



Brazos River Authority

Water Bodies Not Meeting State Criteria *and* FY2013 Proposed Monitoring



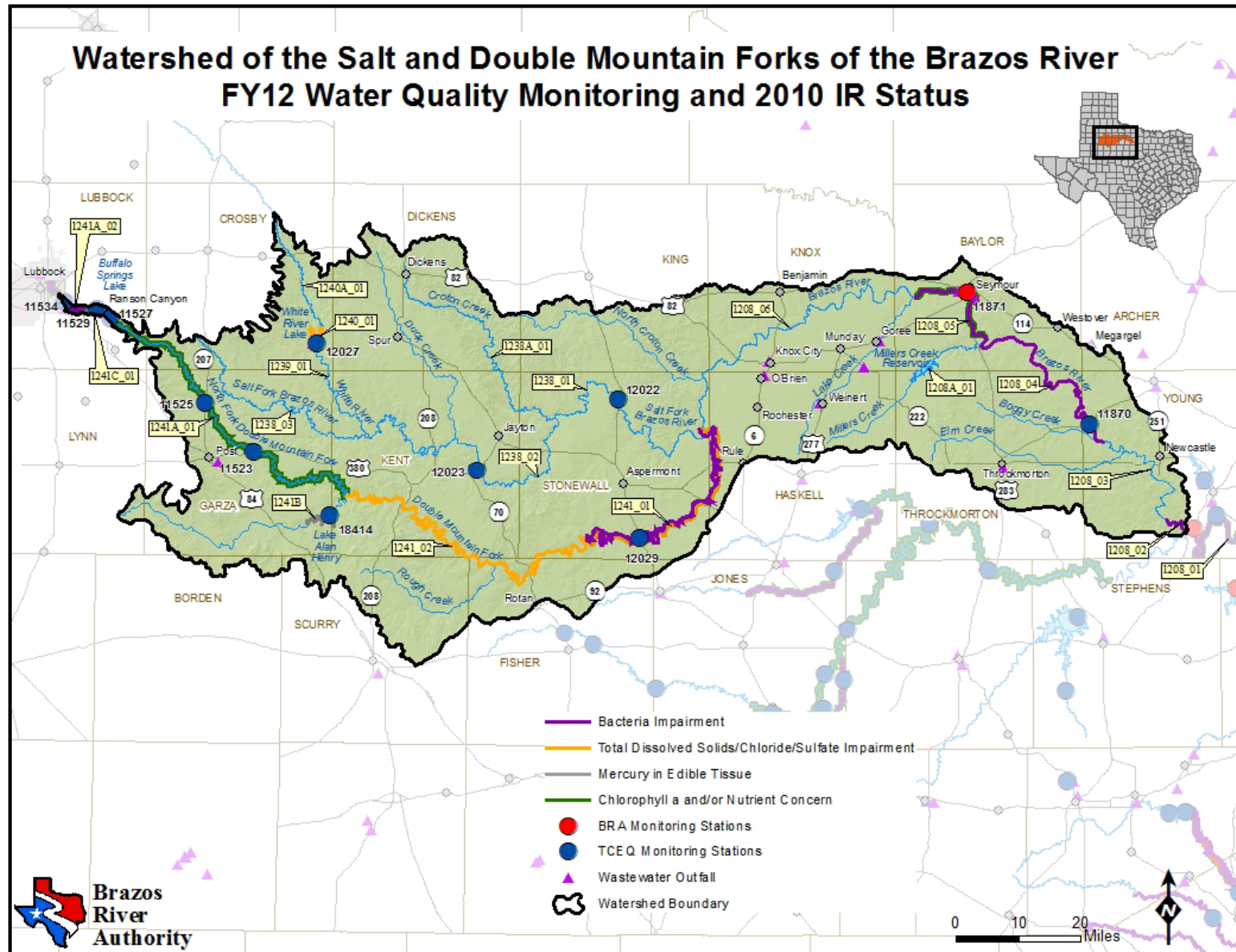
Impairments - Basin Overview

- Out of a total of 190 segments evaluated...
- 17 classified segments and 68 unclassified waterbodies are listed as impaired on the 2010 303(d) List ($\approx 45\%$)
- 12 classified segments and 62 unclassified waterbodies are listed as impaired for elevated bacteria ($\approx 39\%$)
- 4 classified segments and 6 unclassified waterbodies are listed for dissolved oxygen Impairment ($\approx .04\%$)
- 5 classified segments are listed as impaired for chloride, sulfate and/or TDS ($\approx .03\%$)
- 31 classified segments and 56 unclassified waterbodies are identified as having concerns based on screening levels for algal growth and/or elevated nutrients ($\approx .46\%$)

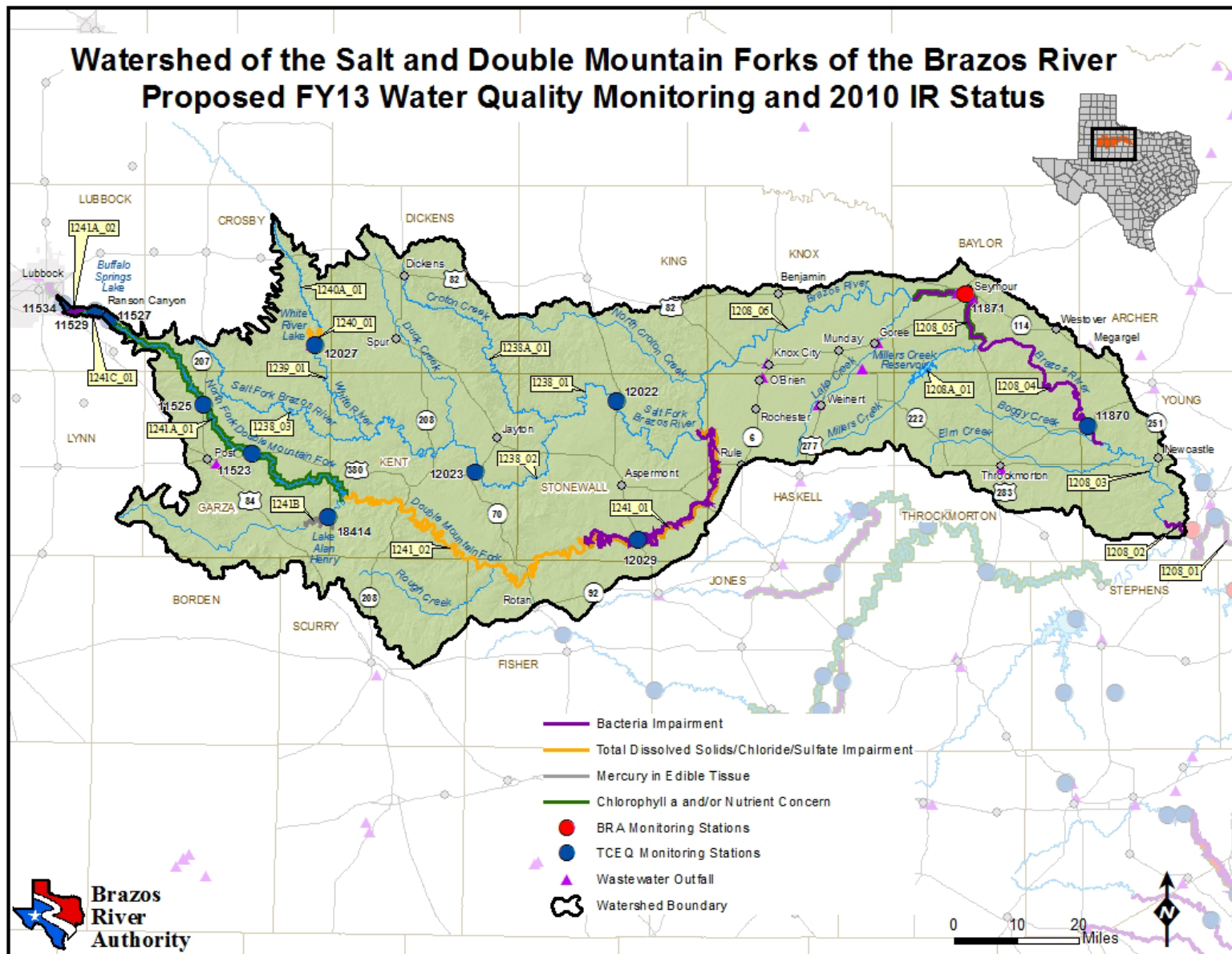


General Monitoring Goals

- **Maintain a large monitoring effort throughout the Basin**
- **In FY2012, BRA monitored 129 routine stations excluding any special studies. In FY2012, BRA proposes to monitor 114 routine stations.**
- **Reduce monitoring at some unclassified streams where conditions have not changed much over time**
- **Increase our biological monitoring effort in support of the Texas Instream Flow Program and to collect additional 24-hr DO data on the Brazos mainstem**
- **Focus on collecting low-level nutrient data at select stations**
- **Discontinue quarterly sampling for metals, VOCs and SVOCs**



- **3 Bacteria – 2 TDS/Chloride/Sulfate – 1 Mercury – 3 Nutrient/Chl a**
- **An RUAA has been completed and released for public comment for 1208 - Brazos River above Possum Kingdom Lake**



