



Brazos River Basin Highlights Report 2026



Brazos River Authority

Brazos River Basin Highlights Report 2026

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Introduction

For the 2026 Brazos River Basin Highlights Report, a watershed characterization type report was created. The 14 major subwatersheds of the Brazos River Basin are subdivided into a total of 134 smaller subwatersheds based on the United States Geological Survey (USGS) generated 10-digit Hydrologic Unit Codes (HUC10). This Basin Highlights Report focuses on 7 major subwatersheds: the Leon River Watershed, the Lampasas River Watershed, the Little River Watershed, the Central Watershed of the Brazos River, the Yegua Creek Watershed, the combined Lower Watershed of the Brazos River and the Middle and Upper Oyster Creek Watershed. This report characterizes 30 HUC10-delineated subwatersheds (referred to as watersheds for the remainder of the report). These watersheds all contain waterbody segments included on the 303(d) List as impaired in the [draft 2026 Integrated Report \(IR\)](#). The following headings and figures are included in each watershed characterization:

Watershed Description:

The full name of the watershed is given and area of watershed in square miles.

Land Use Land Cover in Watershed:

A figure is presented showing land use and land cover in the watershed. Land use land cover (LULC) was acquired for the United States Geological Survey (USGS) using the most recent, 2024 edition of National Land Cover Data (NLCD) land cover layer for the contiguous United States. Percentage surface areas of each LULC class are calculated for each watershed. For purposes of this report, LULC classes used are:

- **Developed** - Includes areas with a mixture of constructed materials, and vegetation in the form of lawn grasses and impervious surfaces. These areas include single-family housing units, parks, golf courses, and vegetation planted in developed settings for recreation, erosion control, or aesthetic purposes, also, apartment complexes, row houses and commercial/industrial areas.
- **Planted/Cultivated** - Areas of grasses, legumes, or grass-legume mixtures planted for livestock grazing or the production of seed or hay crops, typically on a perennial cycle. Pasture/hay vegetation accounts for greater than 20 percent of total vegetation. This class also includes areas used for the production of annual crops, such as corn, soybeans, vegetables, tobacco, and cotton, and also perennial woody crops such as orchards and vineyards. Crop vegetation accounts for greater than 20 percent of total vegetation. All land being actively tilled is also included in this class.
- **Herbaceous/Shrub** - Areas dominated by shrubs; less than 5 meters tall with shrub canopy typically greater than 20% of total vegetation. This class includes true shrubs, young trees in an early successional stage or trees stunted from environmental conditions. This class also includes areas dominated by graminoid or herbaceous vegetation, generally greater than 80% of total vegetation. These areas are not subject to intensive management such as tilling, but can be utilized for grazing.
- **Forest** - Areas dominated by trees generally greater than 5 meters tall, and greater than 20% of total vegetation cover.
- **Wetland** - Areas where forest or shrub land vegetation accounts for greater than 20 percent of vegetative cover and the soil or substrate is periodically saturated with or covered with water and areas where perennial herbaceous vegetation accounts for greater than 80 percent of vegetative cover and the soil or substrate is periodically saturated with or covered with water.
- **Water** - All areas of open water, generally with less than 25% cover of vegetation or soil.
- **Barren** - Barren areas of bedrock, scarps, talus, slides, sand dunes, strip mines, gravel pits and other accumulations of earthen material. Generally, vegetation accounts for less than 15% of total cover.

Segments in Watershed:

Each assessment unit (AU) in the watershed is listed with a full name description. If there are stations in the watershed monitored in fiscal year (FY) 2026, the station is listed with a full name description. Where available, pictures accompany stations monitored as well as selected segments with no FY 2026 monitoring stations. Pictures generally represent the downstream perspective.

Impairments in Watershed Description:

If an AU in the watershed is impaired in the draft 2026 Integrated Report (IR), the type of impairment and/or the parameter of concern is listed.

Possible Contributions if Impaired:

Point Sources: Identifies possible point source contributions to the impairment.

Non-point sources: Identifies possible non-point source contributions to the impairment.

Potential non-State Agency Stakeholders:

Listed are entities that operate within the watershed that would potentially have a vested interest in water quality issues.

Actions taken if Impaired:

If actions are being taken to address the impairment in the watershed, they are listed here.

Recommendations if Impaired:

Possible next steps to address any water quality impairment in the watershed are listed here.

At the start of each section is a figure depicting the watershed. There is a map of each of the seven major watersheds depicting a generalized view highlighting the smaller HUC10 subwatersheds of interest in the section and each impairment. Then there are more detailed maps of each HUC10 subwatershed showing land use landcover data, base satellite imagery with counties, cities, roads, AUs, monitoring stations, wastewater outfalls, and any impairment or select concern in the watershed based on the draft 2026 IR. Only concerns based on a parameter that is only assessed on screening levels are illustrated in these maps. For instance, Bacteria, Depressed Dissolved Oxygen concerns are not illustrated in the maps as there is a State Standard that these parameters can be assessed against and potentially result in impairment. Concerns illustrated include only nutrient and/or chlorophyll *a* concerns. These type of concerns are based on parameter screening levels and have no State Standard which could render the segment impaired if violated.

Leon River Watershed

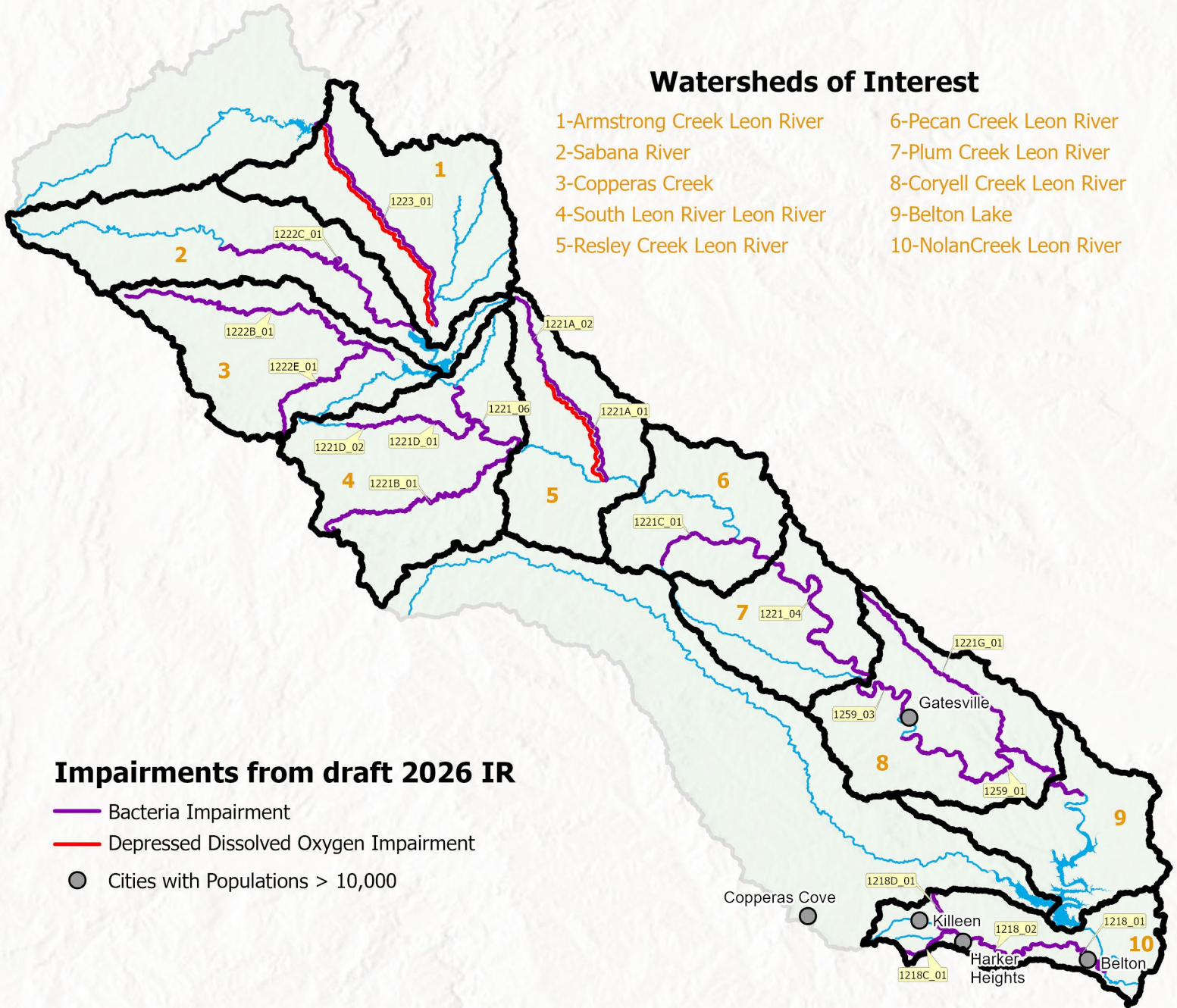
The northernmost tributaries of the Leon River watershed originate in the eastern portion of Callahan County and flows into the mainstem Leon River in Eastland County. From this confluence, the river courses through Comanche, Coryell, Hamilton, and finally reaches Bell, encompassing a total area of 3,748 square miles. There are three impoundments on the mainstem, Leon Reservoir, Proctor Lake, and Lake Belton. These waterbodies are used primarily for recreation, flood control and municipal water supply. Land use in the watershed is primarily rangeland and improved pastureland with areas of mixed forestland. The watershed also hosts a number of municipalities, approximately 50 confined animal feeding operations and row crop agriculture, along with being home to Fort Hood military base. Fort Hood is approximately 214,000 acres and is situated in the Southeast corner of the Leon River watershed. Primary impairments in this watershed include bacterial and depressed dissolved oxygen impairments with concerns for nutrient enrichment and increased chlorophyll a.

Watersheds of Interest

- | | |
|-------------------------------|----------------------------|
| 1-Armstrong Creek Leon River | 6-Pecan Creek Leon River |
| 2-Sabana River | 7-Plum Creek Leon River |
| 3-Copperas Creek | 8-Coryell Creek Leon River |
| 4-South Leon River Leon River | 9-Belton Lake |
| 5-Resley Creek Leon River | 10-NolanCreek Leon River |

Impairments from draft 2026 IR

- Bacteria Impairment
- Depressed Dissolved Oxygen Impairment
- Cities with Populations > 10,000



Armstrong Creek-Leon River Watershed

Watershed Description:

The Armstrong Creek-Leon River Watershed is 331 square miles in area.

Land Use Land Cover in Watershed (Figure 1):

There are two cities and one wastewater outfall, indicated in the Potential non-State Agency Stakeholders section, in this watershed. The dominant land cover in the watershed is herbaceous/shrub land ($\approx 62\%$) with a moderate amount of the planted/cultivated category ($\approx 18\%$) and forested area ($\approx 15\%$). A portion of Lake Proctor lies within this watershed.

Segments in Watershed (Figure 1):

- 1222_01: Lake Proctor, Sabana River arm, the portion where the Leon River Below Leon River Reservoir enters the reservoir
- 1222F_01: Hackberry Creek
- 1223_01: Leon River Below Leon Reservoir
Monitoring Station: 11938 – LEON RIVER IMMEDIATELY UPSTREAM OF SH 16 NORTH OF DE LEON (Figure 1.1)

Figure 1.1 Monitoring Station: 11938 – LEON RIVER IMMEDIATELY UPSTREAM OF SH 16 NORTH OF DE LEON



- 1223A_01: Armstrong Creek
Monitoring Stations:
15065 - ARMSTRONG CREEK IMMEDIATELY UPSTREAM OF FM 2156 10 MILES NORTHWEST OF DUBLIN
15765 - ARMSTRONG CREEK AT SH 6 3 MILES EAST OF DE LEON
- 1223B_01: Cow Creek

Impairments in Watershed Description (Figure 1):

- 1223_01: Recreational Use – Bacteria impairment and Aquatic Life Use – Depressed Dissolved Oxygen impairment.
 - There is also a concern for chlorophyll-*a* in 1223_01. There are concerns for chlorophyll-*a* and nitrate in 1223A_01, Bacteria in 1223B_01, and Bacteria and Depressed Dissolved Oxygen in 1222F_01.

Possible Contributions if Impaired:

Point Sources:

- Two cities and one municipal wastewater outfall are within the Armstrong Creek-Leon River Watershed. Cities responsible for wastewater treatment plants, combined sewer systems or municipal separate storm sewer systems could create point source pollution contributing to bacterial and nutrient loads as a result of a system failure.

Non-point sources:

- Wildlife: There are significant herbaceous/shrubland and forested areas ($\approx 74\%$) in the watershed which is suitable for wildlife. A significant wildlife population can contribute to bacterial and nutrient loading.
- Agricultural runoff: Agricultural activity ($\approx 18\%$) in the watershed could also contribute to runoff, potentially introducing nutrient loads in planted/cultivated areas and bacterial loading from animal production agriculture.

Potential non-State Agency Stakeholders:

- City of Desdamona
- City of DeLeon
- Eastland County
- Comanche County
- Erath County

Actions taken if impaired:

- Segment 1223 was first listed as impaired for Bacteria in 2006 and impaired for Depressed Dissolved Oxygen in 2008. A Recreational Use Attainability Analysis ([RUAA](#)) was conducted in segment 1223. Upon TCEQ's recommendation, the segment remains classified as a primary contact recreation (PCR) segment.
- A watershed characterization, the [Proctor Lake Watershed Characterization](#) was conducted that included segments 1223_01 and 1223A_01. The report was published in February 2025.

Recommendations if Impaired:

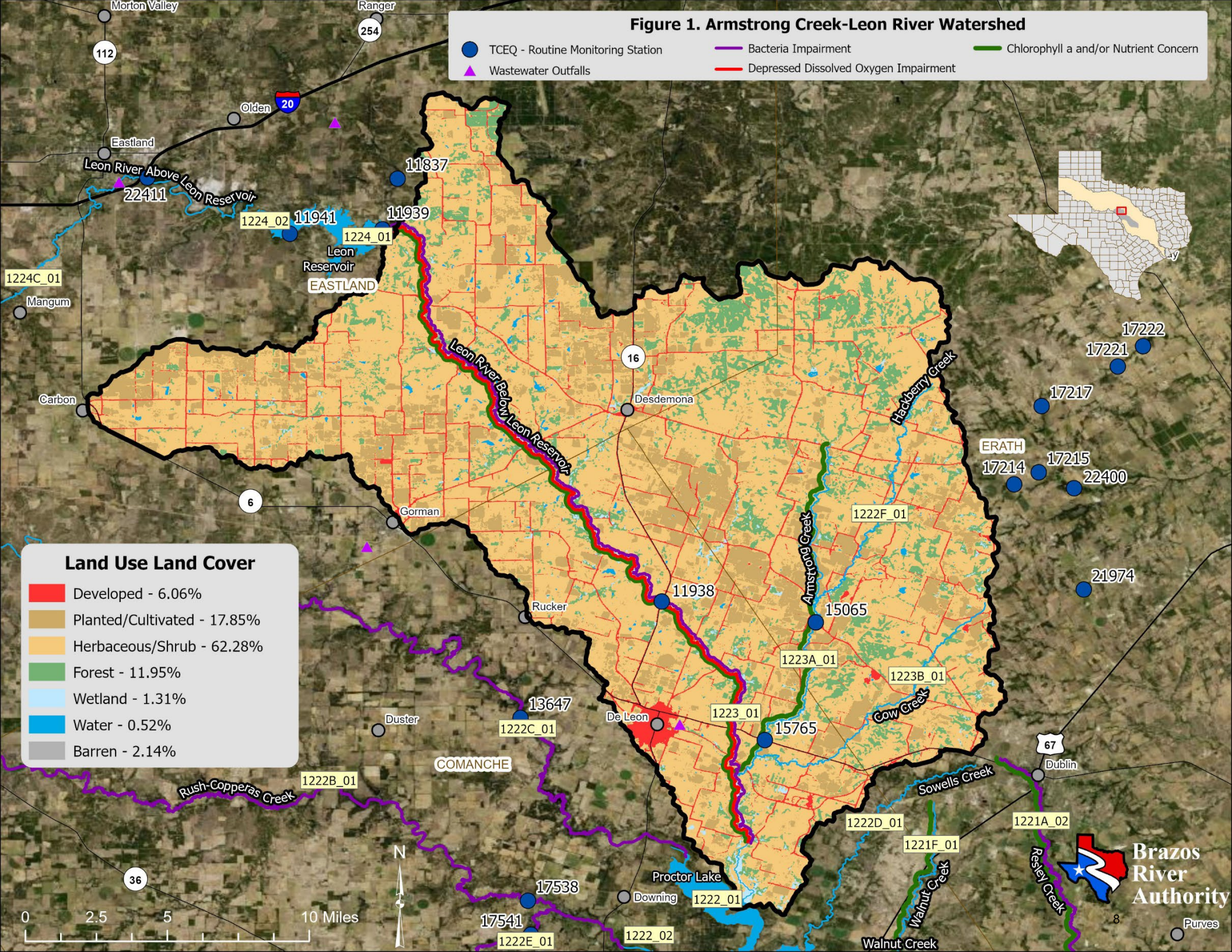
- Utilizing data acquired in the watershed characterization study, development of a Watershed Protection Plan (WPP) may be appropriate.
- To address the depressed dissolved oxygen impairment, performing a Use Attainability Analysis (UAA) may be appropriate to determine if the existing aquatic life use (ALU) and dissolved oxygen criteria are appropriate, and if not, provide data for establishing new standards.

Figure 1. Armstrong Creek-Leon River Watershed

● TCEQ - Routine Monitoring Station
 — Bacteria Impairment
 — Chlorophyll a and/or Nutrient Concern
▲ Wastewater Outfalls
 — Depressed Dissolved Oxygen Impairment

Land Use Land Cover

- Developed - 6.06%
- Planted/Cultivated - 17.85%
- Herbaceous/Shrub - 62.28%
- Forest - 11.95%
- Wetland - 1.31%
- Water - 0.52%
- Barren - 2.14%



Sabana River Watershed

Watershed Description:

The Sabana River Watershed is 338 square miles in area.

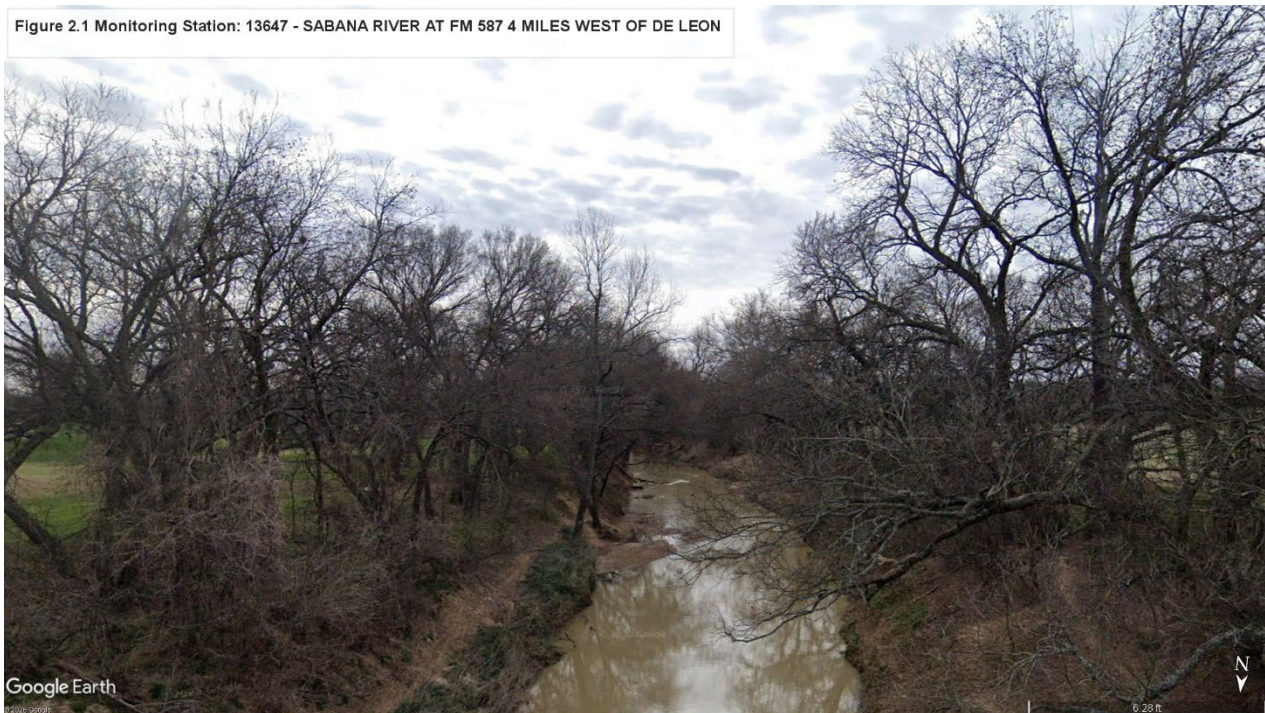
Land Use Land Cover in Watershed (Figure 2):

There are six cities and one wastewater outfall, indicated in the Potential non-State Agency Stakeholders section, in the watershed. The upstream portion of Lake Proctor lies within the watershed. The dominant land cover is herbaceous/shrub land ($\approx 62\%$), with a moderate amount of the planted/cultivated category as well as developed land.

Segments in Watershed (Figure 2):

- 1222_01: Lake Proctor, Sabana River arm, the portion where the Sabana River enters the reservoir
Monitoring Station: 11936 - LAKE PROCTOR IN LEON AND SABANA RIVER ARM 2.43 KM NORTH AND 1.23 KM EAST OF INTERSECTION OF COMANCHE CR 424 AND FM 2318
- 1222C_01: Sabana River from confluence with Lake Belton in Comanche County upstream to confluence with Elm Creek in Eastland County
Monitoring Station: 13647 - SABANA RIVER AT FM 587 4 MILES WEST OF DE LEON (Figure 2.1)

Figure 2.1 Monitoring Station: 13647 - SABANA RIVER AT FM 587 4 MILES WEST OF DE LEON



- 1222C_02: Sabana River from confluence with Elm Creek in Eastland upstream to headwaters in Callahan County
- 1222D_01: Sowell's Creek

Impairments in Watershed Description (Figure 2):

- 1222C_01: Recreational Use – Bacteria Impairment
 - There is a bacteria concern in 1222D_01.

Possible Contributions if Impaired:

Point Sources:

- There are six cities and one municipal wastewater outfall in this watershed. Cities responsible for wastewater treatment plants, combined sewer systems or municipal separate storm sewer systems could create point source pollution contributing to bacterial and nutrient loads as a result of a system failure.

Non-point sources:

- Wildlife: There are significant herbaceous/shrubland and forested areas ($\approx 73\%$) in the watershed which is suitable for wildlife. A significant wildlife population can contribute to bacterial and nutrient loading.
- Agricultural runoff: Agricultural activity ($\approx 19\%$) in the watershed could also contribute to runoff, potentially introducing nutrient loads in planted/cultivated areas and bacterial loading from animal production agriculture.

Potential non-State Agency Stakeholders:

- City of Romney
- City of Branton
- City of Carbon
- City of Gorman
- City of Rucker
- City of Duster
- Callahan County
- Eastland County
- Comanche County
- Erath County
- Any marinas or other businesses on or that serve Lake Proctor

Actions taken if impaired:

- Segment 1222C was first listed as impaired for Bacteria in 2006. An [RUAA](#) has been completed. Upon TCEQ's recommendation, the segment remains classified as PCR segment.
- A watershed characterization, the [Proctor Lake Watershed Characterization](#), was conducted that included segment 1222C_01. The report was published in February 2025.

Recommendations if Impaired:

- Utilizing data acquired in the watershed characterization study, development of a Watershed Protection Plan (WPP) may be appropriate.

Figure 2. Sabana Creek Watershed

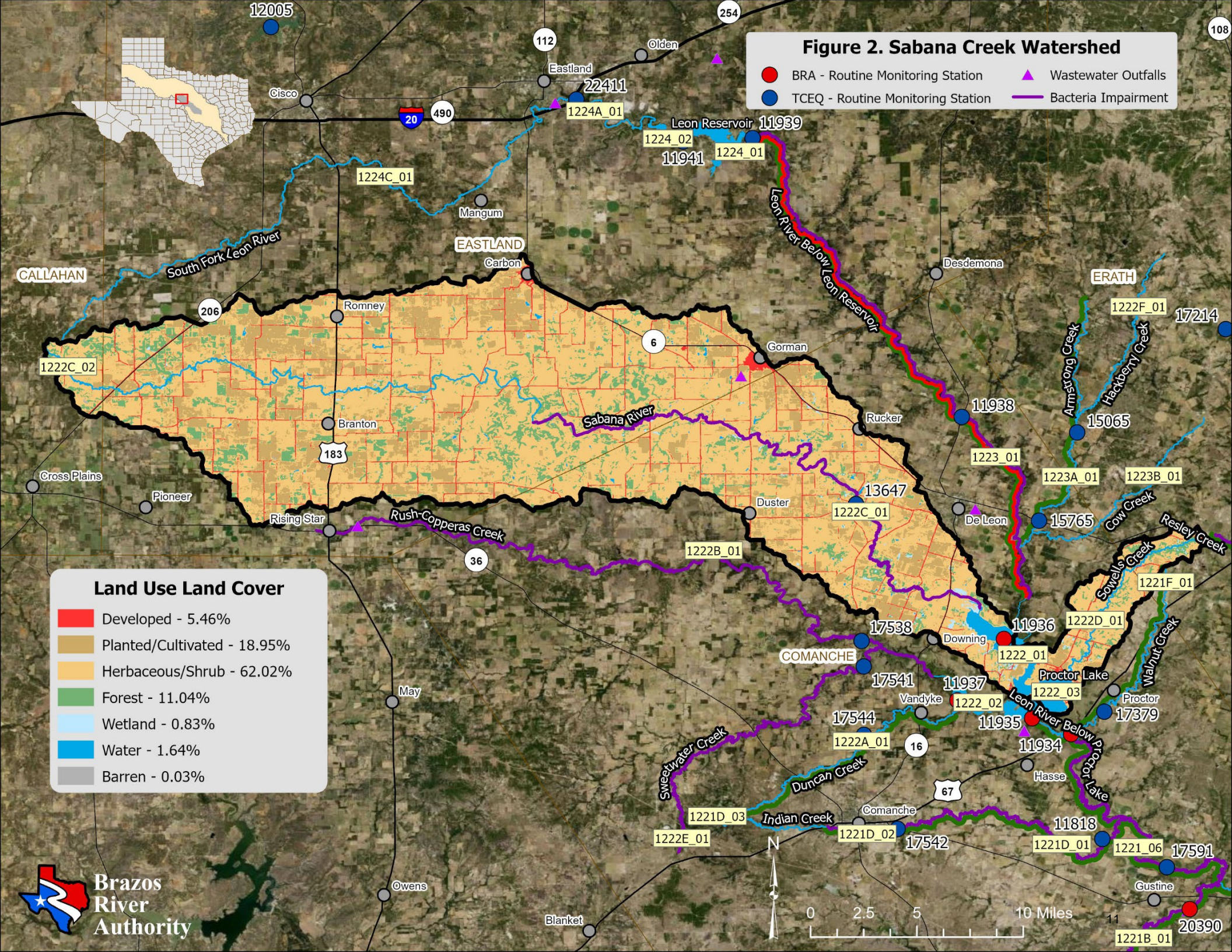
- BRA - Routine Monitoring Station
- TCEQ - Routine Monitoring Station
- ▲ Wastewater Outfalls
- Bacteria Impairment

Land Use Land Cover

- Developed - 5.46%
- Planted/Cultivated - 18.95%
- Herbaceous/Shrub - 62.02%
- Forest - 11.04%
- Wetland - 0.83%
- Water - 1.64%
- Barren - 0.03%



0 2.5 5 10 Miles



Copperas Creek Watershed

Watershed Description:

The Copperas Creek Watershed is 291 square miles in area.

Land Use Land Cover in Watershed (Figure 3):

The biggest cities within the watershed are Rising Star, Downing, and Vandyke.

There is one wastewater outfall. Part of Lake Proctor lies within the watershed. The dominant land cover is herbaceous/shrub, with a moderate amount of the planted/cultivated category and a smaller amount of forested upland.

Segments in Watershed (Figure 3):

- 1222_02: Lake Proctor, Copperas/ Duncan Creeks arm of lake
Monitoring Station: 11937 - LAKE PROCTOR COPPERAS CREEK ARM 460 METERS NORTH AND 2.04 KILOMETERS EAST OF INTERSECTION OF COMANCHE CR 410a AND COMANCHE CR 407
- 1222_03: Lake Proctor, portion of water body near dam
Monitoring Station: 11935 - LAKE PROCTOR MEAR DAM FLOODGATE 911 METERS NORTH AND 940 METERS EAST OF INTERSECTION OF FM 2861 AND COMANCHE CR 418C
- 1222A_01: Duncan Creek
Monitoring Station: 17544 - DUNCAN CREEK AT COMANCHE CR 419 NORTH OF COMANCHE AND SOUTH OF FAIRVIEW
- 1222B_01: Rush-Copperas Creek
Monitoring Station: 17538 - COPPERAS CREEK AT COMANCHE CR 419 NORTHWEST OF LAKE PROCTOR
- 1222E_01: Sweetwater Creek
Monitoring Station: 17541 - SWEETWATER CREEK IMMEDIATELY UPSTREAM OF COMANCHE CR 419 WEST OF LAKE PROCTOR

Impairments in Watershed Description (Figure 3):

- 1222B_01: Recreational Use—Bacteria impairment
- 1222E_01: Recreational Use—Bacteria impairment
 - There are concerns for chlorophyll-*a* in 1222A_01.

Possible Contributions if Impaired:

Point Sources:

- There are three cities and one municipal wastewater outfall in this watershed. Cities responsible for wastewater treatment plants, combined sewer systems or municipal separate storm sewer systems could create point source pollution contributing to bacterial and nutrient loads as a result of a system failure.

Non-point sources:

- Wildlife: There are significant herbaceous/shrubland and forested areas (~75%) in the watershed which is suitable for wildlife. A significant wildlife population can contribute to bacterial and nutrient loading.

- Agricultural runoff: Agricultural activity (≈18%) in the watershed could also contribute to runoff, potentially introducing nutrient loads in planted/cultivated areas and bacterial loading from animal production agriculture.

Potential non-State Agency Stakeholders:

- City of Rising Star
- City of Vandyke
- City of Downing
- Eastland County
- Comanche County
- Brown County
- Any marinas or other businesses on or that serve Lake Proctor

Actions taken if impaired:

- Segments 1222B and 1222E were first listed as impaired for Bacteria in 2006. RUAs were conducted in segments [1222B_01](#) and [1222E_01](#). Results led to the recommendation that segments 1222B and 1222E remain classified as PCR segments.
- A watershed characterization, the [Proctor Lake Watershed Characterization](#), was conducted that included segments 1222B_01 and 1222E_01. The report was published in February 2025.

Recommendations if Impaired:

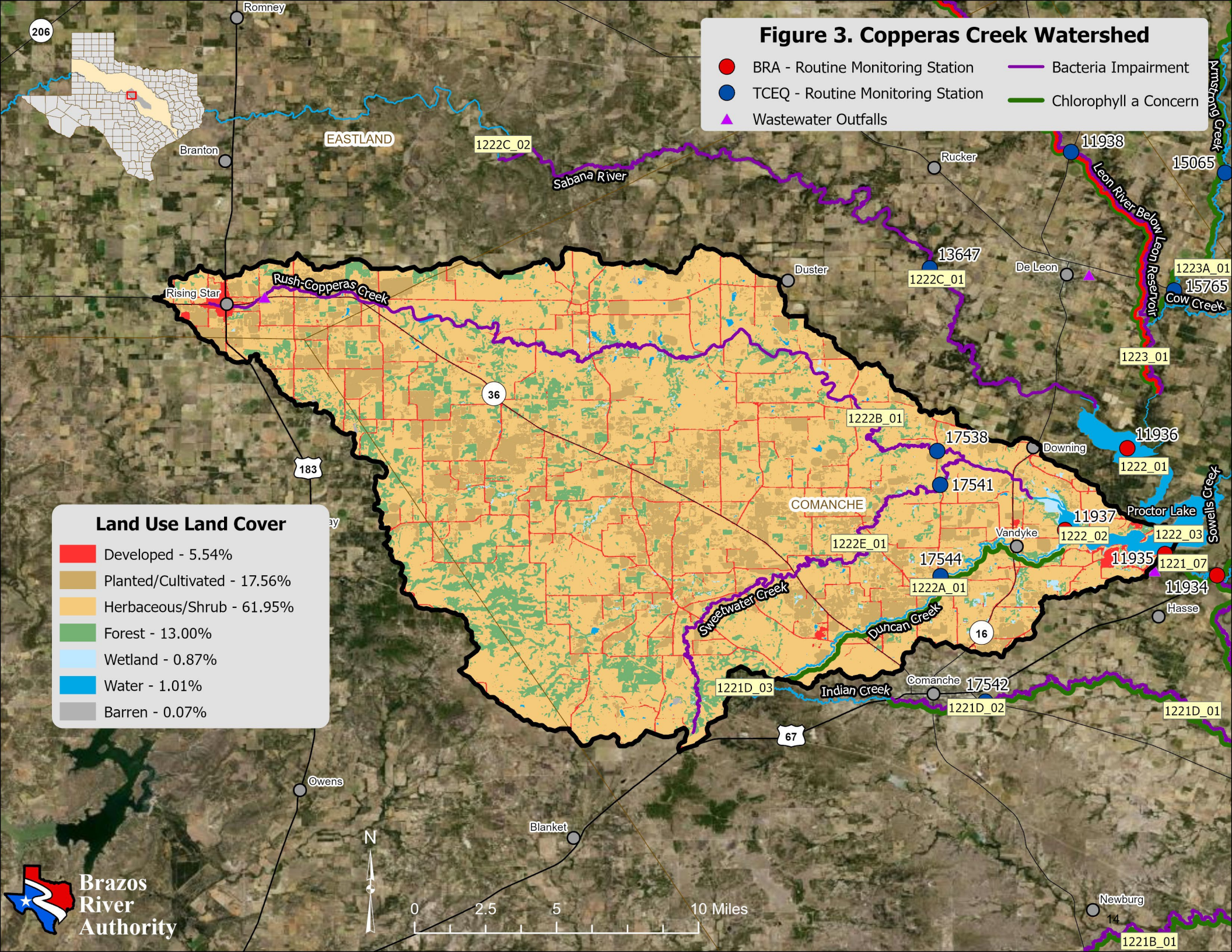
- Utilizing data acquired in the watershed characterization study, development of a Watershed Protection Plan (WPP) may be appropriate.

Figure 3. Copperas Creek Watershed

- BRA - Routine Monitoring Station
- TCEQ - Routine Monitoring Station
- Bacteria Impairment
- Chlorophyll a Concern
- ▲ Wastewater Outfalls

Land Use Land Cover

	Developed - 5.54%
	Planted/Cultivated - 17.56%
	Herbaceous/Shrub - 61.95%
	Forest - 13.00%
	Wetland - 0.87%
	Water - 1.01%
	Barren - 0.07%



South Leon River-Leon River Watershed

Watershed Description:

The South Leon River-Leon River Watershed is 365 square miles in area.

Land Use Land Cover in Watershed (Figure 4):

There are six cities and three wastewater outfalls, indicated in the Potential non-State Agency Stakeholders section, in the watershed. The dominant land cover is herbaceous/shrubland ($\approx 73\%$).

