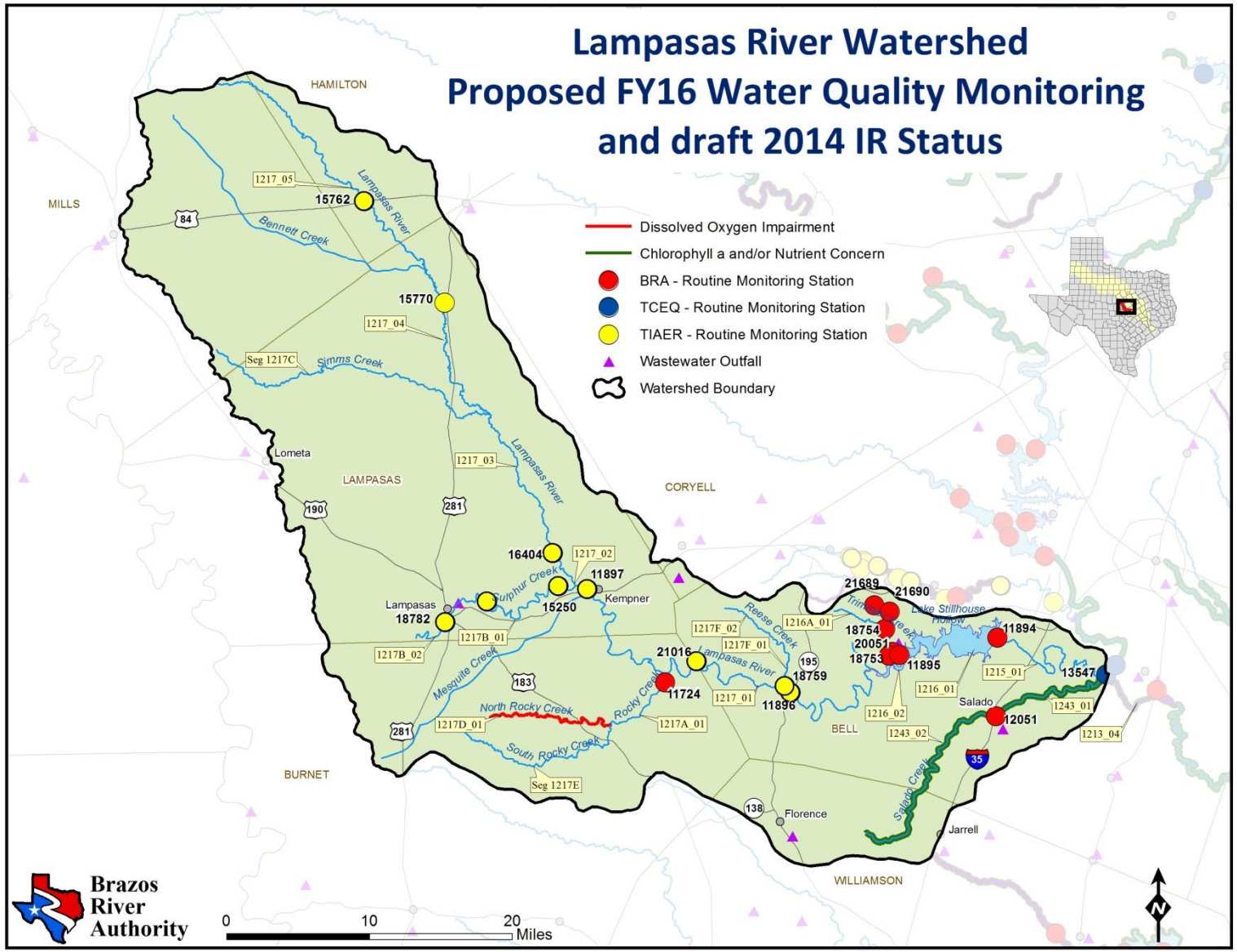
- 11 Bacteria
  2 DO
  12 Nutrient/Chl *a*

- **1221 - Leon River Watershed Protection Plan**

- **1218 – Nolan Creek/South Nolan Creek Watershed Assessment of Water Quality and Watershed Based Planning for Nolan Creek/South Nolan Creek**