➤ No monitoring changes in FY2013

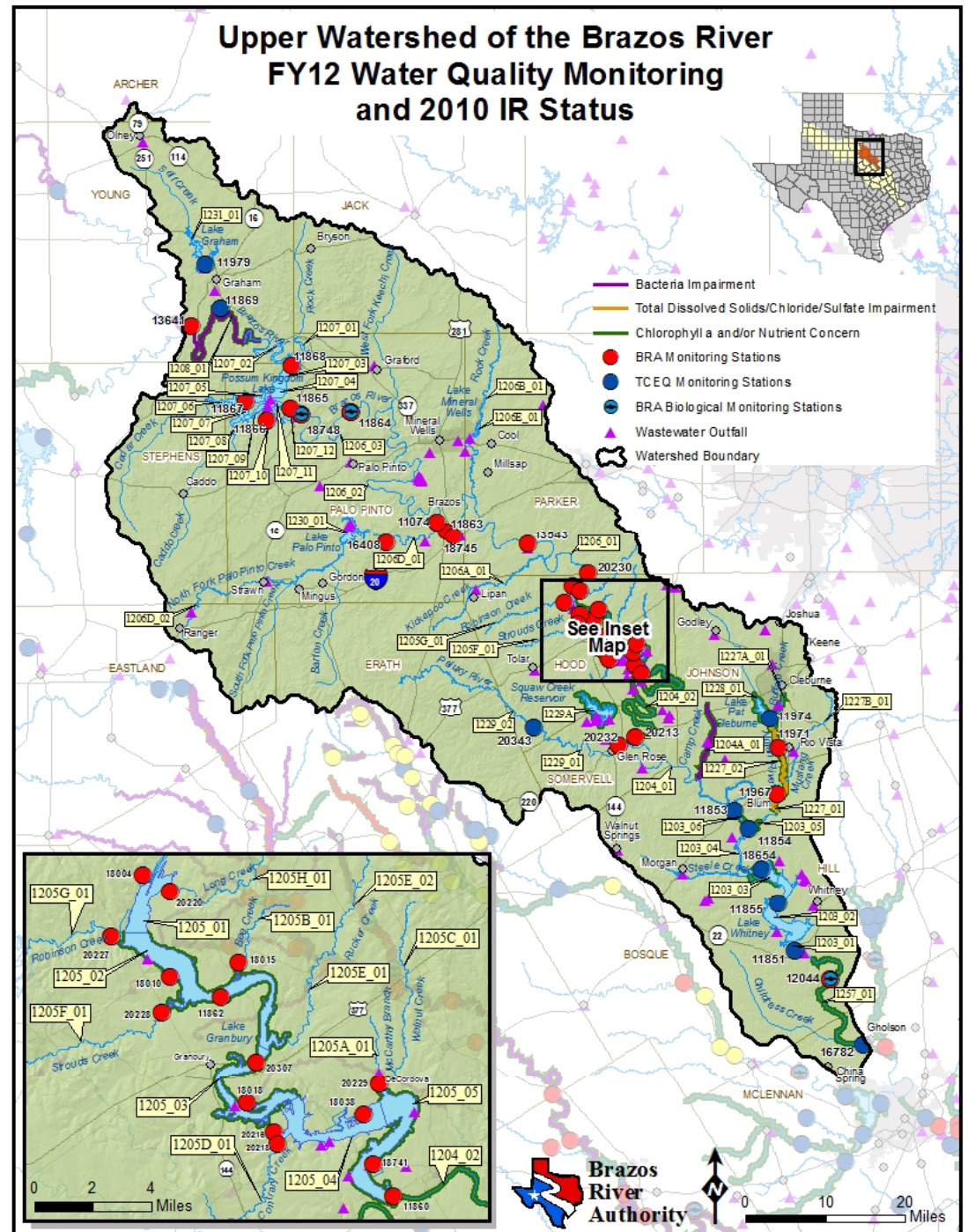






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- 2 Bacteria -
- 1 TDS/Chloride/Sulfate -
- 11 Nutrient/Chl a
- An RUAA has been completed and released for public comment for 1208 - Brazos River above Possum Kingdom Lake
- Lake Granbury Watershed Protection Plan





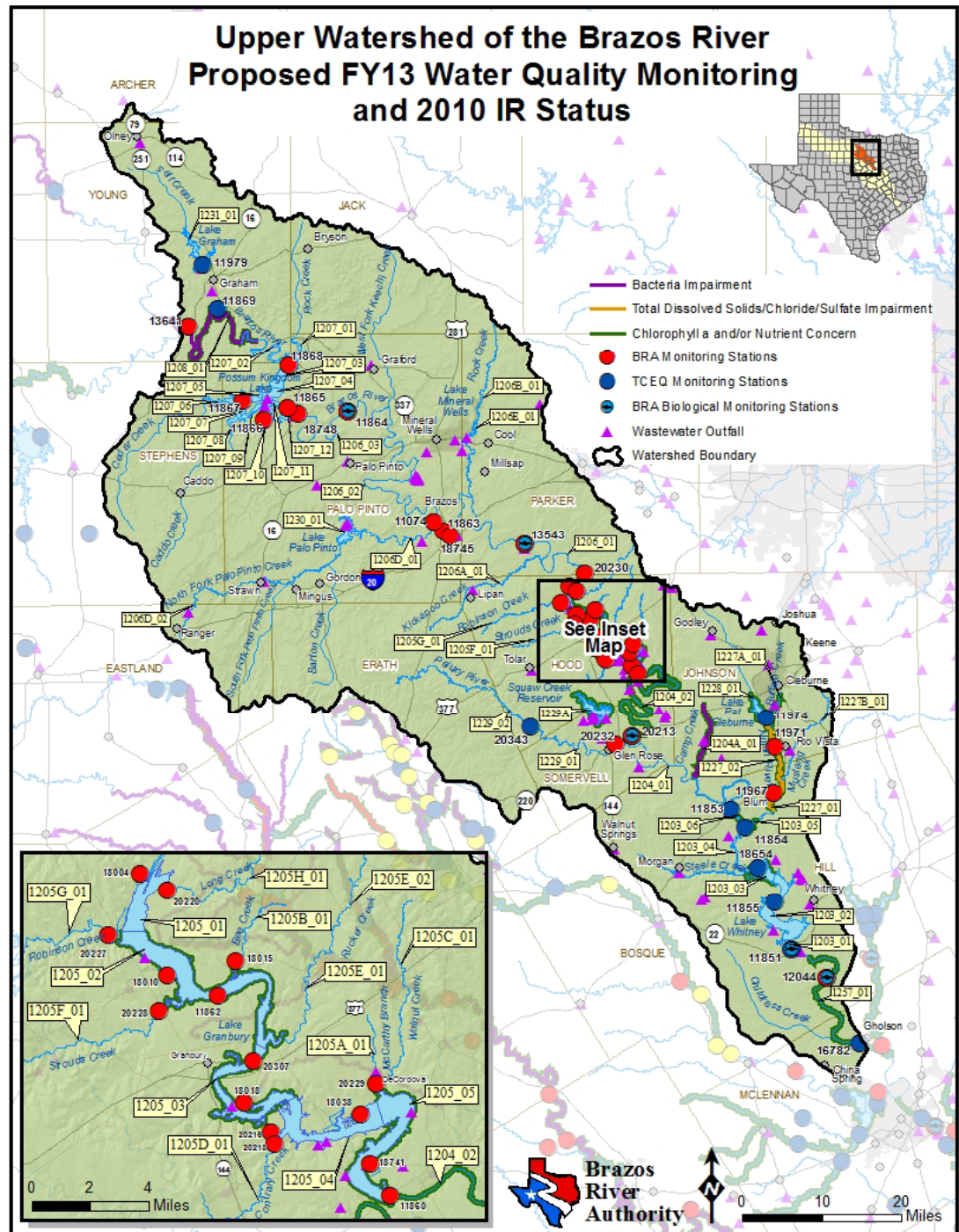
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➤ Discontinue

- Palo Pinto Creek near FM 4

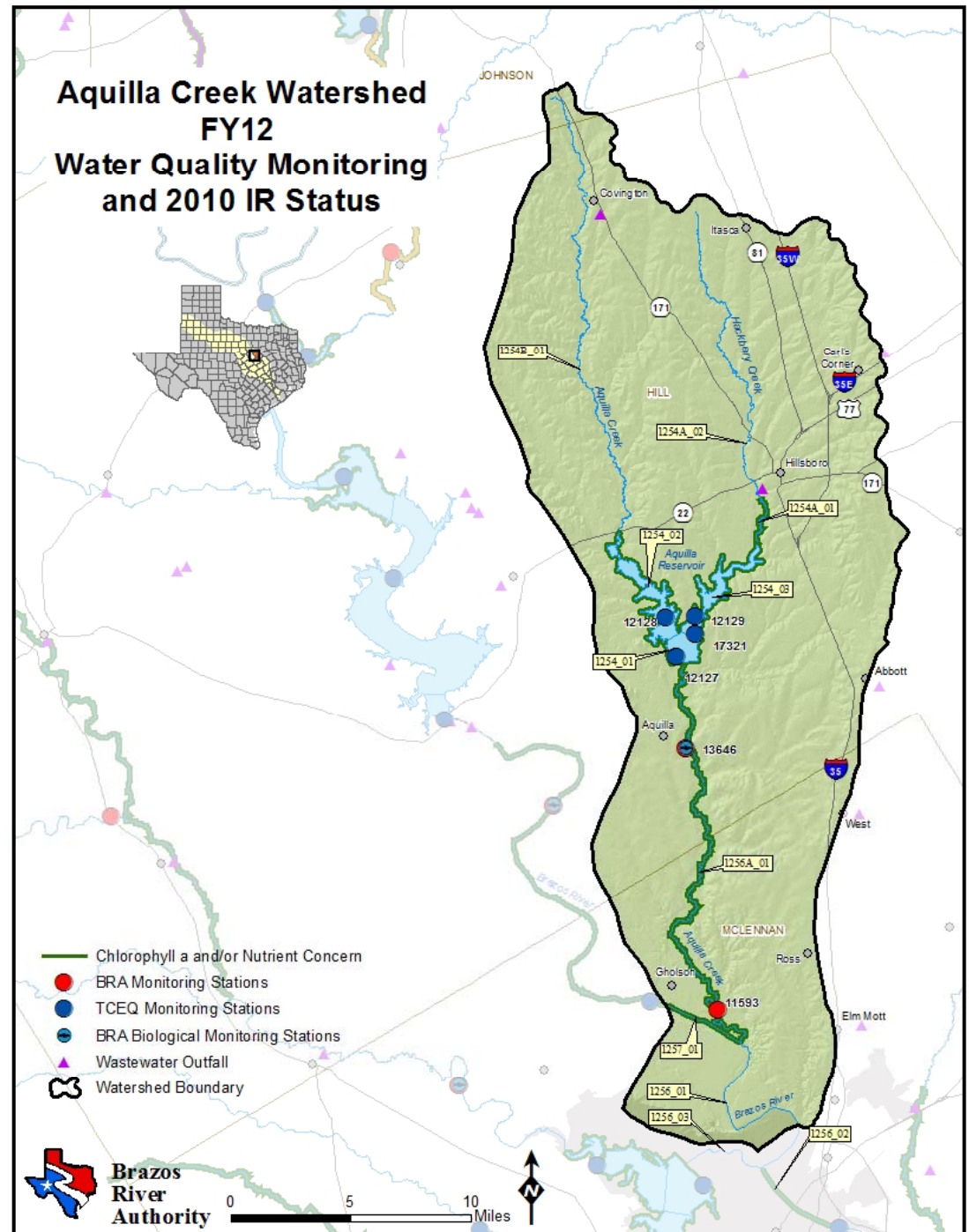
➤ Add

- Biological monitoring in support of TIFP at Brazos River near Palo Pinto, near Dennis, near Glen Rose, and near Laguna Park
- TCEQ will collect 24-hr DO data at Lake Whitney