Segments in Watershed (Figure 4):

- 1221_06: Leon River Below Lake Proctor, from confluence with South Leon Creek upstream to confluence with Walnut Creek
Monitoring Station: 17591 - LEON RIVER IMMEDIATELY UPSTREAM OF COMANCHE CR 340 NORTH OF GUSTINE (Figure 4.1)



- 1221_07: Leon River Below Lake Proctor, from confluence with Walnut Creek upstream to Lake Proctor
Monitoring Station: 11934 - LEON RIVER IMMEDIATELY DOWNSTREAM OF US 67/ US 377 DOWNSTREAM OF LAKE PROCTOR (Figure 4.2)

Figure 4.2 11934 - LEON RIVER IMMEDIATELY DOWNSTREAM OF US 67/ US 377 DOWNSTREAM OF LAKE PROCTOR



- 1221B_01: South Leon River
Monitoring Station: 20390 - SOUTH LEON RIVER 300 METERS DOWNSTREAM OF COMANCHE CR 260 EAST OF GUSTINE
- 1221D_01: Indian Creek, from confluence with Leon River upstream to confluence with Armstrong Creek
Monitoring Station: 11818 - INDIAN CREEK AT COMANCHE CR 304, 3.51 KILOMETERS UPSTREAM OF THE CONFLUENCE WITH THE LEON RIVER
- 1221D_02: Indian Creek, from confluence with Armstrong Creek upstream to headwaters of water body
Monitoring Station: 17542 - INDIAN CREEK AT SH 36 EAST OF COMANCHE
- 1221D_03: Indian Creek, from an unnamed tributary approximately 0.1 km upstream of US 377 upstream approximately 9.0 km to headwaters
- 1221F_01: Walnut Creek
Monitoring Station: 17379 - WALNUT CREEK AT FM 1476 SOUTH OF PROCTOR

Impairments in Watershed Description (Figure 4):

- 1221_06, 1221B_01, 1221D_01, 1221D_02: Recreational Use—Bacteria impairments.
 - There are also concerns for chlorophyll-*a* in 1221_06, concerns for chlorophyll-*a* and dissolved oxygen in 1221_07, concerns for chlorophyll-*a*, dissolved oxygen, Nitrate and Habitat in 1221B_01, concerns for chlorophyll-*a* and Total Phosphorus in 1221D_01, concerns for chlorophyll-*a*, Nitrate, Ammonia, and Total Phosphorus in 1221D_02, and concerns for chlorophyll-*a* and Nitrate in 1221F_01.

Possible Contributions if Impaired:

Point Sources:

- There are six cities and two municipal wastewater outfalls within the watershed. Cities responsible for wastewater treatment plants, combined sewer systems or municipal separate

storm sewer systems could create point source pollution contributing to bacterial and nutrient loads as a result of a system failure.

Non-point sources:

- Wildlife: There are significant herbaceous/shrubland and forested areas (~84%) in the watershed which is suitable for wildlife. A significant wildlife population can contribute to bacterial and nutrient loading.
- Agricultural runoff: Agricultural activity (~11%) in the watershed could also contribute to runoff, potentially introducing nutrient loads in planted/cultivated areas and bacterial loading from animal production agriculture.

Potential non-State Agency Stakeholders:

- City of Comanche
- City of Hasse
- City of Proctor
- City of Gustine
- City of Newburg
- City of Priddy
- Comanche County
- Erath County
- Mills County

Actions taken if impaired:

- The [Leon River Watershed Protection Plan](#) (WPP) addresses issues in segment 1221 which was first listed in 1996. In August 2023 a report entitled [Continued Coordination of the Leon River Watershed Protection Plan Implementation](#) was produced. This report highlights how the WPP has been successfully implemented through education.
- [RUAA](#)s were conducted in segments 1221 and 1221B (first listed in 2006) and resulted in both segments remaining classified as PCR segments.
- 1221D was first listed for bacteria in 2006. An RUAA has also been completed for [1221D_01](#), [_02](#). EPA approved the recommendation for the recreational use of this segment to be revised to secondary contact recreation 2 (SCR2).

Recommendations if impaired:

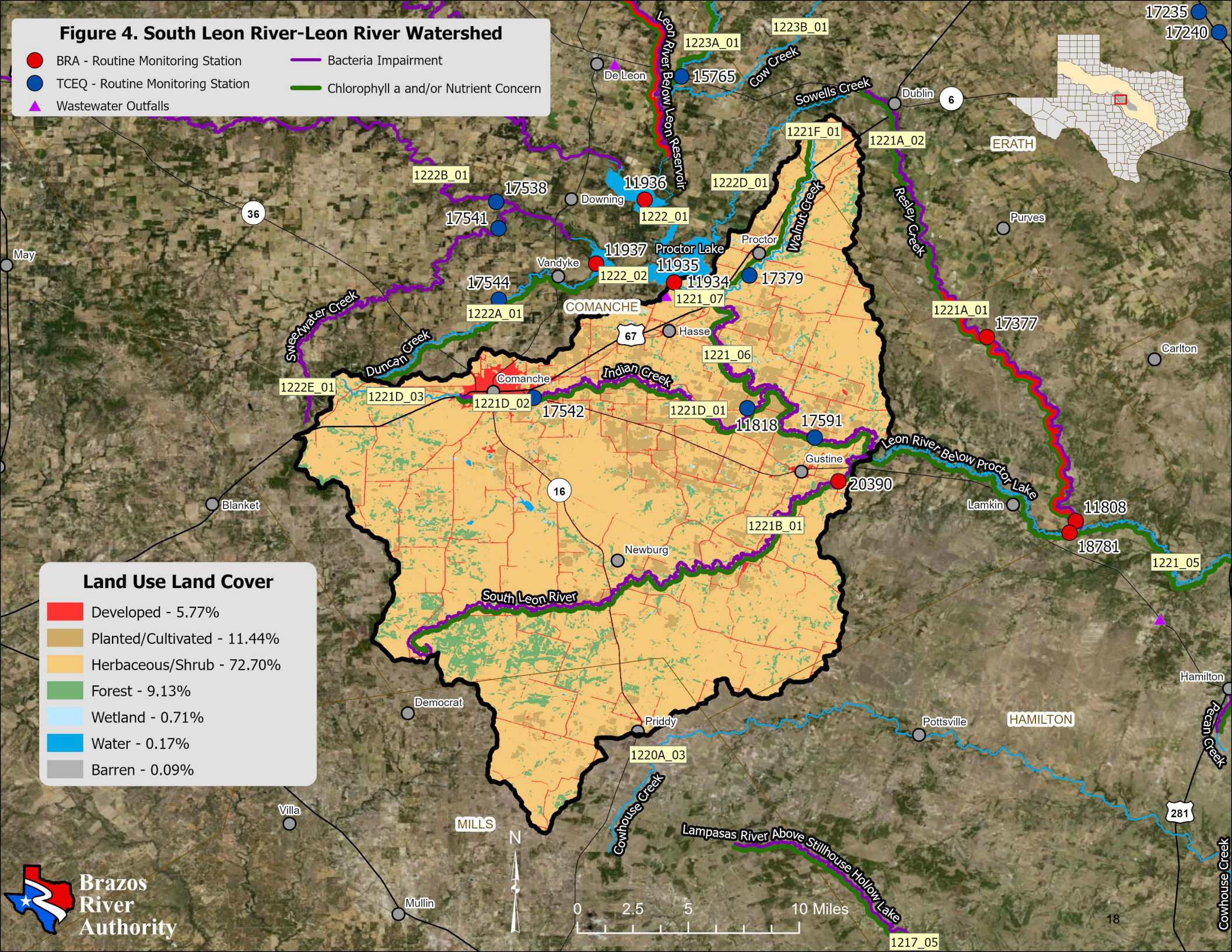
- Continue to follow and implement recommended best management practices outlined in the [Leon River WPP](#) and monitor for water quality improvements.
- A watershed characterization study, consisting of a set of water and habitat assessments compiling hydrology, geology, wildlife, LULC, and water quality data to inform on the best way to improve water quality in a watershed, may be appropriate for segments 1221_06 and 1221B.
- Continue routine water quality data collection and assessment based on the approved SCR2 standard for 1221D.

Figure 4. South Leon River-Leon River Watershed

- BRA - Routine Monitoring Station
- TCEQ - Routine Monitoring Station
- Bacteria Impairment
- Chlorophyll a and/or Nutrient Concern
- ▲ Wastewater Outfalls

Land Use Land Cover

	Developed - 5.77%
	Planted/Cultivated - 11.44%
	Herbaceous/Shrub - 72.70%
	Forest - 9.13%
	Wetland - 0.71%
	Water - 0.17%
	Barren - 0.09%



Resley Creek-Leon River Watershed

Watershed Description:

The Resley Creek-Leon River Watershed is 243 square miles in area.

Land Use Land Cover in Watershed (Figure 5):

There are four cities and one municipal wastewater outfall, indicated in the Potential non-State Agency Stakeholders section, in the watershed. The dominant land cover is herbaceous/shrub ($\approx 74\%$).

Segments in Watershed (Figure 5):

- 1221_05: Leon River below Lake Proctor, from confluence with Pecan Creek upstream to confluence with South Leon Creek
Monitoring Station: 18781 - LEON RIVER AT HAMILTON CR 109
- 1221A_01: Resley Creek, from confluence of Leon River upstream to confluence with unnamed tributary (NHD RC 12070201007823), approx. 1.0 mile N of Comanche County Line
Monitoring Station: 17377 - RESLEY CREEK AT FM 2823 WEST OF CARLTON C704 (Figure 5.1)



Monitoring Station: 11808 - RESLEY CREEK AT COMANCHE CR 394, 740 METERS UPSTREAM OF THE CONFLUENCE WITH THE LEON RIVER

- 1221A_02: Resley Creek, from confluence with unnamed tributary (NHD RC 12070201007823), upstream to headwaters in Erath County

Impairments in Watershed Description (Figure 5):

- 1221A_01: Recreational Use—Bacteria impairment; General Use—Depressed Dissolved Oxygen impairments
- 1221A_02: Recreational Use—Bacteria impairment

- There are concerns for chlorophyll-*a* in 1221A_01 and 1221A_02. There are also concerns for chlorophyll-*a* and depressed dissolved oxygen in 1221_05.

Possible Contributions if Impaired:

Point Sources:

- There are four cities and one municipal wastewater outfall in the watershed. Cities responsible for wastewater treatment plants, combined sewer systems or municipal separate storm sewer systems could create point source pollution contributing to bacterial and nutrient loads as a result of a system failure.

Non-point sources:

- Wildlife: There are significant herbaceous/shrubland and forested areas (~83%) in the watershed which is suitable for wildlife. A significant wildlife population can contribute to bacterial and nutrient loading.
- Agricultural runoff: Agricultural activity (~10%) in the watershed could also contribute to runoff, potentially introducing nutrient loads in planted/cultivated areas and bacterial loading from animal production agriculture.

Potential non-State Agency Stakeholders:

- City of Dublin
- City of Purves
- City of Carlton
- City of Lamkin
- Comanche County
- Erath County
- Hamilton County

Actions taken if impaired:

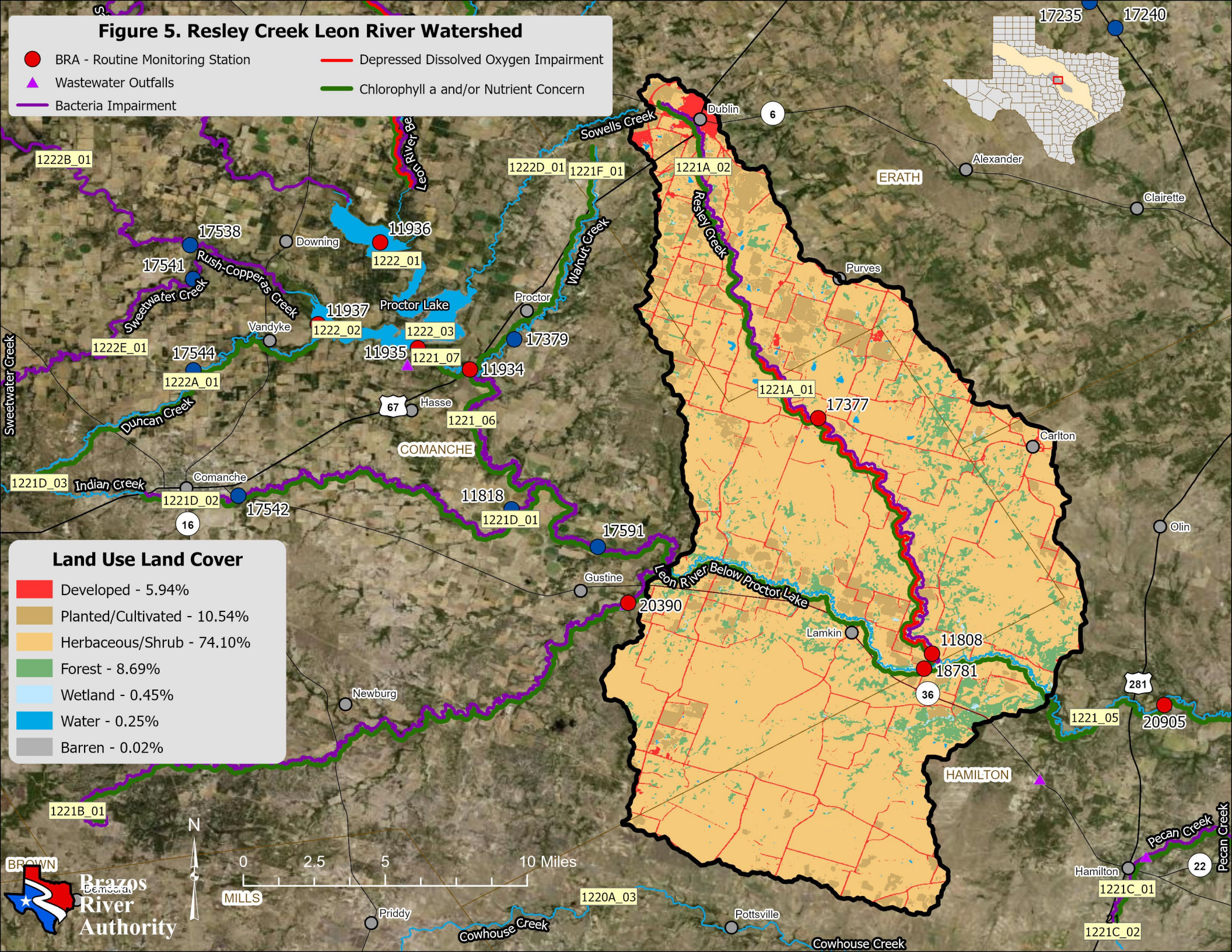
- The [Leon River WPP](#) addresses issues in segment 1221 (first listed in 1996) and many of its tributaries. In August 2023 a report entitled [Continued Coordination of the Leon River Watershed Protection Plan Implementation](#) was produced. This report highlights how the WPP has been successfully implemented through education.
- 1221A was first listed for bacteria in 2004. A Recreational Use Attainability Analysis ([RUAA](#)) was conducted in segment 1221A. EPA disapproved a contact recreation change. The segment remains classified as a PCR segment.

Recommendations if impaired:

- Continue to follow and implement recommended best management practices outlined in the Leon River WPP and monitor for water quality improvements.
- A watershed characterization study, consisting of a set of water and habitat assessments compiling hydrology, geology, wildlife, LULC, and water quality data to inform on the best way to improve water quality in a watershed, may be appropriate for 1221A.

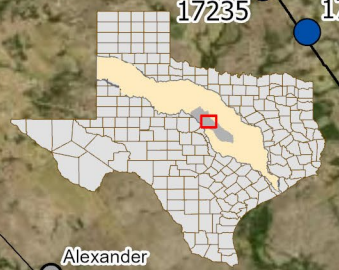
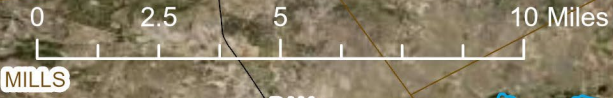
Figure 5. Resley Creek Leon River Watershed

- BRA - Routine Monitoring Station
- ▲ Wastewater Outfalls
- Bacteria Impairment
- Depressed Dissolved Oxygen Impairment
- Chlorophyll a and/or Nutrient Concern



Land Use Land Cover

- Developed - 5.94%
- Planted/Cultivated - 10.54%
- Herbaceous/Shrub - 74.10%
- Forest - 8.69%
- Wetland - 0.45%
- Water - 0.25%
- Barren - 0.02%



Pecan Creek-Leon River Watershed

Watershed Description:

The Pecan Creek-Leon River Watershed is 205 square miles in area.

Land Use Land Cover in Watershed (Figure 6):

There is one city and two municipal wastewater outfalls, indicated in the Potential non-State Agency Stakeholders section, in the watershed. The dominant land cover is herbaceous/shrub ($\approx 76\%$).

Segments in Watershed (Figure 6):

- 1221_05: Leon River below Lake Proctor, from confluence with Pecan Creek upstream to confluence with South Leon Creek
Monitoring Station: 20905 - LEON RIVER AT HAMILTON CR 203 NORTH OF HAMILTON
- 1221_04: Leon River Below Proctor Lake, From a point immediately upstream of the confluence of Plum Creek in Coryell County to Proctor Dam in Comanche County
- 1221C_01: Pecan Creek, Perennial stream from the confluence with the Leon River upstream to the confluence with an unnamed tributary approximately 3.5 km upstream of SH 36 near the City of Hamilton; App D
Monitoring Station: 17547 - PECAN CREEK AT SH 22 EAST OF HAMILTON (Figure 6.1)



- 1221C_02: Pecan Creek, From an unnamed tributary approximately 3.5 km upstream of SH 36 near the City of Hamilton to the headwaters approximately 1.5 km further upstream

Impairments in Watershed Description (Figure 6):

- 1221_04: Recreational Use—Bacteria impairment
- 1221C_01: Recreational Use—Bacteria impairment
 - There are concerns for chlorophyll-*a* in 1221_04 and 1221C_01.

Possible Contributions if Impaired:

Point Sources:

- There is one city and one municipal wastewater outfall in the watershed. Cities responsible for wastewater treatment plants, combined sewer systems or municipal separate storm sewer systems could create point source pollution contributing to bacterial and nutrient loads as a result of a system failure.

Non-point sources:

- Wildlife: There are significant herbaceous/shrubland and forested areas (~87%) in the watershed which is suitable for wildlife. A significant wildlife population can contribute to bacterial and nutrient loading.
- Agricultural runoff: Agricultural activity (~6%) in the watershed could also contribute to runoff, potentially introducing nutrient loads in planted/cultivated areas and bacterial loading from animal production agriculture.

Potential non-State Agency Stakeholders:

- City of Hamilton
- Hamilton County

Actions taken if impaired:

- The [Leon River WPP](#) addresses issues in segment 1221 (first listed in 1996) and many of its tributaries. In August 2023 a report entitled [Continued Coordination of the Leon River Watershed Protection Plan Implementation](#) was produced. This report highlights how the WPP has been successfully implemented through education.
- 1221C was first listed for bacteria in 2006. An RUAA has been completed for [1221C](#). Results led to the recommendation that segment 1221C remain classified as a PCR segment.

Recommendations if impaired:

- Continue to follow and implement recommended best management practices outlined in the Leon River WPP and monitor for water quality improvements.
- A watershed characterization study, consisting of a set of water and habitat assessments compiling hydrology, geology, wildlife, LULC, and water quality data to inform on the best way to improve water quality in a watershed, may be appropriate for 1221C.

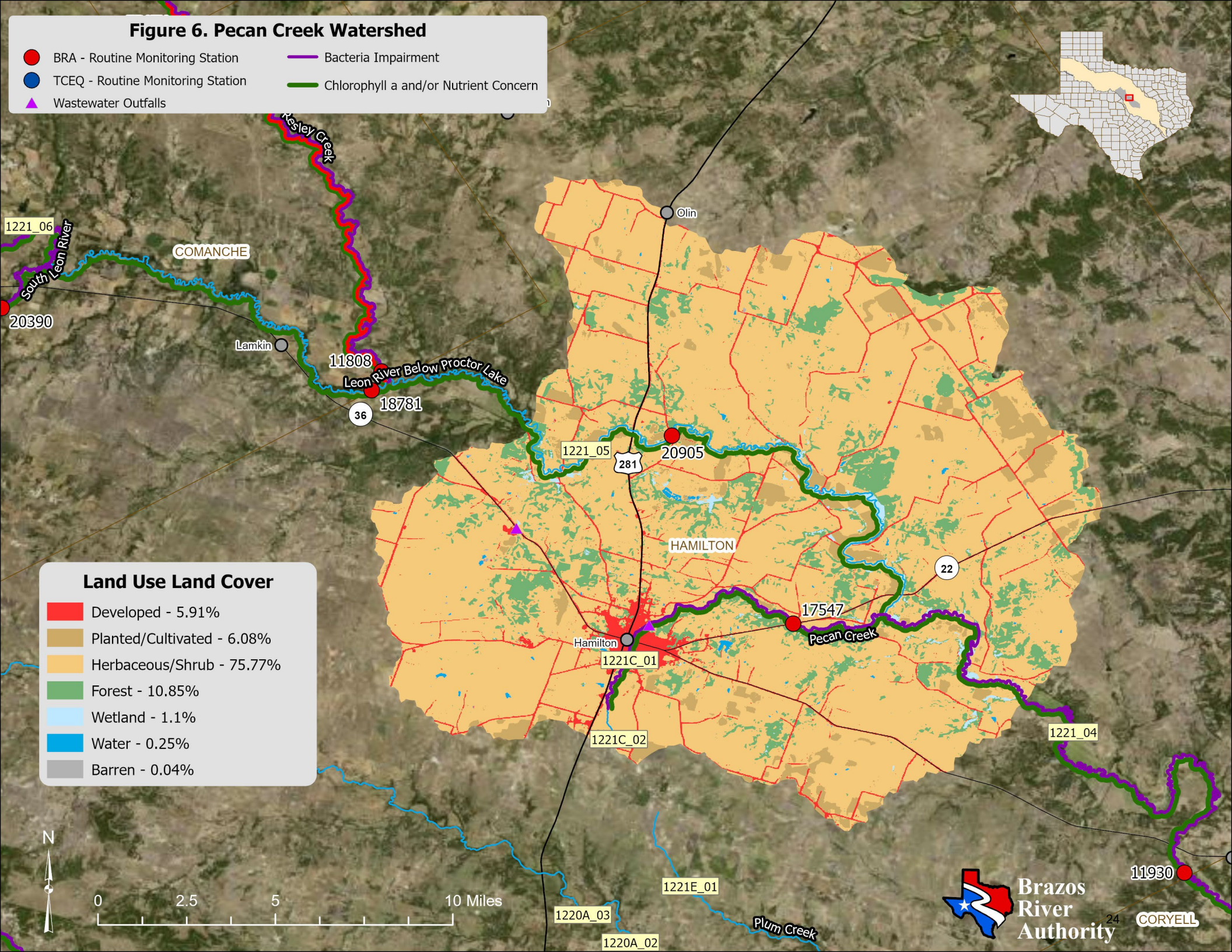
Figure 6. Pecan Creek Watershed

- BRA - Routine Monitoring Station
- TCEQ - Routine Monitoring Station
- ▲ Wastewater Outfalls
- Bacteria Impairment
- Chlorophyll a and/or Nutrient Concern



Land Use Land Cover

	Developed - 5.91%
	Planted/Cultivated - 6.08%
	Herbaceous/Shrub - 75.77%
	Forest - 10.85%
	Wetland - 1.1%
	Water - 0.25%
	Barren - 0.04%



Plum Creek Watershed

Watershed Description:

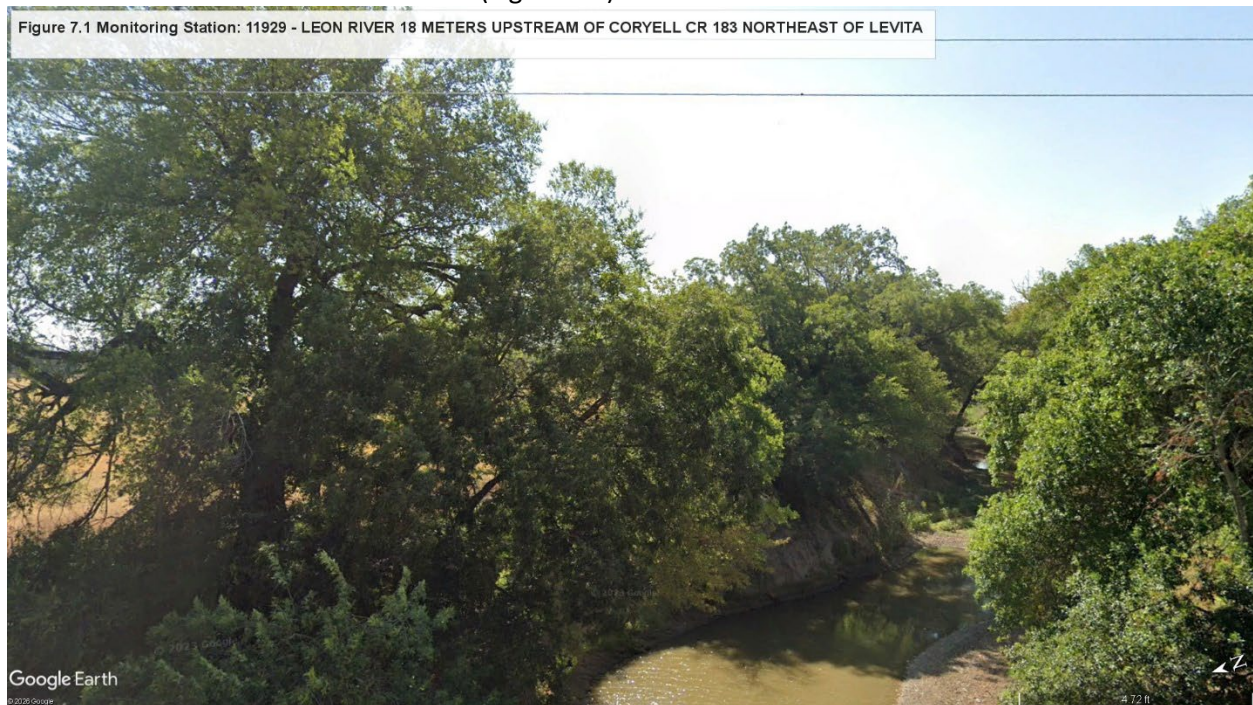
The Plum Creek Watershed is 210 square miles in area.

Land Use Land Cover in Watershed (Figure 7):

There is one city in the watershed, indicated in the Potential non-State Agency Stakeholders section. The dominant land cover is herbaceous/shrub ($\approx 70\%$).

Segments in Watershed (Figure 7):

- 1221_04: Leon River Below Proctor Lake, From a point immediately upstream of the confluence of Plum Creek in Coryell County to Proctor Dam in Comanche County
Monitoring Station: 11929 - LEON RIVER 18 METERS UPSTREAM OF CORYELL CR 183 NORTHEAST OF LEVITA (Figure 7.1)



Monitoring Station: 11930 - LEON RIVER AT HAMILTON CR 431

- 1221E_01: Plum Creek, From its confluence with the Leon River in Coryell county, upstream to its headwaters 2.4 mi east of US Hwy 281 in Hamilton County
Monitoring Station: 18405 - PLUM CREEK 10 M DOWNSTREAM OF CORYELL CR 106 NEAR LEVITA

Impairments in Watershed Description (Figure 7):

- 1221_04: Recreational Use—Bacteria Impairment
 - There is a concern for chlorophyll-*a* in 1221_04.

Possible Contributions if Impaired:**Point Sources:**

- There is one city in the watershed. Cities responsible for wastewater treatment plants, combined sewer systems or municipal separate storm sewer systems could create point source pollution contributing to bacterial and nutrient loads as a result of a system failure.

Non-point sources:

- **Wildlife:** There are significant herbaceous/shrubland and forested areas (~86%) in the watershed which is suitable for wildlife. A significant wildlife population can contribute to bacterial and nutrient loading.
- **Agricultural runoff:** Agricultural activity (~8%) in the watershed could also contribute to runoff, potentially introducing nutrient loads in planted/cultivated areas and bacterial loading from animal production agriculture.

Potential non-State Agency Stakeholders:

- City of Jonesboro
- Hamilton County
- Coryell County

Actions taken if impaired:

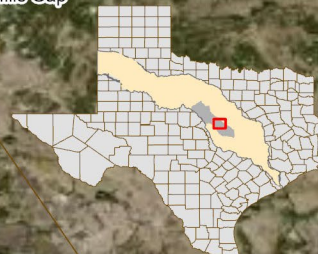
- The [Leon River WPP](#) addresses issues in segment 1221 (first listed in 1996) and many of its tributaries. In August 2023 a report entitled [Continued Coordination of the Leon River Watershed Protection Plan Implementation](#) was produced. This report highlights how the WPP has been successfully implemented through education.

Recommendations if impaired:

- Continue to follow and implement recommended best management practices outlined in the Leon River WPP and monitor for water quality improvements.

Figure 7. Plum Creek Watershed

- BRA - Routine Monitoring Station
- Bacteria Impairment
- ▲ Wastewater Outfalls
- Chlorophyll a and/or Nutrient Concern



Land Use Land Cover

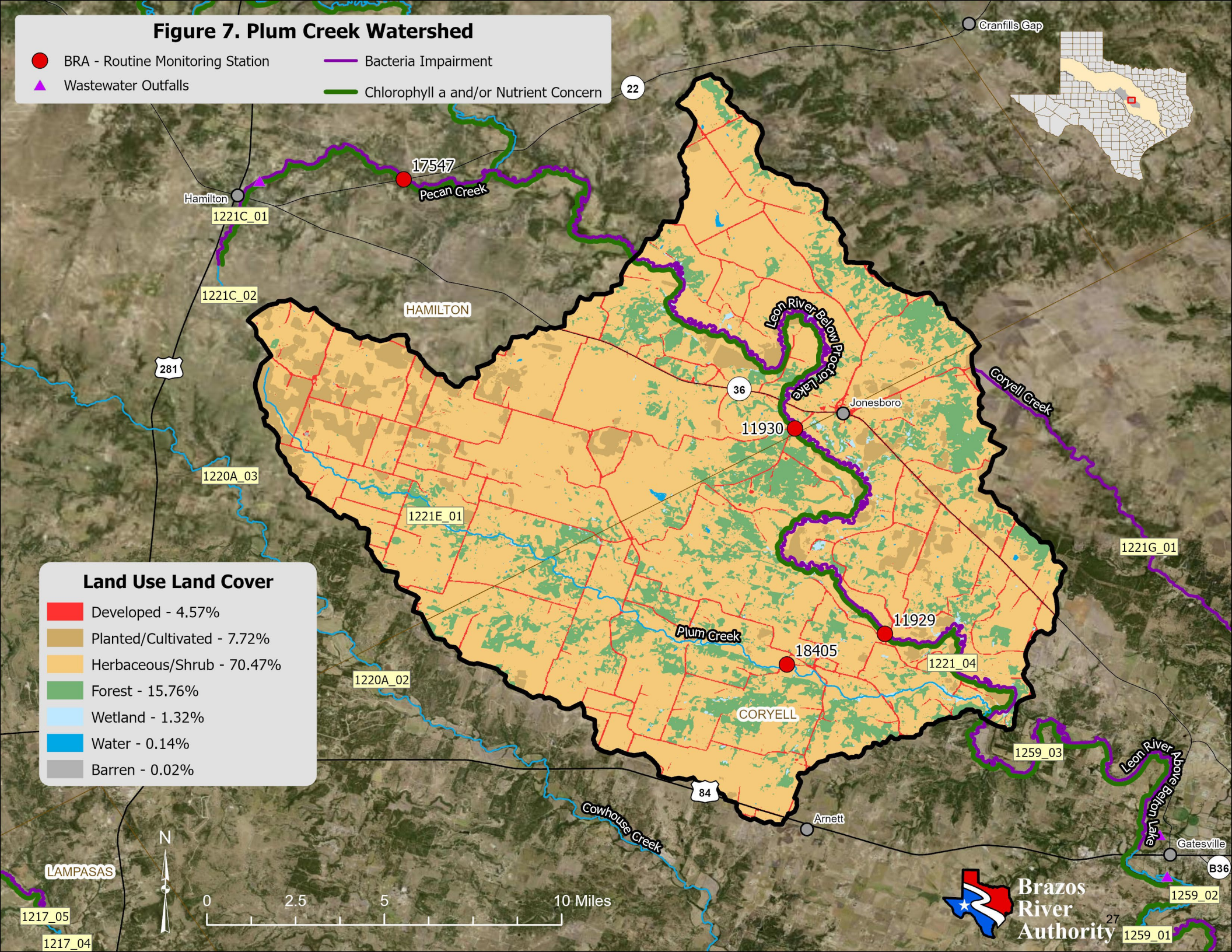
	Developed - 4.57%
	Planted/Cultivated - 7.72%
	Herbaceous/Shrub - 70.47%
	Forest - 15.76%
	Wetland - 1.32%
	Water - 0.14%
	Barren - 0.02%



0 2.5 5 10 Miles



Brazos River Authority



Coryell Creek-Leon River Watershed

Watershed Description:

The Coryell Creek-Leon River Watershed is 316 square miles in area.

Land Use Land Cover in Watershed (Figure 8):

There are seven cities and four wastewater outfalls, indicated in the Potential non-State Agency Stakeholders section, in the watershed. The dominant land cover is herbaceous/shrub land ($\approx 62\%$).

Segments in Watershed (Figure 8):

- 1259_03: Leon River Above Belton Lake, from the confluence with Stillhouse Creek upstream to a point immediately upstream of the confluence with Plum Creek
- 1259_02: Leon River Above Belton Lake, portion of Leon River from confluence with Cottonwood Creek approximately 2.8 km south of Gatesville upstream to the confluence with Stillhouse Branch in Coryell County
- 1259_01: Leon River Above Belton Lake, portion of Leon River from confluence with Lake Belton upstream to confluence with Cottonwood Creek approximately 2.8 km south of Gatesville in Coryell County

Monitoring Station: 11925 - LEON RIVER IMMEDIATELY DOWNSTREAM OF FM 1829 SOUTHEAST OF NORTH FORT HOOD (Figure 8.1)



- 1221G_01: Coryell Creek, Coryell Creek from the confluence of the Leon River west of Gatesville upstream to headwater at Coryell CR 219 north of Gatesville
Monitoring Station: 11804 - CORYELL CREEK 51 METERS DOWNSTREAM OF FM 107, 1.9 KM UPSTREAM OF CONFLUENCE WITH LEON RIVER

Impairments in Watershed Description (Figure 8):

- 1259_03: Recreational Use—Bacteria impairment
- 1259_01: Recreational Use—Bacteria impairment

- 1221G_01: Recreational Use—Bacteria impairment
 - There are concerns for chlorophyll-*a* in 1259_03 and 1259_01, nitrate in 1259_02, and dissolved oxygen in 1221G_01.

Possible Contributions if Impaired:

Point Sources:

- There are seven cities and four municipal wastewater outfalls within the watershed. Cities responsible for wastewater treatment plants, combined sewer systems or municipal separate storm sewer systems could create point source pollution contributing to bacterial and nutrient loads as a result of a system failure.

Non-point sources:

- Wildlife: There are significant herbaceous/shrubland and forested areas (~82%) in the watershed which is suitable for wildlife. A significant wildlife population can contribute to bacterial and nutrient loading.
- Agricultural runoff: Agricultural activity (~7%) in the watershed could also contribute to runoff, potentially introducing nutrient loads in planted/cultivated areas and bacterial loading in animal production agriculture.