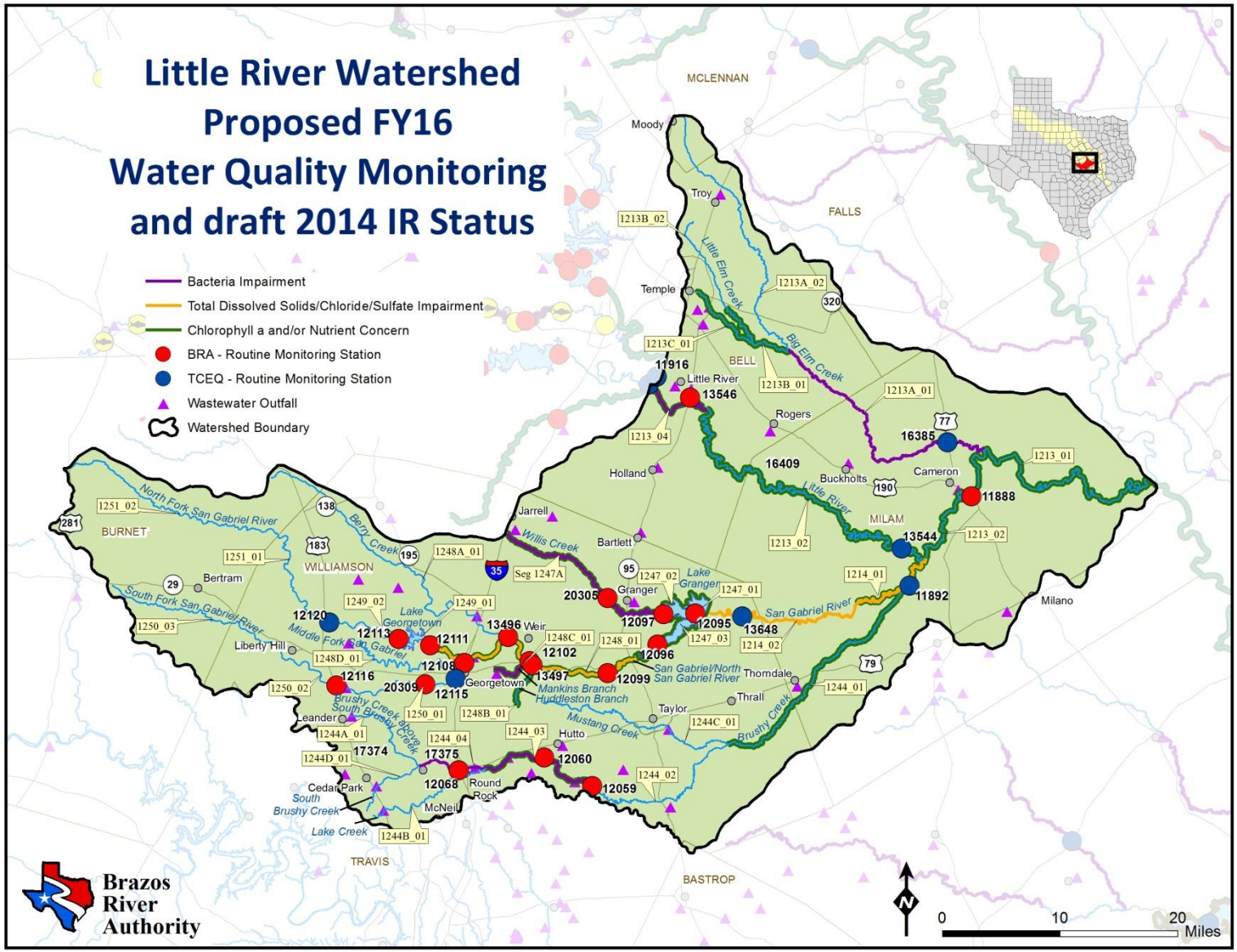


Brazos River Authority



- (1216A removed) – 1 DO (1217B removed) – 2 Nutrient/Chl *a (Clear Creek not shown)*
- **1217 - Lampasas River Watershed** Protection Plan