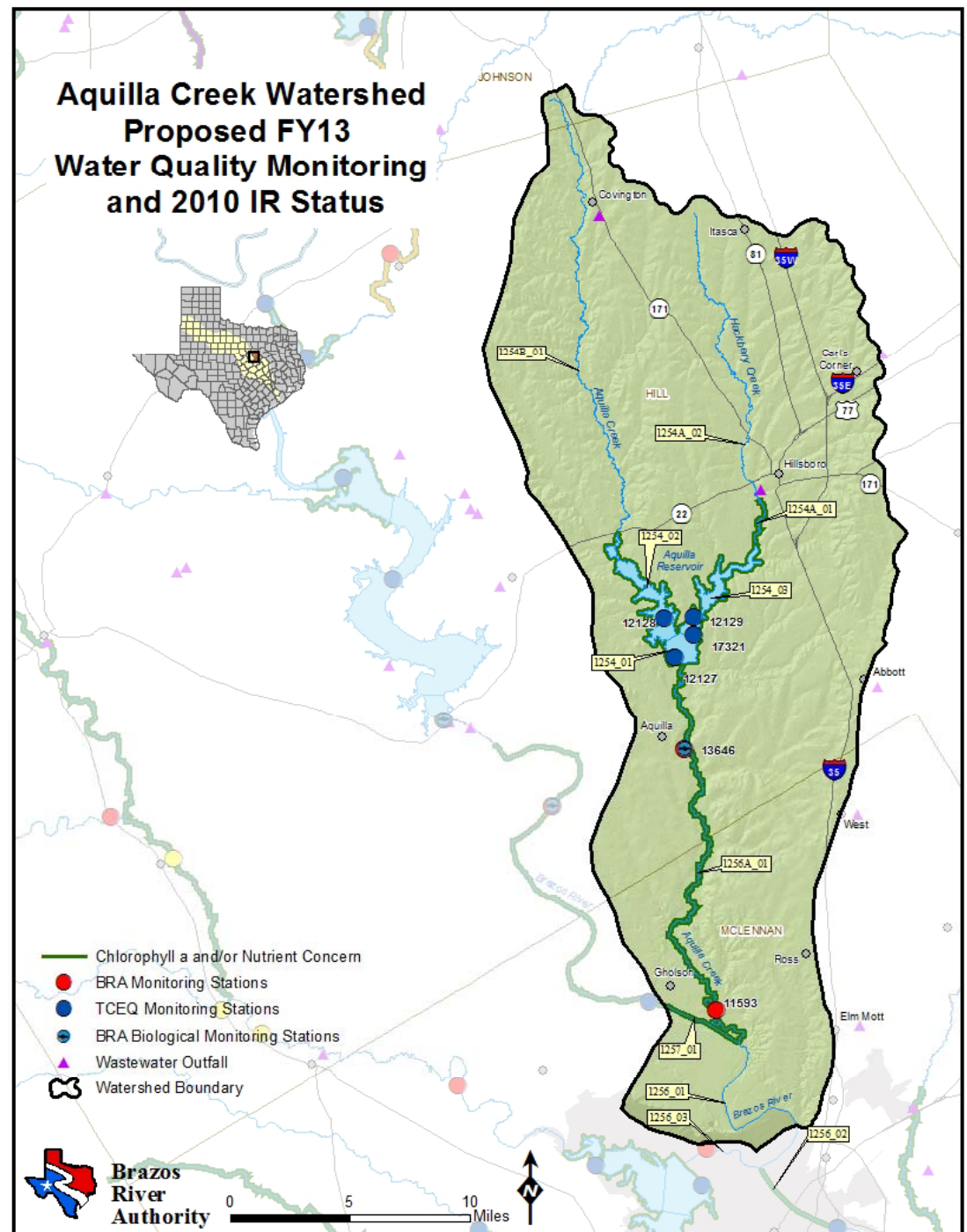


- No impairments in this watershed
- 3 Nutrient/Chl a





- No monitoring changes in FY2013
- Will complete biological monitoring in support of TIFP on Aquilla Creek in FY2012 and FY2013



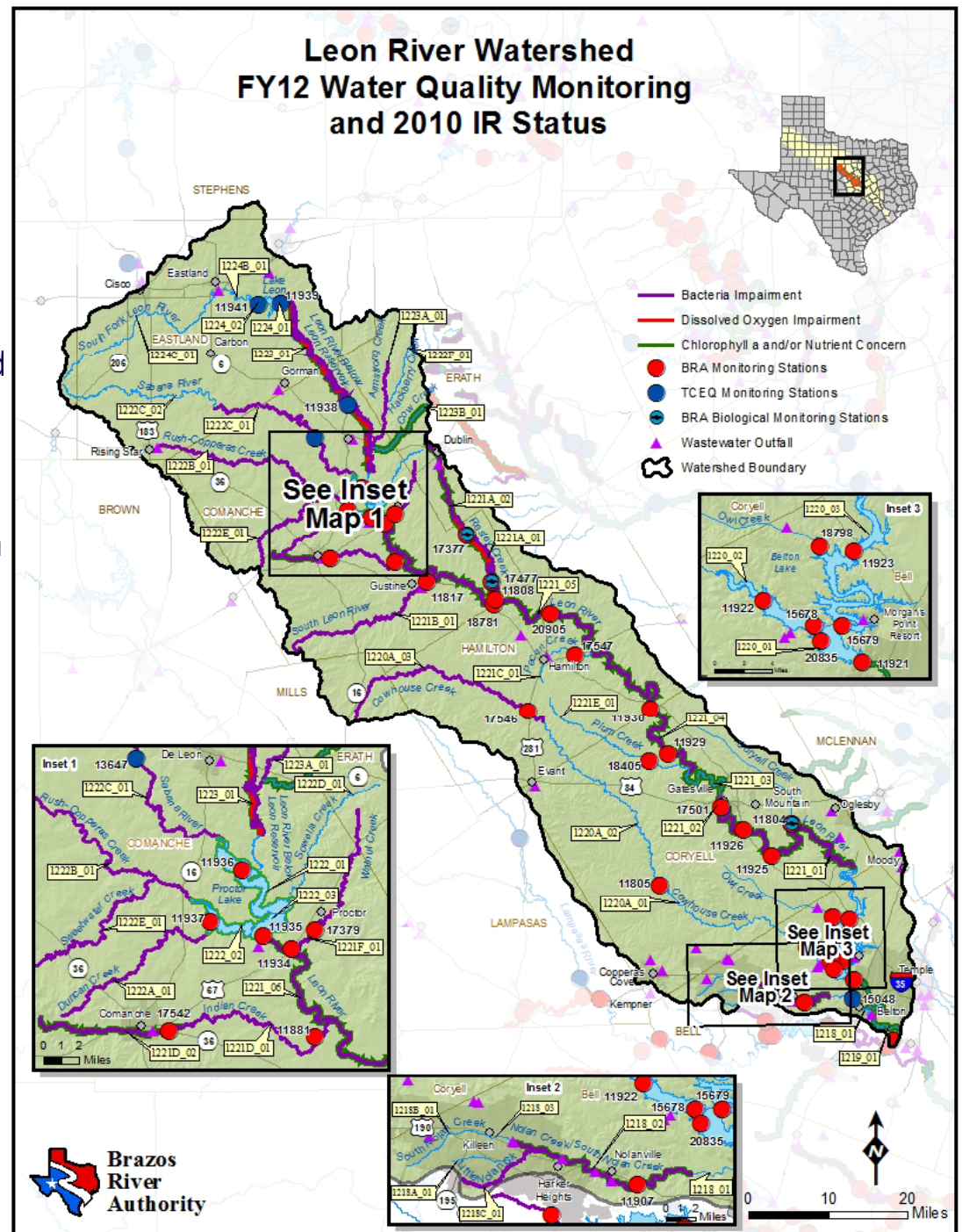


- **13 Bacteria – 2 DO – 21 Nutrient/Chl a**
- **RUAAs have been completed and are in review by the Standards Team for 10 streams**





- 12 Bacteria – 2 DO – 8 Nutrient/Chl a
- RUAAs have been completed and are in review by the Standards Team for 15 streams
- Leon River Watershed Protection Plan