Potential non-State Agency Stakeholders:

- City of Arnett
- City of Gatesville
- City of South Mountain
- City of Fort Gates
- City of Flat
- City of Leon Junction
- City of Oglesby
- Fort Hood Military Base
- Coryell County

Actions taken if impaired:

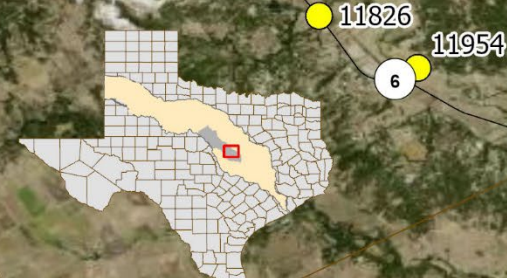
- The [Leon River WPP](#) addresses issues in segments 1221 and 1259 (first listed in 1996) and many of their tributaries. In August 2023 a report entitled [Continued Coordination of the Leon River Watershed Protection Plan Implementation](#) was produced. This report highlights how the WPP has been successfully implemented through education.
- An [RUAA](#) has been conducted in segments 1221 and 1259 and results have led to the recommendation that the recreational use of the segments remain classified as a PCR segment.

Recommendations if impaired:

- Continue to follow and implement recommended best management practices outlined in the Leon River WPP and monitor for water quality improvements.
- For 1221G, which was first listed in 2020, a watershed characterization study, consisting of a set of water and habitat assessments compiling hydrology, geology, wildlife, LULC, and water quality data to inform on the best way to improve water quality in a watershed, may be appropriate.

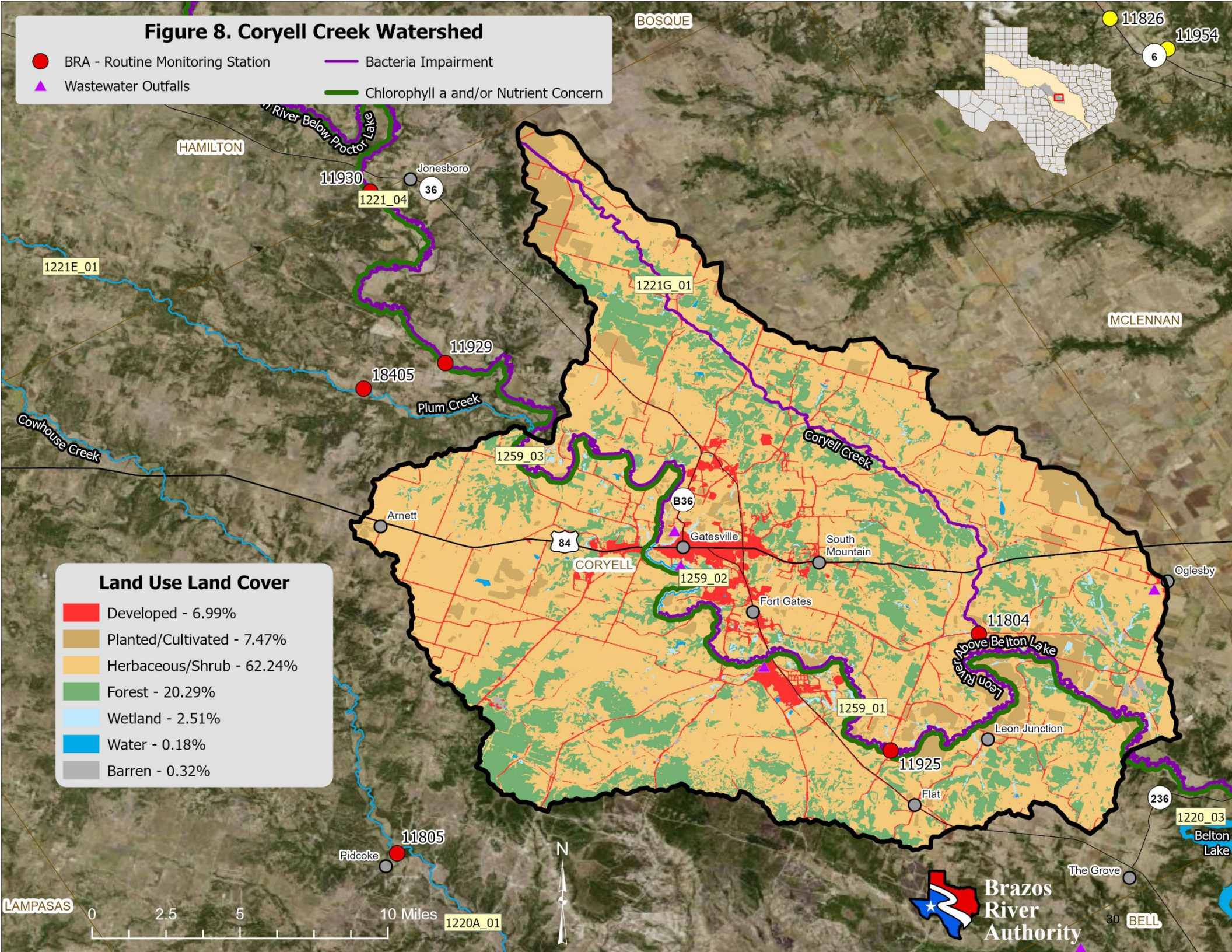
Figure 8. Coryell Creek Watershed

- BRA - Routine Monitoring Station
- Bacteria Impairment
- ▲ Wastewater Outfalls
- Chlorophyll a and/or Nutrient Concern



Land Use Land Cover

	Developed - 6.99%
	Planted/Cultivated - 7.47%
	Herbaceous/Shrub - 62.24%
	Forest - 20.29%
	Wetland - 2.51%
	Water - 0.18%
	Barren - 0.32%



Belton Lake Watershed

Watershed Description:

The Belton Lake Watershed is 220 square miles in area.

Land Use Land Cover in Watershed (Figure 9):

There are five cities and three wastewater outfalls, indicated in the Potential non-State Agency Stakeholders section, in the watershed. The dominant land cover is herbaceous/shrub land ($\approx 65\%$).

Segments in Watershed (Figure 9):

- 1259_01: Downstream portion of Leon River Above Belton Lake, portion of Leon River from confluence with Lake Belton upstream to confluence with Cottonwood Creek approximately 2.8 km south of Gatesville in Coryell County
- 1220_01: From Belton Dam in Bell County to a point 100 meters (110 yards) upstream of FM 236 in Coryell County, up to the normal pool elevation of 594 feet (impounds Leon River)
Monitoring Station: 20835 - BELTON LAKE 629M NORTH AND 157M EAST OF THE BOAT RAMP AT WESTCLIFF PARK
- 1220_03: From Belton Dam in Bell County to a point 100 meters (110 yards) upstream of FM 236 in Coryell County, up to the normal pool elevation of 594 feet (impounds Leon River)
Monitoring Station: 11923 - BELTON RESERVOIR LEON RIVER ARM NEAR HEADWATERS 626 METERS N AND 288 METERS W OF INTERSECTION OF KUIKENDALL RD AND MC GREGOR PARK RD
Monitoring Station: 18798 - BELTON LAKE IN OWL CREEK ARM 313 M NORTH AND 265 M WEST OF BOAT RAMP AT OWL CREEK PARK

Impairments in Watershed Description (Figure 9):

- 1259_01: Recreational Use—Bacteria impairment
 - There are concerns for chlorophyll-*a* in 1259_01.

Possible Contributions if Impaired:

Point Sources:

- There are five cities and three wastewater outfalls within the watershed. However, these potential point sources are downstream of the impairment and are not contributors. No point sources are identified in this watershed for this impairment.

Non-point sources:

- Wildlife: Adjacent to the impaired portion of the segment is herbaceous/shrubland which is suitable for wildlife. A significant wildlife population can contribute to bacterial and nutrient loading.
- Agricultural runoff: Adjacent agricultural activity in the watershed could also contribute to runoff, potentially introducing nutrient loads in planted/cultivated areas and bacterial loading from animal production agriculture.

Potential non-State Agency Stakeholders:

- City of The Grove
- City of Moffat
- City of Jubilee Springs

- City of Morgan's Point
- City Moody
- City of Leon Junction
- City of Oglesby
- Bell County
- Coryell County
- McLennan County
- Marinas and businesses reliant on Belton Lake

Actions taken if impaired:

- The [Leon River WPP](#) addresses issues in segment 1259 (first listed in 1996) and many of their tributaries. In August 2023 a report entitled [Continued Coordination of the Leon River Watershed Protection Plan Implementation](#) was produced. This report highlights how the WPP has been successfully implemented through education.
- An [RUAA](#) has been conducted in segments 1221 and 1259 and results have led to the recommendation that the recreational use of the segment remain classified as a PCR segment.

Recommendations if impaired:

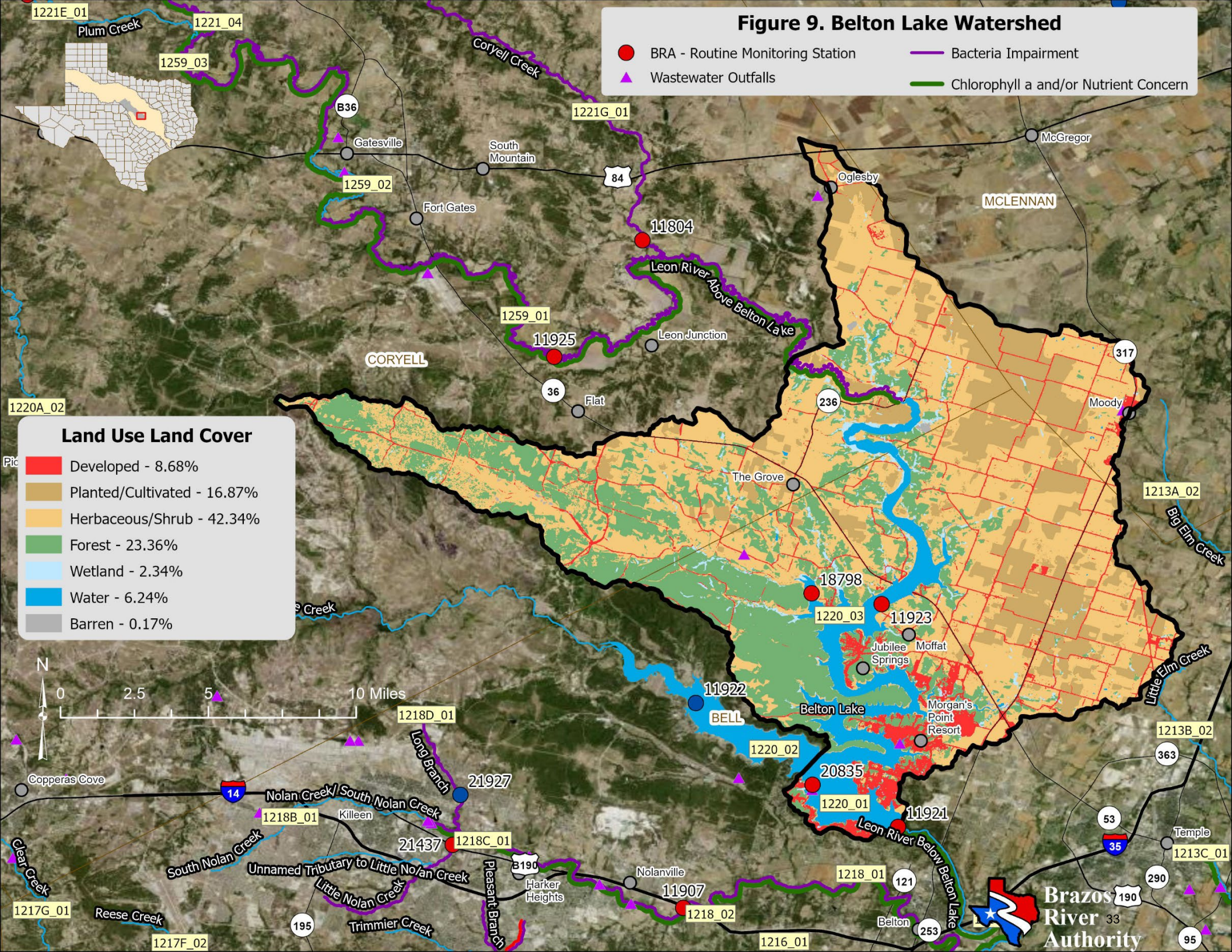
- Continue to follow and implement recommended best management practices outlined in the Leon River WPP and monitor for water quality improvements.

Figure 9. Belton Lake Watershed

- BRA - Routine Monitoring Station
- Bacteria Impairment
- ▲ Wastewater Outfalls
- Chlorophyll a and/or Nutrient Concern

Land Use Land Cover

■	Developed - 8.68%
■	Planted/Cultivated - 16.87%
■	Herbaceous/Shrub - 42.34%
■	Forest - 23.36%
■	Wetland - 2.34%
■	Water - 6.24%
■	Barren - 0.17%



Nolan Creek-Leon River Watershed

Watershed Description:

The Nolan Creek-Leon River Watershed is 178 square miles in area.

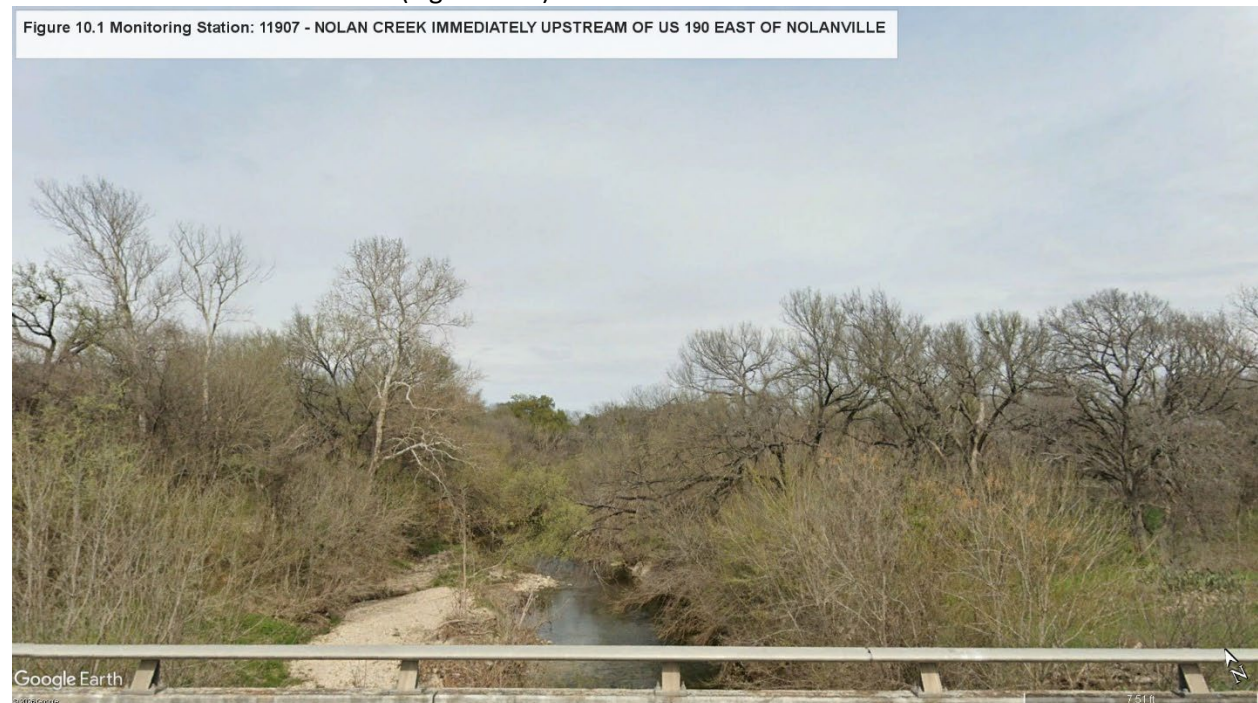
Land Use Land Cover in Watershed (Figure 10):

There are five cities and eight wastewater outfalls, indicated in the Potential non-State Agency Stakeholders section, within the watershed. Dominant landcover includes developed land ($\approx 49\%$) and herbaceous/shrub land ($\approx 24\%$), with a moderate amount of forested land ($\approx 15\%$).

Segments in Watershed (Figure 10):

- 1218_01: Nolan Creek/South Nolan Creek, portion of Nolan Creek from the confluence with the Leon River upstream to confluence with North Nolan/South Nolan Creek fork in Bell County
- 1218_02: Nolan Creek/South Nolan Creek, portion of South Nolan Creek from confluence with North Nolan/Nolan Creek fork upstream to confluence with Liberty Ditch in city of Killeen in Bell County

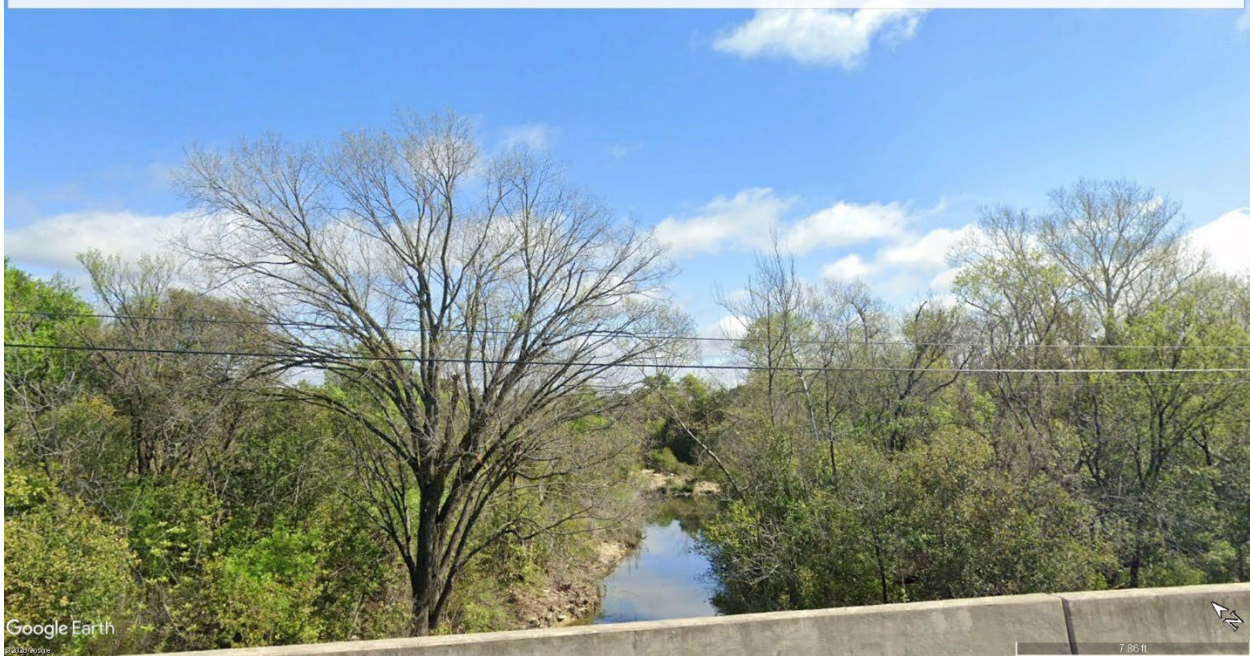
Monitoring Station: 11907 - NOLAN CREEK IMMEDIATELY UPSTREAM OF US 190 EAST OF NOLANVILLE (Figure 10.1)



- 1218_03: Nolan Creek/South Nolan Creek, portion of South Nolan Creek from confluence with Liberty Ditch in Killeen upstream to a point 100 meters upstream of the most upstream crossing of US 190 near the intersection of US 190 and Loop 172 in Bell County
- 1218A_01: Unnamed tributary to Little Nolan Creek
- 1218B_01: South Nolan Creek
- 1218C_01: Little Nolan Creek

Monitoring Station: 21437 - LITTLE NOLAN CREEK IMMEDIATELY DOWNSTREAM OF US 190 BUSINESS AND 2.06 KILOMETERS UPSTREAM OF THE CONFLUENCE WITH SOUTH NOLAN CREEK IN KILLEEN (Figure 10.2)

Figure 10.2 Monitoring Station: 21437 - LITTLE NOLAN CREEK DOWNSTREAM OF US 190 BUSINESS AND UPSTREAM OF THE CONFLUENCE WITH S NOLAN CREEK



- 1218D_01: Long Branch, Long Branch from the confluence with Nolan Creek/South Nolan Creek in Killeen upstream to the headwaters on the Fort Hood Military Reservation north of Killeen
Monitoring Station: 21927 - LONG BRANCH AT LAKE ROAD IN KILLEEN 2.48 KILOMETERS UPSTREAM OF THE CONFLUENCE WITH SOUTH NOLAN CREEK (Figure 10.3)

Figure 10.3 Monitoring Station: 21927 - LONG BRANCH AT LAKE ROAD IN KILLEEN UPSTREAM OF THE CONFLUENCE WITH SOUTH NOLAN CREEK



- 1219_01: Leon River below Lake Belton, From the confluence with the Lampasas River in Bell County to Belton Dam in Bell County
Monitoring Station: 11916 - LEON RIVER AT FM 436 WEST OF LITTLE RIVER (Figure 10.4)



Impairments in Watershed Description (Figure 10):

- 1218_01 and 1218_02: Recreational Use—Bacteria impairments
 - There are concerns for nitrate and total phosphorus in 1218_01, 1218_02 and 1219_01. There is a bacteria concern in 1218A_01.
- 1218C_01: Recreational Use—Bacteria impairment
- 1218D_01: Recreational Use—Bacteria impairment

Possible Contributions if Impaired:

Point Sources:

- There are five cities and eight wastewater outfalls in this watershed. Cities responsible for wastewater treatment plants, combined sewer systems or municipal separate storm sewer systems could create point source pollution contributing to bacterial and nutrient loads as a result of a system failure.

Non-point sources:

- Urban runoff: There are five cities making up large developed areas in both the western and eastern portions this watershed. Approximately 49% of the watershed is developed. There was a 12% increase in developed area as compared to land use coverage ten years ago, increasing the potential for bacterial and nutrient loading.
- Wildlife: Herbaceous/shrub and forested areas account for approximately 39% of the watershed which is suitable for wildlife. This, however, is a 10% reduction in coverage from ten years ago. A significant wildlife population can contribute to bacterial and nutrient loading.

- Agricultural runoff: Agricultural activity ($\approx 7\%$) in the watershed could also contribute to runoff. This was a 3% decrease in coverage over the same period, potentially introducing nutrient loads in planted/cultivated areas and bacterial loading from animal production agriculture.

Potential non-State Agency Stakeholders:

- City of Killeen
- City of Harker Heights
- City of Nolanville
- City of Belton
- City of Temple
- Fort Hood Military Base
- Bell County
- Coryell County

Actions taken if impaired:

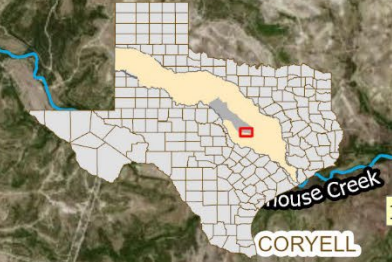
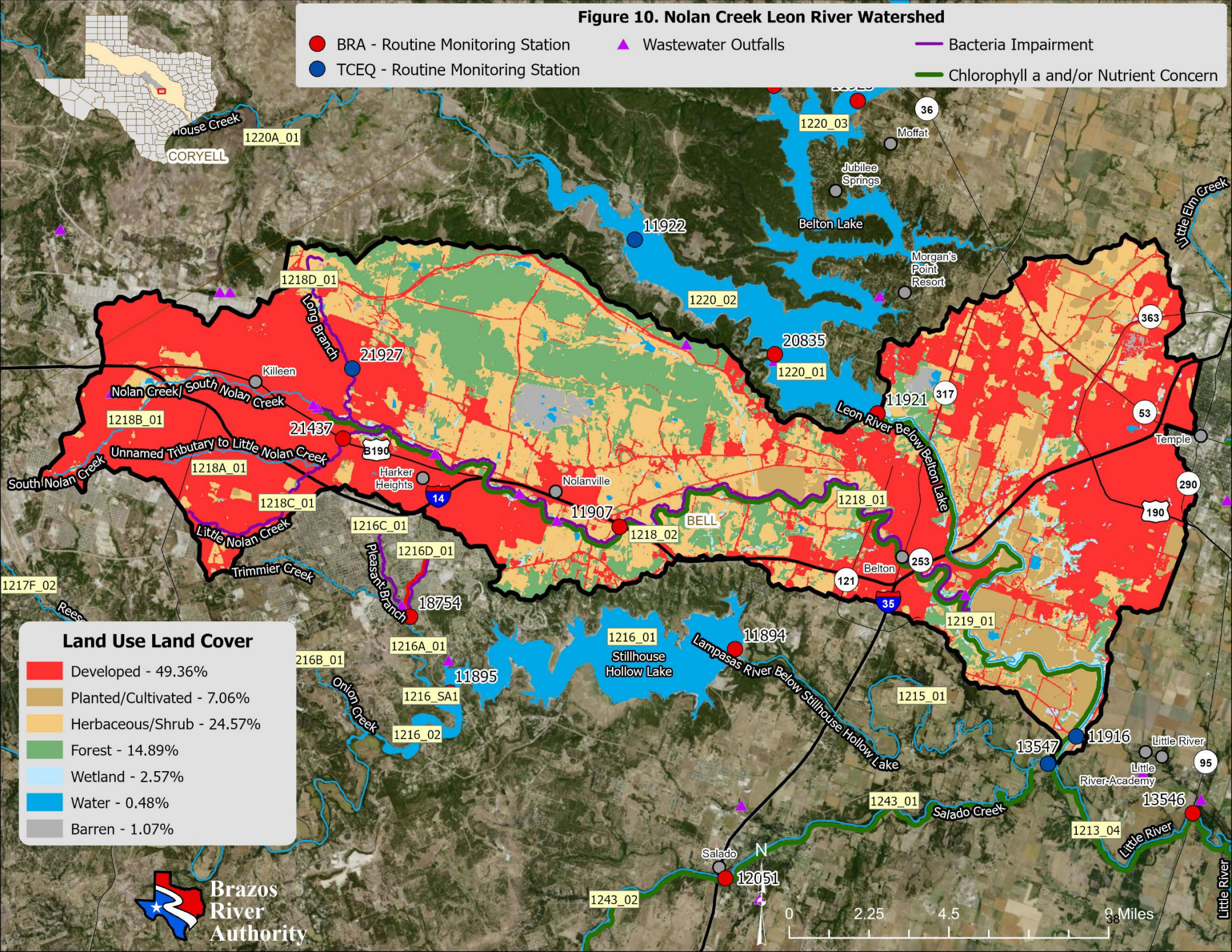
- The [Nolan Creek/South Nolan Creek Watershed Protection Plan](#) is addressing issues in segment 1218 which was first listed for bacteria in 1996. For more information on the Nolan Creek WPP please visit the [Nolan Creek Matters website](#).
- An [RUAA](#) was conducted in segment 1218 and results led to the recommendation that the recreational use of the segment remain classified as a PCR segment.

Recommendations if impaired:

- Continue to follow and implement recommended best management practices outlined in the Nolan Creek/South Nolan Creek WPP and monitor for water quality improvements.

Figure 10. Nolan Creek Leon River Watershed

- BRA - Routine Monitoring Station
- TCEQ - Routine Monitoring Station
- ▲ Wastewater Outfalls
- Bacteria Impairment
- Chlorophyll a and/or Nutrient Concern

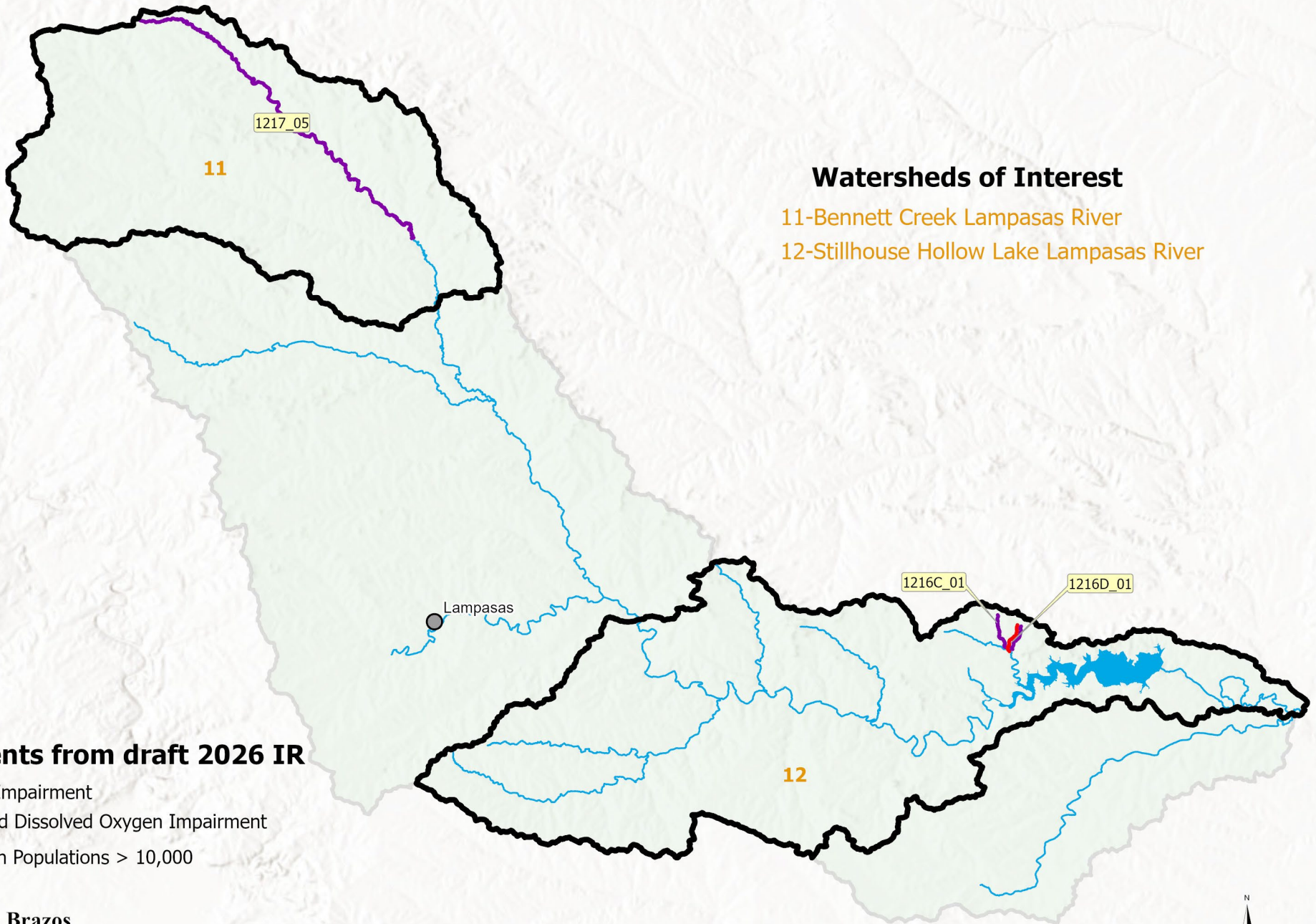


Land Use Land Cover	
■	Developed - 49.36%
■	Planted/Cultivated - 7.06%
■	Herbaceous/Shrub - 24.57%
■	Forest - 14.89%
■	Wetland - 2.57%
■	Water - 0.48%
■	Barren - 1.07%



Lampapas River Watershed




The Lampapas River Watershed drains approximately 1,502 square miles through Lampapas and portions of Mills, Burnet, Williamson and Bell Counties. Land use is predominantly agricultural, although development has increased around Stillhouse Hollow Lake. The majority of the Lampapas River watershed drains into Stillhouse Hollow Lake. Salado Creek drains into the Lampapas River below Stillhouse Hollow Lake before the confluence with the Leon River. Much of the Lampapas River has heavily vegetated banks and is characterized by low flow conditions much of the time.

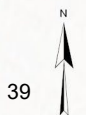
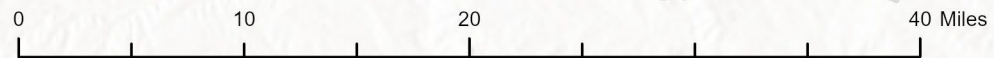


Watersheds of Interest

- 11-Bennett Creek Lampapas River
- 12-Stillhouse Hollow Lake Lampapas River

Impairments from draft 2026 IR

-  Bacteria Impairment
-  Depressed Dissolved Oxygen Impairment
-  Cities with Populations > 10,000



Bennett Creek Watershed

Watershed Description:

The Bennett Creek Watershed is 308 square miles in area.

Land Use Land Cover in Watershed (Figure 11):

There are two cities and no wastewater outfall, indicated in the Potential non-State Agency Stakeholders section, within the watershed. The majority of land in the watershed is herbaceous/shrubland ($\approx 86\%$).

Segments in Watershed (Figure 11):

- Upstream portion of 1217_04: Lampasas River above Stillhouse Hollow Lake, Portion of Lampasas River from confluence with Simms Creek upstream to confluence with Bennett Creek in Lampasas County.
Monitoring Station: 15770 - LAMPASAS RIVER IMMEDIATELY UPSTREAM OF LAMPASAS CR 2925 FORMERLY KNOWN AS LAMPASAS CR 105 AND 10.5 KM NORTH OF ADAMSVILLE
- 1217_05: Lampasas River above Stillhouse Hollow Lake, Portion of Lampasas River from confluence with Bennett Creek upstream to its headwaters in Mills County.
Monitoring Station: 15762 - LAMPASAS RIVER IMMEDIATELY UPSTREAM OF US 84 7 MILES NORTHWEST OF EVANT (Figure 11.1)



Impairments in Watershed Description (Figure 11):

- 1217_05: Recreational Use—Bacteria impairment.
 - 1217_05 also has DO and chlorophyll-a concerns.

Possible Contributions if Impaired:

Point Sources:

- There are two cities and no municipal wastewater outfalls within the watershed. Cities responsible for wastewater treatment plants, combined sewer systems or municipal separate storm sewer systems could create point source pollution contributing to bacterial and nutrient loads as a result of a system failure.

Non-point sources:

- Wildlife: There are significant herbaceous/shrubland and forested areas (~93%) in the watershed which is suitable for wildlife. A significant wildlife population can contribute to bacterial and nutrient loading.