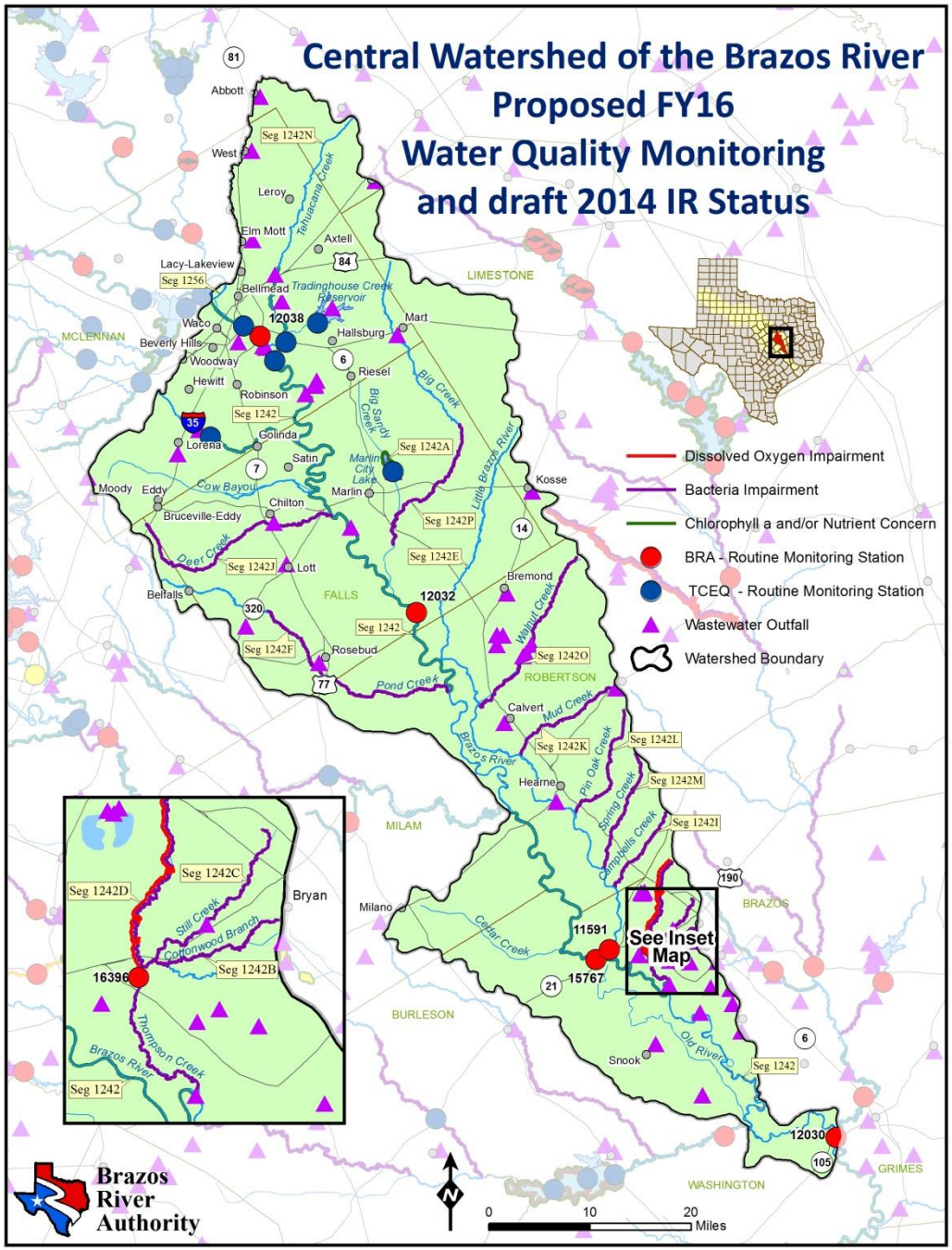
Brazos River Authority



- 5 Bacteria (1214 removed) – 1 Chloride/Sulfate – 10 Nutrient/Chl *a*

Brazos River Authority

- 11 Bacteria
  1 DO
  7 Nutrient/Chl *a*



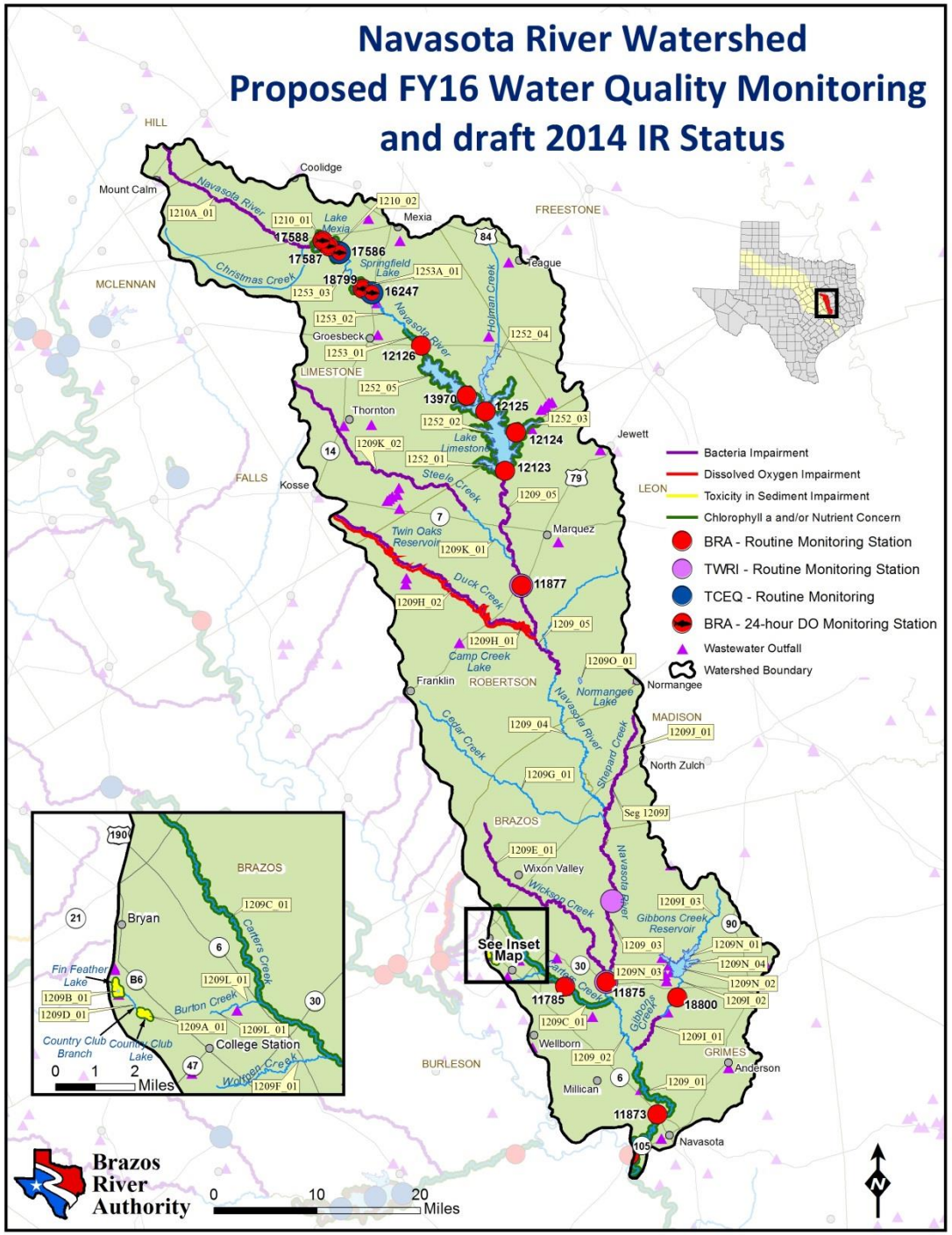
Brazos River Authority