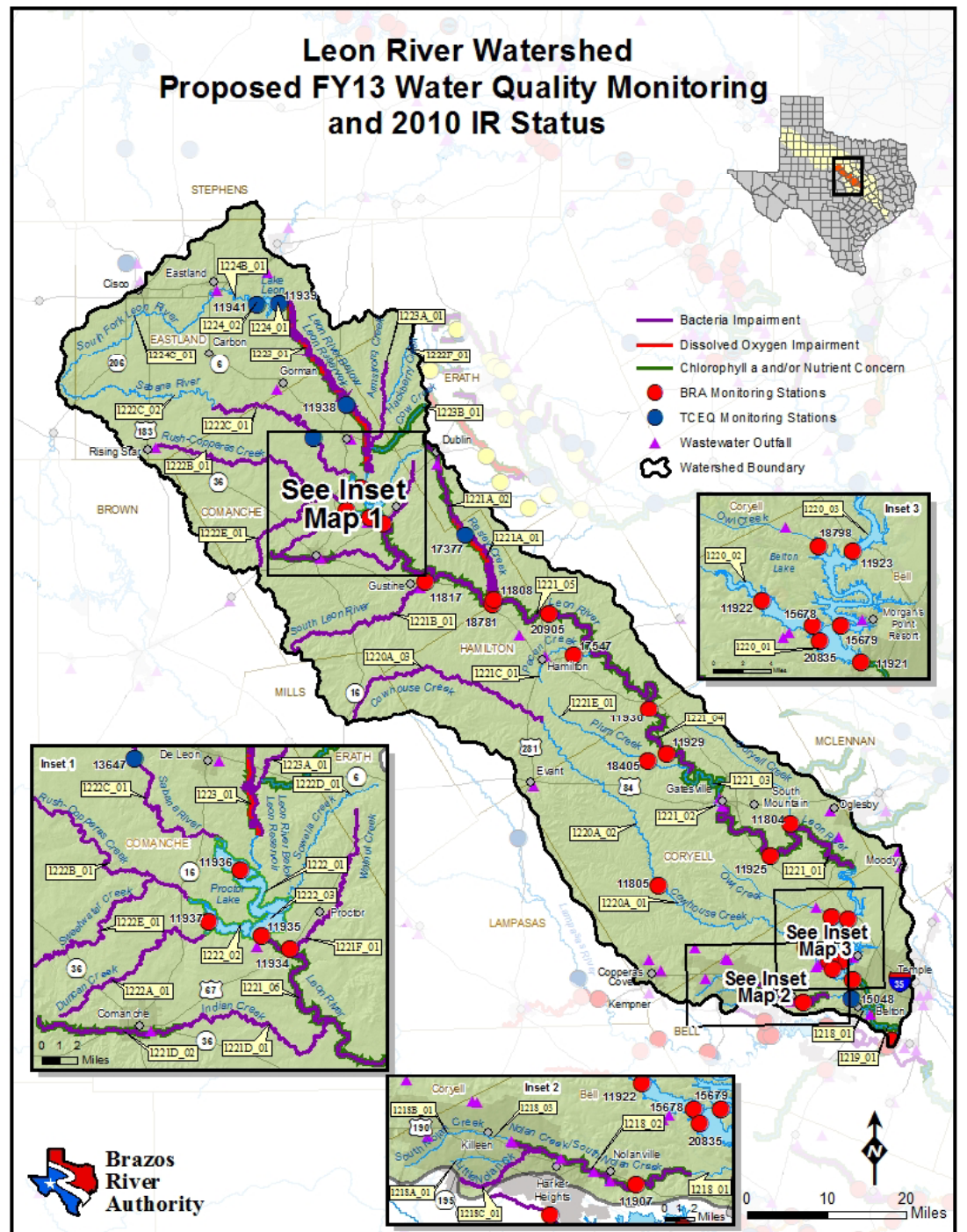


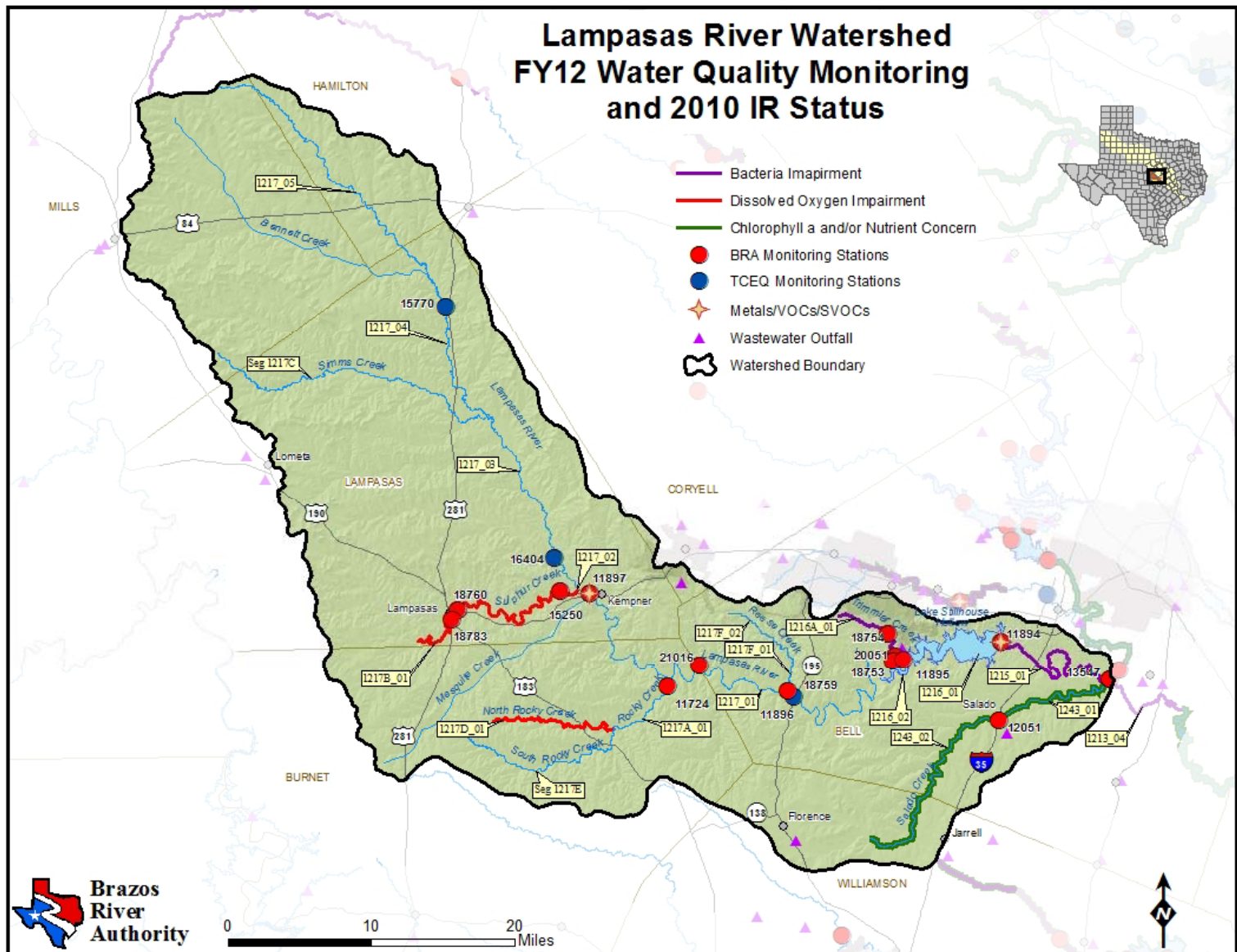


➤ Discontinue

- Leon River at Faunt Leroy Park
- Cowhouse Creek at US 281
- Leon River at SH 36
- two stations on Indian Creek
- Walnut Creek at FM 1476

➤ Will have completed an Aquatic Life Assessment and two year monitoring of Resley Creek (DO) so will discontinue

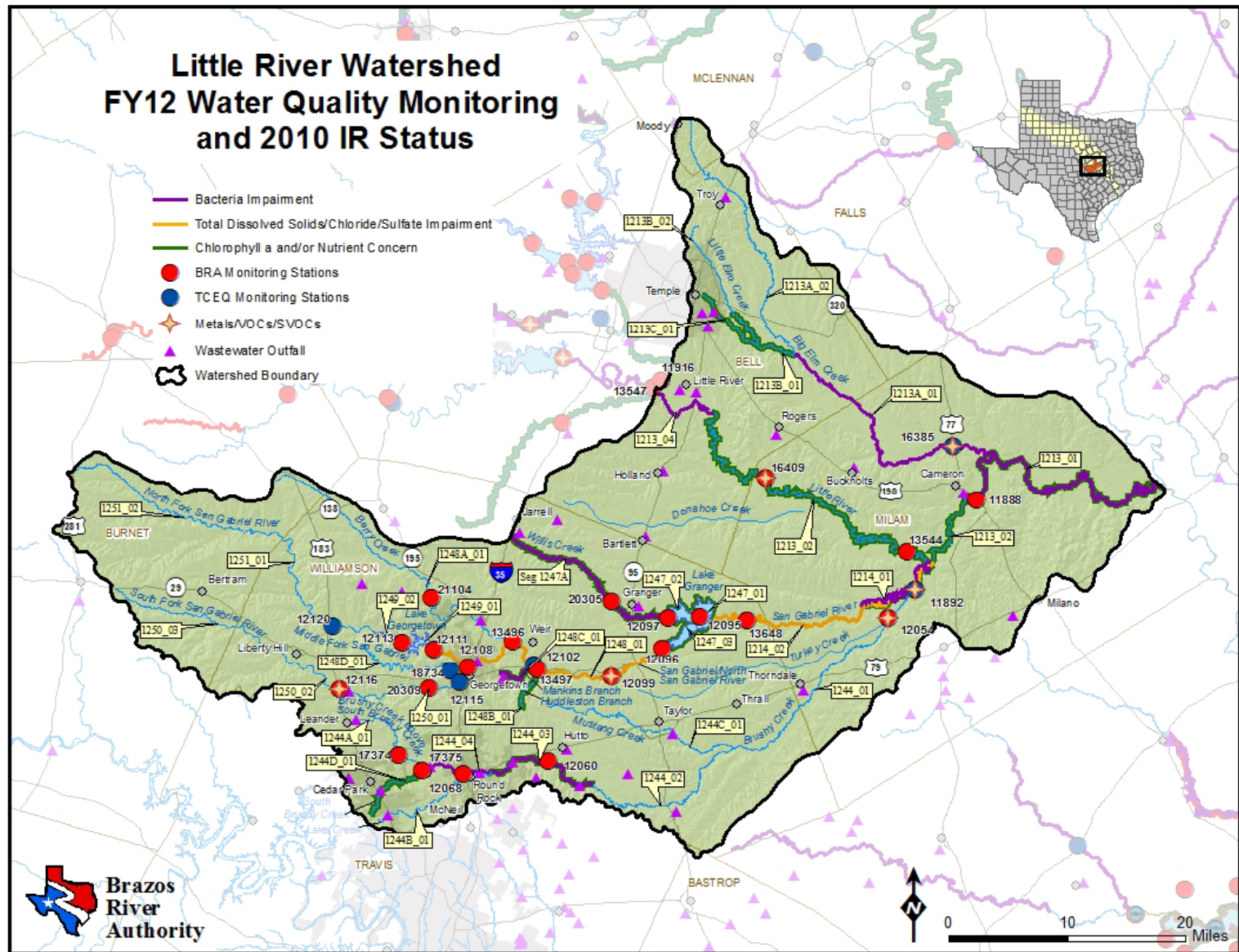




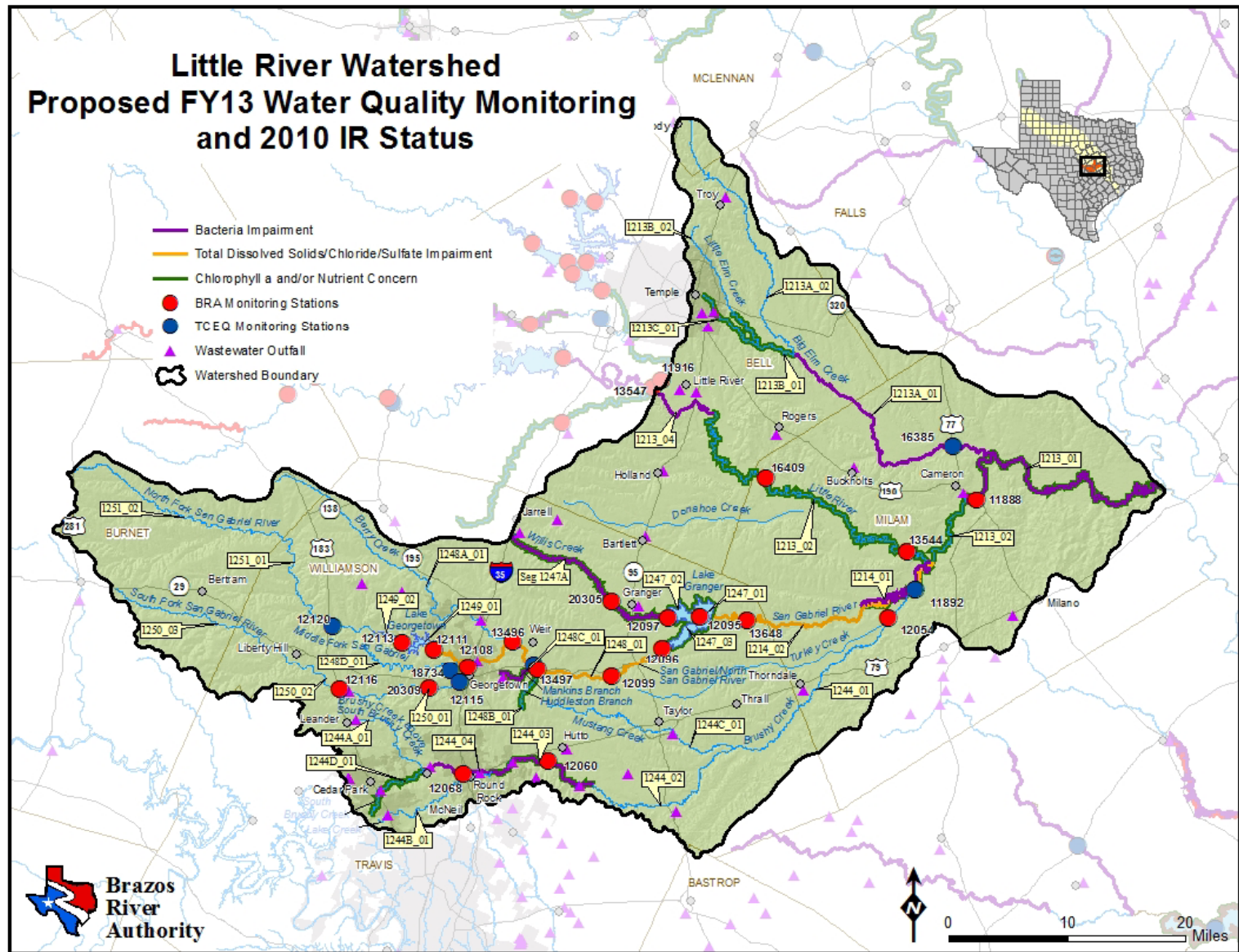
- 2 Bacteria – 2 DO – 1 Nutrient/Chl a
- Lampasas River Watershed Protection Plan



- **Discontinue two stations on Sulphur Creek**
- **Discontinue Metals/VOCs/SVOCs**