Potential non-State Agency Stakeholders:

- City of Star
- City of Center City
- Hamilton County
- Mills County
- Lampasas County

Actions taken if impaired:

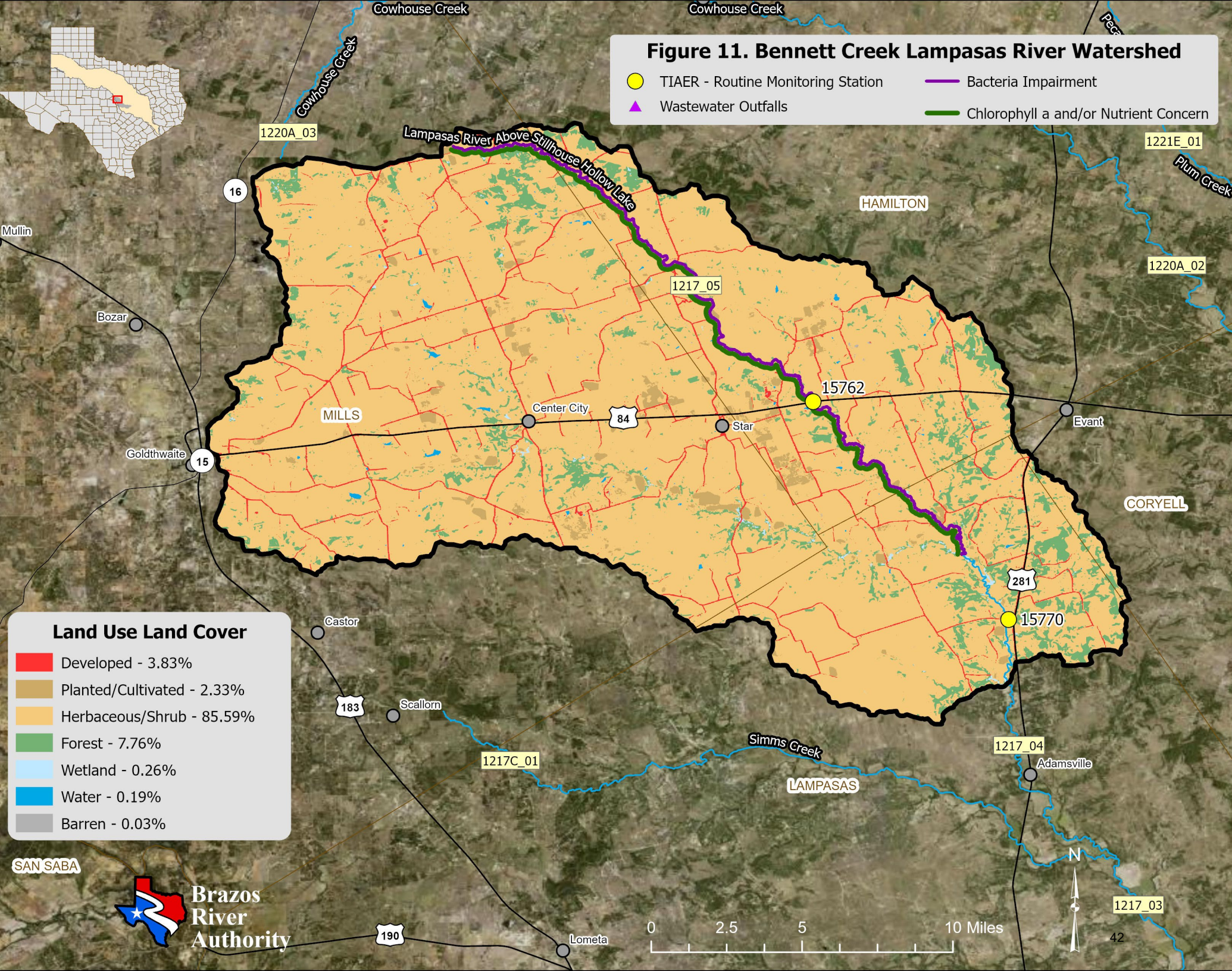
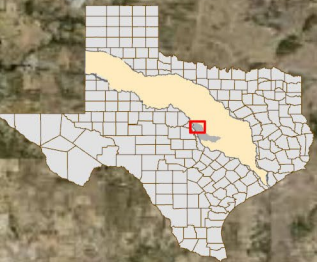
The [Lampasas River Watershed Protection Plan](#) addresses water quality issues in the Lampasas River Watershed.

Recommendations if impaired:








Continue to follow and implement recommended best management practices outlined in the Lampasas River WPP and monitor for water quality improvements.

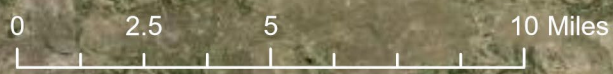
Figure 11. Bennett Creek Lampasas River Watershed

-  TIAER - Routine Monitoring Station
-  Bacteria Impairment
-  Wastewater Outfalls
-  Chlorophyll a and/or Nutrient Concern



Land Use Land Cover

	Developed - 3.83%
	Planted/Cultivated - 2.33%
	Herbaceous/Shrub - 85.59%
	Forest - 7.76%
	Wetland - 0.26%
	Water - 0.19%
	Barren - 0.03%



42

Stillhouse Hollow Lake Watershed

Watershed Description:

The Stillhouse Hollow Lake Watershed is 428 square miles in area.

Land Use Land Cover in Watershed (Figure 12):

There are six cities and three wastewater outfalls, indicated in the Potential non-State Agency Stakeholders section, in the watershed. The dominant landcover is herbaceous/shrubland ($\approx 60\%$), with a moderate amount of forested land ($\approx 22\%$). Developed land cover is in the northern area of the watershed and coverage is $\approx 12\%$. Stillhouse Hollow Lake is entirely within this watershed.

Segments in Watershed (Figure 12):

- 1215_01: Lampasas River below Stillhouse Hollow Lake
Monitoring Station: 13547 - LAMPASAS RIVER IMMEDIATELY DOWNSTREAM OF DICE GROVE RD SOUTHWEST OF FORT GRIFFIN (Figure 12.1)



- 1216_01: Stillhouse Hollow Lake, main body of lake
Monitoring Stations:
11895 - STILLHOUSE HOLLOW LAKE MID-LAKE AT LAMPASAS RIVER ARM APPROXIMATELY 60 METERS UPSTREAM OF STILLHOUSE HOLLOW RD/FM 3481
11894 - STILLHOUSE HOLLOW LAKE NEAR DAM 441 METERS SOUTH AND 302 METERS WEST OF NORTHERN EDGE OF DAM SITE AC USGS 310129097315901
- 1216_02: Stillhouse Hollow Lake, riverine portion of reservoir
- 1216_SA1: Stillhouse Hollow Lake, Branch Cove associated with main body of lake
- 1216A_01: Trimmier Creek
Monitoring Station: 18754 - TRIMMIER CREEK IMMEDIATELY UPSTREAM OF CHAPARRAL RD WEST OF FM 3481 (Figure 12.2)

Figure 12.2 Monitoring Station: 18754 - TRIMMIER CREEK IMMEDIATELY UPSTREAM OF CHAPARRAL RD WEST OF FM 3481

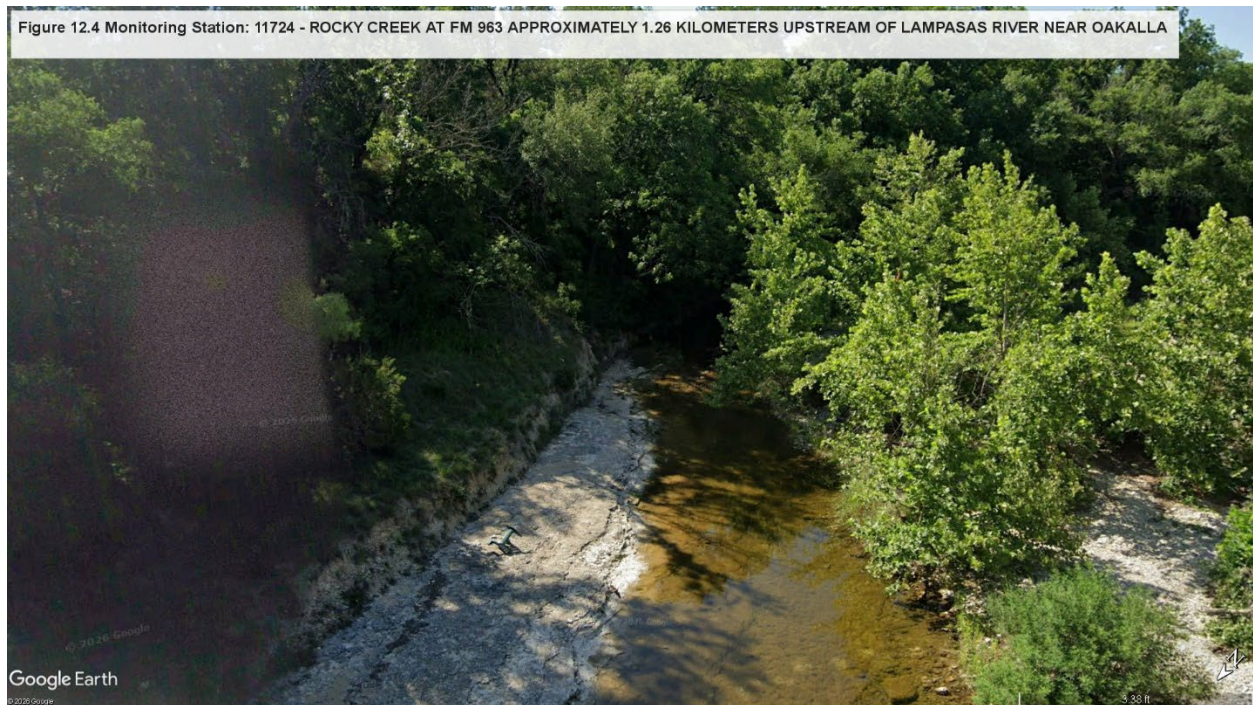


- 1216B_01: Onion Creek
- 1216C_01: Pleasant Branch
- 1216D_01: Unnamed Tributary to Trimmier Creek
- 1217_01: Lampasas River above Stillhouse Hollow Lake, from confluence with Rock Creek in Bell County upstream to confluence with Mesquite Creek west of Kempner in Lampasas County
Monitoring Station: 11896 - LAMPASAS RIVER AT SH 195 APPROXIMATELY 2.1 KILOMETERS DOWNSTREAM OF REESE CREEK CONFLUENCE SOUTH OF KILLEEN Figure 12.3)

Figure 12.3 Monitoring Station: 11896 - LAMPASAS RIVER AT SH 195 DOWNSTREAM OF REESE CREEK CONFLUENCE SOUTH OF KILLEEN

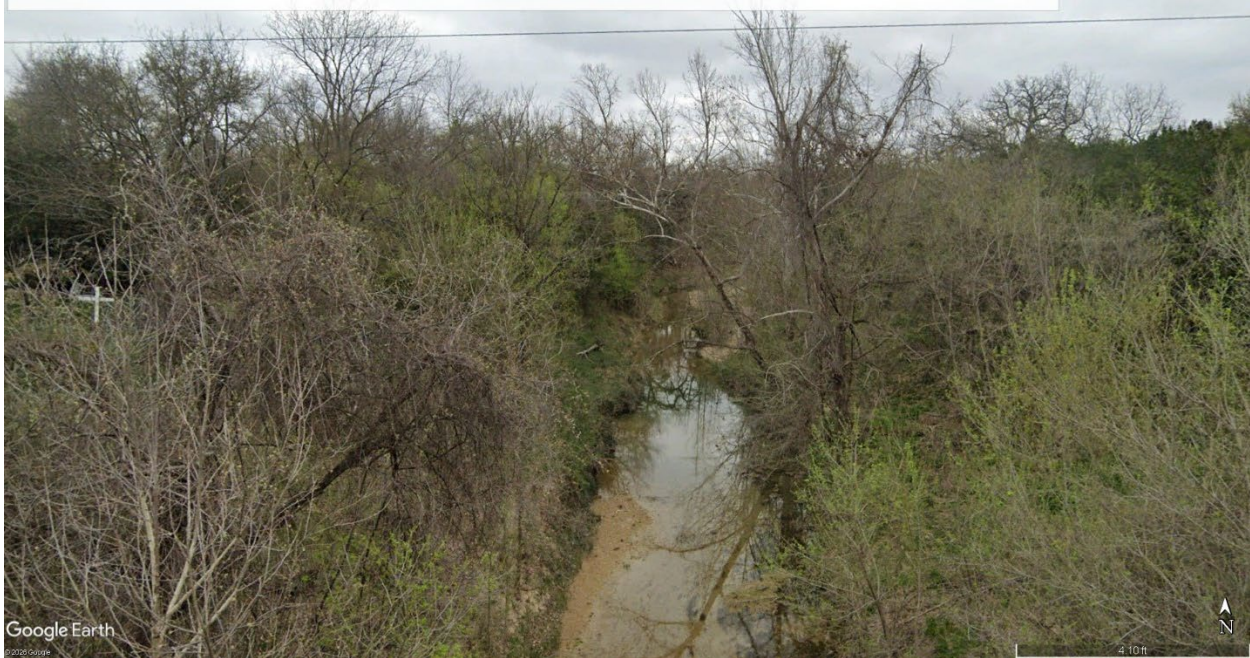


- 1217A_01: Rocky Creek
Monitoring Station: 11724 - ROCKY CREEK AT FM 963 APPROXIMATELY 1.26 KILOMETERS UPSTREAM OF LAMPASAS RIVER NEAR OAKALLA (Figure 12.4)



- 1217D_01: North Rocky Creek
- 1217E_01: South Rocky Creek
- 1217F_01: Reese Creek, from confluence with Lampasas River above Stillhouse Hollow Lake upstream to confluence with unnamed tributary (NHD reach code 12070203002555)
Monitoring Station: 18759 - REESE CREEK 33 METERS DOWNSTREAM OF FM 2670 APPROXIMATELY 625 METERS UPSTREAM OF CONFLUENCE WITH LAMPASAS RIVER (Figure 12.5)

Figure 12.5 Monitoring Station: 18759 - REESE CREEK DOWNSTREAM OF FM 2670 UPSTREAM OF CONFLUENCE WITH LAMPASAS RIVER



- 1217F_02: Reese Creek (unclassified water body), from confluence with unnamed tributary (NHD reach code 12070203002555) upstream to headwaters in Bell County
- 1217G_01: Clear Creek
Monitoring Station: 21016 - CLEAR CREEK AT OAKALLA RD 3.53 KILOMETERS EAST AND 2.2 KILOMETERS NORTH OF OAKALLA (Figure 12.6)

Figure 12.6 21016 - CLEAR CREEK AT OAKALLA RD 3.53 KILOMETERS EAST AND 2.2 KILOMETERS NORTH OF OAKALLA



Impairments in Watershed Description (Figure 12):

- 1216C_01: Recreational Use—Bacteria impairment
- 1216D_01: Recreational Use—Bacteria impairment, Aquatic Life Use—DO impairment and concern

Possible Contributions if Impaired:

Point Sources:

- There are six cities and three wastewater outfalls in the watershed. Cities responsible for wastewater treatment plants, combined sewer systems or municipal separate storm sewer systems could create point source pollution contributing to bacterial and nutrient loads as a result of a system failure.

Non-point sources:

- Urban runoff: There are four cities in the northern portion of the watershed. Approximately 12% of the watershed is developed. There was a 4% increase in developed area as compared to land use coverage ten years ago, increasing the potential for bacterial and nutrient loading.
- Wildlife: Herbaceous/shrub and forested areas account for approximately 82% of the watershed which is suitable for wildlife. A significant wildlife population can contribute to bacterial and nutrient loading.

Potential non-State Agency Stakeholders:

- City of Watson
- City of Briggs
- City of Killeen
- City of Harker Heights
- City of Nolanville
- City of Copperas Cove
- Burnet County
- Lampasas County
- Bell County
- Coryell County
- Williamson County
- Any marinas or other businesses on or that serve Stillhouse Hollow Reservoir

Actions taken if impaired:

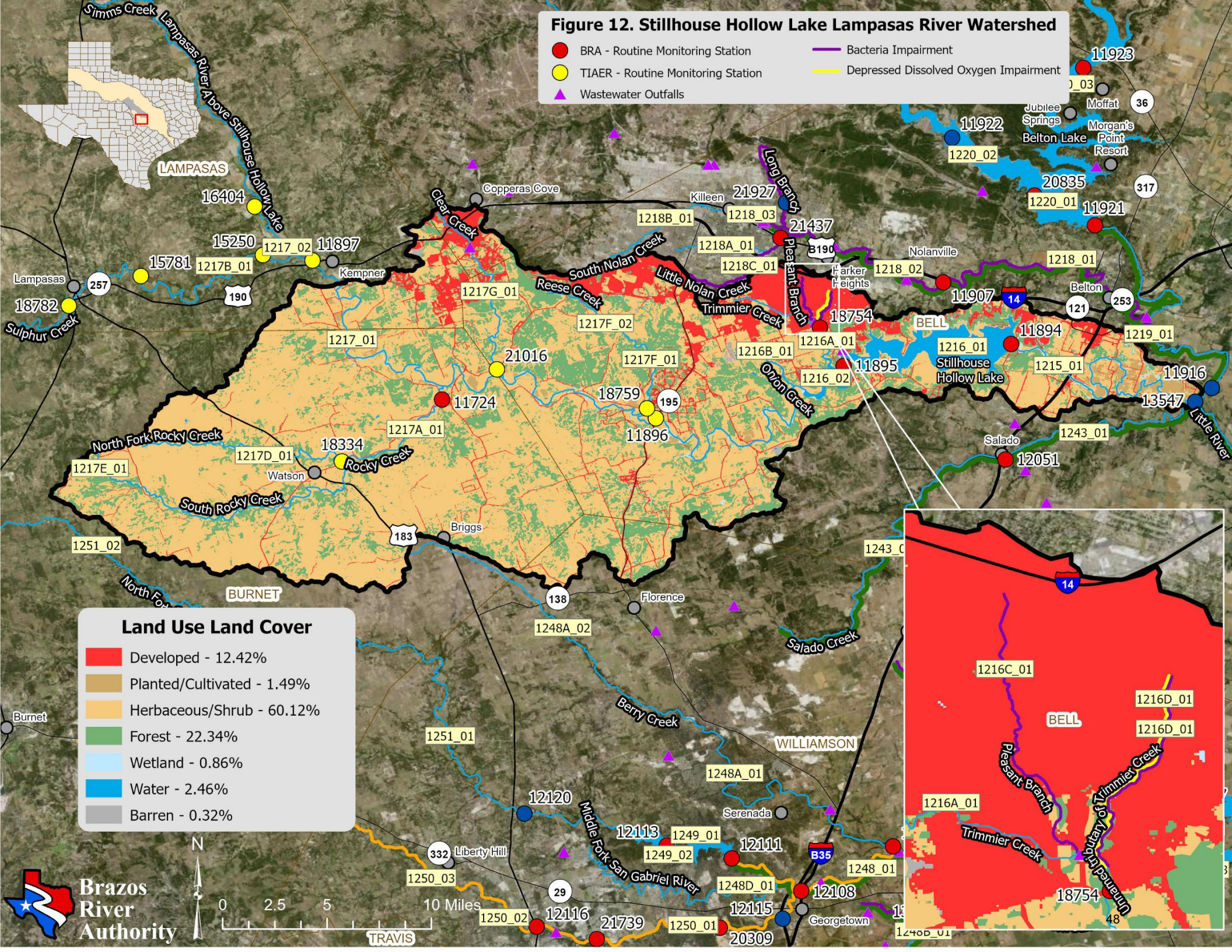
- 1216C_01 was first listed for bacteria in the draft 2026 IR and 1216D_01 in 2022. No actions have been taken.

Recommendations if impaired:

- For 1216C and 1216D_01, a watershed characterization study, consisting of a set of water and habitat assessments compiling hydrology, geology, wildlife, LULC, and water quality data to inform on the best way to improve water quality in a watershed, may be appropriate.

Figure 12. Stillhouse Hollow Lake Lampasas River Watershed

- BRA - Routine Monitoring Station
- TIAER - Routine Monitoring Station
- ▲ Wastewater Outfalls
- Bacteria Impairment
- Depressed Dissolved Oxygen Impairment



Land Use Land Cover

- Developed - 12.42%
- Planted/Cultivated - 1.49%
- Herbaceous/Shrub - 60.12%
- Forest - 22.34%
- Wetland - 0.86%
- Water - 2.46%
- Barren - 0.32%



0 2.5 5 10 Miles

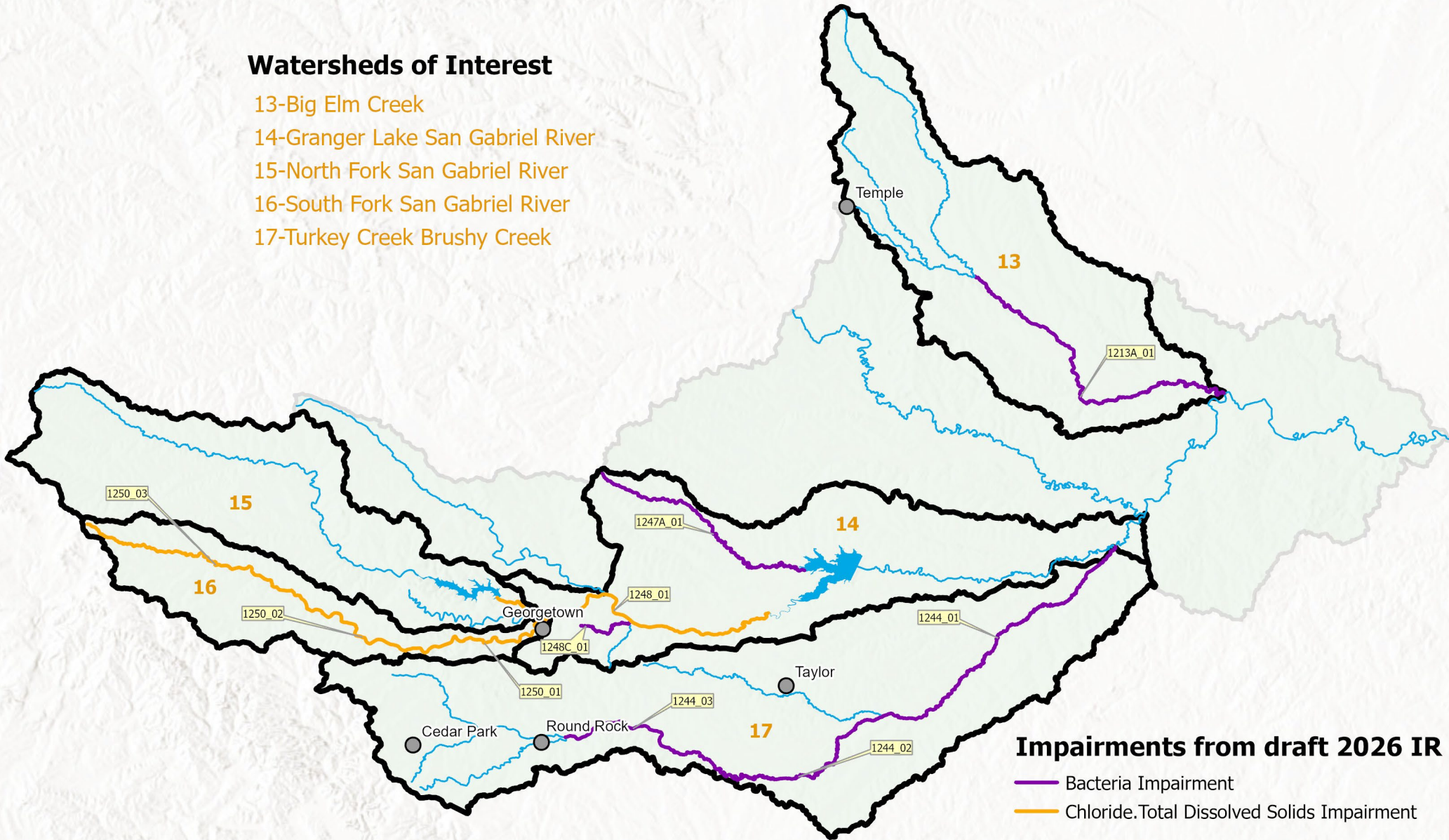


Little River Watershed

The Little River Watershed drains approximately 2,349 square miles through Williamson, Bell, Milam and portions of Burnet Counties. This watershed includes Lake Georgetown and Lake Granger. The western portion of this watershed continues to experience rapid urban development and is considered one of the fastest growing areas in the State of Texas while the eastern portion of the watershed remains fairly rural.

Watersheds of Interest

- 13-Big Elm Creek
- 14-Granger Lake San Gabriel River
- 15-North Fork San Gabriel River
- 16-South Fork San Gabriel River
- 17-Turkey Creek Brushy Creek



Impairments from draft 2026 IR

- Bacteria Impairment
- Chloride.Total Dissolved Solids Impairment

Big Elm Creek Watershed

Watershed Description:

The Big Elm Creek Watershed is 324 square miles in area.

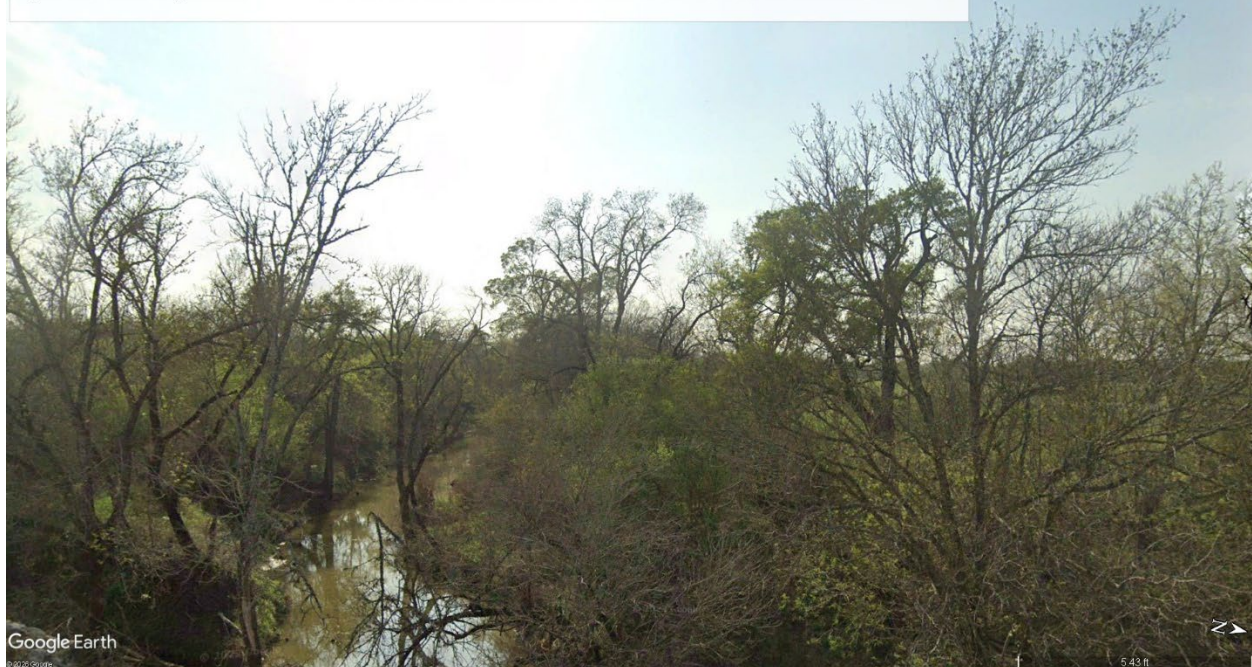
Land Use Land Cover in Watershed (Figure 13):

There are six cities and three wastewater outfalls, indicated in the Potential non-State Agency Stakeholders section, in the watershed. Dominant landcover includes the planted/cultivated category ($\approx 60\%$), with herbaceous/shrubland being the next most dominant ($\approx 25\%$).

Segments in Watershed (Figure 13):

- 1213A_01: Big Elm Creek (unclassified water body), from the confluence with the Little River upstream to the confluence with Little Elm Creek
Monitoring Station: 16385 - BIG ELM CREEK IMMEDIATELY UPSTREAM OF US 77 4.6 MILES NORTH OF CAMERON (Figure 13.1)

Figure 13.1 Monitoring Station: 16385 - BIG ELM CREEK IMMEDIATELY UPSTREAM OF US 77 4.6 MILES NORTH OF CAMERON



- 1213A_02: Big Elm Creek, from the confluence with Little Elm Creek upstream to its headwaters
- 1213B_01: Little Elm Creek, from confluence with Big Elm Creek upstream to confluence with Williamson Branch
- 1213B_02: Little Elm Creek, from confluence with Williamson Branch upstream to headwaters
- 1213C_01: Unnamed tributary of Little Elm Creek

Impairments in Watershed Description (Figure 13):

- 1213A_01: Recreational Use—Bacteria impairment
 - There are concerns for Depressed dissolved oxygen and Nitrate 1213B_01 and a concern for Nitrate in 1213C_01.

Possible Contributions if Impaired:

Point Sources:

- There are six cities and three wastewater outfalls. Cities responsible for wastewater treatment plants, combined sewer systems or municipal separate storm sewer systems could create point source pollution contributing to bacterial and nutrient loads as a result of a system failure.

Non-point sources:

- Agricultural runoff: ≈60% of the watershed is made up of the planted/cultivated category. Runoff from agriculture and rangeland could provide contributions, potentially introducing nutrient loads in planted/cultivated areas and bacterial loading from animal production agriculture.
- Wildlife: Herbaceous/shrubland could provide contributions from wildlife with a coverage of approximately ≈25%. A significant wildlife population can contribute to bacterial and nutrient loading.

Potential non-State Agency Stakeholders:

- City of Troy
- City of Temple
- City of Seaton
- City of Rogers
- City of Buckholts
- City of Moody
- McLennan County
- Bell County
- Falls County
- Milam County

Actions taken if impaired:

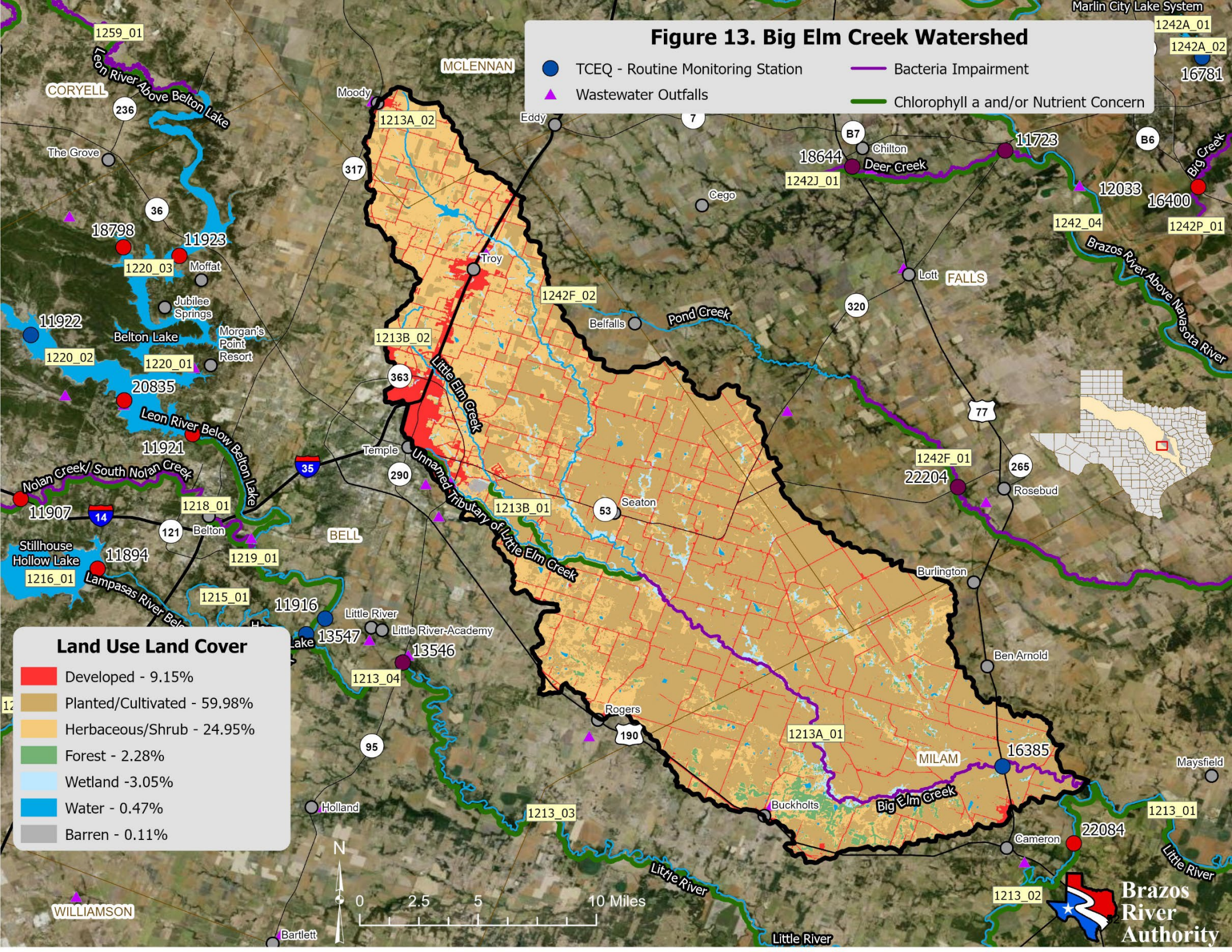
- The [Big Elm Creek Watershed Protection Plan](#) aims to address water quality issues in Big Elm Creek Watershed. Development of the Big Elm Creek Watershed Protection Plan was initiated in the fall of 2018. The final draft plan was accepted by the EPA in February 2021, and the plan is in implementation.

Recommendations if impaired:

- Continue to follow and implement recommended best management practices outlined in the Big Elm Creek WPP and monitor for water quality improvements.

Figure 13. Big Elm Creek Watershed

- TCEQ - Routine Monitoring Station
- Bacteria Impairment
- ▲ Wastewater Outfalls
- Chlorophyll a and/or Nutrient Concern



Land Use Land Cover

- Developed - 9.15%
- Planted/Cultivated - 59.98%
- Herbaceous/Shrub - 24.95%
- Forest - 2.28%
- Wetland - 3.05%
- Water - 0.47%
- Barren - 0.11%



Granger Lake-San Gabriel River Watershed

Watershed Description:

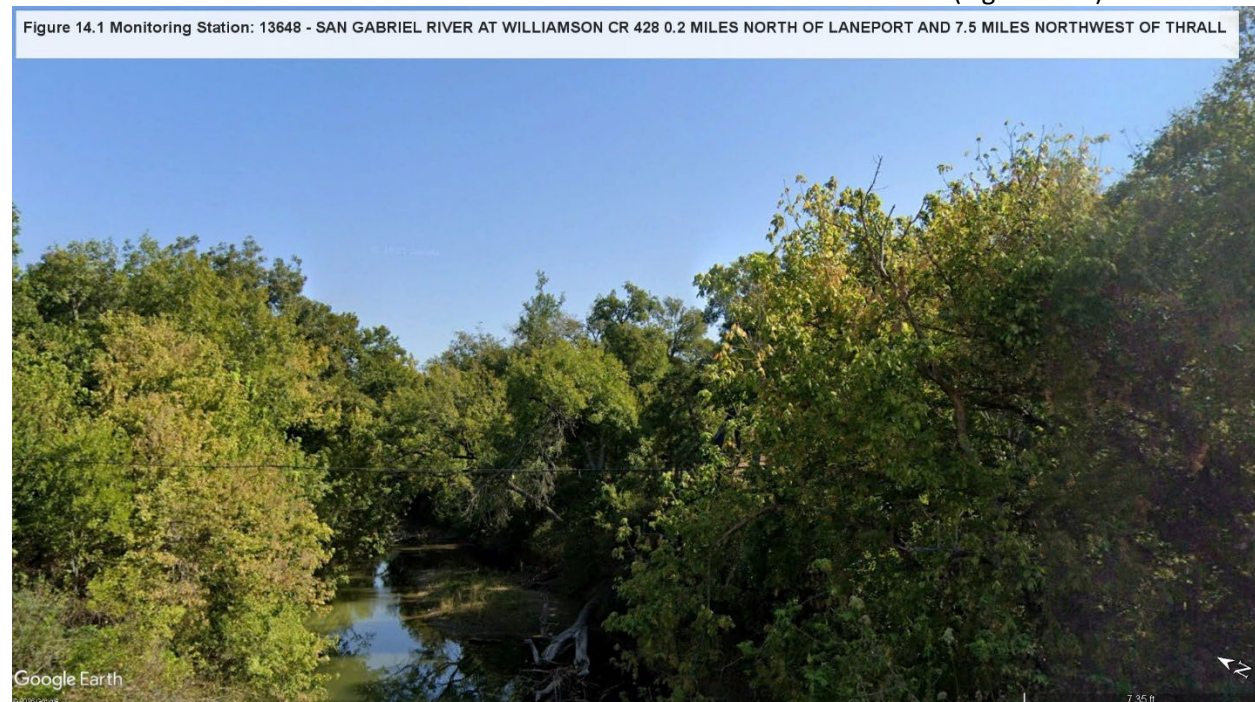
The Granger Lake-San Gabriel River Watershed is 318 square miles in area.