- 7 Bacteria (1209C,D,G,L removed);
  1 DO
  9 Nutrient/Chl *a*

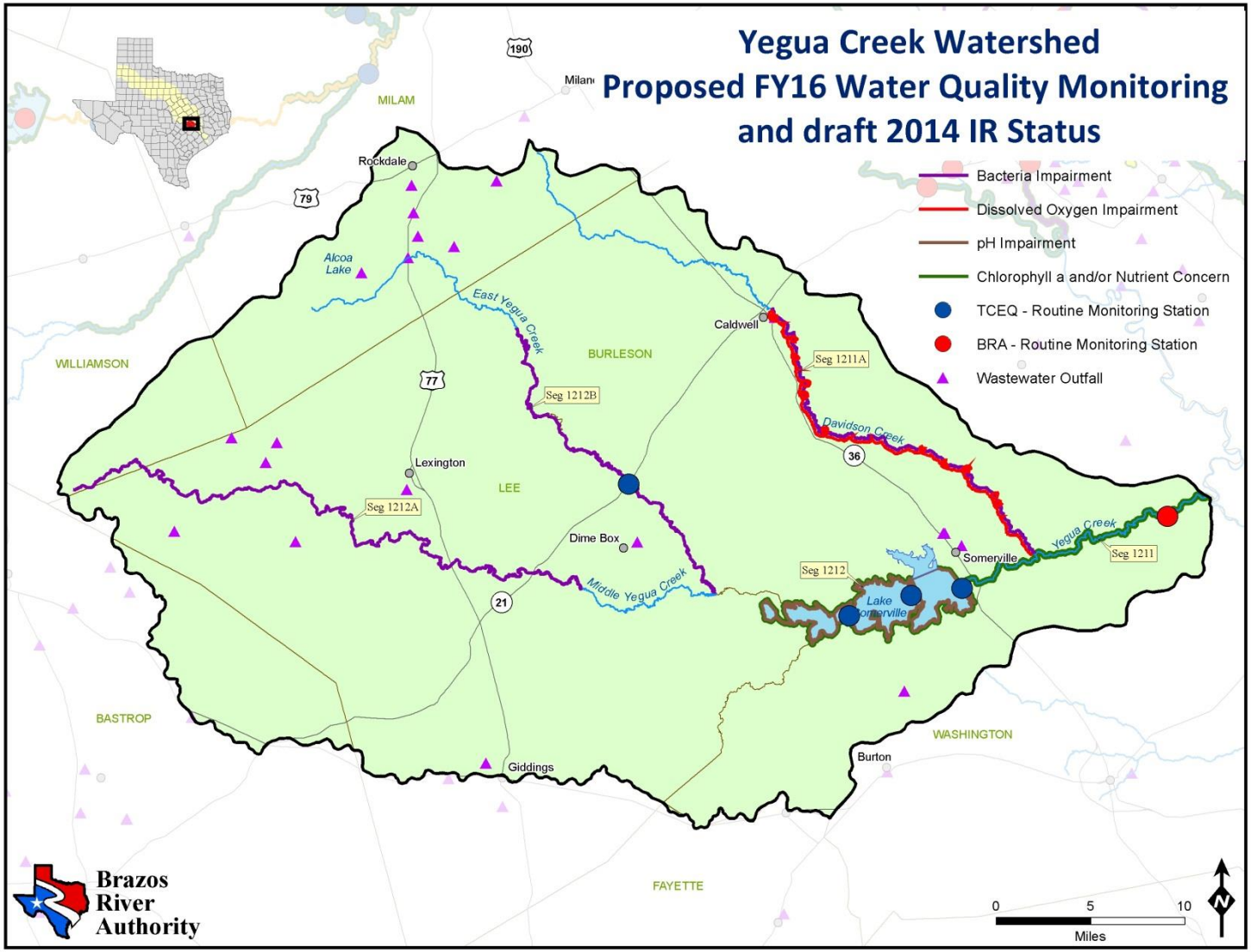
- Special project collecting 24-hour DO measurements in **Lake Mexia, Springfield Lake (Ft. Parker)** and **Duck Creek ALA**

- **Carter's Creek** and **Burton Creek** TMDL Implementation

- **Navasota River Watershed Project** - address contact recreation use impairments (September 2014, TWRI)
  - Navasota River below Lake Limestone
  - Navasota River above Lake Mexia
  - Wickson Creek
  - Cedar Creek
  - Duck Creek
  - Gibbons Creek
  - Shepherd Creek
  - Steele Creek