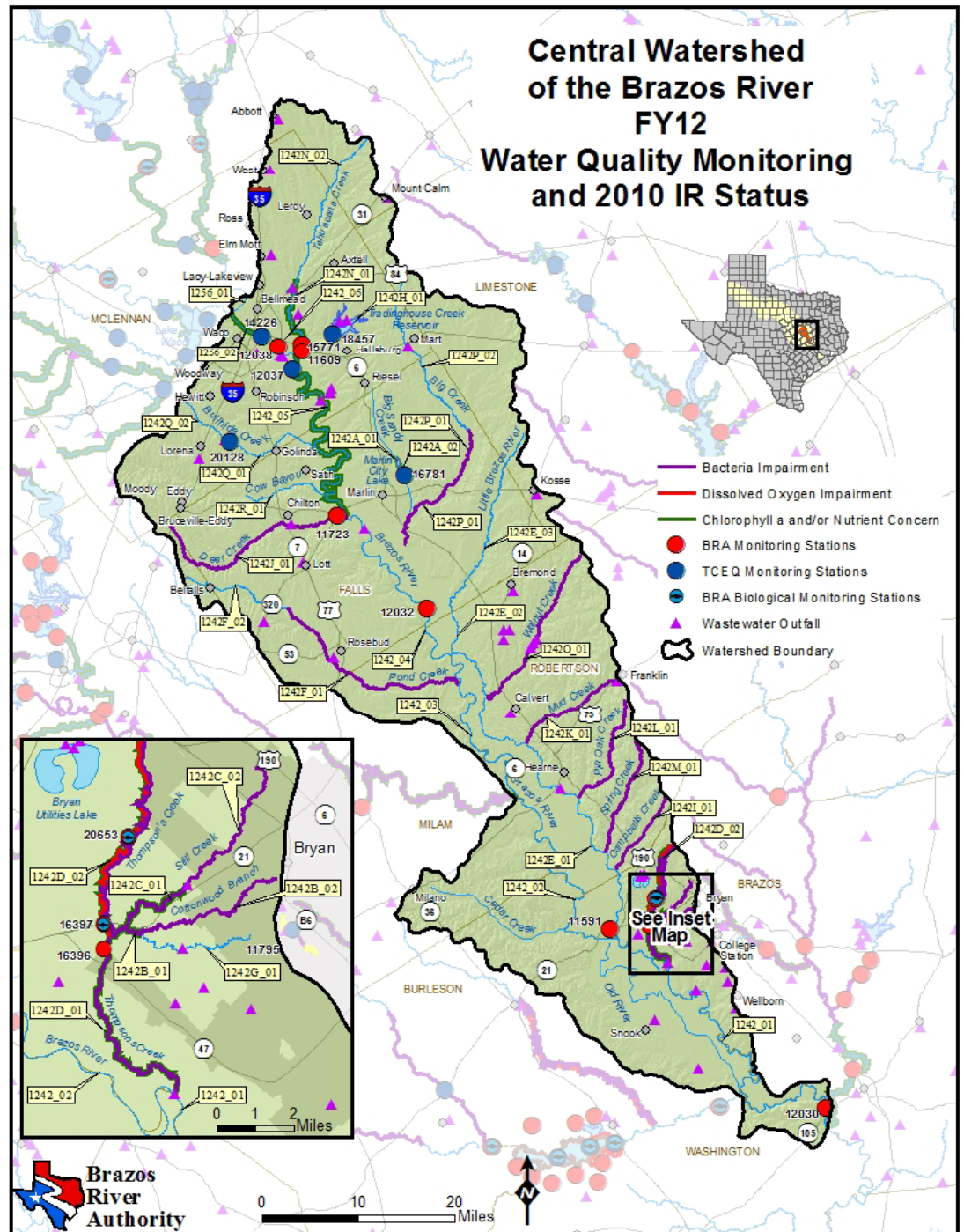
- **6 Bacteria – 2 TDS/Chloride/Sulfate – 10 Nutrient/Chl a**
- **RUAAs have been completed and are in review by the Standards Team for 2 streams**
- **An RUAA has be completed and has been released for public comment for **Brushy Creek****



- Discontinue Berry Creek at Sun City and two stations on Brushy Creek Above South Brushy Creek
- Discontinue Metals/VOCs/SVOCs

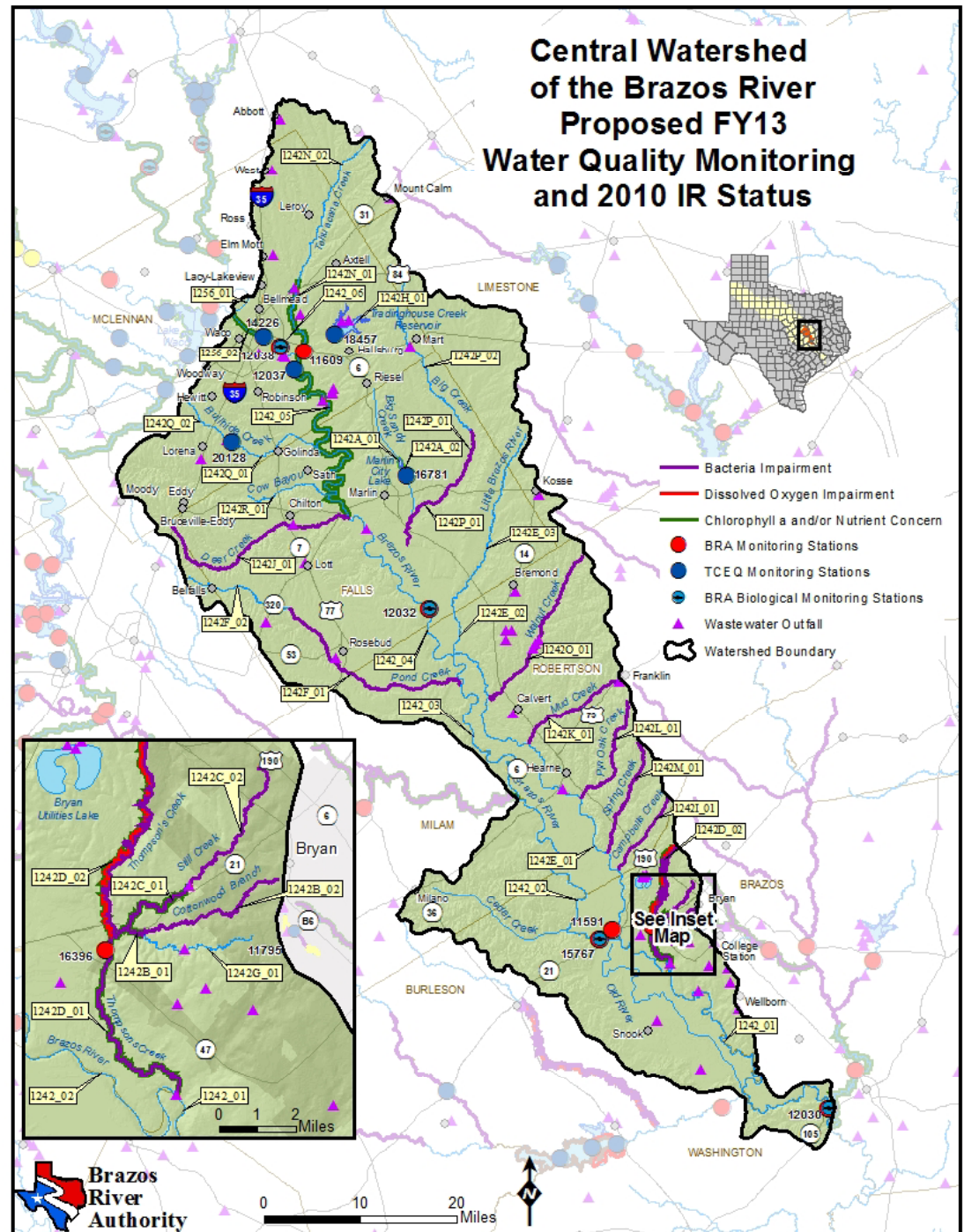


- 11 Bacteria - 1 DO - 7 Nutrient/Chl a
- RUAAs have been completed and are in review by the Standards Team for 4 streams
- RUAA data has been collected for 5 streams and will be submitted to the Standards Team



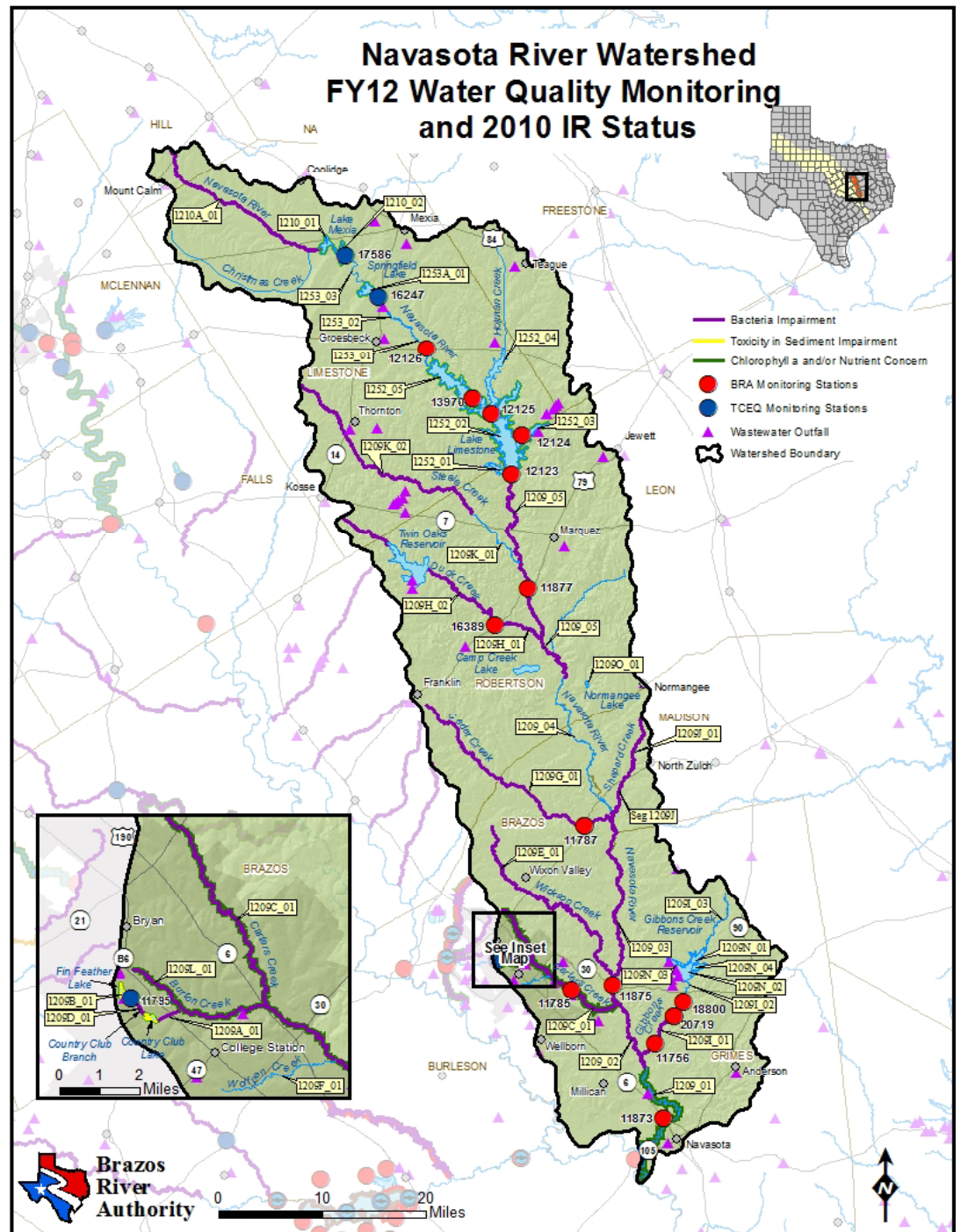


- Data Collection Initiatives to Address 5b/5c Water Bodies in the Brazos River Basin - **Deer Creek (bacteria), Tehuacana Creek (bacteria) and Thompson's Creek (UAA)** will be completed in FY2012
- Add
 - 24-hr DO stations at **Brazos River** at Loop 340 and at **Brazos River** at FM 413 one
 - routine and 24-hr DO station at **Brazos River** at SH 21
 - biological monitoring station at **Brazos River** at SH 105