Land Use Land Cover in Watershed (Figure 14):

There are seven cities and six wastewater outfalls, indicated in the Potential non-State Agency Stakeholders section, in the watershed. Dominant landcover includes the planted/cultivated category ($\approx 54\%$), with a moderate amount of herbaceous/shrubland ($\approx 23\%$). Lake Granger lies entirely within this watershed.

Segments in Watershed (Figure 14):

- 1214_01: San Gabriel River, from confluence with Little River upstream to confluence with Alligator Creek
Monitoring Station: 17651 - SAN GABRIEL RIVER AT MILAM CR 429 SOUTH OF FM 487 NORTHWEST OF ROCKDALE
- 1214_02: San Gabriel River, from confluence with Alligator Creek upstream to Lake Granger
Monitoring Station: 13648 - SAN GABRIEL RIVER AT WILLIAMSON CR 428 0.2 MILES NORTH OF LANEPORT AND 7.5 MILES NORTHWEST OF THRALL (Figure 14.1)



- 1247_01: Lake Granger, eastern end of lake near dam
Monitoring Station: 12095 - LAKE GRANGER NEAR DAM 1.44 KILOMETERS NORTH AND 190 METERS WEST OF SOUTHERN EDGE OF DAM
- 1247_02: Lake Granger, Willis Creek arm of lake
Monitoring Station: 12097 - LAKE GRANGER IN WILLIS CREEK ARM 960 METERS NORTH AND 1.91 KILOMETERS EAST OF INTERSECTION OF WILLIAMSON CR 348 AND CR 389
- 1247_03: Lake Granger, western end of lake on the San Gabriel River

Monitoring Station: 12096 - GRANGER LAKE IN SAN GABRIEL RIVER ARM NEAR HEADWATERS 7.22 KILOMETERS DOWNSTREAM OF SH 95

- 1247A_01: Willis Creek
Monitoring Station: 20305 - WILLIS CREEK AT WILLIAMSON CR 236 WEST OF GRANGER 635 METERS EAST OF THE INTERSECTION OF WILLIAMSON CR 335 AND WILLIAMSON CR 326 (Figure 14.2)



- 1248_01: San Gabriel/North Fork San Gabriel River, the portion from the confluence of the South Fork San Gabriel to Granger Lake
Monitoring Station: 12102 - SAN GABRIEL/NORTH FORK SAN GABRIEL RIVER IMMEDIATELY DOWNSTREAM OF SH 29 EAST OF GEORGETOWN (Figure 14.3)

Figure 14.3 Monitoring Station: 12102 - SAN GABRIEL/NORTH FORK SAN GABRIEL RIVER IMMEDIATELY DOWNSTREAM OF SH 29 EAST OF GEORGETOWN



Monitoring Station: 12099 - SAN GABRIEL/NORTH FORK SAN GABRIEL RIVER AT WILLIAMSON CR 366, 4.84 KILOMETERS UPSTREAM OF SH 95 (Figure 14.4)

Figure 14.4 Monitoring Station: 12099 - SAN GABRIEL/NORTH FORK SAN GABRIEL RIVER AT WILLIAMSON CR 366, 4.84 KILOMETERS UPSTREAM OF SH 95



- 1248B_01: Huddleston Branch
 - 1248C_01: Mankins Branch
- Monitoring Station: 13497 - MANKINS BRANCH AT WILLIAMSON CR 100 IMMEDIATELY

UPSTREAM OF THE CONFLUENCE WITH THE SAN GABRIEL RIVER (Figure 14.5)



Impairments in Watershed Description (Figure 14):

- 1247A_01: Recreational Use—Bacteria impairment
 - There is also a concern for nitrate in 1247A.
- 1248_01: General Use—Chloride and Total Dissolved Solids (TDS) impairments
 - There is also a concern for nitrate in 1248_01.
- 1248C_01: Recreational Use—Bacteria impairment
 - There are also concerns for habitat, nitrate and total phosphorus in 1248C_01. And concerns for bacteria and nitrate in 1248B_01.

Possible Contributions if Impaired:

Point Sources:

- There are seven cities and six wastewater outfalls within the watershed. Cities responsible for wastewater treatment plants, combined sewer systems or municipal separate storm sewer systems could create point source pollution contributing to bacterial and nutrient loads as a result of a system failure.

Non-point sources:

- Agricultural runoff: Agricultural activity accounting for approximately 54% of the watershed could contribute to runoff, potentially introducing nutrient loads in planted/cultivated areas and bacterial loading from animal production agriculture.
- Wildlife: There is also a fair amount ($\approx 27\%$) of herbaceous/shrubland and forested area in the watershed which could provide contributions from wildlife as well. A significant wildlife population can contribute to bacterial and nutrient loading.

- Urban runoff: Approximately 12% of the watershed is developed, concentrated in the upstream area of 1248 allowing for municipal and urban runoff contribution. That is an increase of 5% over the last ten years, increasing the potential for bacterial and nutrient loading.

Potential non-State Agency Stakeholders:

- City of Georgetown
- City of Weir
- City of Jonah
- City of Circleville
- City of Granger
- City of Sharp
- City of Serenada
- Bell County
- Williamson County
- Milam County

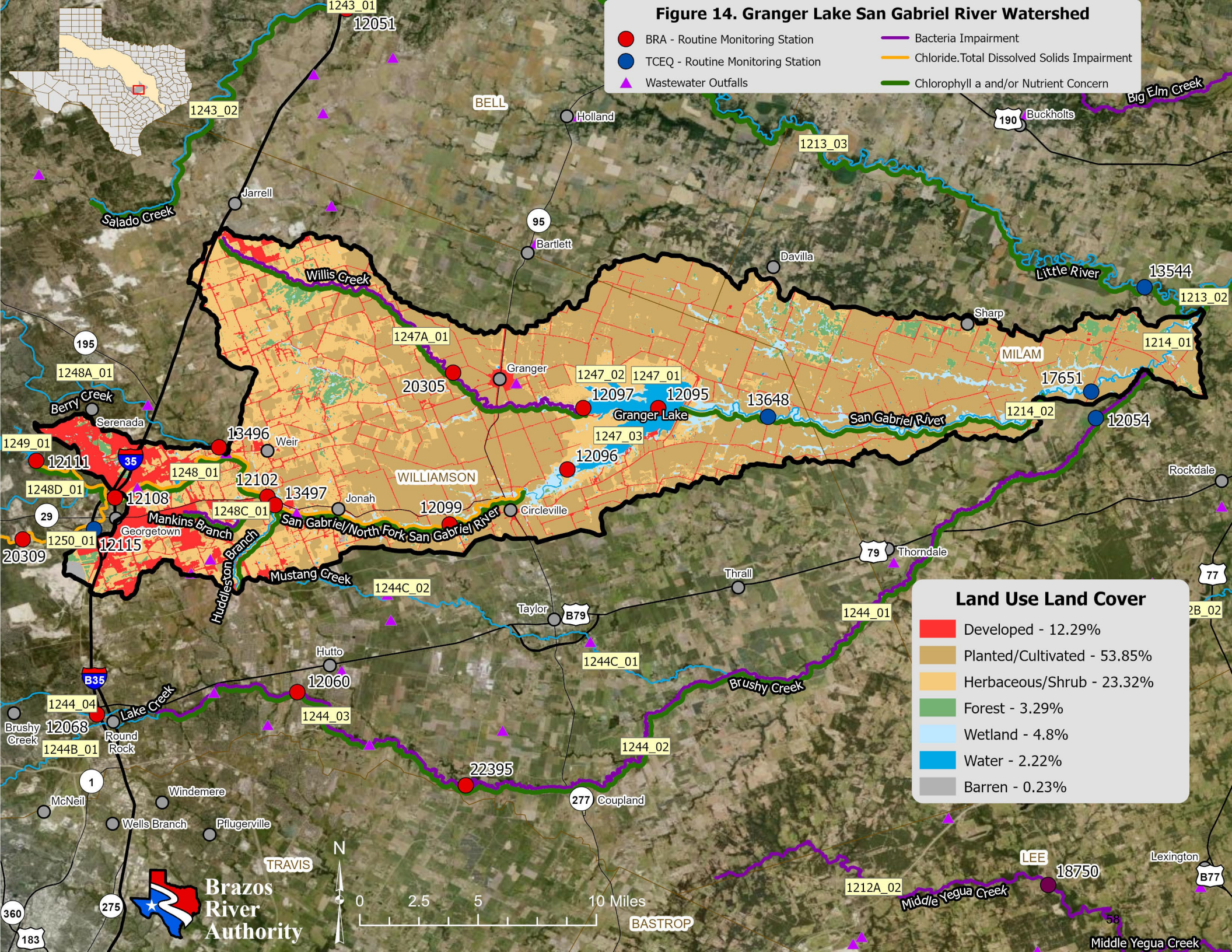
Actions taken if impaired:

- An [RUAA](#) was completed and recommendation approved by EPA for revision to SCR1 in segment 1247A which was first listed for bacteria in 2002.
- Segment 1248 was first listed as impaired for chloride in 2010. It has been delisted and relisted several times since then. In 2012, 1248 was delisted for chloride then in 2014 was listed as impaired for chloride and TDS. In 2016 the segment was delisted for TDS and then in 2018, delisted for chloride. Most recently, 1248 was listed as impaired for chloride in 2024 and listed as impaired for TDS in 2026. No action has been taken.

Recommendations if impaired:

- Continue routine water quality data collection and assessment based on the approved SCR1 standard for 1247A. Additionally, a watershed characteristics study may be appropriate.
- A watershed characterization study, consisting of a set of water and habitat assessments compiling hydrology, geology, wildlife, LULC, and water quality data to inform on the best way to improve water quality in a watershed, may be appropriate.

Figure 14. Granger Lake San Gabriel River Watershed



- BRA - Routine Monitoring Station
- TCEQ - Routine Monitoring Station
- ▲ Wastewater Outfalls
- Bacteria Impairment
- Chloride, Total Dissolved Solids Impairment
- Chlorophyll a and/or Nutrient Concern

Land Use Land Cover

	Developed - 12.29%
	Planted/Cultivated - 53.85%
	Herbaceous/Shrub - 23.32%
	Forest - 3.29%
	Wetland - 4.8%
	Water - 2.22%
	Barren - 0.23%



North Fork San Gabriel River Watershed

Watershed Description:

The North Fork San Gabriel River Watershed is 268 square miles in area.

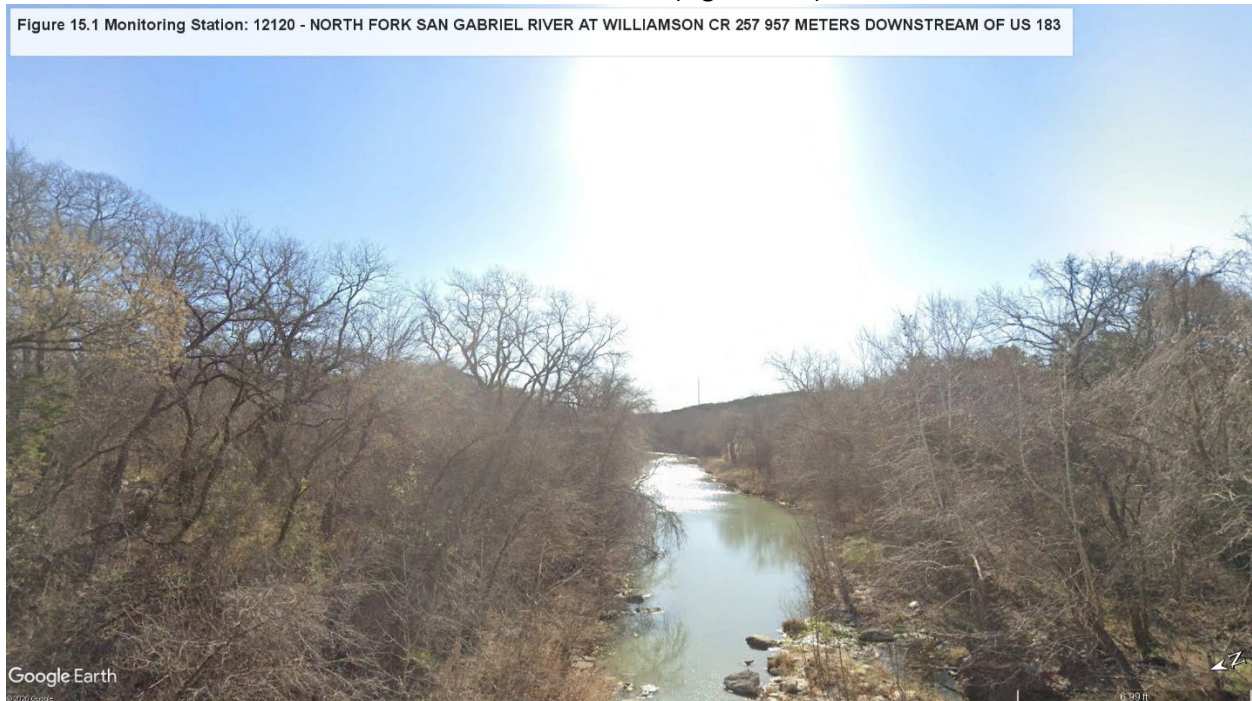
Land Use Land Cover in Watershed (Figure 15):

There is one city and 1 wastewater outfall, indicated in the Potential non-State Agency Stakeholders section, in the watershed. Dominant landcover includes the herbaceous/shrubland category ($\approx 63\%$), with a moderate amount of forest ($\approx 22\%$). Developed land cover is in the southeastern area of the watershed and coverage is $\approx 13\%$.

Segments in Watershed (Figure 15):

- 1248_01: San Gabriel/North Fork San Gabriel River, the portion from Lake Georgetown to the confluence with the South Fork San Gabriel River
Monitoring Station: 12108 - SAN GABRIEL/NORTH FORK SAN GABRIEL RIVER NORTH FORK IMMEDIATELY DOWNSTREAM OF IH 35 IN GEORGETOWN
- 1249_01: Lake Georgetown, East end of reservoir near dam
Monitoring Station: 12111 - LAKE GEORGETOWN NEAR DAM 68 METERS NORTH AND 88 METERS EAST OF SOUTHWEST EDGE OF DAM
- 1249_02: Lake Georgetown, West end of reservoir near headwaters
Monitoring Station: 12113 - LAKE GEORGETOWN NEAR HEADWATERS IN THE NORTH SAN GABRIEL ARM 305 METERS SOUTH AND 1.05 KILOMETERS WEST FROM THE INTERSECTION OF WILLIAMSON CR 262 AND PARK ROAD 8
- 1251_01: North Fork San Gabriel River, From confluence with Lake Georgetown in Williamson County upstream to confluence with Russell Fork San Gabriel River in Burnet County
Monitoring Station: 12120 - NORTH FORK SAN GABRIEL RIVER AT WILLIAMSON CR 257 957 METERS DOWNSTREAM OF US 183 (Figure 15.1)

Figure 15.1 Monitoring Station: 12120 - NORTH FORK SAN GABRIEL RIVER AT WILLIAMSON CR 257 957 METERS DOWNSTREAM OF US 183



- 1251_02: North Fork San Gabriel River, From confluence with Russell Fork San Gabriel River upstream to headwaters of water body in Burnet County.

Impairments in Watershed Description (Figure 15):

- 1248_01: General Use—Chloride and Total Dissolved Solids (TDS) impairment
- There is also a concern for nitrate in 1248_01.

Possible Contributions if Impaired:

Point Sources:

- There is one city and 1 wastewater outfall in the watershed. Cities responsible for wastewater treatment plants, combined sewer systems or municipal separate storm sewer systems could create point source pollution contributing to bacterial and nutrient loads as a result of a system failure.

Non-point sources:

- Wildlife: Herbaceous/shrubland and forested land could provide contributions from wildlife with a coverage of approximately 85%. A significant wildlife population can contribute to bacterial and nutrient loading.
- Urban runoff near the portion of the watershed that contains the impairment: Approximately 13% of the watershed is developed, concentrated in the upstream area of 1248 allowing for municipal and urban runoff contribution.

Potential non-State Agency Stakeholders:

- City of Georgetown
- City of Liberty Hill
- City of Bertram
- Williamson County
- Burnet County

Actions taken if impaired:

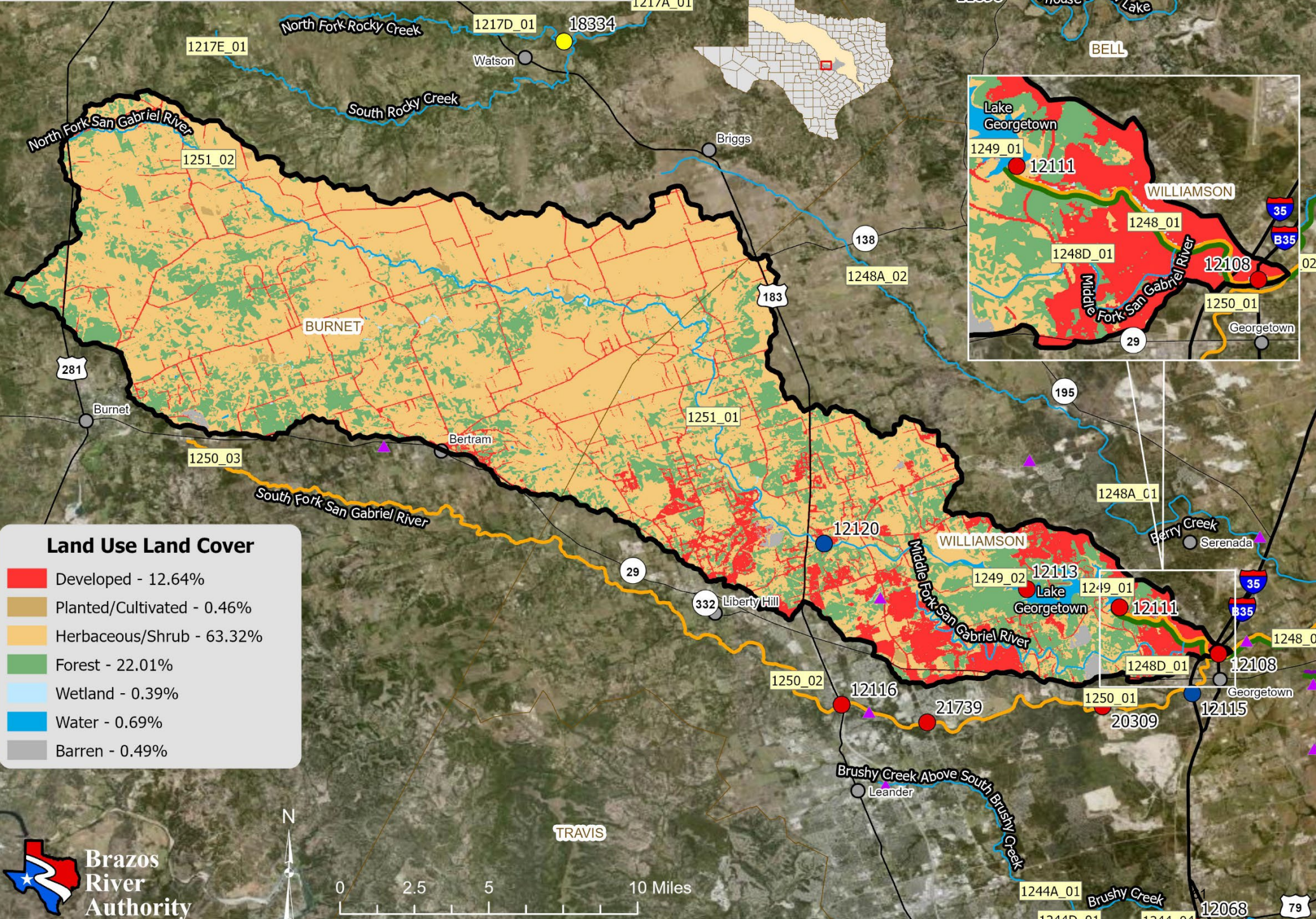
- Segment 1248 was first listed as impaired for chloride in 2010. It has been delisted and relisted several times since then. In 2012, 1248 was delisted for chloride then in 2014 was listed as impaired for chloride and TDS. In 2016 the segment was delisted for TDS and then in 2018, delisted for chloride. Most recently, 1248 was listed as impaired for chloride in 2024 and listed as impaired for TDS in 2026. No action has been taken.

Recommendations if impaired:

- A watershed characterization study, consisting of a set of water and habitat assessments compiling hydrology, geology, wildlife, LULC, and water quality data to inform on the best way to improve water quality in a watershed, may be appropriate.

Figure 15. North Fork San Gabriel River Watershed

- BRA - Routine Monitoring Station
- TCEQ - Routine Monitoring Station
- ▲ Wastewater Outfalls
- Chloride and Total Dissolved Solids Impairment
- Chlorophyll a and/or Nutrient Concern



South Fork San Gabriel River Watershed

Watershed Description:

The South Fork San Gabriel River Watershed is 134 square miles in area.

Land Use Land Cover in Watershed (Figure 16):

There are 3 cities and 2 wastewater outfalls, indicated in the Potential non-State Agency Stakeholders section, in the watershed. Dominant landcover includes the herbaceous/shrubland ($\approx 49\%$) and forest ($\approx 28\%$). Developed land coverage is high as well with $\approx 21\%$ of the watershed in the developed category.

Segments in Watershed (Figure 16):

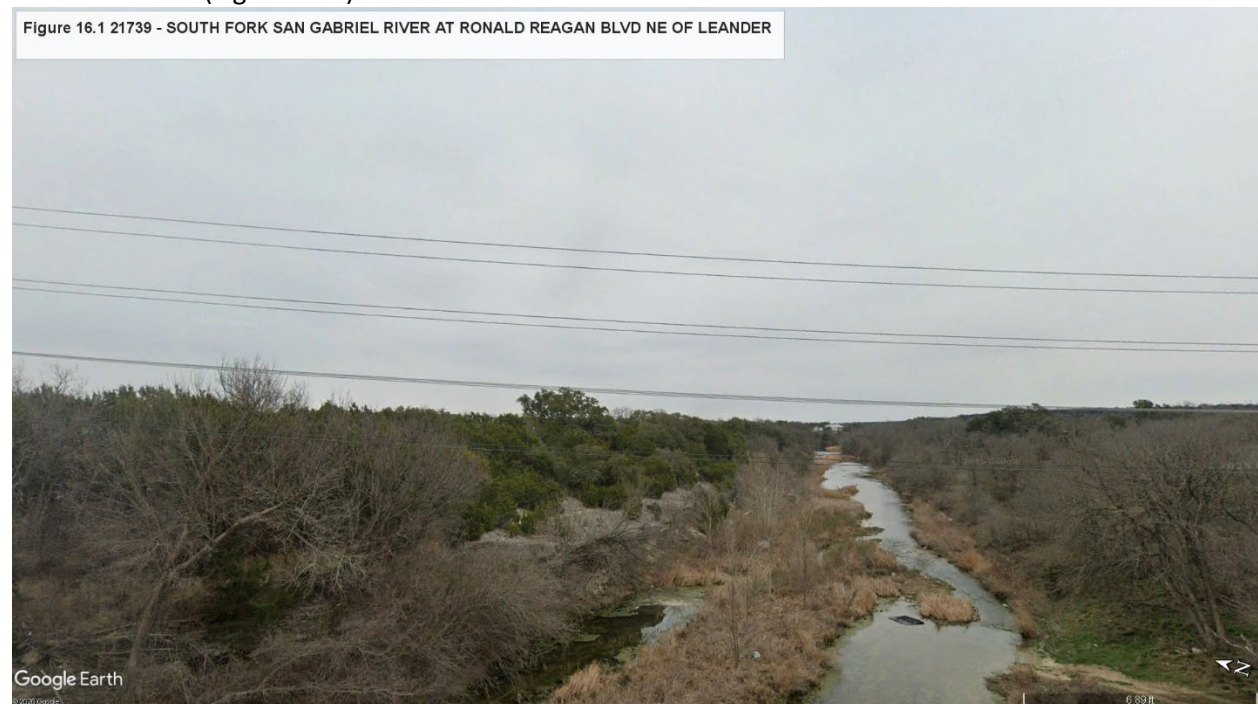
- 1250_01: South Fork San Gabriel River, from the confluence with the San Gabriel River upstream to confluence with unnamed tributary.

Monitoring Stations:

12115 - SOUTH FORK SAN GABRIEL RIVER AT IH 35 IN GEORGETOWN

20309 - SOUTH FORK SAN GABRIEL RIVER 1.44 KM NORTH AND 1.80 KM WEST OF THE INTERSECTION OF WEIR RANCH ROAD AND LEANDER RANCH ROAD / RR 2243

21739 - SOUTH FORK SAN GABRIEL RIVER AT RONALD REAGAN BLVD NE OF LEANDER
(Figure 16.1)



- 1250_02: South Fork San Gabriel River, from the confluence with unnamed tributary upstream to unnamed tributary
Monitoring Station: 12116 - SOUTH FORK SAN GABRIEL RIVER AT US 183
- 1250_03: South Fork San Gabriel River, from the confluence with unnamed tributary upstream to headwaters of water body

Impairments in Watershed Description (Figure 16):

- 1250_01: General Use—Chloride and Total Dissolved Solids (TDS) impairments
- 1250_02: General Use—Chloride and Total Dissolved Solids (TDS) impairments
- 1250_03: General Use—Chloride and Total Dissolved Solids (TDS) impairments
 - There is also a concern for depressed dissolved oxygen in 1250_03.

Possible Contributions if Impaired:**Point Sources:**

- There are 3 cities and 2 wastewater outfalls in the watershed. Cities responsible for wastewater treatment plants, combined sewer systems or municipal separate storm sewer systems could create point source pollution contributing to bacterial and nutrient loads as a result of a system failure.

Non-point sources:

- Urban runoff: Concentrated in the central/eastern, downstream portion, approximately 21% of the watershed is developed, allowing for municipal and urban runoff contribution, potentially introducing bacterial and nutrient loads.
- Wildlife: Herbaceous/shrubland and forested land could provide contributions from wildlife with a coverage of approximately 77%. A significant wildlife population can contribute to bacterial and nutrient loading.

Potential non-State Agency Stakeholders:

- City of Georgetown
- City of Leander
- City of Liberty Hill
- City of Bertram
- Williamson County
- Burnet County

Actions taken if impaired:

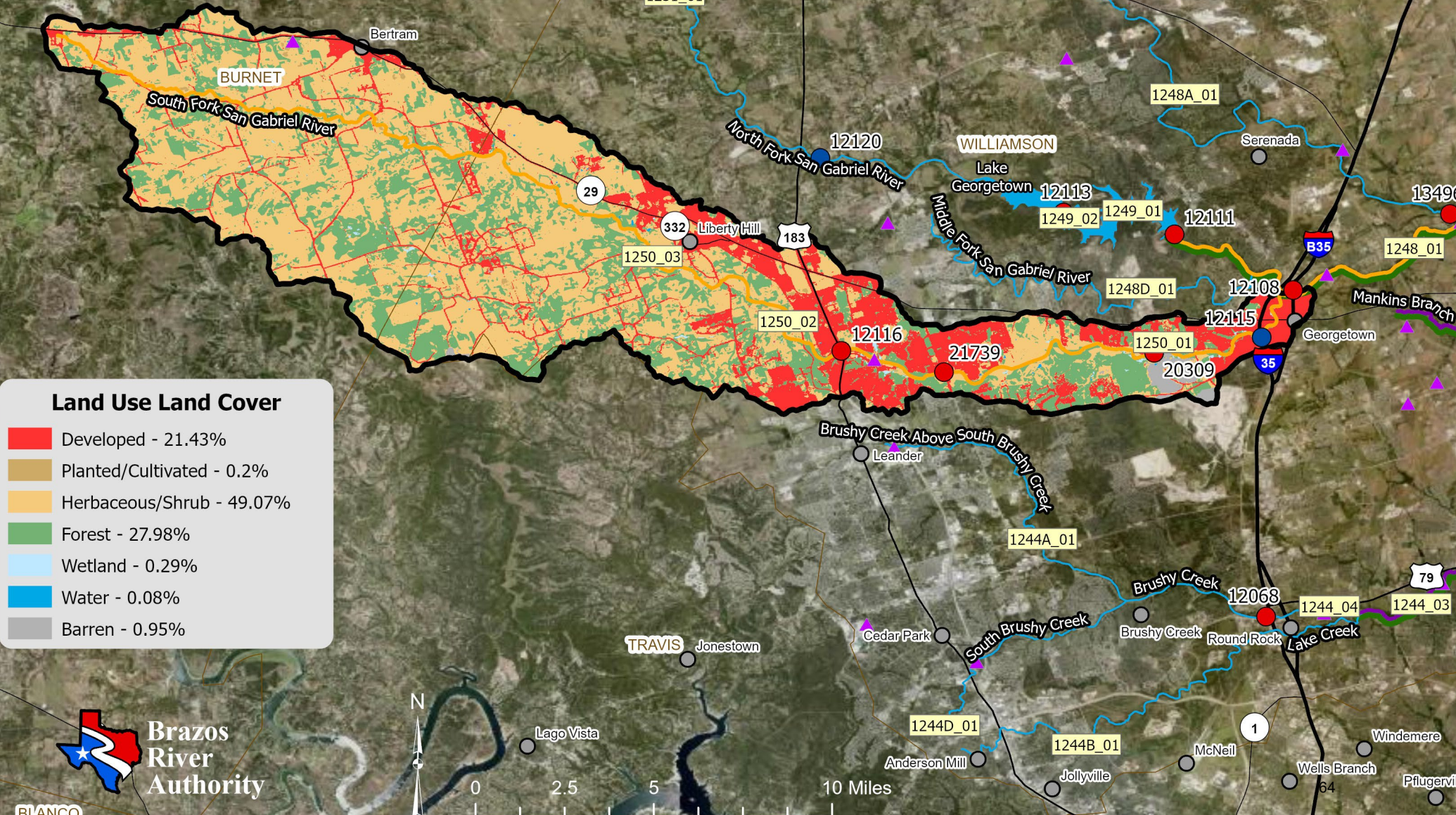
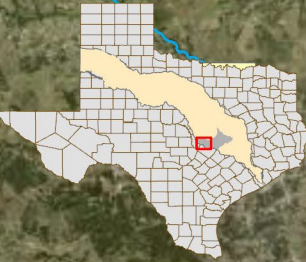
- Segment 1250 was first listed as impaired in 2024 for TDS and in 2026 for Chloride. No action has been taken.

Recommendations if impaired:

- Continue routine monitoring of the established long-term stations in this watershed.

Figure 16. South Fork San Gabriel River Watershed

- BRA - Routine Monitoring Station
- TCEQ - Routine Monitoring Station
- ▲ Wastewater Outfalls
- Chloride and Total Dissolved Solids Impairment



Land Use Land Cover

	Developed - 21.43%
	Planted/Cultivated - 0.2%
	Herbaceous/Shrub - 49.07%
	Forest - 27.98%
	Wetland - 0.29%
	Water - 0.08%
	Barren - 0.95%



Turkey Creek-Brushy Creek Watershed

Watershed Description:

The Turkey Creek-Brushy Creek Watershed is 520 square miles in area.

Land Use Land Cover in Watershed (Figure 17):

There are 12 cities and 13 wastewater outfalls, indicated in the Potential non-State Agency Stakeholders section, in the watershed. Dominant landcover includes the planted/cultivated category, with a moderate amount of herbaceous/shrubland and developed land and also a smaller amount of forested upland.

Segments in Watershed (Figure 17):

- 1244_01: Brushy Creek, from confluence with San Gabriel upstream to confluence with Mustang Creek

Monitoring Station: 12054 - BRUSHY CREEK AT FM 908 NORTHWEST OF ROCKDALE
(Figure 17.1)



- 1244_02: Brushy Creek, from confluence with Mustang Creek upstream to confluence with Cottonwood Branch

Monitoring Station: 22395 - BRUSHY CREEK IMMEDIATELY UPSTREAM OF FM 973
(Figure 17.2)

Figure 17.2 Monitoring Station: 22395 - BRUSHY CREEK IMMEDIATELY UPSTREAM OF FM 973



- 1244_03: Brushy Creek, from confluence with Cottonwood Branch upstream to City of Round Rock WWTP outfall
Monitoring Station: 12060 - BRUSHY CREEK IMMEDIATELY DOWNSTREAM OF FM 685
- 1244_04: Brushy Creek, from immediately upstream of City of Round Rock WWTP outfall upstream to end of segment
Monitoring Station: 12068 - BRUSHY CREEK IMMEDIATELY DOWNSTREAM OF CHISOLM TRAIL RD (Figure 17.3)

Figure 17.3 Monitoring Station: 12068 - BRUSHY CREEK IMMEDIATELY DOWNSTREAM OF CHISOLM TRAIL RD



- 1244A_01: Brushy Creek above South Brushy Creek (unclassified water body)
- 1244B_01: Lake Creek
- 1244C_01: Mustang Creek from the confluence with Brushy Creek upstream to the confluence of North Fork Mustang Creek
- 1244C_02: Mustang Creek, from the confluence of North Fork Mustang Creek upstream to the headwaters 2.5 km east of TX 130
- 1244D_01: South Brushy Creek

Impairments in Watershed Description (Figure 17):

- 1244_01: Recreational Use—Bacteria impairment
- 1244_02: Recreational Use—Bacteria impairment
- 1244_03: Recreational Use—Bacteria impairment
 - There are also concerns for nitrate in all 1244 AUs.

Possible Contributions if Impaired:

Point Sources:

- There are 12 cities and 13 wastewater outfalls. Cities responsible for wastewater treatment plants, combined sewer systems or municipal separate storm sewer systems could create point source pollution contributing to bacterial and nutrient loads as a result of a system failure.

Non-point sources:

- Urban runoff: Concentrated in the western, upstream portion, approximately 30% of the watershed is developed allowing for municipal and urban runoff contribution. That is a 10% increase over the last ten years, increasing the potential for bacterial and nutrient loading.
- Agricultural runoff: Agricultural activity accounting for approximately 50% of the eastern portion of the watershed could contribute to runoff, potentially introducing nutrient loads in planted/cultivated areas and bacterial loading from animal production agriculture.

Potential non-State Agency Stakeholders:

- City of Leander
- City of Cedar Park
- City of Brushy Creek
- City of Round Rock
- City of Anderson Mill
- City of Jollyville
- City of McNeil
- City of Hutto
- City of Taylor
- City of Coupland
- City of Thrall
- City of Thorndale
- Williamson County
- Milan County
- Bastrop County

Actions taken if impaired:

- An [RUAA](#) was conducted in segment 1244 and results led to the recommendation that the segment remain classified as a PCR segment.
- Between 2022 and 2026 [water quality and streamflow data were collected](#) at two locations within the watershed and the [Brushy Creek Characterization](#) project was completed in August 2025. These efforts provided the essential data and technical foundations needed for the [Brushy Creek Watershed Protection Plan](#) development that began in February 2026.