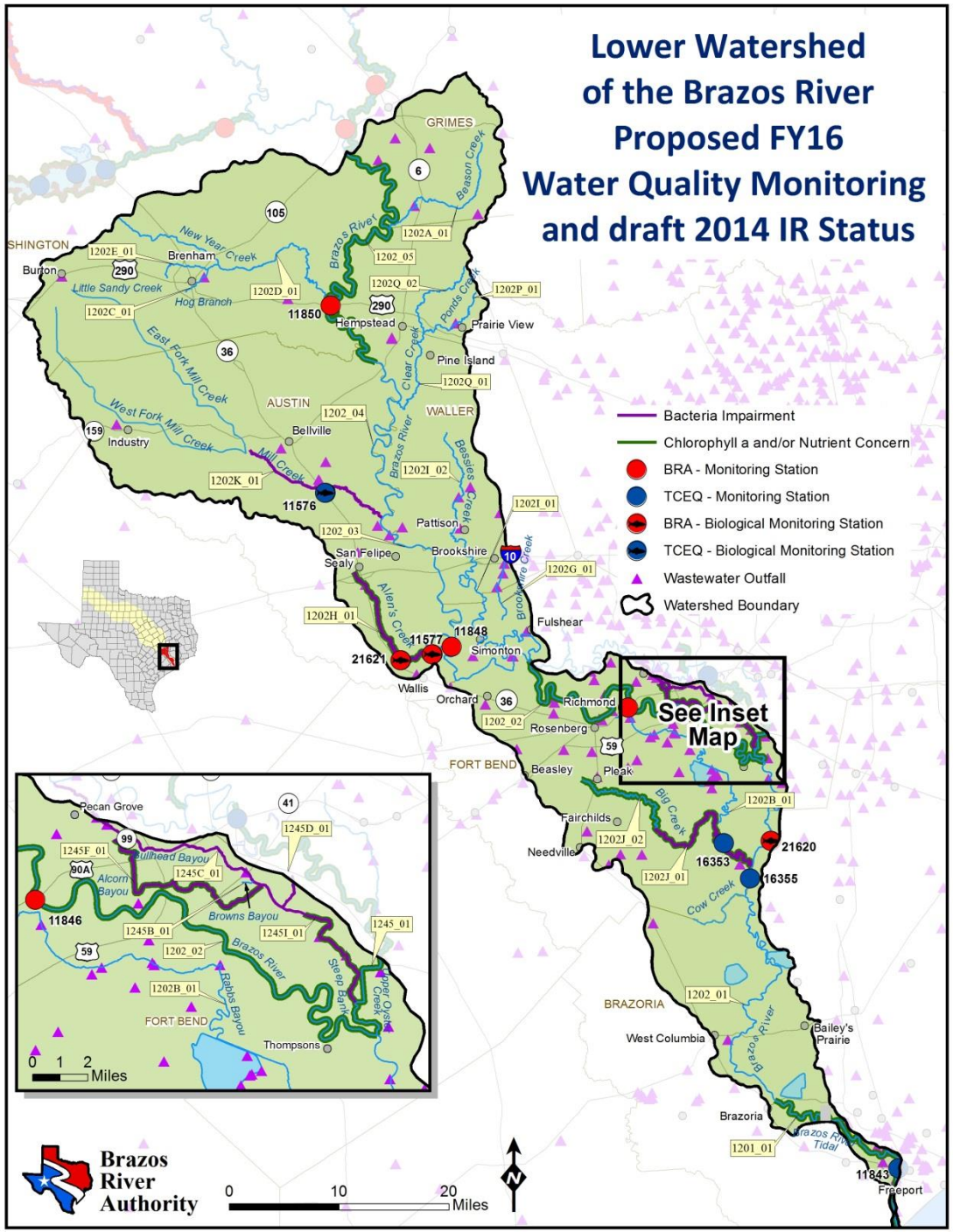
Brazos River Authority



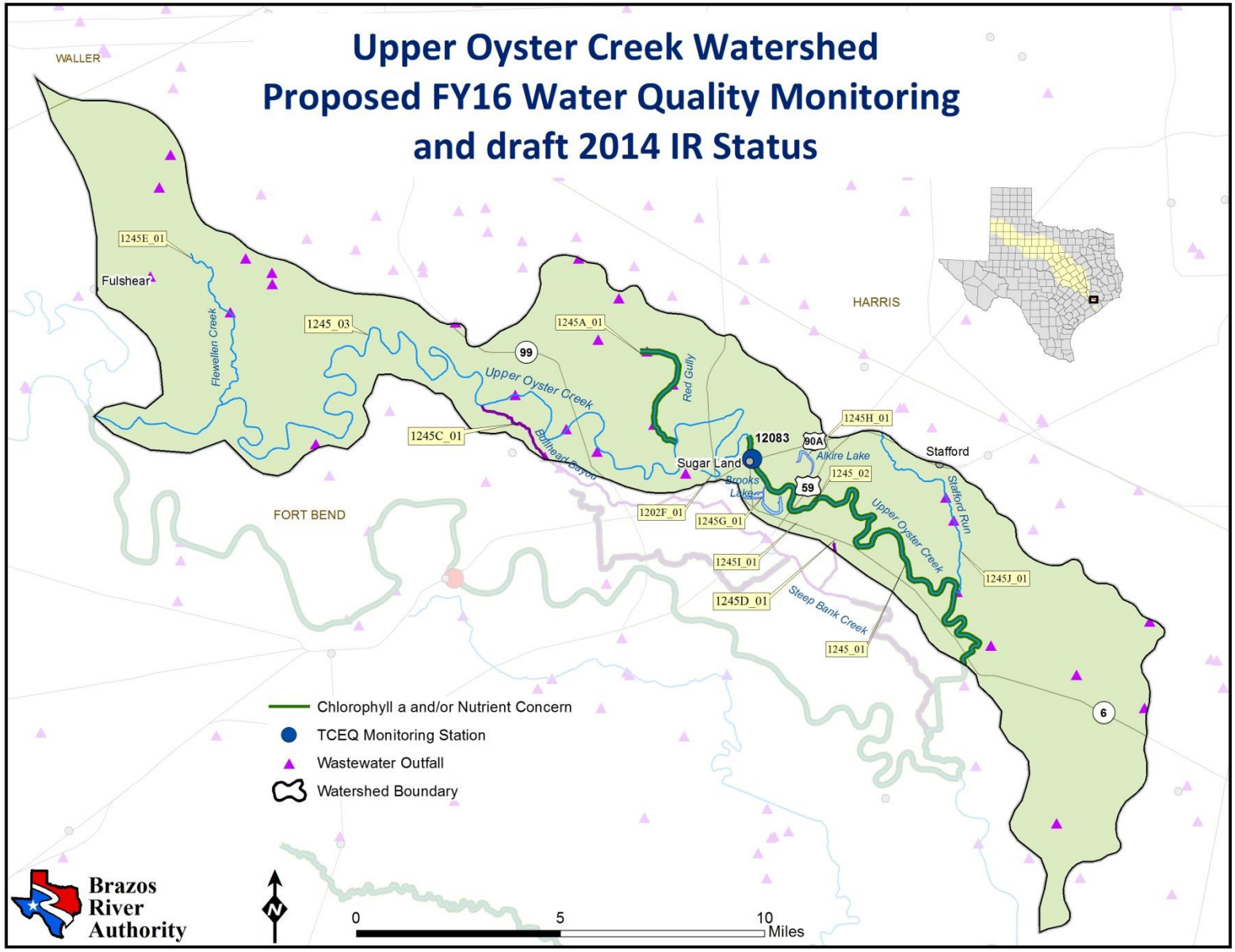
- 3 Bacteria – 1 DO – 1 pH – 6 Nutrient/Chl *a*

Brazos River Authority

- 7 Bacteria
  6 Nutrient/Chl *a*
- One WMP Environmental Study stations: **21620 - Brazos River upstream of FM 1462 W of Rosharon**
- Biological assessment on two stations on **Allen's Creek 21621 and 11577**



Brazos River Authority



- 2 Nutrient/Chl *a*
- **Upper Oyster Creek TMDL Implementation**

Brazos River Authority

Brazos
River
Authority