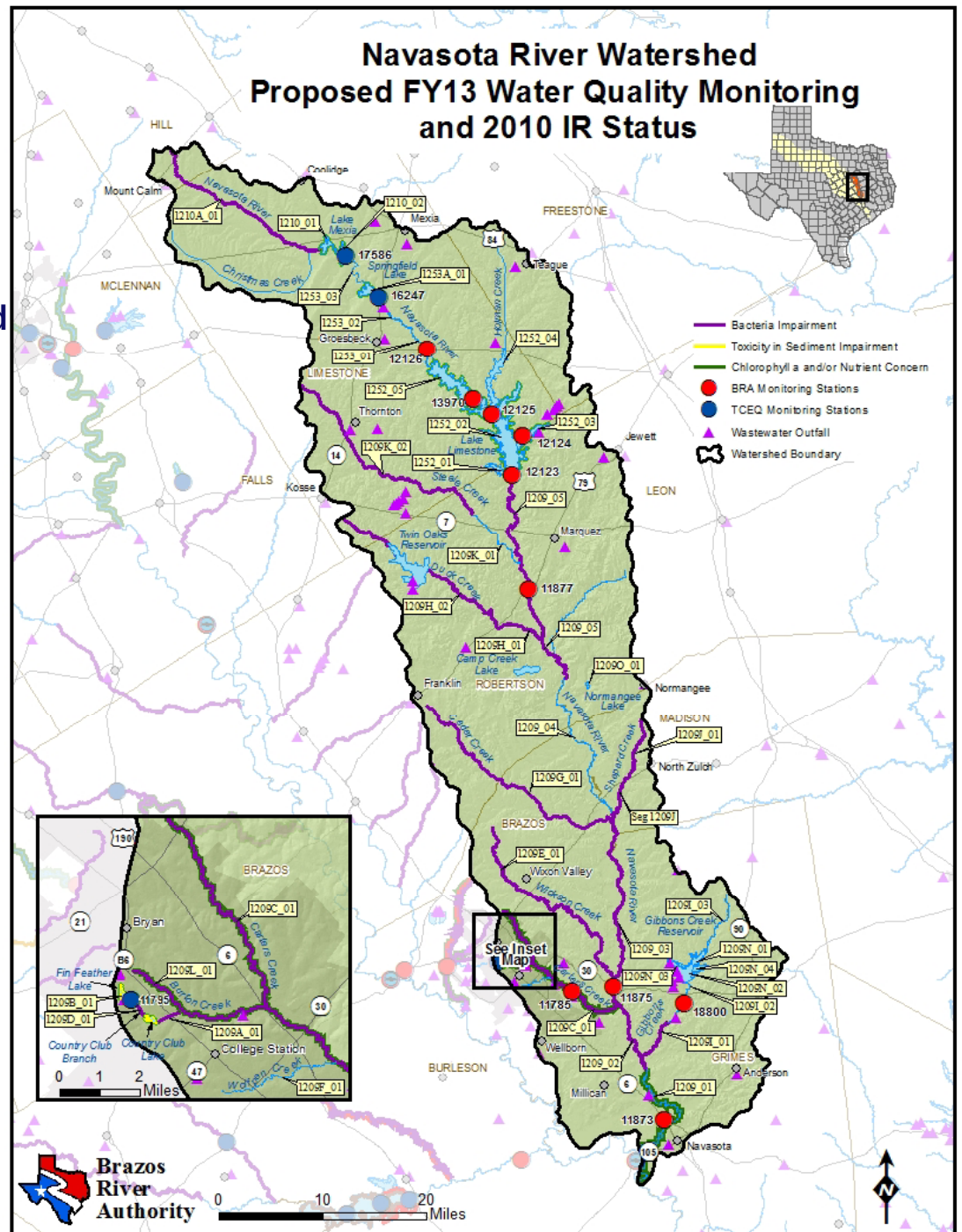


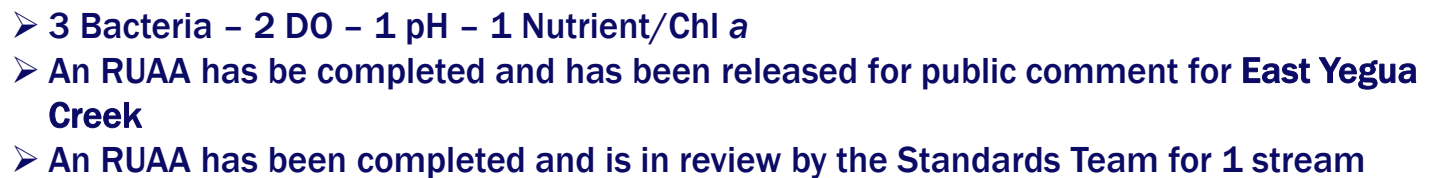
- **11 Bacteria – 8 Nutrient/Chl a**
- **An RUAA has been completed and has been released for public comment for Navasota River Below Lake Limestone and Navasota River above Lake Mexia**
- **RUAA data has been collected for 7 streams and will be submitted to the Standards Team**
- **Carter's Creek and Burton Creek TMDL Implementation**



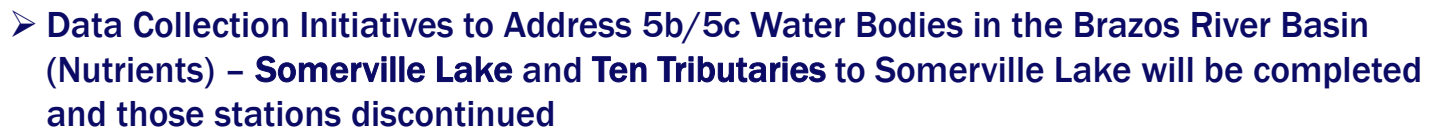


- Data Collection Initiatives to Address 5b/5c Water Bodies in the Brazos River Basin– Cedar Creek (bacteria) and Gibbon's Creek (bacteria) will be completed in FY2012 and those stations will be discontinued
- Discontinue Duck Creek at US 79



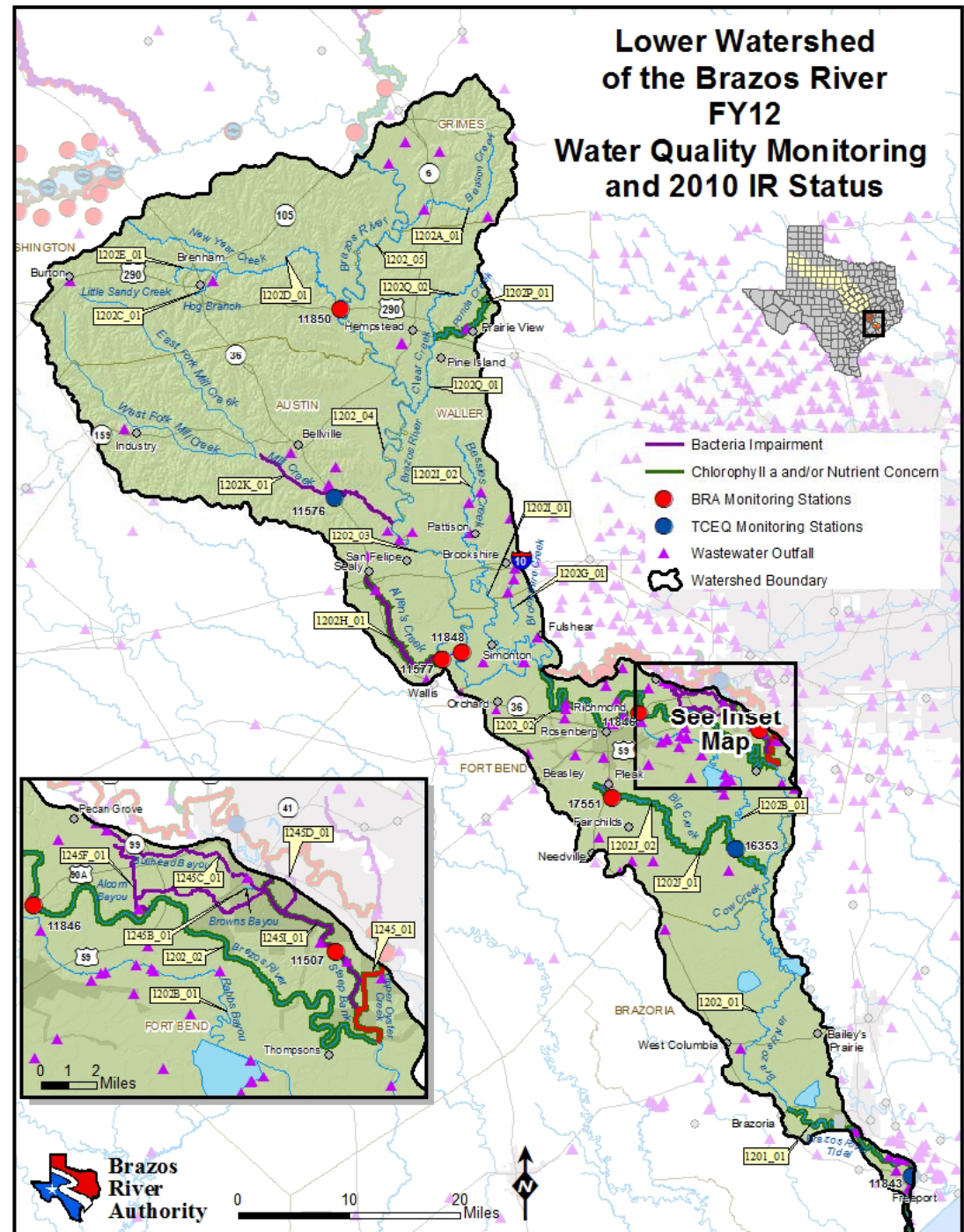


- **3 Bacteria – 2 DO – 1 pH – 1 Nutrient/Chl a**
- **An RUAA has been completed and has been released for public comment for East Yegua Creek**
- **An RUAA has been completed and is in review by the Standards Team for 1 stream**



- **Data Collection Initiatives to Address 5b/5c Water Bodies in the Brazos River Basin (Nutrients) – Somerville Lake and Ten Tributaries to Somerville Lake will be completed and those stations discontinued**