Recommendations if impaired:

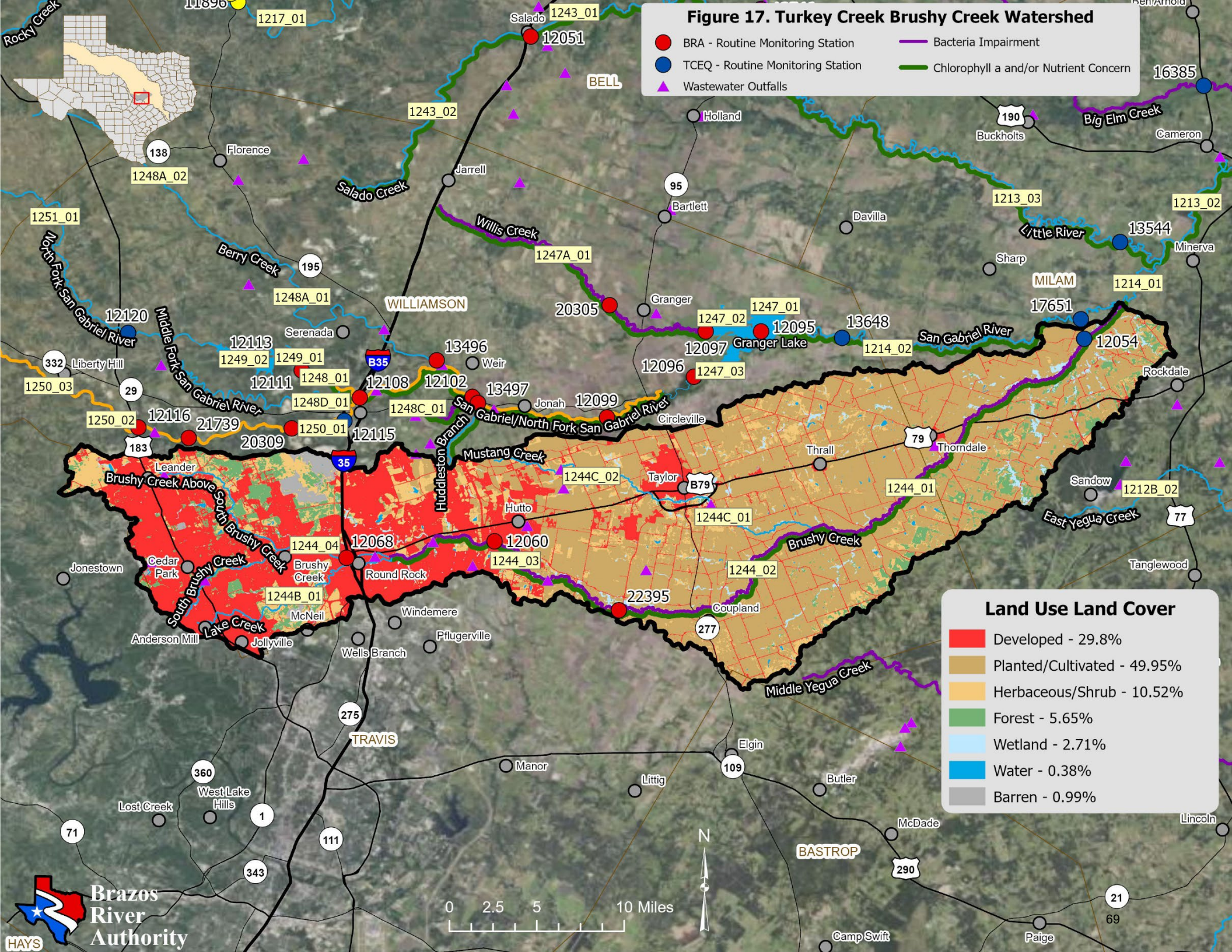
- Await stakeholder completion and EPA review and approval of the Brushy Creek Watershed Protection Plan.

Figure 17. Turkey Creek Brushy Creek Watershed

● BRA - Routine Monitoring Station	— Bacteria Impairment
● TCEQ - Routine Monitoring Station	— Chlorophyll a and/or Nutrient Concern
▲ Wastewater Outfalls	

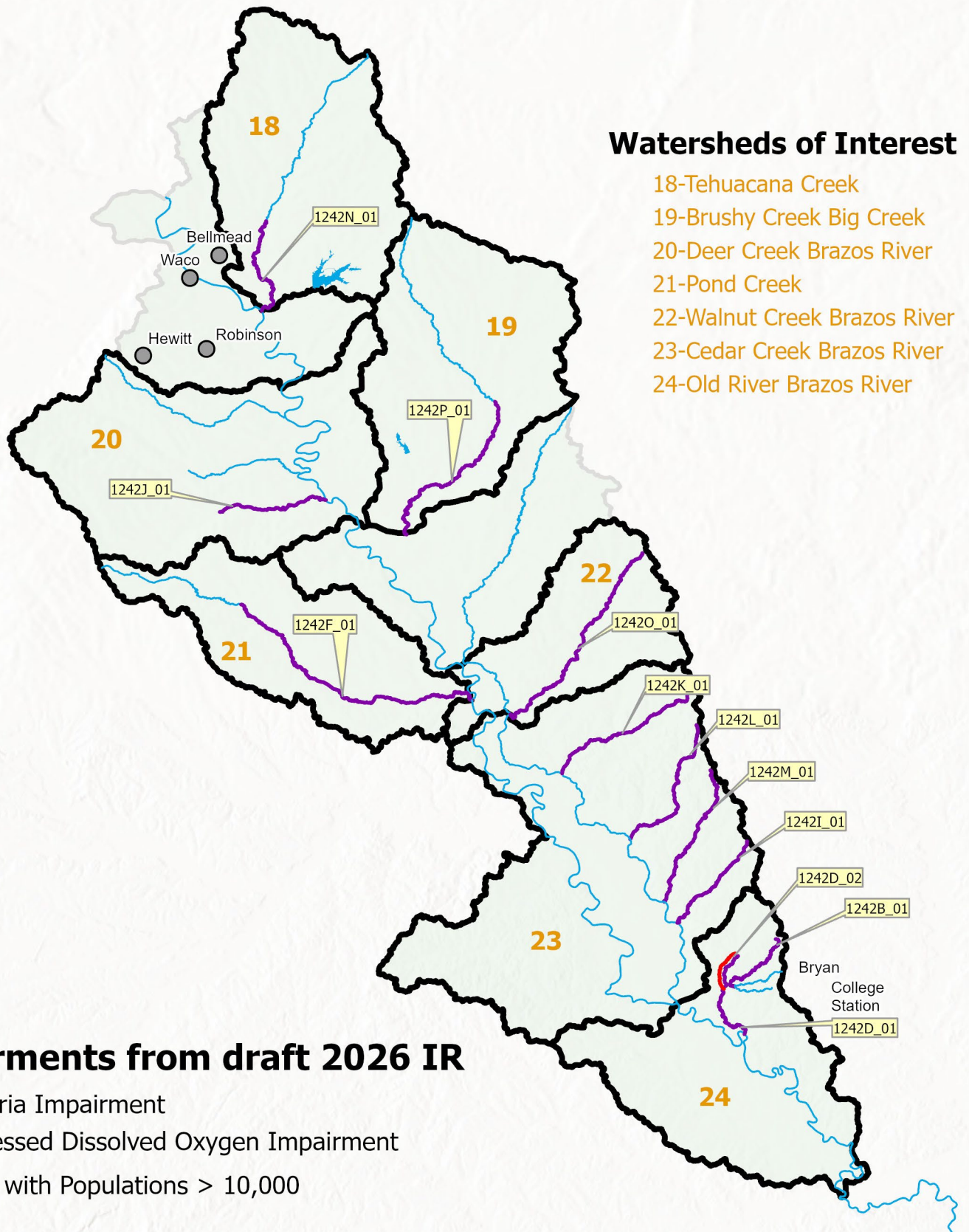
Land Use Land Cover

■ Developed - 29.8%
■ Planted/Cultivated - 49.95%
■ Herbaceous/Shrub - 10.52%
■ Forest - 5.65%
■ Wetland - 2.71%
■ Water - 0.38%
■ Barren - 0.99%



Central Watershed of the Brazos River

The Central Watershed of the Brazos River drains approximately 2,710 square miles from Lake Brazos Dam in Waco to the mouth of the Navasota River southeast of College Station through Falls, Burleson, Robertson, and portions of McLennan and Brazos Counties. Land usage is primarily agricultural, with two sizeable urban areas, Waco and Bryan/College Station.



Watersheds of Interest

- 18-Tehuacana Creek
- 19-Brushy Creek Big Creek
- 20-Deer Creek Brazos River
- 21-Pond Creek
- 22-Walnut Creek Brazos River
- 23-Cedar Creek Brazos River
- 24-Old River Brazos River

Impairments from draft 2026 IR

- Bacteria Impairment
- Depressed Dissolved Oxygen Impairment
- Cities with Populations > 10,000

Tehuacana Creek Watershed

Watershed Description:

The Tehuacana Creek Watershed is approximately 300 square miles in area.

Land Use Land Cover in Watershed (Figure 18):

There are eleven cities and three wastewater discharges, indicated in the Potential non-State Agency Stakeholders section, in the watershed. Dominant landcover is planted/cultivated ($\approx 60\%$) with the next most dominant landcover being herbaceous/shrub ($\approx 20\%$). There is a moderate amount of development in the watershed ($\approx 10\%$). Tradinghouse Reservoir lies within the watershed. The reservoir is used for industrial and recreational purposes.

Segments in Watershed (Figure 18):

- 1242H_01: Impounded Tradinghouse Creek, within the city of Hallsburg, McLennan County
Monitoring Station: 18457 - TRADINGHOUSE CREEK RESERVOIR
- 1242N_01: Downstream portion of water body, from confluence with Brazos River upstream to confluence with Little Tehuacana Creek
Monitoring Station: 11609 - TEHUACANA CREEK AT OLD MARLIN
- 1242N_02: Upstream portion, from confluence with Little Tehuacana Creek upstream to headwaters

Impairments in Watershed Description (Figure 18):

- 1242N_01: Recreational Use—Bacteria
 - There are concerns for chlorophyll-*a*, nitrate, total phosphorus in 1242N_01.

Possible Contributions if Impaired:

Point Sources:

- There are eleven cities and three wastewater discharges in the watershed. Cities responsible for wastewater treatment plants, combined sewer systems or municipal separate storm sewer systems could create point source pollution contributing to bacterial and nutrient loads as a result of a system failure.

Non-point sources:

- Agricultural runoff: About 60% of the watershed is made up of the planted/cultivated category. Runoff from agriculture and rangeland could provide contributions, potentially introducing nutrient loads in planted/cultivated areas and bacterial loading from animal production agriculture.
- Wildlife: Herbaceous/shrubland and forested land could provide contributions from wildlife with a coverage of approximately 23%. A significant wildlife population can contribute to bacterial and nutrient loading.

Potential non-State Agency Stakeholders:

- City of Abbott
- City of West
- City of Ross
- City of Leroy

- City of Northcrest
- City of Lacy-Lakeview
- City of Belmead
- City of Waco
- City of Hallsburg
- McLennan County
- Hill County
- Limestone County
- Sanderson Farms Inc
- Methodist Children’s Home
- Tradinghouse Power Co LLC
- Luminant Generation Co LLC
- Any marinas or other businesses on or that serve Tradinghouse Reservoir

Actions taken if impaired:

- The [Tehuacana Creek Monitoring and Characterization](#) project began in 2024.

Recommendations if impaired:

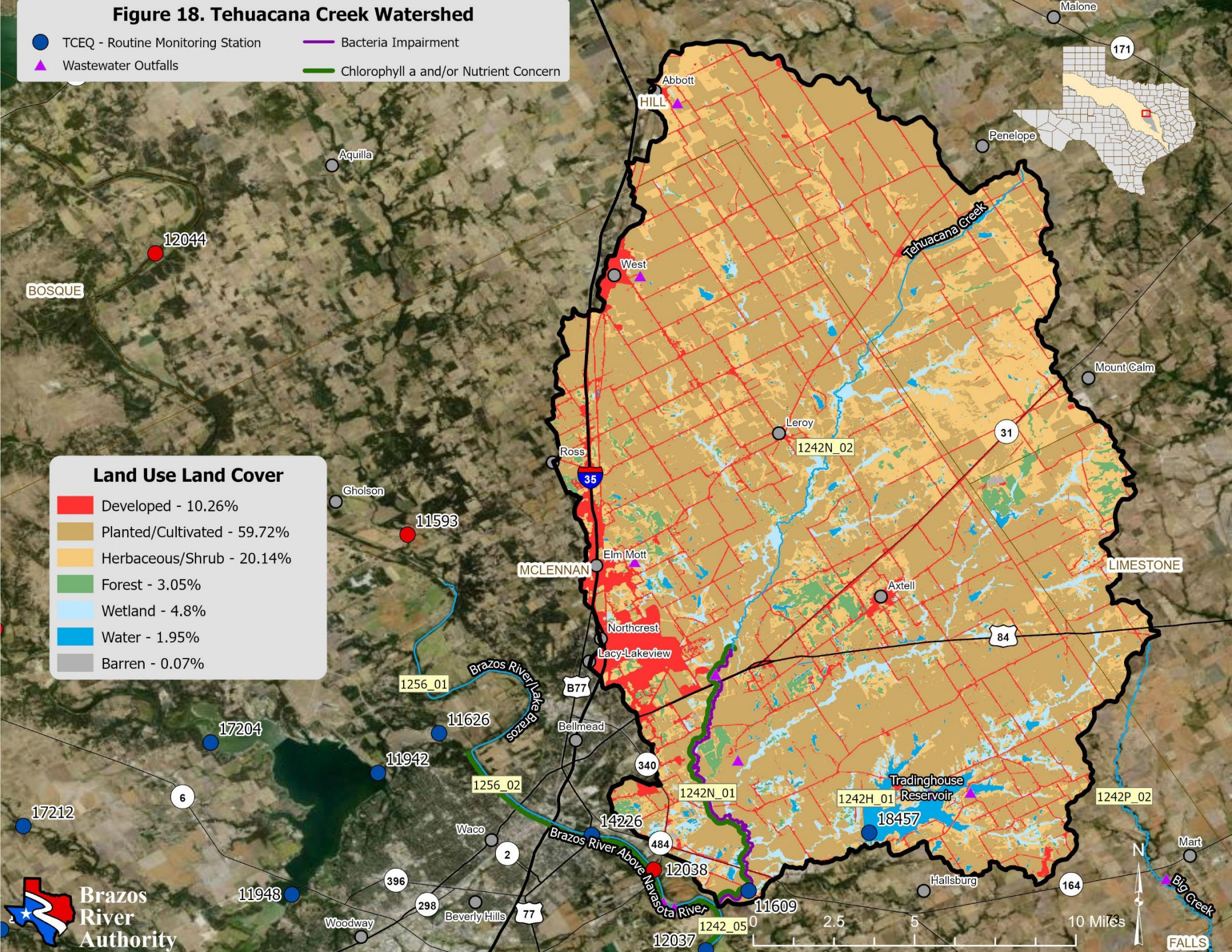
- Review results of the Tehuacana Creek Monitoring and Characterization project.

Figure 18. Tehuacana Creek Watershed

- TCEQ - Routine Monitoring Station
- ▲ Wastewater Outfalls
- Bacteria Impairment
- Chlorophyll a and/or Nutrient Concern

Land Use Land Cover

- Developed - 10.26%
- Planted/Cultivated - 59.72%
- Herbaceous/Shrub - 20.14%
- Forest - 3.05%
- Wetland - 4.8%
- Water - 1.95%
- Barren - 0.07%



Brushy Creek-Big Creek Watershed

Watershed Description:

The Brushy Creek-Big Creek Watershed is approximately 312 square miles in area.

Land Use Land Cover in Watershed (Figure 19):

There are five cities and one wastewater outfall, indicated in the Potential non-State Agency Stakeholders section, in the watershed. Two reservoirs comprising The Marlin City Lake System are within the watershed. Dominant landcover is the planted/cultivated category ($\approx 73\%$) with the next most dominant landcover being herbaceous/shrub ($\approx 11\%$). There was significant change in land use in this watershed with $\approx 14\%$ increase in the planted/cultivated category and $\approx 16\%$ decrease in herbaceous/shrub area.

Segments in Watershed (Figure 19):

- Brushy Creek
- 1242A_01: Old Marlin City Lake
- 1242A_02: New Marlin City Lake
Monitoring Station: 16781 - NEW MARLIN CITY LK NR DAM 253 M N AND 375 METERS W OF INTERSECTION OF MARLIN AIRPORT RD AND FM 147/MCLANAHAN RD 3.6 KM NE OF MARLIN
- 1242P_01: Downstream portion of Big Creek
Monitoring Station: 16400 - BIG CREEK IMMEDIATELY UPSTREAM OF SH 6 SOUTH OF MARLIN (Figure 19.1)



- 1242P_02: Upstream portion of Big Creek, including confluence with City of Mart WWTP rec. water

Impairments in Watershed Description (Figure 19):

- 1242P_01: Recreational Use—Bacteria impairment

Possible Contributions if Impaired:

Point Sources:

- There are five cities and one wastewater outfalls in the watershed. Cities responsible for wastewater treatment plants, combined sewer systems or municipal separate storm sewer systems could create point source pollution contributing to bacterial and nutrient loads as a result of a system failure.

Non-point sources:

- Agricultural runoff: Approximately 73% of the watershed is made up of the planted/cultivated category. Runoff from agriculture and ranchland could provide contributions, potentially introducing nutrient loads in planted/cultivated areas and bacterial loading from animal production agriculture.
- Wildlife: Herbaceous/shrubland, forested land and wetland areas could provide contributions from wildlife with a coverage of approximately 20% combined. A large portion of these land coverages is along the banks of 1242P_01 as well, providing attractive habitat near the stream. A significant wildlife population can contribute to bacterial and nutrient loading. It is noted that in the 2011 edition of National Land Cover Data classification (NLCD), much of the area adjacent to 1242P_01 was classified as forested and in this most current land coverage data set, the 2024 edition of NLCD, that area is classified as wetland.

Potential non-State Agency Stakeholders:

- City of Mart
- City of Ben Hur
- City of Otto
- City of Perry
- City of Marlin
- McLennan County
- Falls County
- Limestone County
- Any marinas or other businesses on or that serve Marlin City Lake System

Actions taken if impaired:

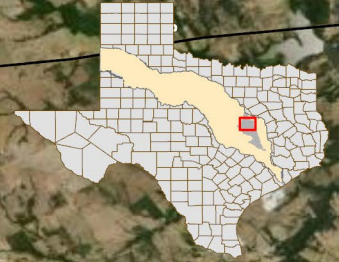
- An [RUAA](#) was completed for 1242P_01. TCEQ recommended the contact recreation use on 1242P be revised to secondary contact recreation 1. The recreational use change on 1242P is awaiting EPA action.

Recommendations if impaired:

- Await EPA action on recreational use change recommendation for 1242P.

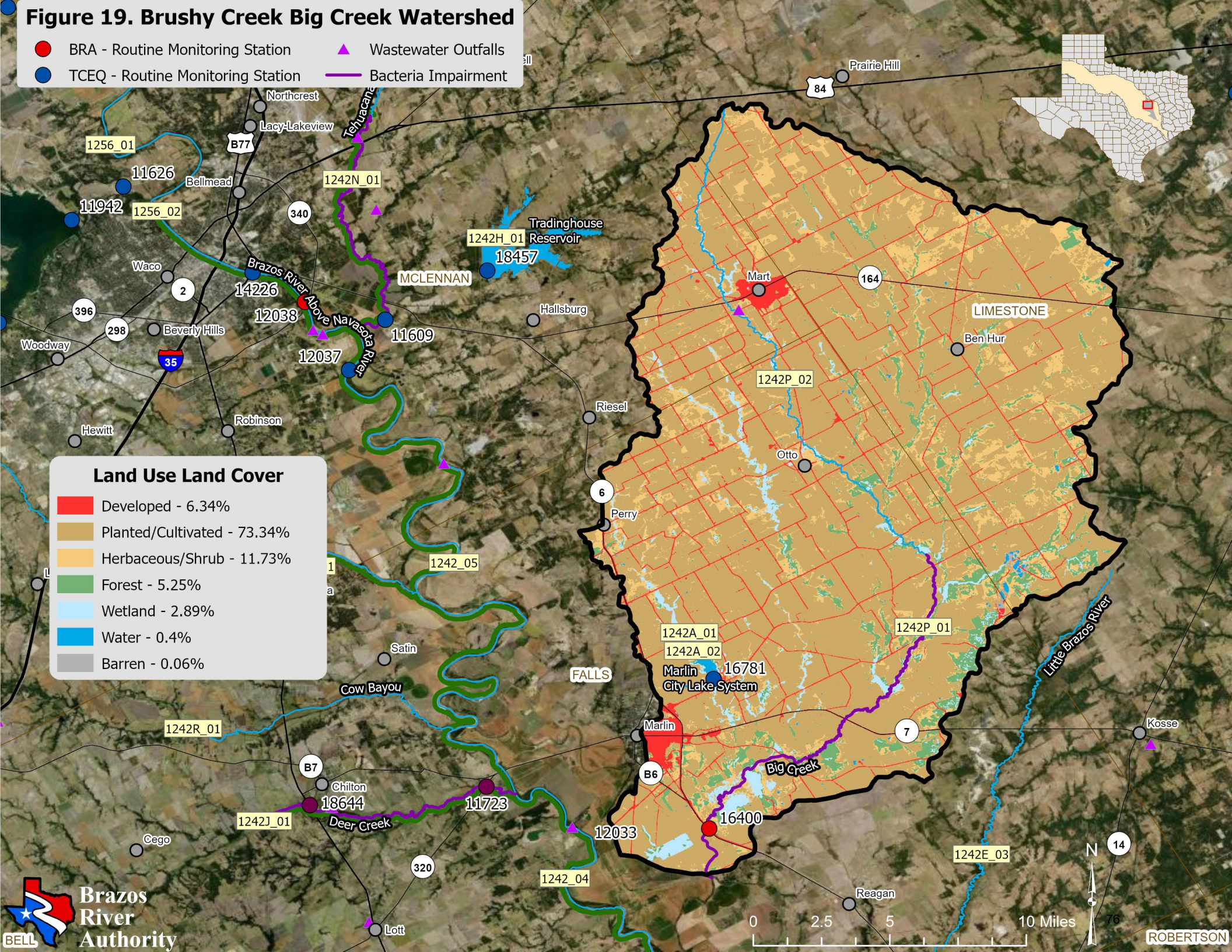
Figure 19. Brushy Creek Big Creek Watershed

- BRA - Routine Monitoring Station
- TCEQ - Routine Monitoring Station
- ▲ Wastewater Outfalls
- Bacteria Impairment



Land Use Land Cover

	Developed - 6.34%
	Planted/Cultivated - 73.34%
	Herbaceous/Shrub - 11.73%
	Forest - 5.25%
	Wetland - 2.89%
	Water - 0.4%
	Barren - 0.06%



Deer Creek-Brazos River Watershed

Watershed Description:

The Deer Creek-Brazos River Watershed is approximately 378 square miles in area.

Land Use Land Cover in Watershed (Figure 20):

There are twelve cities and five wastewater discharges, indicated in the Potential non-State Agency Stakeholders section, in the watershed. Dominant landcover is the planted/cultivated category ($\approx 54\%$) with the next most dominant landcover being herbaceous/shrub ($\approx 29\%$).

Segments in Watershed (Figure 20):

- Upstream portion of 1242_04: Portion of Brazos River from confluence with Pond Creek in Milam County upstream to confluence with Deer Creek in Falls County.
- Downstream portion of 1242_05: Portion of Brazos River from confluence with Deer Creek in Falls County upstream to confluence with Tehuacana Creek in McLennan County
- 1242J_01: Deer Creek, an Appendix D perennial stream from the confluence of the Brazos River upstream to the confluence of Dog Branch northwest of Lott
Monitoring Station: 11723 - DEER CREEK IMMEDIATELY DOWNSTREAM OF SH 320 WEST OF MARLIN (Figure 20.1)

Figure 20.1 Monitoring Station: 11723 - DEER CREEK IMMEDIATELY DOWNSTREAM OF SH 320 WEST OF MARLIN



Monitoring Station: 18644 - DEER CREEK AT US 77

- 1242Q_01: Portion of Bull Hide Creek from the confluence with the Brazos River in Falls County upstream to the confluence with unnamed tributary (NHD RC 12070101002570) in McLennan County.

- 1242Q_02: Portion of Bull Hide Creek from the confluence with unnamed tributary (NHD RC 12070101002570) upstream to the headwaters.
- 1242R_01: Cow Bayou, from the confluence with the Brazos River above Navasota River upstream to the confluence with North / South Cow Bayou in Falls County.

Impairments in Watershed Description (Figure 20):

- 1242J_01: Recreational Use—Bacteria impairment
 - There are concerns for nitrate and the macrobenthic community in 1245J_01.
 - There are also concerns for chlorophyll-*a* in 1242_04 and 1242_05 with additional concerns for nitrate in 1245_05 and 1242Q_01.

Possible Contributions if Impaired:

Point Sources:

- There are twelve cities and five wastewater discharges in the watershed. Cities responsible for wastewater treatment plants, combined sewer systems or municipal separate storm sewer systems could create point source pollution contributing to bacterial and nutrient loads as a result of a system failure.

Non-point sources:

- Agricultural runoff: Over 50% of the watershed is made up of the planted/cultivated category. Runoff from agriculture and rangeland could provide contributions, potentially introducing nutrient loads in planted/cultivated areas and bacterial loading from animal production agriculture.
- Wildlife: Herbaceous/shrubland and forested land could provide contributions from wildlife with a coverage of approximately 32%. A significant wildlife population can contribute to bacterial and nutrient loading.

Potential non-State Agency Stakeholders:

- City Hewitt
- City of Hallsburg
- City of Lorena
- City of Golinda
- City of Satin
- City of Perry
- City of Bruceville-Eddy
- City of Eddy
- City of Cego
- City of Chilton
- City of Marlin
- City of Lott
- McLennan County
- Falls County
- Bell County

Actions taken if impaired:

- An [RUAA](#) was conducted in segment 1242J_01 and results led to the recommendation that the segment remain classified as a PCR segment.

- Several data collection initiatives have occurred that included 1242J_01
 - [Characterization of Middle Yegua, Davidson, and Deer Creeks Watersheds \(May 2020\), Characterizing the Middle Yegua, Davidson Creek and Deer Creek Watersheds Final Report \(May 2020\)](#),
 - [Continued Surface Water Quality Monitoring for Middle Yegua Creek, Davidson Creek and Deer Creek Watersheds Final Report \(February 2022\)](#),
 - [Characterization of Middle Yegua, Davidson, and Deer Creeks Watersheds \(October 2022\)](#),
 - [Deer and Pond Creeks Surface Water Quality Monitoring and Education Effectiveness Final Report and Data \(May 2024\)](#)

Recommendations if impaired:

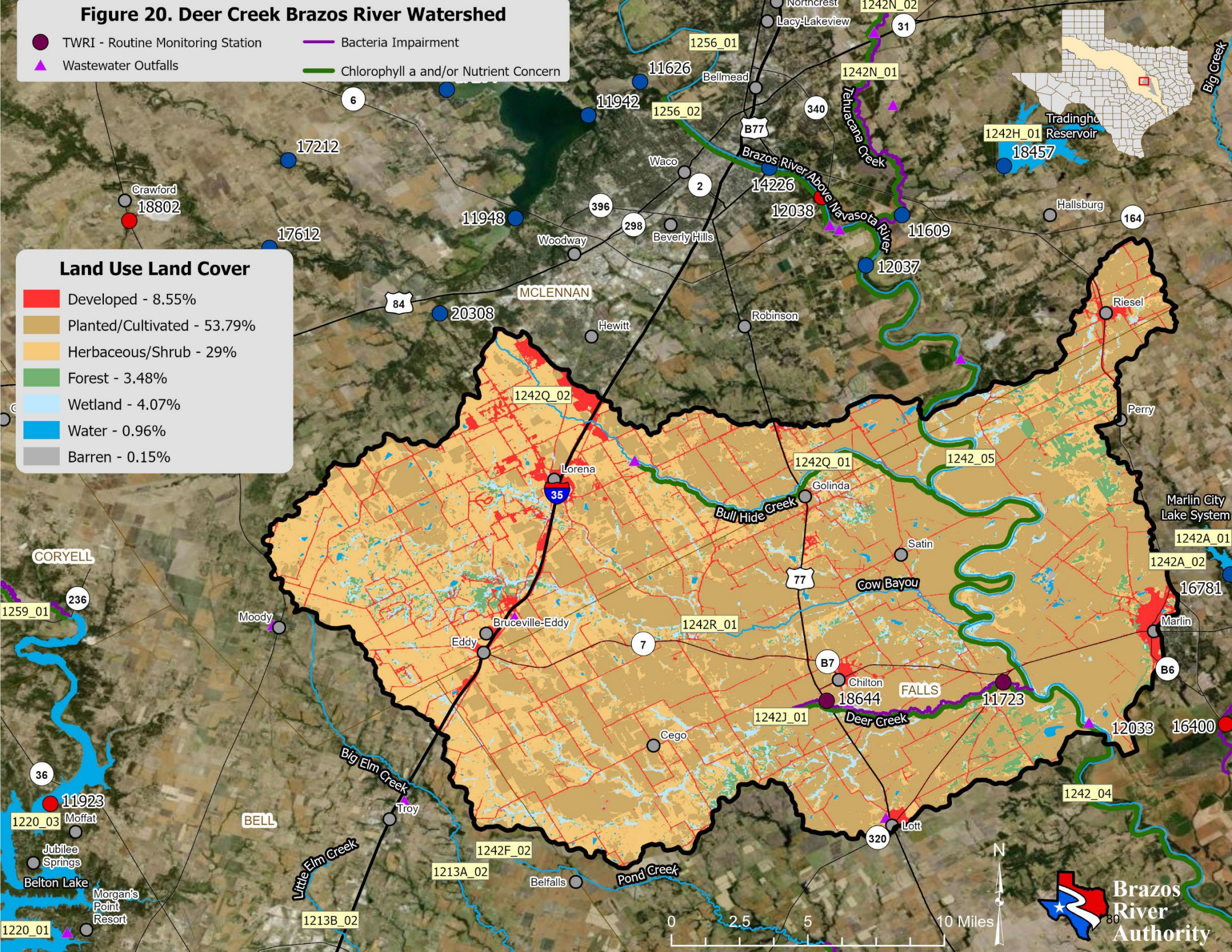
- Utilizing data acquired in the various watershed characterization studies, development of a Watershed Protection Plan (WPP) may be appropriate.

Figure 20. Deer Creek Brazos River Watershed

- TWRI - Routine Monitoring Station
- Bacteria Impairment
- ▲ Wastewater Outfalls
- Chlorophyll a and/or Nutrient Concern

Land Use Land Cover

- Developed - 8.55%
- Planted/Cultivated - 53.79%
- Herbaceous/Shrub - 29%
- Forest - 3.48%
- Wetland - 4.07%
- Water - 0.96%
- Barren - 0.15%



Pond Creek Watershed

Watershed Description:

The Pond Creek Watershed is approximately 229 square miles in area.

Land Use Land Cover in Watershed (Figure 21):

There are three cities and two wastewater outfalls, indicated in the Potential non-State Agency Stakeholders section, in the watershed. Dominant landcover is the planted/cultivated category (~84%).

Segments in Watershed (Figure 21):

- 1242F_01: Pond Creek from the Brazos confluence upstream to Live Oak Creek confluence.
Monitoring Station: 16406 - POND CREEK AT FM 2027 4.0 KILOMETERS SOUTH OF BAILEYVILLE
Monitoring Station: 22204 - POND CREEK UPSTREAM OF SH 53 (Figure 21.1)

Figure 21.1 Monitoring Station: 22204 - POND CREEK UPSTREAM OF SH 53



- 1242F_02: Pond Creek from the Live Oak Creek confluence to the headwaters 0.18 km north of FM 935 in Bell County.

Impairments in Watershed Description (Figure 21):

- 1242F_01: Recreational Use—Bacteria impairment
 - There is a concern for nitrate in 1242F_01

Possible Contributions if Impaired:

Point Sources:

- There are three cities and two wastewater outfalls in the watershed. Cities responsible for wastewater treatment plants, combined sewer systems or municipal separate storm sewer

systems could create point source pollution contributing to bacterial and nutrient loads as a result of a system failure.

Non-point sources:

- Agricultural runoff: The planted/cultivated category accounts for ≈84% of the land use in the watershed. Runoff from agriculture and rangeland could provide contributions, potentially introducing nutrient loads in planted/cultivated areas and bacterial loading from animal production agriculture.
- Wildlife: Approximately 10% of the watershed has land cover suitable for wildlife. Immediately upstream of monitoring station 16406 is the majority of the forested land in this watershed. A significant wildlife population can contribute to bacterial and nutrient loading.

Potential non-State Agency Stakeholders:

- City of Belfalls
- City of Rosebud
- City of Lott
- Westphalia Water & Sewer Supply Corp
- Bell County
- Falls County
- Milam County

Actions taken if impaired:

- An [RUAA](#) was conducted in segment 1242F_01 and results led to the recommendation that the segment remain classified as a PCR segment.
- Several data collection initiatives have occurred that included 1242F_01
 - [Deer and Pond Creeks Surface Water Quality Monitoring and Education Effectiveness Final Report and Data](#) (May 2024)
 - [Continued Monitoring on Deer and Pond Creeks to Support Watershed Characterization](#) (March 2026)

Recommendations if impaired:

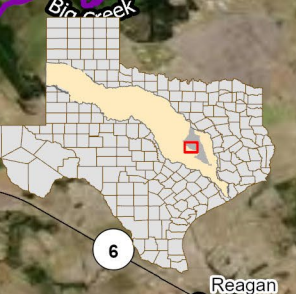
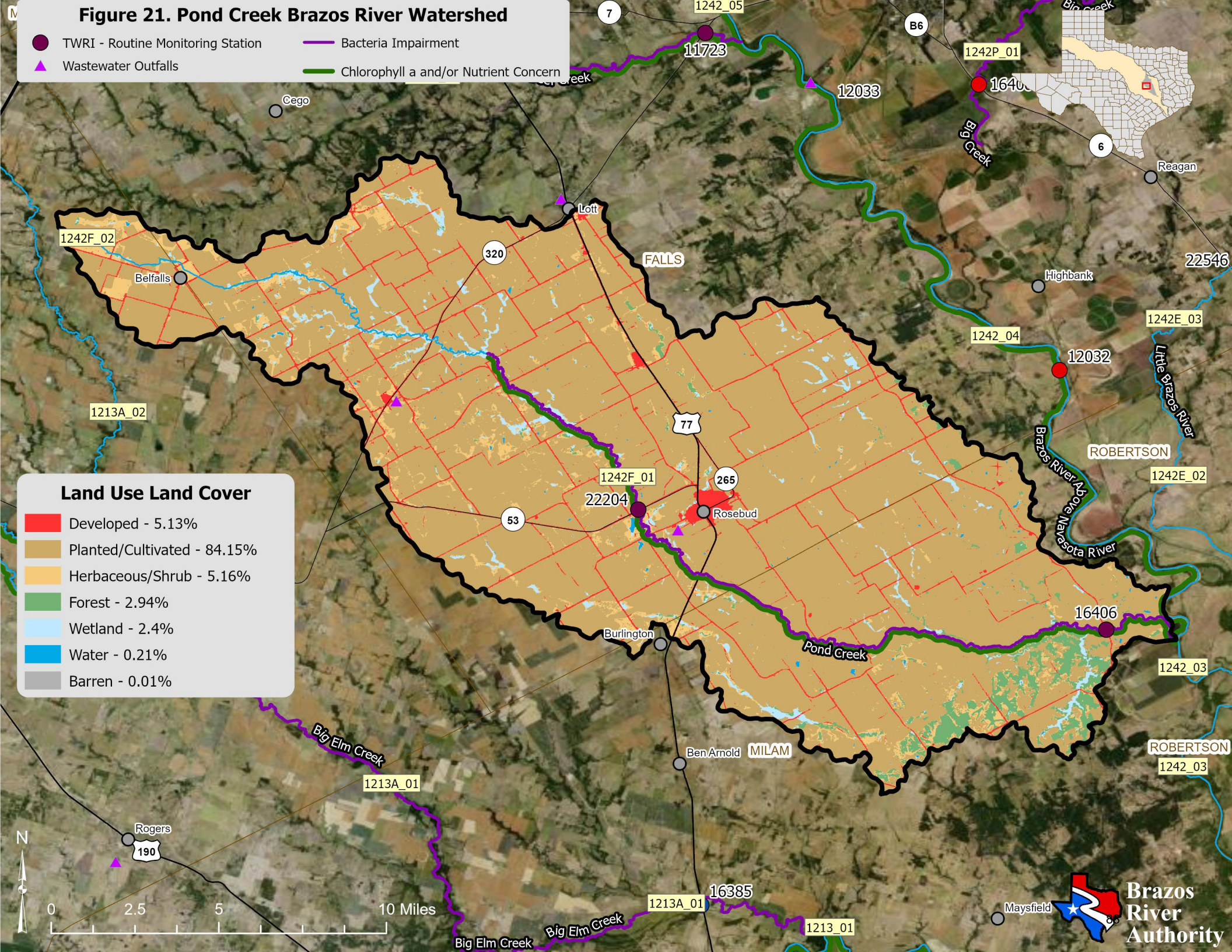
- Utilizing data acquired in the various watershed characterization studies, development of a Watershed Protection Plan (WPP) may be appropriate.

Figure 21. Pond Creek Brazos River Watershed

- TWRI - Routine Monitoring Station
- ▲ Wastewater Outfalls
- Bacteria Impairment
- Chlorophyll a and/or Nutrient Concern

Land Use Land Cover

	Developed - 5.13%
	Planted/Cultivated - 84.15%
	Herbaceous/Shrub - 5.16%
	Forest - 2.94%
	Wetland - 2.4%
	Water - 0.21%
	Barren - 0.01%



Walnut Creek-Brazos River Watershed

Watershed Description:

The Walnut Creek-Brazos River Watershed is approximately 171 square miles in area.

Land Use Land Cover in Watershed (Figure 22):

There are two cities and nine wastewater outfalls, indicated in the Potential non-State Agency Stakeholders section, in the watershed. Dominant landcover is the planted/cultivated category ($\approx 69\%$) with the next most dominant landcover being forest ($\approx 18\%$).

Segments in Watershed (Figure 22):

- Upstream portion of 1242_03: Portion of Brazos River from confluence with Little River upstream to confluence with Pond Creek in Milam County.
- Downstream portion of 1242_04: Portion of Brazos River from confluence with Pond Creek in Milam County upstream to confluence with Deer Creek in Falls County.
- Downstream portion of 1242E_02: Portion of Little Brazos River from confluence with Walnut Creek in Robertson County upstream to confluence with Fish Creek in Falls County.
- 1242O_01: Walnut Creek from the confluence with the Little Brazos River in Robertson County, upstream to the headwaters, one mi south of White Rock

Monitoring Station: 16403 - WALNUT CREEK AT SH 6 NORTHWEST OF CALVERT (Figure 22.1)



Impairments in Watershed Description (Figure 22):

- 1242O_01: Recreational Use—Bacteria
There is a concern for chlorophyll-*a* in 1242_04.

Possible Contributions if Impaired:

Point Sources:

- There are two cities and nine wastewater outfalls in the watershed. Cities responsible for wastewater treatment plants, combined sewer systems or municipal separate storm sewer systems could create point source pollution contributing to bacterial and nutrient loads as a result of a system failure.

Non-point sources:

- Agricultural runoff: Runoff from agriculture and ranchland could provide contributions with the planted/cultivated category accounting for approximately 69% of the land use in the watershed, potentially introducing nutrient loads in planted/cultivated areas and bacterial loading from animal production agriculture.
- Wildlife: Approximately 24% of the watershed has land cover suitable for wildlife which could also be a contributor. A significant wildlife population can contribute to bacterial and nutrient loading.

Potential non-State Agency Stakeholders:

- City of Bremond
- City of Hammond
- Robertson County
- Milan County
- Limestone County

Actions taken if impaired:

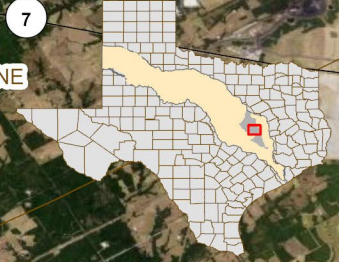
- An [RUAA](#) was completed for 1242O_01. Results have led to the recommendation that the recreational use of this segment be revised to SCR 2.
- Additional flow and *E. coli* data has been collected in 1242I_01, 1242K_01, 1242L_01 and 1242O_01 through the [Little Brazos River Tributaries Assessment and Planning Monitoring Support Final Report and Data](#) project.

Recommendations if impaired:

- Await EPA review and approval of revised recreational use for 1242O_01 before a management strategy is selected.

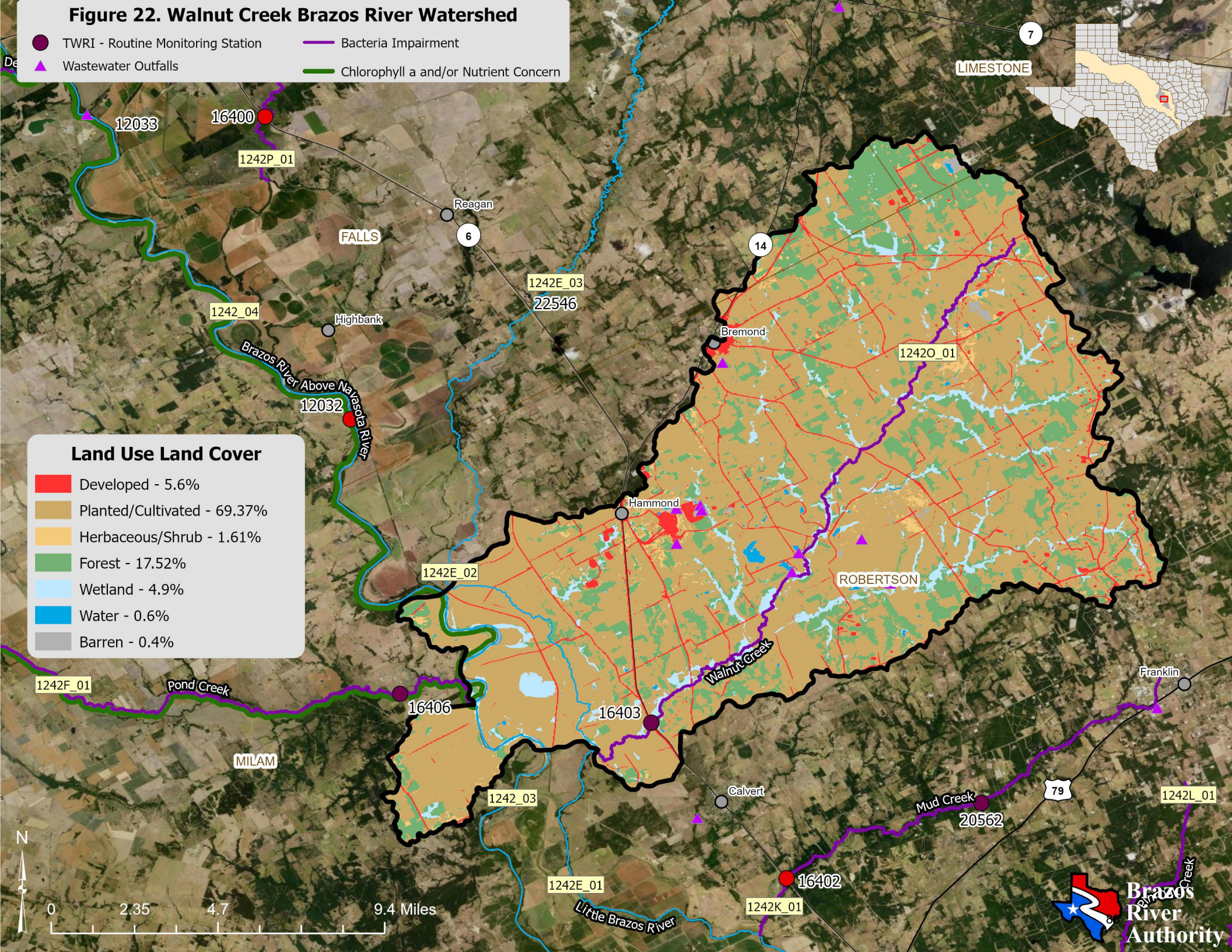
Figure 22. Walnut Creek Brazos River Watershed

- TWRI - Routine Monitoring Station
- ▲ Wastewater Outfalls
- Bacteria Impairment
- Chlorophyll a and/or Nutrient Concern



Land Use Land Cover

	Developed - 5.6%
	Planted/Cultivated - 69.37%
	Herbaceous/Shrub - 1.61%
	Forest - 17.52%
	Wetland - 4.9%
	Water - 0.6%
	Barren - 0.4%



0 2.35 4.7 9.4 Miles



Cedar Creek-Brazos River Watershed

Watershed Description:

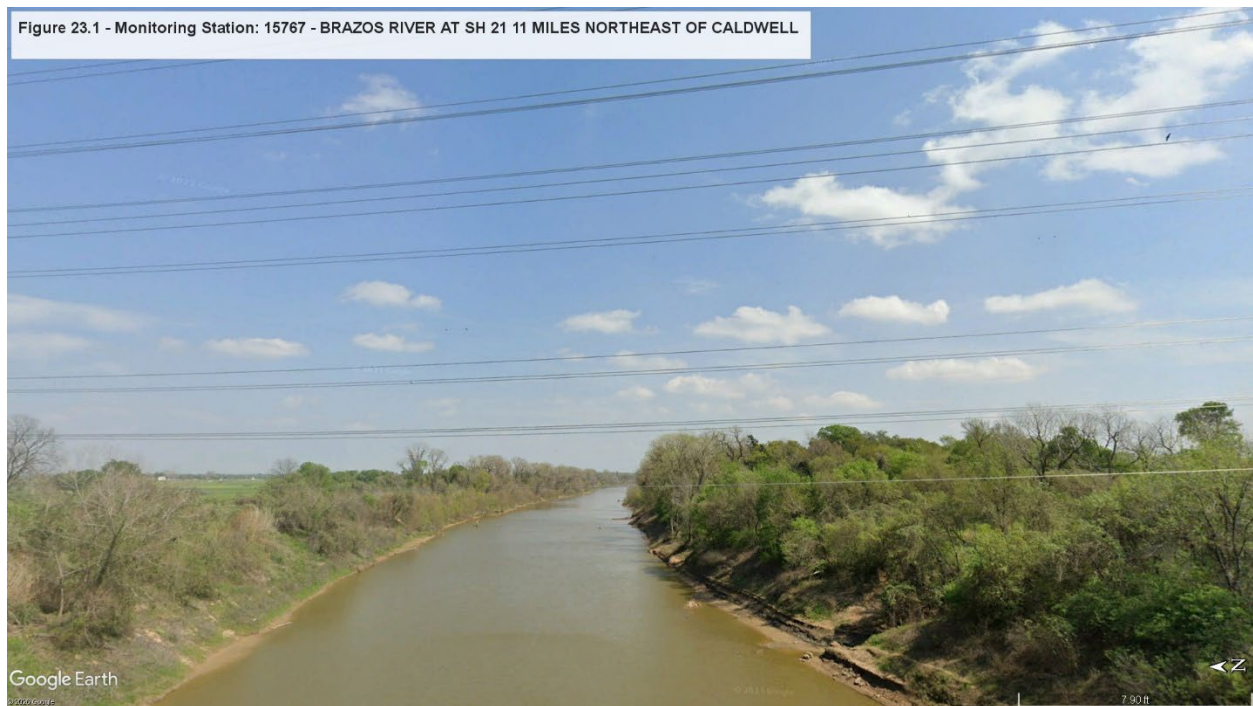
The Cedar Creek-Brazos River Watershed is approximately 564 square miles in area.

Land Use Land Cover in Watershed (Figure 23):

There are nine cities and three wastewater treatment plants, indicated in the Potential non-State Agency Stakeholders section, in the watershed. Dominant landcover is the planted/cultivated category ($\approx 65\%$) with the next most dominant landcover being forested land ($\approx 23\%$).

Segments in Watershed (Figure 23):

- Cedar Creek
- Upstream portion of 1242_02: Portion of Brazos River from confluence with Thompson's Creek in Brazos County upstream to confluence with Little River in Milam County.
Monitoring Station: 15767 - BRAZOS RIVER AT SH 21 11 MILES NORTHEAST OF CALDWELL (Figure 23.1)



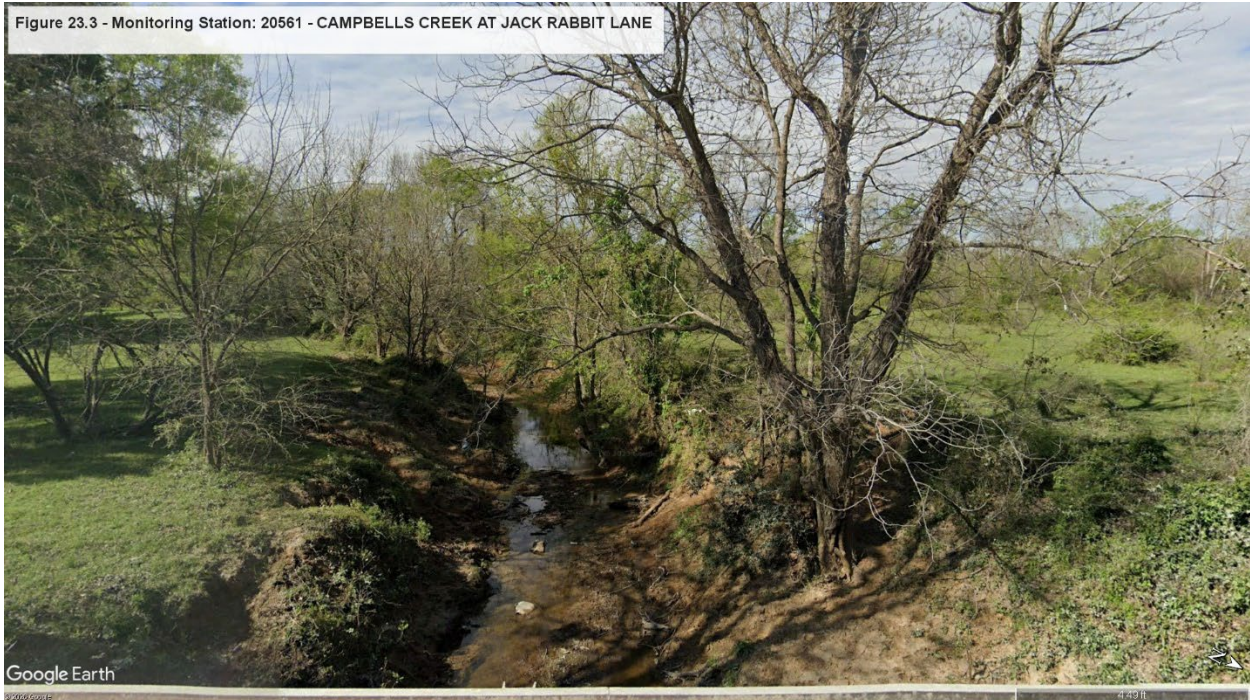
- 1242_03: Portion of Brazos River from confluence with Little River upstream to confluence with Pond Creek in Milam County.
- 1242E_01: Portion of Little Brazos River from confluence with Brazos River in Brazos County upstream to confluence with Walnut Creek in Robertson County.
Monitoring Station: 11591 - LITTLE BRAZOS RIVER IMMEDIATELY UPSTREAM OF SH 21 WEST OF BRYAN (Figure 23.2)

Figure 23.2 - Monitoring Station: 11591 - LITTLE BRAZOS RIVER IMMEDIATELY UPSTREAM OF SH 21 WEST OF BRYAN



- 1242I_01: Campbell's Creek from the confluence with the Little Brazos River upstream to the headwaters, one mi west of Old San Antonio Road
Monitoring Stations:
16395 - CAMPBELLS CREEK AT SH 6/US 190 14 MILES SOUTH OF HEARNE
20561 - CAMPBELLS CREEK AT JACK RABBIT LANE 2.25 KILOMETERS NORTH AND 1.3 KILOMETERS WEST FROM THE INTERSECTION OF JACK RABBIT LANE AND EAST OLD SAN ANTONIO ROAD / COUNTY LINE ROAD IN ROBERTSON COUNTY (Figure 23.3)

Figure 23.3 - Monitoring Station: 20561 - CAMPBELLS CREEK AT JACK RABBIT LANE



- 1242K_01: Mud Creek from confluence with the Little Brazos River, upstream to the confluence with Touchstone Branch and Wolf Den Branch, in Robertson County
Monitoring Stations:
16402 - MUD CREEK AT SH 6 4.5 MI NW OF HEARNE
20562 - MUD CREEK AT JACK BREWER ROAD / ROBERTSON CR 160 2.03 KILOMETERS NORTH AND 464 METERS WEST FROM THE INTERSECTION OF JACK BREWER ROAD / ROBERTSON CR 160 AND US 79
- 1242L_01: Pin Oak Creek from the confluence with the Little Brazos River in Robertson County upstream to the headwaters, 2.07 mi south of Franklin
Monitoring Stations:
16401 - PIN OAK CREEK AT SH 6/US 190 2 MILES SOUTHEAST OF HEARNE (Figure 23.4)



20563 - PIN OAK CREEK AT FM 391 103 METERS NORTH AND 1.61 KILOMETERS EAST FROM THE INTERSECTION OF FM 391 AND FM 2549 IN ROBERTSON COUNTY (Figure 23.5)

Figure 23.5 20563 - PIN OAK CREEK AT FM 391



- 1242M_01: Spring Creek from the confluence with the Little Brazos River in Robertson County, upstream to the headwaters, 1.5 mi north of FM 391

Monitoring Stations:

16394 - SPRING CREEK AT SH 6/US 190 8 MILES SOUTH OF HEARNE

20564 - SPRING CREEK AT JACK RABBIT LANE 1.02 KILOMETERS SOUTH AND 1.86 KILOMETERS EAST FROM THE INTERSECTION OF JACK RABBIT LANE AND FM 2549 IN ROBERTSON COUNTY (Figure 23.6)

Figure 23.6 20564 - SPRING CREEK AT JACK RABBIT LANE



Impairments in Watershed Description (Figure 23):

- 1242I_01, 1242K_01, 1242L_01 and 1242M_01: Recreational Use—Bacteria impairments
 - There is also a concern for chlorophyll *a* in 1242_02.

Possible Contributions if Impaired:

Point Sources:

- There are nine cities and three wastewater treatment plants in the watershed. Cities responsible for wastewater treatment plants, combined sewer systems or municipal separate storm sewer systems could create point source pollution contributing to bacterial and nutrient loads as a result of a system failure.

Non-point sources:

- Wildlife: Approximately 65% of the watershed is made up of the planted/cultivated category. However, near the impaired segments, forested land cover (making up ≈23% of the watershed) is the dominant land cover, providing attractive habitat for wildlife near these segments. A significant wildlife population can contribute to bacterial and nutrient loading.

Potential non-State Agency Stakeholders:

- City of Calvert
- City of Franklin
- City of Hearne
- City of Gause
- City of Milano
- City of Mumford
- City of Benchley
- City of Mooring
- City of Bryan
- Milam County
- Robertson County
- Brazos County
- Burleson County

Actions taken if impaired:

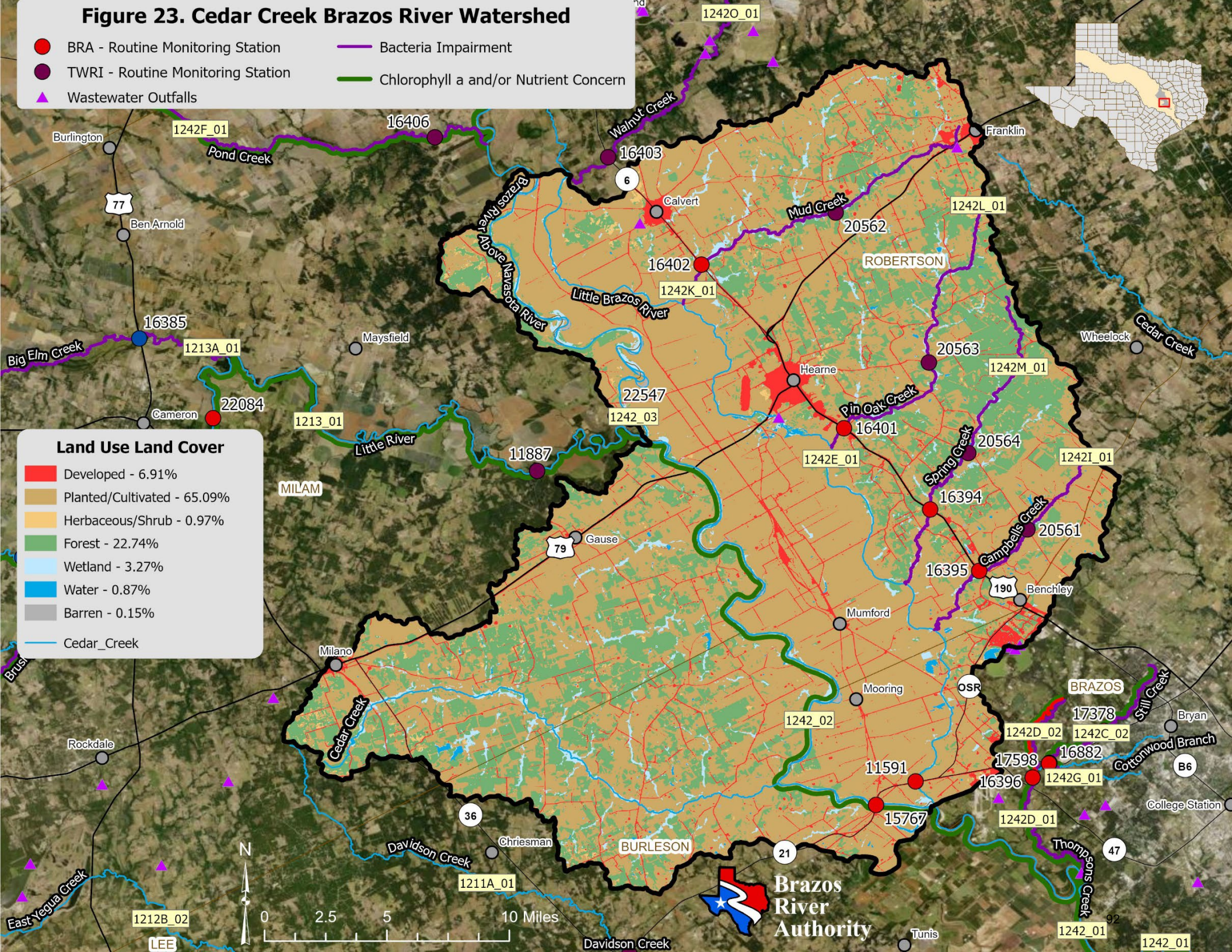
- An [RUAA](#) was completed for 1242I_01, 1242K_01, 1242L_01 and 1242M_01. Results have led to the recommendation that the recreational use be revised to SCR 1 in these segments.
- Additional flow and *E. coli* data has been collected in 1242I_01, 1242K_01, 1242L_01 and 1242M_01 through the [Little Brazos River Tributaries Assessment and Planning Monitoring Support Final Report and Data](#) project.

Recommendations if impaired:

- Await EPA review and approval of revised recreational use for 1242O_01 before a management strategy is selected.

Figure 23. Cedar Creek Brazos River Watershed

- BRA - Routine Monitoring Station
- Bacteria Impairment
- TWRI - Routine Monitoring Station
- Chlorophyll a and/or Nutrient Concern
- ▲ Wastewater Outfalls



Land Use Land Cover

- Developed - 6.91%
- Planted/Cultivated - 65.09%
- Herbaceous/Shrub - 0.97%
- Forest - 22.74%
- Wetland - 3.27%
- Water - 0.87%
- Barren - 0.15%
- Cedar_Creek



Old River-Brazos River Watershed

Watershed Description:

The Old River-Brazos River Watershed is approximately 299 square miles in area.

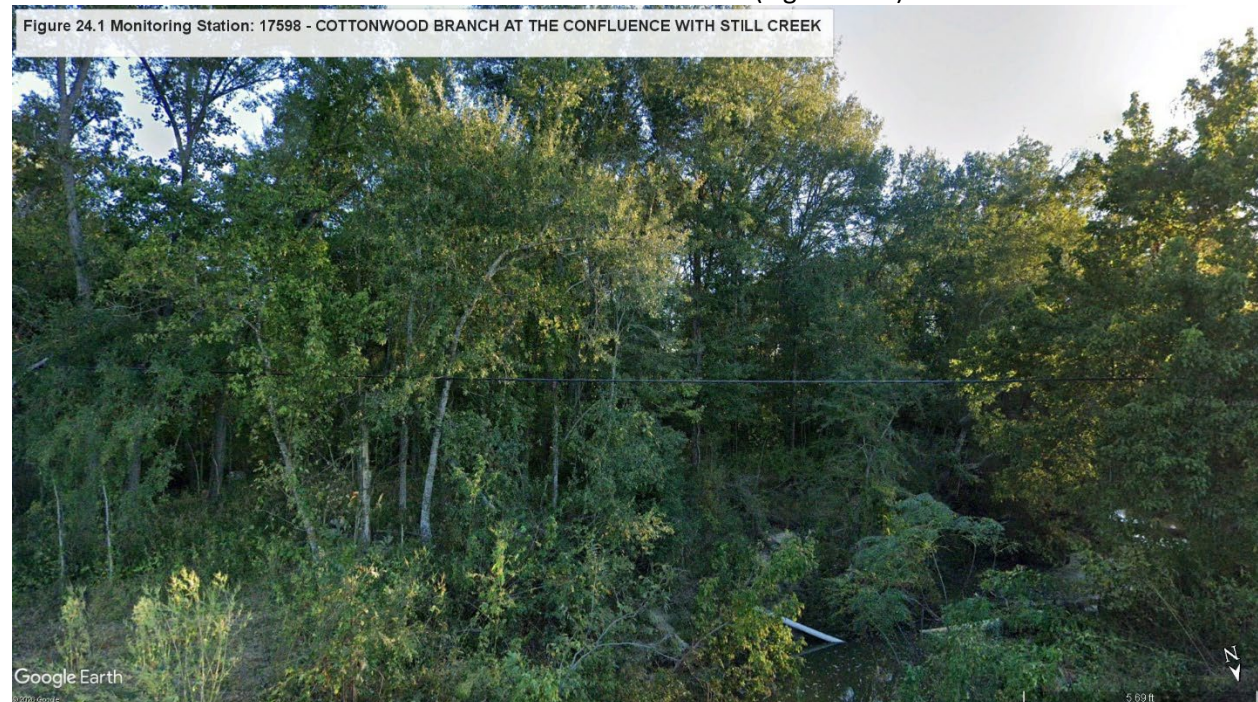
Land Use Land Cover in Watershed (Figure 24):

There are five cities and twelve wastewater outfalls, indicated in the Potential non-State Agency Stakeholders section, in the watershed. Dominant landcover is the planted/cultivated category ($\approx 67\%$) with moderate amounts of forest and herbaceous/shrub ($\approx 11\%$), and developed area ($\approx 15\%$) in the watershed.

Segments in Watershed (Figure 24):

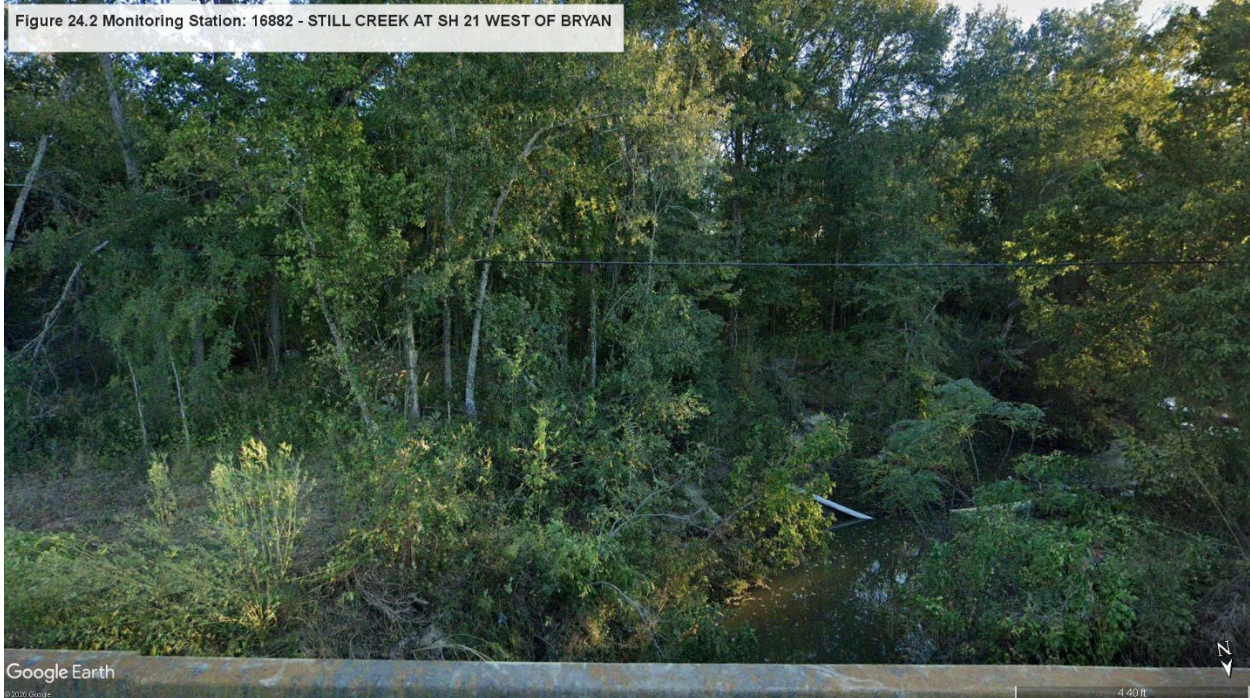
- Old River
- 1242_01: Brazos River above Navasota River, portion of Brazos River from confluence with Navasota River upstream to confluence with Thompson's Creek in Brazos County.
- 1242_02: Brazos River above Navasota River, portion of Brazos River from confluence with Thompson's Creek in Brazos County upstream to confluence with Little River in Milam County.
- 1242B_01: Portion of Cottonwood Branch from confluence with Still Creek upstream to unnamed tributary (NHD RC 12070101000835) in Brazos County.

Monitoring Station: 17598 - COTTONWOOD BRANCH AT THE CONFLUENCE WITH STILL CREEK 50 METERS DOWNSTREAM OF SH 21 (Figure 24.1)



- 1242B_02: Portion of Cottonwood Branch from confluence with unnamed tributary (NHD RC 12070101000835) upstream to headwaters in Brazos County.
- 1242C_01: Still Creek, perennial stream portion of Still Creek from the confluence with Thompsons Creek upstream to the confluence with Cottonwood Branch; Appendix D.
- 1242C_02: Portion of Still Creek from confluence with Cottonwood Branch upstream to headwaters in Brazos County near US 190.

Monitoring Station: 16882 - STILL CREEK AT SH 21 WEST OF BRYAN (Figure 24.2)



Monitoring Station: 17378 - STILL CREEK AT FM 2818 WEST OF BRYAN

- 1242D_01: Thompsons Creek, an Appendix D perennial stream from the confluence of the Brazos River upstream to the confluence of Still Creek in Brazos County.

Monitoring Station: 16396 - THOMPSONS CREEK IMMEDIATELY UPSTREAM OF SILVERHILL ROAD 765 METERS UPSTREAM OF SH 47 WEST OF BRYAN (Figure 24.3)



- 1242D_02: Thompsons Creek, an Appendix D intermittent stream with perennial pools from the confluence of Still Creek upstream to the confluence of Thompson's Branch, north of FM 1687

- 1242G_01: Unnamed Tributary of Cottonwood Branch, intermittent stream with perennial pools from the confluence with Cottonwood Branch upstream to the headwaters.

Impairments in Watershed Description (Figure 24):

- 1242B_01, 1242C_02, 1242D_01, 1242D_02: Recreational Use—Bacteria impairments
- 1242D_02: Aquatic Life Use – Depressed Dissolved Oxygen impairment
- There are concerns for chlorophyll *a* in 1242_01 and 1242_02.
- There are concerns for nitrate and total phosphorus in 1242B_01.
- There are concerns for nitrate, total phosphorus, and depressed dissolved oxygen in 1242C_02.
- There are concerns for the fish community, ammonia, nitrate and total phosphorus in 1242D_01.
- There are concerns for ammonia, chlorophyll-*a*, and the macrobenthic community in 1242D_02.

Possible Contributions if Impaired:

Point Sources:

- There are five cities and twelve wastewater outfalls in the watershed. Cities responsible for wastewater treatment plants, combined sewer systems or municipal separate storm sewer systems could create point source pollution contributing to bacterial and nutrient loads as a result of a system failure.

Non-point sources:

- Agricultural runoff: Approximately 67% of the watershed is made up of the planted/cultivated category, potentially introducing nutrient loads in planted/cultivated areas and bacterial loading from animal production agriculture.
- Urban runoff: Adjacent to the impaired segments, developed land cover is the dominant land cover, allowing for municipal and urban runoff contribution near these segments, potentially introducing bacterial and nutrient loads.