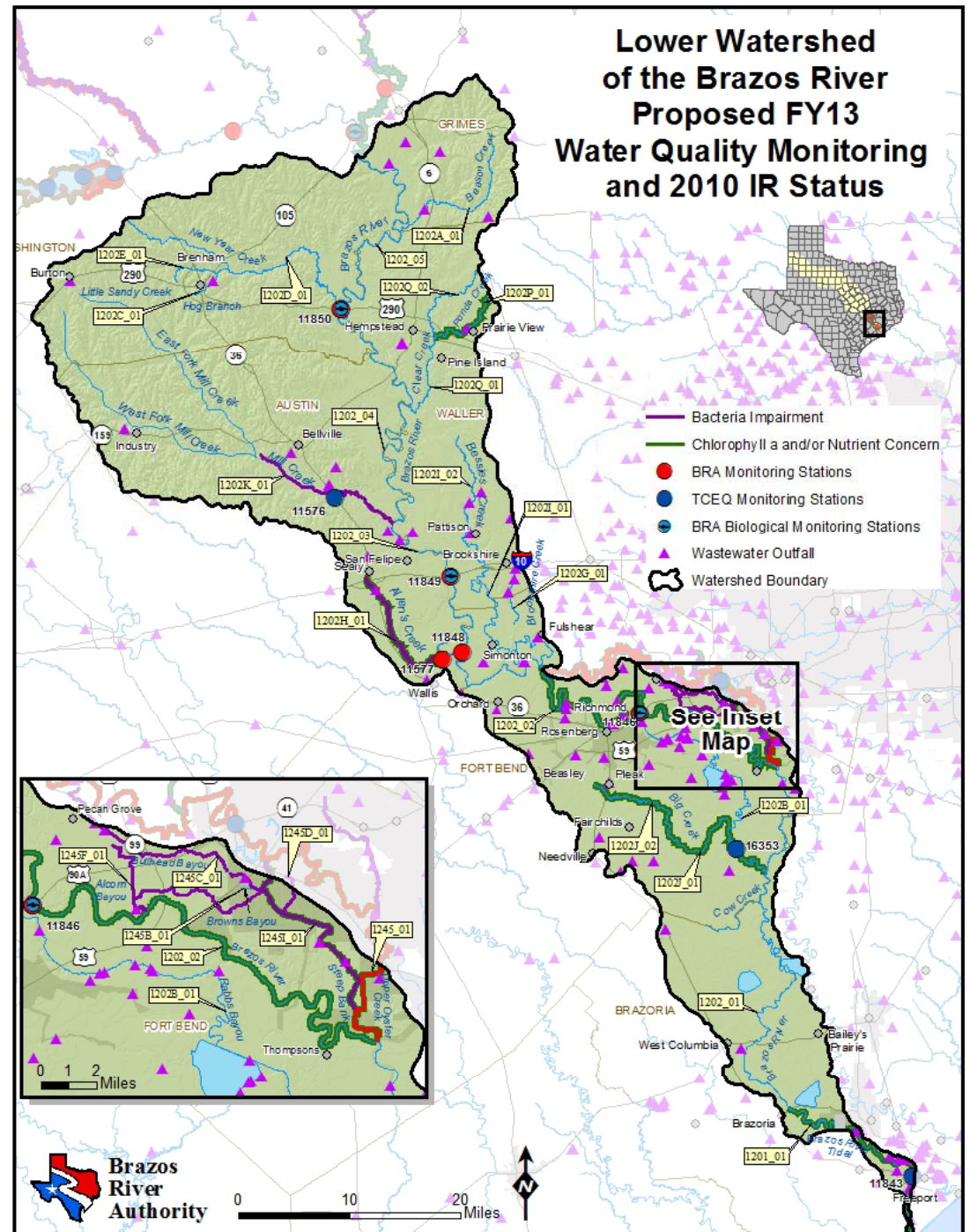
- 6 Bacteria – 7 Nutrient/Chl a
- An RUAA has been completed and has been released for public comment for **Bullhead Bayou and Unnamed Tributary to Bullhead Bayou**
- An RUAA has been completed and is in review by the Standards Team for **1** stream

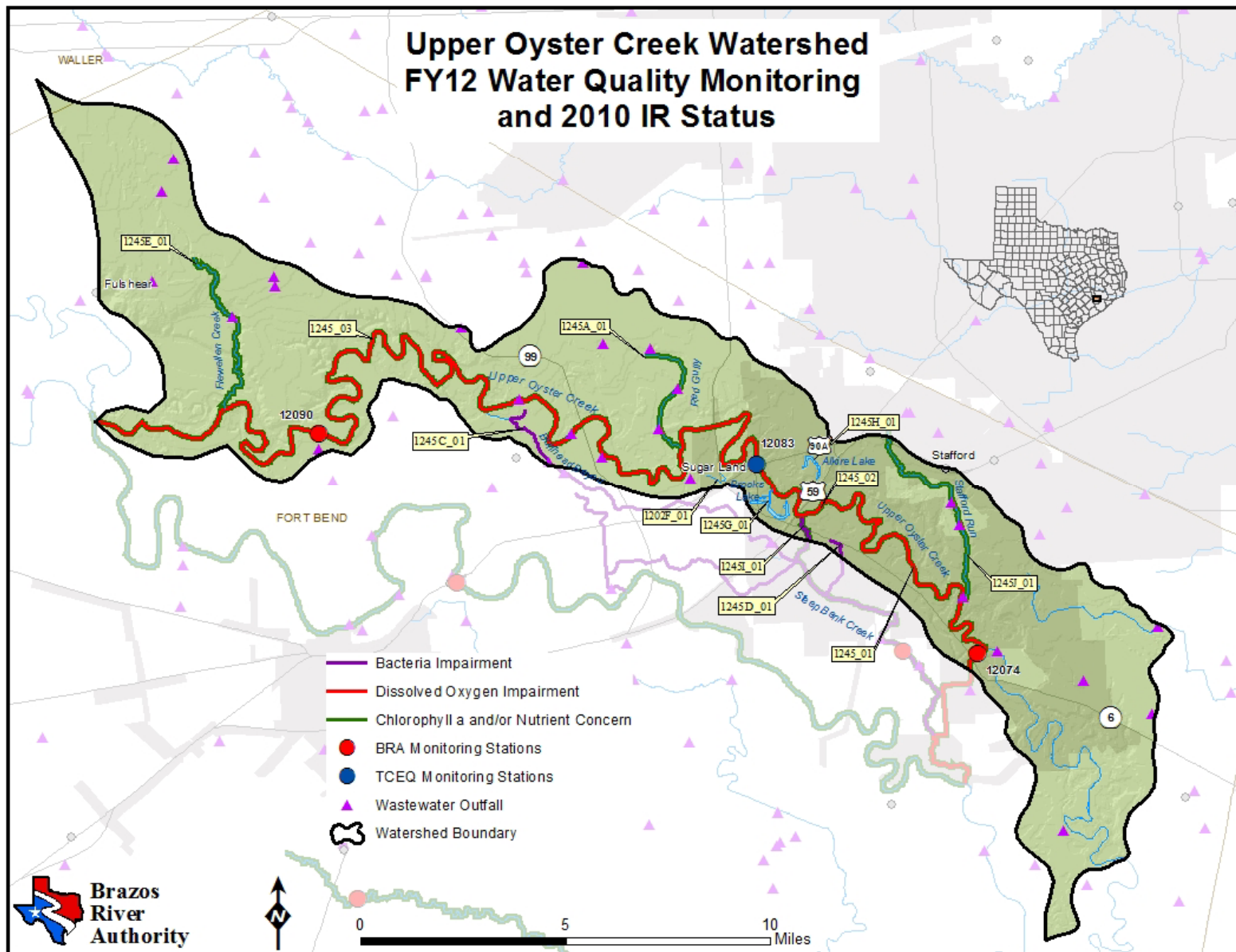




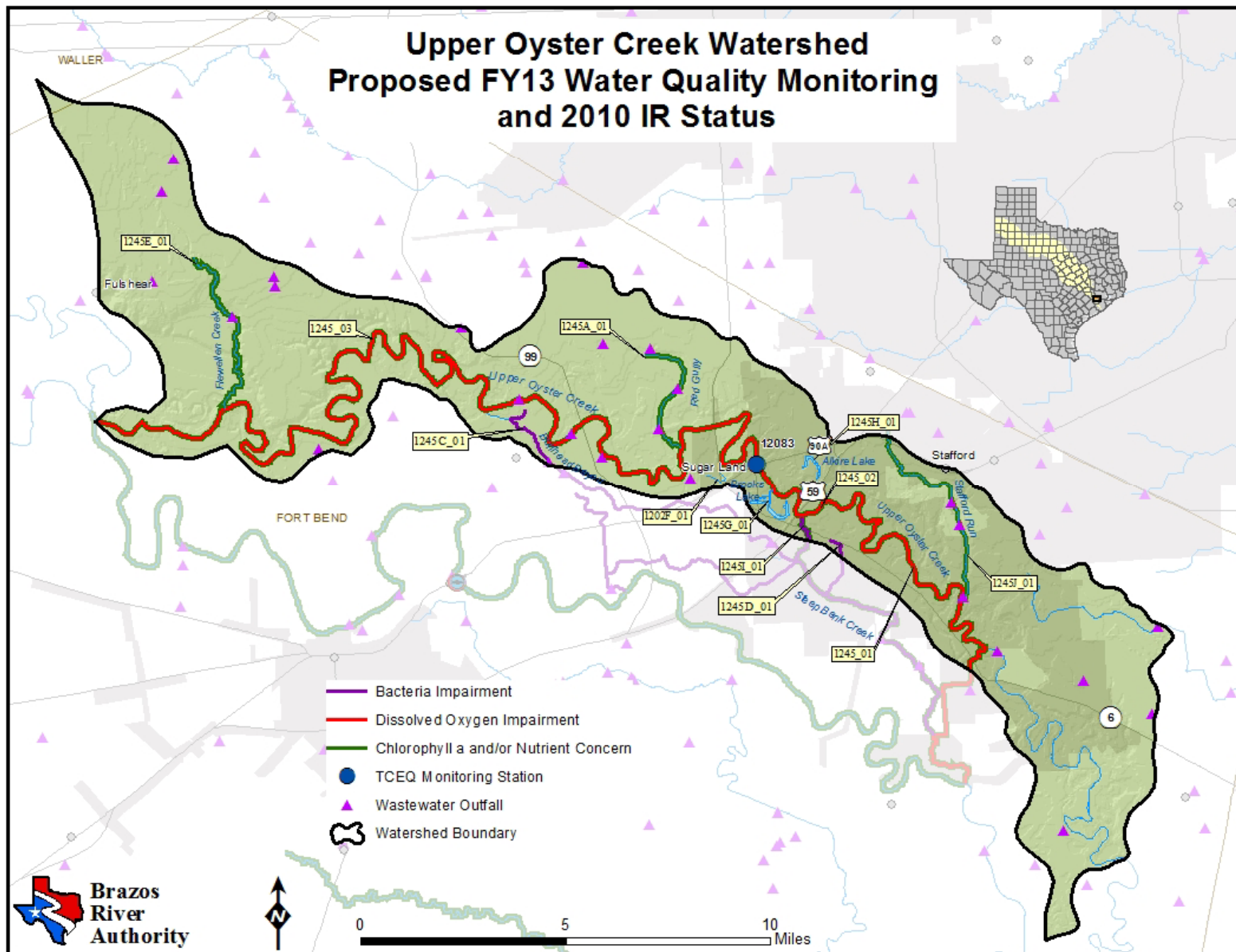
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- Discontinue
 - Big Creek at Trinity Rd
 - Steep Bank at Oil Field Rd
- Add
 - Brazos River at US 290 for 24hr DO
 - Brazos River at IH 10 for routine and 24-hr DO
 - Brazos River at US 90A for biological and 24hr DO





- 1 DO - 3 Nutrient/Chl a
- An RUAA has been completed and has been released for public comment for Upper Oyster Creek

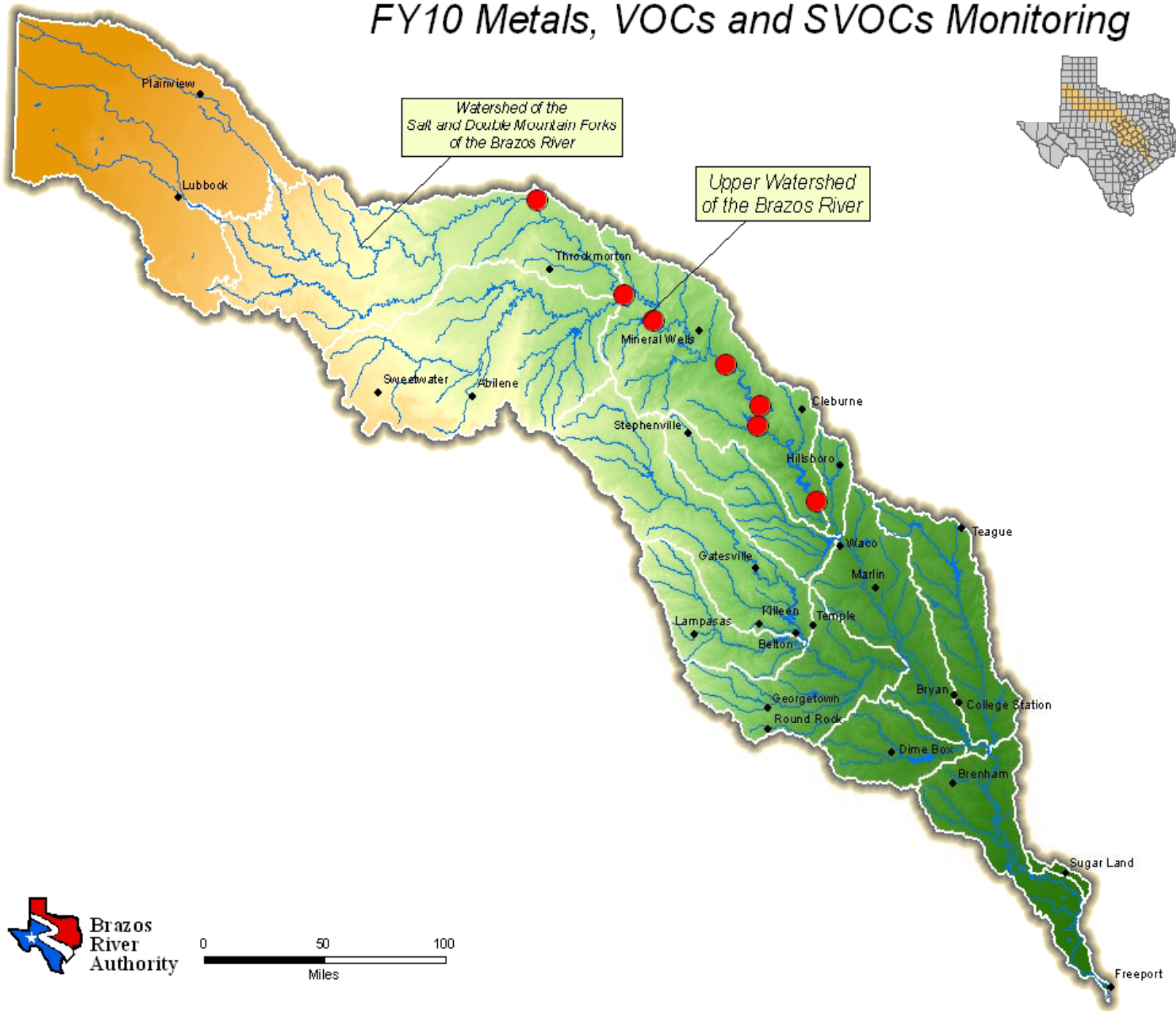


- **Discontinue**
- 12090 – Jones Creek at FM 359
 - 12074 – Flat Bank Creek at SH 6



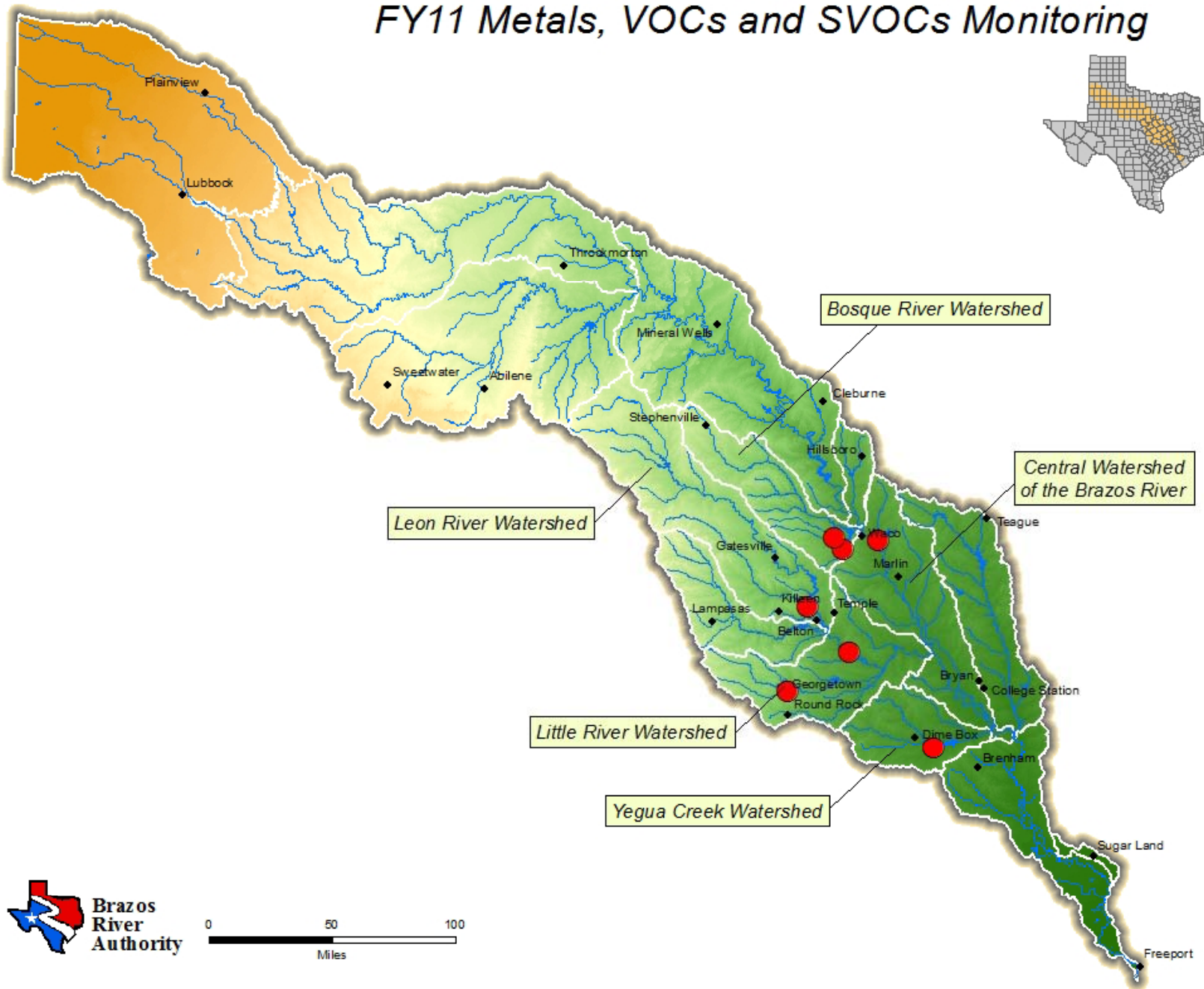
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FY10 Metals, VOCs and SVOCs Monitoring





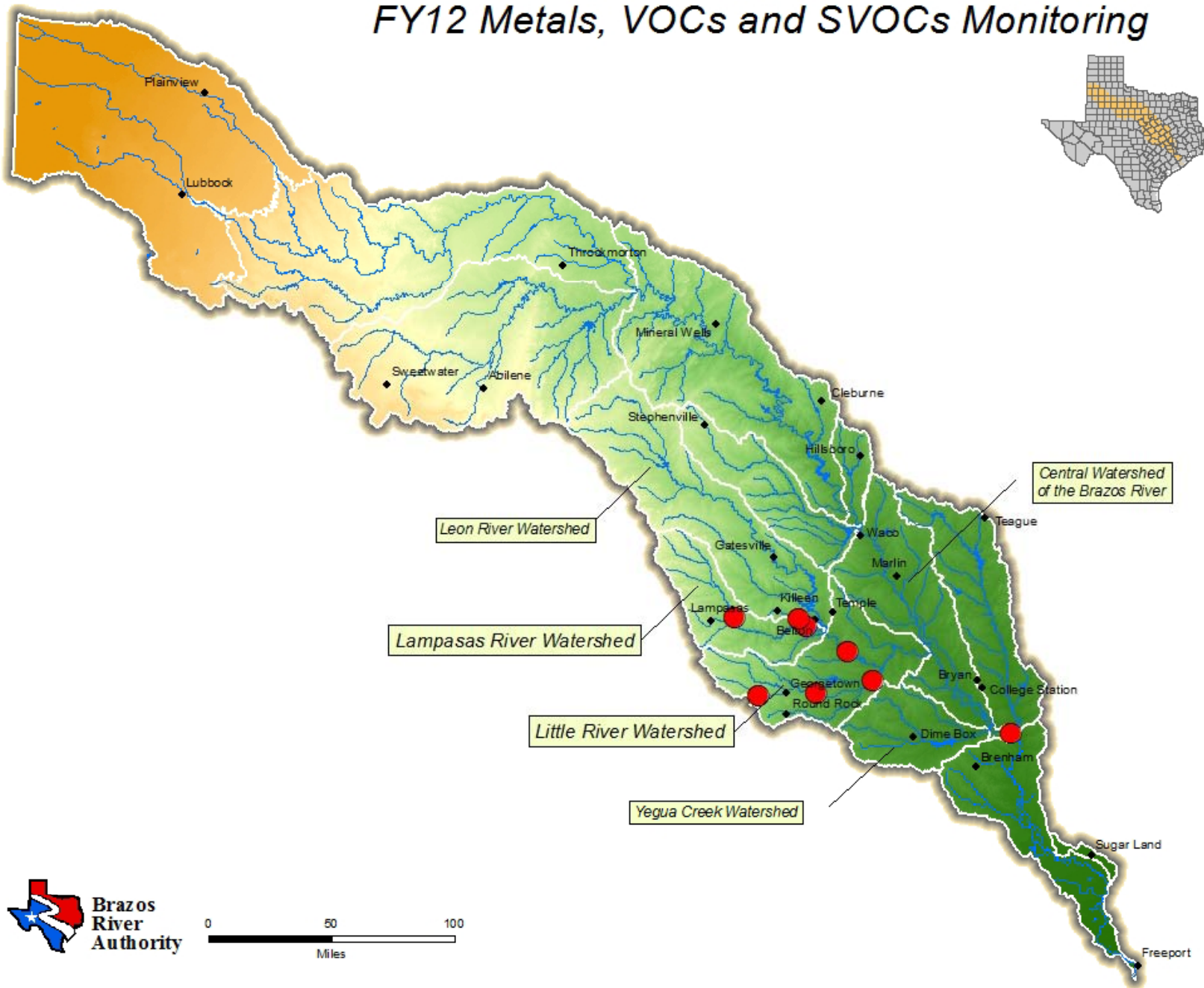
FY11 Metals, VOCs and SVOCs Monitoring





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FY12 Metals, VOCs and SVOCs Monitoring





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