Potential non-State Agency Stakeholders:

- City of Bryan
- City of College Station
- City of Tunis
- City of Snook
- City of Wilcox
- Brazos County
- Burleson County
- Sanderson Farms, Inc
- Texas A&M University
- HYDER SYED N
- Five Nine Seven Limited Partnership
- Manitou Ltd Inc
- Wellborn Special Utility District
- TCB Rental Inc

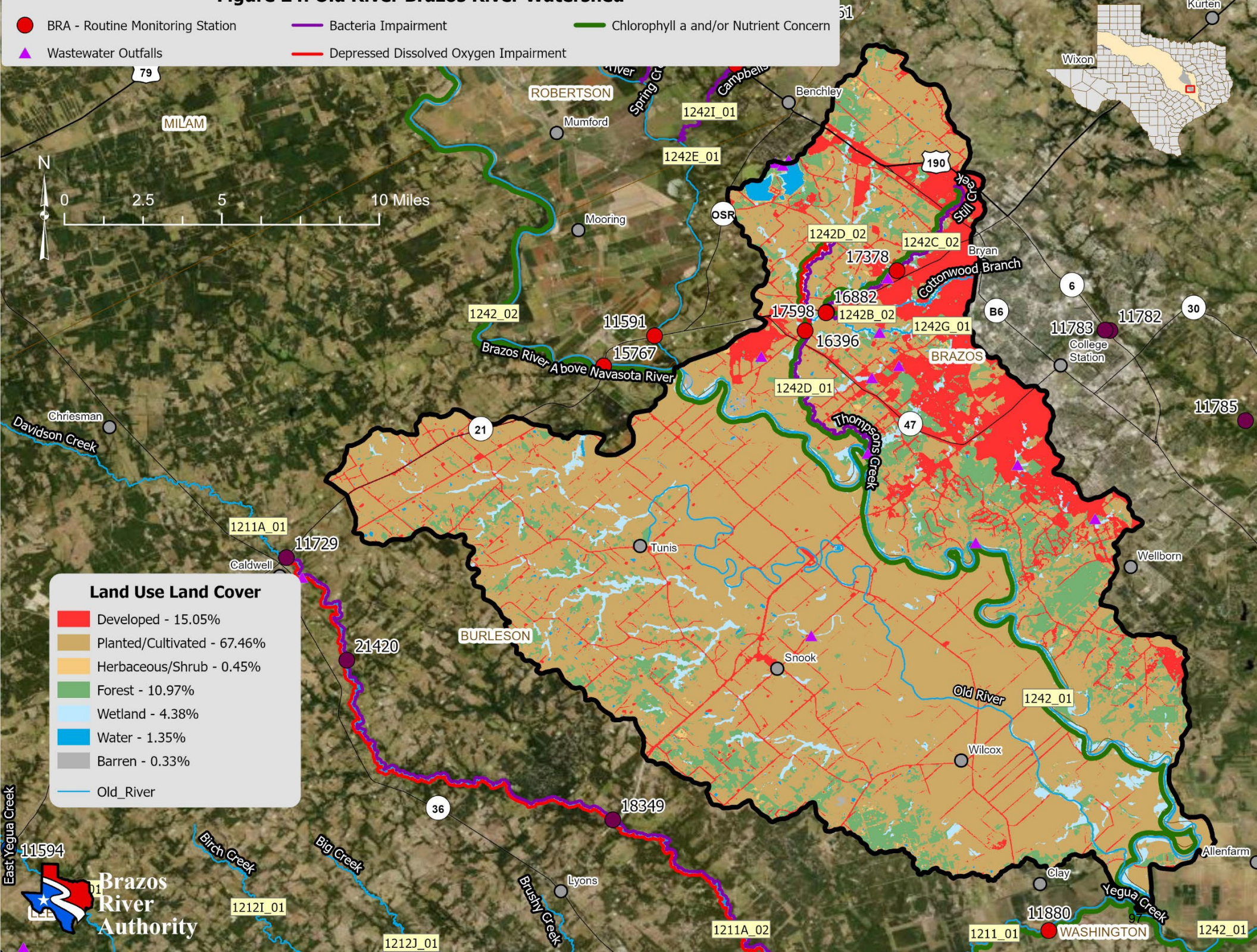
Actions taken if impaired:

- To address the depressed dissolved oxygen impairment, a UAA was performed on 1242D_02 through the Two Data Collection Initiatives project administered by BRA, ending in 2013. The UAA was performed to determine if the existing ALU and dissolved oxygen (DO) criteria were appropriate, and if not, provide data for establishing new standards. Findings suggested that ALU designations for 1242D_02 should be hydrologically-based. Differential ALU designations may be necessary for physical habitat, benthic macroinvertebrates, and fish. Flow-dependent DO criteria may also be required.
- [RUAAs](#) were completed for 1242B, 1242C, and 1242D. EPA has approved the revision of the recreational use standard of segment 1242B to SCR1. Segment 1242C remains classified as a PCR segment. It is recommended that 1242D be revised to the recreational use standard of SCR1. This recreational use change is awaiting EPA action on the recommendation.
- Several data collection initiatives have occurred that included 1242B, 1242C and 1242D.
 - [Watershed Characterization of the Thompsons Creek Watershed](#) (June 2020),
 - [Comparison of Daily Streamflow Estimation Methods in the Thompsons Creek Watershed](#) (July 2021),
 - [Streamflow and Water Quality Properties in the Thompsons Creek Watershed in the Vicinity of Bryan/College Station, 2020–2022](#) (September 2022)
 - [Technical Support Document for Five Total Maximum Daily Loads for Indicator Bacteria in the Thompsons Creek Watershed, Texas](#) (January 2023)
- Development of the [Thompson's Creek Watershed Protection Plan](#) began in July 2024 and is currently underway.

Recommendations taken if impaired:

- Await stakeholder completion and EPA review and approval of the Thompsons Creek Watershed Protection Plan before management strategies are selected.
- Await EPA action on the 1242D recommendation before management strategies are selected.

Figure 24. Old River Brazos River Watershed

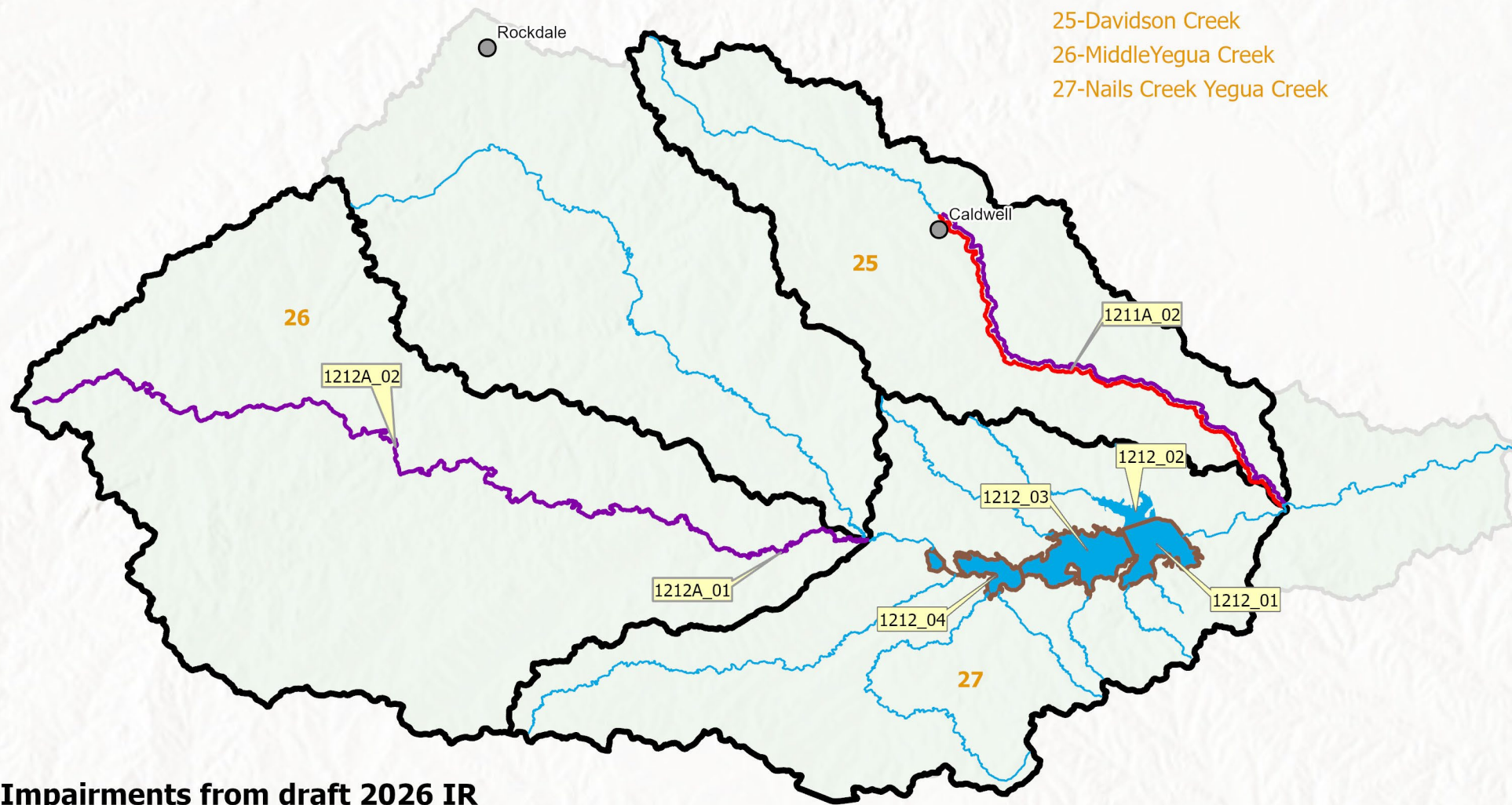


Yegua Creek Watershed

The Yegua Creek Watershed drains approximately 1316 square miles through Milam, Lee, Burleson and Washington Counties. Land usage in the watershed is primarily agricultural. Oil and gas production has been, and is currently, a major operation in the watershed. Additionally, there is a large lignite mining operation located in the upper area near the City of Rockdale. Rockdale, along with four other small, rural communities (Caldwell, Lexington, Somerville, and Giddings) are the largest in the watershed.

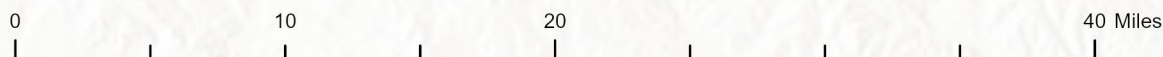
Watersheds of Interest

- 25-Davidson Creek
- 26-MiddleYegua Creek
- 27-Nails Creek Yegua Creek



Impairments from draft 2026 IR

- Bacteria Impairment
- Depressed Dissolved Oxygen Impairment
- pH Impairment



Davidson Creek Watershed

Watershed Description:

The Davidson Creek Watershed is approximately 219 square miles in area.

Land Use Land Cover in Watershed (Figure 25):

There are three cities and one wastewater outfall, indicated in the Potential non-State Agency Stakeholders section, in the watershed. Dominant landcover is the planted/cultivated category ($\approx 64\%$) with the next most dominant landcover being forest ($\approx 21\%$).

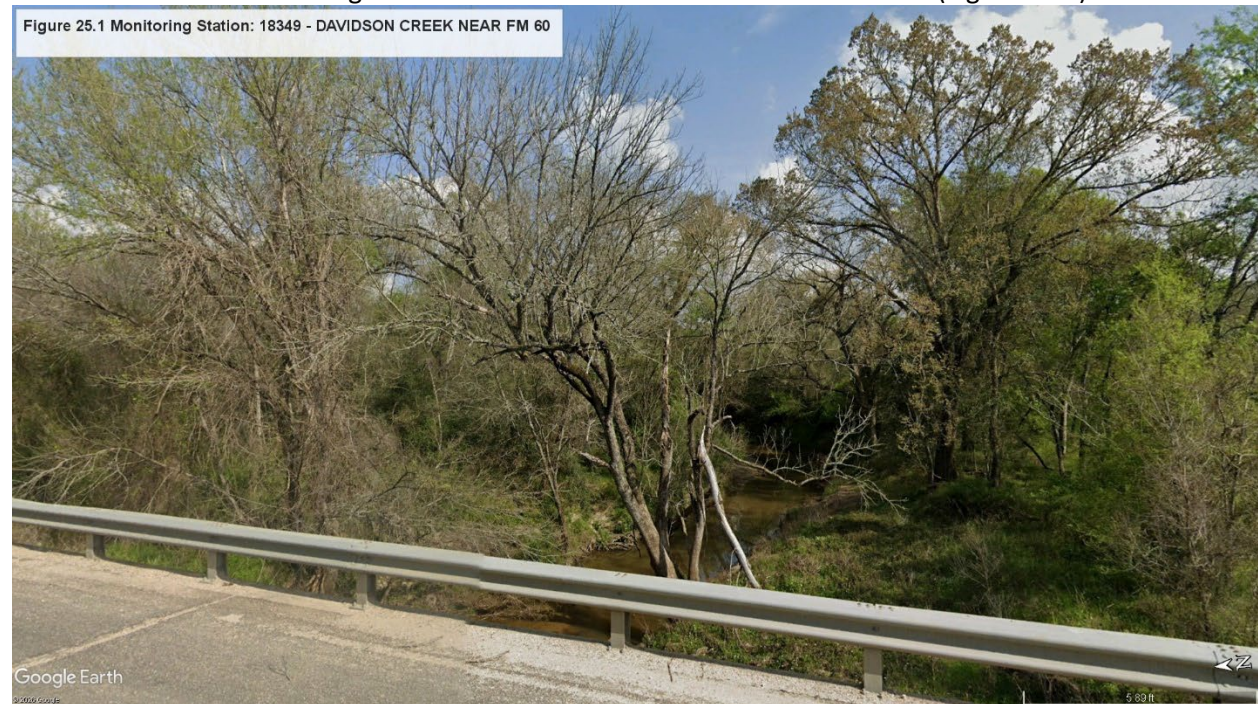
Segments in Watershed (Figure 25):

- 1211A_01: Davidson Creek from 0.2 km above SH 21 near the City of Caldwell upstream to the headwaters 1.7 km above CR 322; Appendix D.
- 1211A_02: Davidson Creek, intermittent stream with perennial pools from the confluence with Yegua Creek upstream to 0.2 km above SH 21 near the City of Caldwell; Appendix D.

Monitoring Station: 11729 - DAVIDSON CREEK AT SH 21

Monitoring Station: 21420 - DAVIDSON CREEK AT BURLESON COUNTY ROAD 122

Monitoring Station: 18349 - DAVIDSON CREEK NEAR FM 60 (Figure 25.1)



Impairments in Watershed Description (Figure 25):

- 1211A_02: Aquatic Life Use – Depressed Dissolved Oxygen impairment and Recreational Use – Bacteria impairment

Possible Contributions if Impaired:

Point Sources:

- There are three cities and one wastewater outfalls in the watershed. Cities responsible for wastewater treatment plants, combined sewer systems or municipal separate storm sewer systems could create point source pollution contributing to bacterial and nutrient loads as a result of a system failure.

Non-point sources:

- Agricultural runoff: Approximately 64% of the watershed is made up of the planted/cultivated category. Runoff from agriculture and ranchland could provide contributions, potentially introducing nutrient loads in planted/cultivated areas and bacterial loading from animal production agriculture.
- Wildlife: Approximately 27% of the watershed has land cover suitable for wildlife. A significant wildlife population can contribute to bacterial and nutrient loading.

Potential non-State Agency Stakeholders:

- City of Chriesman
- City of Caldwell
- City of Lyons
- Milam County
- SOUTH CENTRAL WATER CO

Actions taken if impaired:

- An [RUAA](#) was conducted in segment 1211A_01 and results led to the recommendation that the segment remain classified as a PCR segment.
- Several data collection initiatives have occurred that included 1242J_01
 - [Characterization of Middle Yegua, Davidson, and Deer Creeks Watersheds \(May 2020\), Characterizing the Middle Yegua, Davidson Creek and Deer Creek Watersheds Final Report \(May 2020\)](#),
 - [Continued Surface Water Quality Monitoring for Middle Yegua Creek, Davidson Creek and Deer Creek Watersheds Final Report \(February 2022\)](#),
 - [Characterization of Middle Yegua, Davidson, and Deer Creeks Watersheds \(October 2022\)](#)
- Development of the [Davidson Creek Watershed Protection Plan](#) began in February 2025 and is currently underway.

Recommendations taken if impaired:

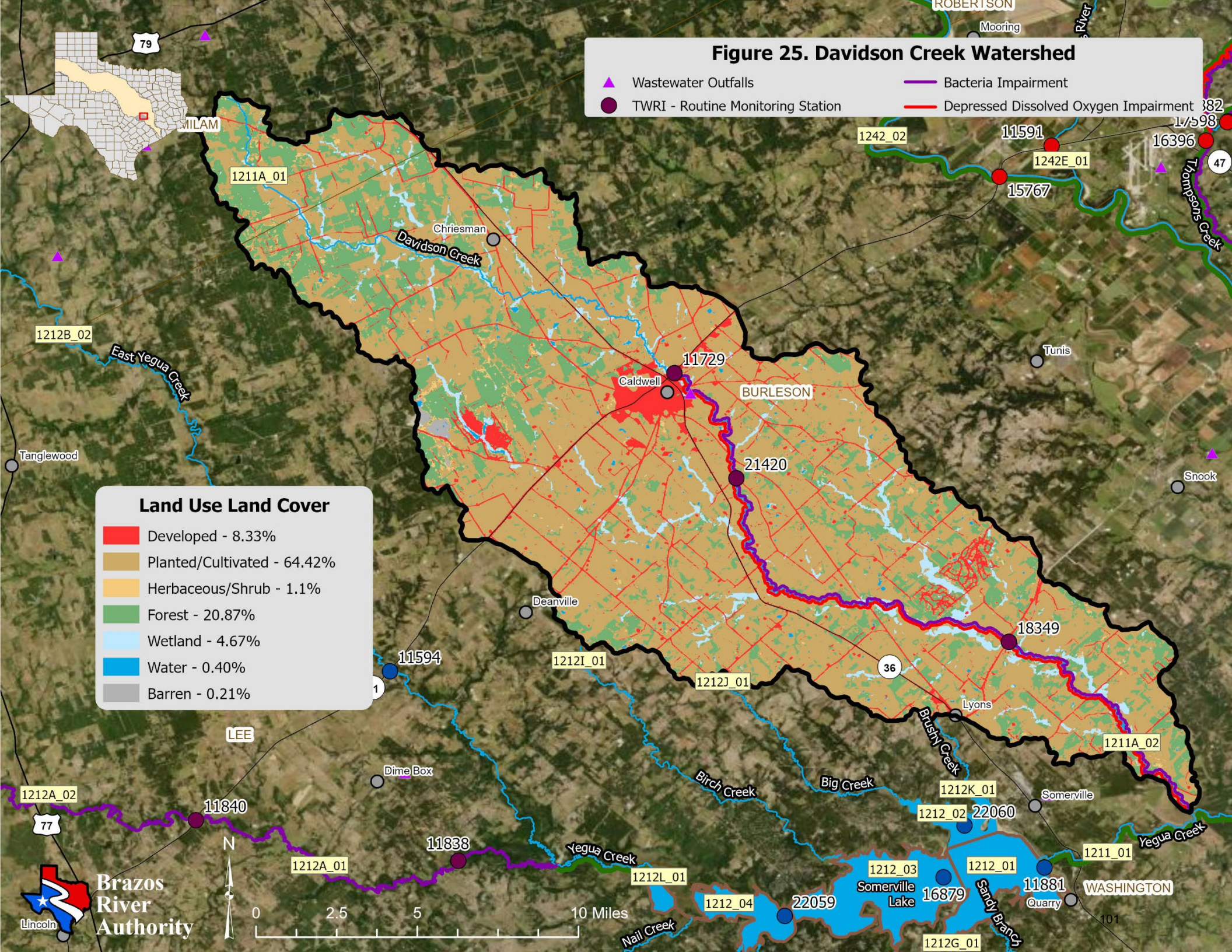
- Await stakeholder completion and EPA review and approval of the Davidson Creek Watershed Protection Plan before management strategies are selected.

Figure 25. Davidson Creek Watershed

▲ Wastewater Outfalls — Bacteria Impairment
● TWRI - Routine Monitoring Station — Depressed Dissolved Oxygen Impairment

Land Use Land Cover

- Developed - 8.33%
- Planted/Cultivated - 64.42%
- Herbaceous/Shrub - 1.1%
- Forest - 20.87%
- Wetland - 4.67%
- Water - 0.40%
- Barren - 0.21%



Middle Yegua Creek Watershed

Watershed Description:

The Middle Yegua Creek Watershed is approximately 442 square miles in area.

Land Use Land Cover in Watershed (Figure 26):

There are two cities and six wastewater outfalls, indicated in the Potential non-State Agency Stakeholders section, in the watershed. Dominant landcover includes the planted/cultivated category ($\approx 66\%$), with forested land being the next most dominant ($\approx 20\%$). There is some mining activity in the watershed as well.

Segments in Watershed (Figure 26):

- 1212A_01: Middle Yegua Creek from confluence with East Yegua Creek upstream to confluence with West Yegua Creek in Lee County.
Monitoring Station: 11838 - MIDDLE YEGUA CREEK IMMEDIATELY UPSTREAM OF FR 141 4 MILES SOUTHEAST OF DIME BOX (Figure 26.1)



- 1212A_02: Middle Yegua Creek from confluence with West Yegua Creek upstream to headwaters of water body in Williamson County.
Monitoring Stations:
11840 - MIDDLE YEGUA CREEK AT SH 21 4.4 MILES NORTHEAST OF LINCOLN (Figure 26.2)

Figure 26.2 11840 - MIDDLE YEGUA CREEK AT SH 21 4.4 MILES NORTHEAST OF LINCOLN



18750 - MIDDLE YEGUA CREEK IMMEDIATELY UPSTREAM OF FM 696 (Figure 26.3)

Figure 26.3 Monitoring Station: 18750 - MIDDLE YEGUA CREEK IMMEDIATELY UPSTREAM OF FM 696



Impairments in Watershed Description (Figure 26):

- 1212A_01: Recreational Use – Bacteria impairment
- 1212A_02: Recreational Use – Bacteria impairment
 - There is also a concern for depressed dissolved oxygen and habitat in 1212A_02.

Possible Contributions if Impaired:

Point Sources:

- There are two cities and six wastewater outfalls in the watershed. Cities responsible for wastewater treatment plants, combined sewer systems or municipal separate storm sewer systems could create point source pollution contributing to bacterial and nutrient loads as a result of a system failure.

Non-point sources:

- Agricultural runoff: Approximately 66% of the watershed is made up of the planted/cultivated category. Runoff from agriculture and ranchland could provide contributions, potentially introducing nutrient loads in planted/cultivated areas and bacterial loading from animal production agriculture.
- Wildlife: Approximately 28% of the watershed has land cover suitable for wildlife. A significant wildlife population can contribute to bacterial and nutrient loading.

Potential non-State Agency Stakeholders:

- City of Lexington
- City of Lincoln
- Williamson County
- Milam County
- Lee County
- Bastrop County
- MANVILLE WATER SUPPLY CORPORATION
- ALCOA INC
- LUMINANT MINING CO LLC
- AQUA WSC

Actions taken if impaired:

- An [RUAA](#) was conducted in segment 1212A_01 and results led to the recommendation that the segment remain classified as a PCR segment.
- In April 2018, TWRI began the [Characterization of Middle Yegua, Davidson, and Deer Creeks project](#).

Recommendations if impaired:

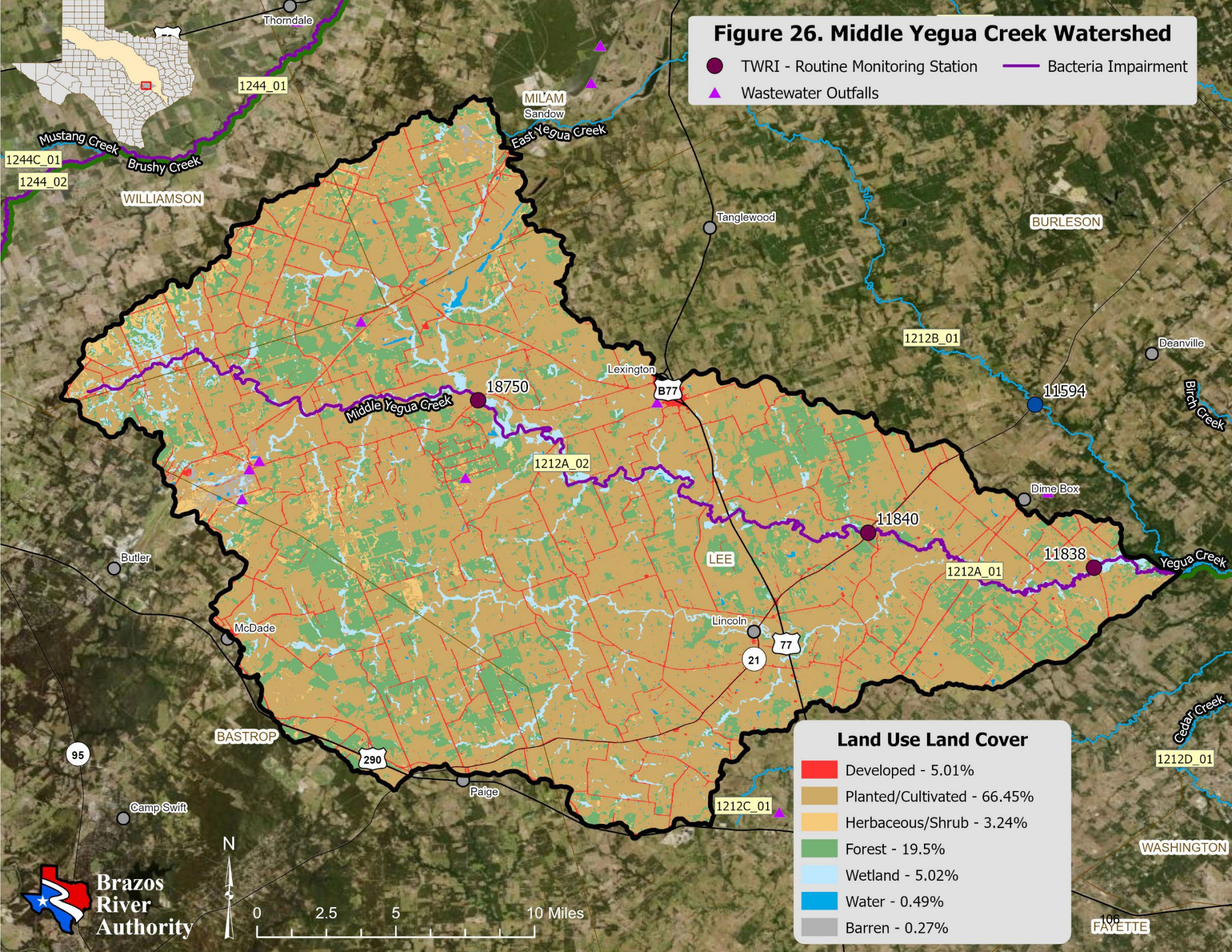
- Several data collection initiatives have occurred that included 1212A.
 - [Characterization of Middle Yegua, Davidson, and Deer Creeks Watersheds \(May 2020\), Characterizing the Middle Yegua, Davidson Creek and Deer Creek Watersheds Final Report \(May 2020\)](#),
 - [Continued Surface Water Quality Monitoring for Middle Yegua Creek, Davidson Creek and Deer Creek Watersheds Final Report \(February 2022\)](#),
 - [Characterization of Middle Yegua, Davidson, and Deer Creeks Watersheds \(October 2022\)](#)
- The [Middle Yegua Creek Watershed Protection Plan](#) aims to address water quality issues in the Middle Yegua Creek Watershed. Development of the Middle Yegua Creek Watershed Protection Plan was initiated in January 2024. The final draft plan was accepted by the EPA in February 2025, and the plan is in implementation.

Recommendations taken if impaired:

- Continue to follow and implement recommended best management practices outlined in the Middle Yegua Creek WPP and monitor for water quality improvements.

Figure 26. Middle Yegua Creek Watershed

- TWRI - Routine Monitoring Station
- Bacteria Impairment
- ▲ Wastewater Outfalls



Land Use Land Cover

- Developed - 5.01%
- Planted/Cultivated - 66.45%
- Herbaceous/Shrub - 3.24%
- Forest - 19.5%
- Wetland - 5.02%
- Water - 0.49%
- Barren - 0.27%



Nails Creek-Yegua Creek Watershed

Watershed Description:

The Nails Creek-Yegua Creek Watershed is approximately 304 square miles in area.

Land Use Land Cover in Watershed (Figure 27):

There are three cities and three wastewater outfalls, indicated in the Potential non-State Agency Stakeholders section, in the watershed. Dominant landcover includes the planted/cultivated category ($\approx 63\%$), with forested land being the next most dominant ($\approx 17\%$). Somerville Lake lies within the watershed.

Segments in Watershed (Figure 27):

- Upstream portion of 1211_01: Yegua Creek from the confluence with the Brazos River in Burleson/Washington County to Somerville Dam in Burleson/Washington County.
- 1212_01: Somerville Lake, Eastern end of reservoir near dam.
Monitoring Station: 11881 - SOMERVILLE LAKE NEAR DAM 117 METERS SOUTH AND 29 METERS WEST OF DAM OUTFLOW USGS SITE AC
- 1212_02: Somerville Lake, Northern arm of reservoir near town of Somerville.
Monitoring Station: 22060 - SOMERVILLE LAKE BIG CREEK ARM 0.743 KM W. OF WELCH PARK LOOP
- 1212_03: Somerville Lake, Middle of reservoir near Birch Creek State Park.
Monitoring Station: 16879 - LAKE SOMERVILLE MID LAKE WEST OF DAM 2.72 KILOMETERS SOUTH AND 2.59 KILOMETERS EAST OF INTERSECTION OF REC ROAD 4 AND BURLESON CR 416
- 1212_04: Somerville Lake, Western end of reservoir near upper segment boundary.
Monitoring Station: 22059 - SOMERVILLE LAKE UPPER PORTION 1.229 KM S. OF INTERSECTION OF LAKEVIEW LANE WITH BIRCH LANE AND AT THE ADJOINING POINT OF BURLESON LEE AND WASHINGTON COUNTIES
- 1212C_01: Nails Creek from the confluence of Yegua Creek upstream to the headwater 340 m north of US 290 west of Giddings.
- 1212D_01: Cedar Creek from the confluence of Somerville Lake upstream to the headwater approximately 2 km north of US 290 approximately 2.2 km west of Burton.
- 1212E_01: McCain Creek from the confluence of Somerville Lake upstream to the headwater near FM 390 W (La Bahia Trail W) approximately 3 km northeast of Burton.
- 1212F_01: Burns Creek from the confluence of Somerville Lake upstream to the headwater approximately 1.4 km north of the intersection of FM 390 W (La Bahia Trail W) and FM 1948 northeast of Burton.
- 1212G_01: Jerdelle Creek from the confluence of Somerville Lake upstream to the headwater near FM 390 W (La Bahia Trail W) approximately 9 km northeast of Burton.
- 1212H_01: Sandy Branch from the confluence of Somerville Lake upstream to the headwater near Haack Lane approximately 4.7 km west of the intersection of FM 390 W (La Bahia Trail W) and SH 36.
- 1212I_01: Birch Creek from the confluence of Somerville Lake upstream to the headwater at FM 60 approximately 11 km south of Caldwell.
- 1212J_01: Big Creek from the confluence of Somerville Lake upstream to the headwater at FM 976 (Frenstat Rd) approximately 12.8 km northwest of Somerville

- 1212K_01: Brushy Creek from the confluence of Somerville Lake upstream to the headwater near the intersection of Burlison CR 408 and CR 415 approximately 3 km northwest of Somerville.
- 1212L_01: Yegua Creek from the confluence of Somerville Lake upstream to the confluence of East Yegua and Middle Yegua Creeks at the Burlison and Lee County Line.

Impairments in Watershed Description (Figure 27):

- 1212_01, 1212_03 and 1212_04: General Use—high pH impairments
There are concerns for chlorophyll-*a* in 1211_01 and 1212L_01.

Possible Contributions if Impaired:

Point Sources:

- There are three cities and three wastewater outfalls in the watershed. Cities responsible for wastewater treatment plants, combined sewer systems or municipal separate storm sewer systems could create point source pollution contributing to bacterial and nutrient loads as a result of a system failure.

Non-point sources:

- Agricultural runoff: Approximately 63% of the watershed is made up of the planted/cultivated category. Runoff from agriculture and rangeland could provide contributions, potentially introducing nutrient loads in planted/cultivated areas and bacterial loading from animal production agriculture.
- Wildlife: Approximately 23% of the watershed has land cover suitable for wildlife. A significant wildlife population can contribute to bacterial and nutrient loading.

Potential non-State Agency Stakeholders:

- City of Somerville
- City of Lyons
- City of Giddings
- Lee County
- Burlison County
- Washington County
- Camp for all Foundation
- Any marinas or other businesses on or that serve Somerville Lake

Actions taken if impaired:

- Additional data collection including routine monitoring of ten tributaries to Somerville Lake (1212); algae identification, low-level nutrient, silica sampling and algal assays in 1212; and stormwater monitoring in selected subwatersheds were conducted through the Two Data Collection Initiatives project administered by BRA, ending in 2013. No point sources were identified as contributing to the impairment. Internal nutrient cycling within the lake appeared to be the most likely cause of the elevated pH in the reservoir.
- In 2024, evaluation of new assessment methods for 24-hour pH began.

Recommendations if Impaired:

- Continue to monitor long-term stations in segment 1212.

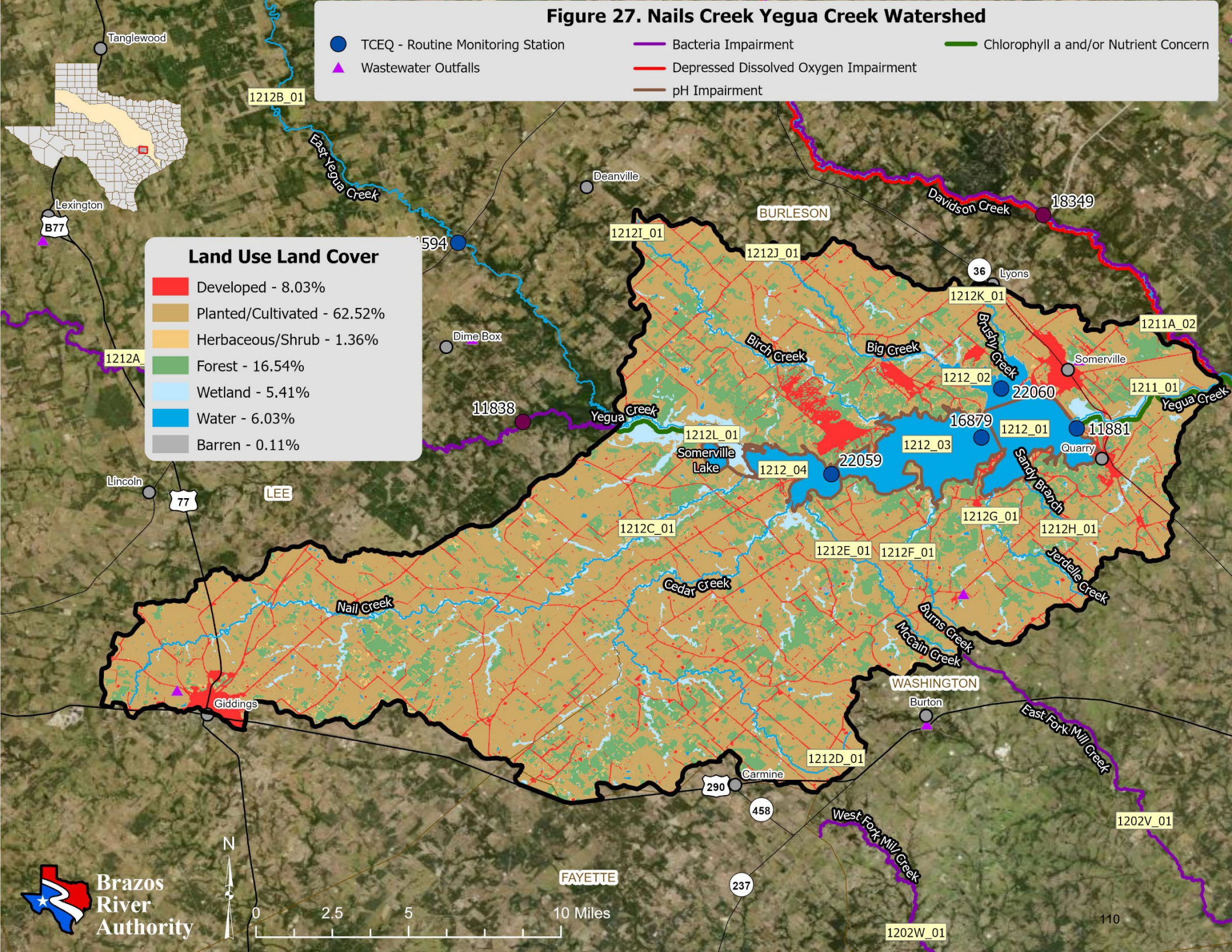
- Await results of evaluation of assessment methods for 24-hour pH and assess achieved pH in 1212 with new methods if approved and appropriate.

Figure 27. Nails Creek Yegua Creek Watershed

- TCEQ - Routine Monitoring Station
- Bacteria Impairment
- Chlorophyll a and/or Nutrient Concern
- ▲ Wastewater Outfalls
- Depressed Dissolved Oxygen Impairment
- pH Impairment

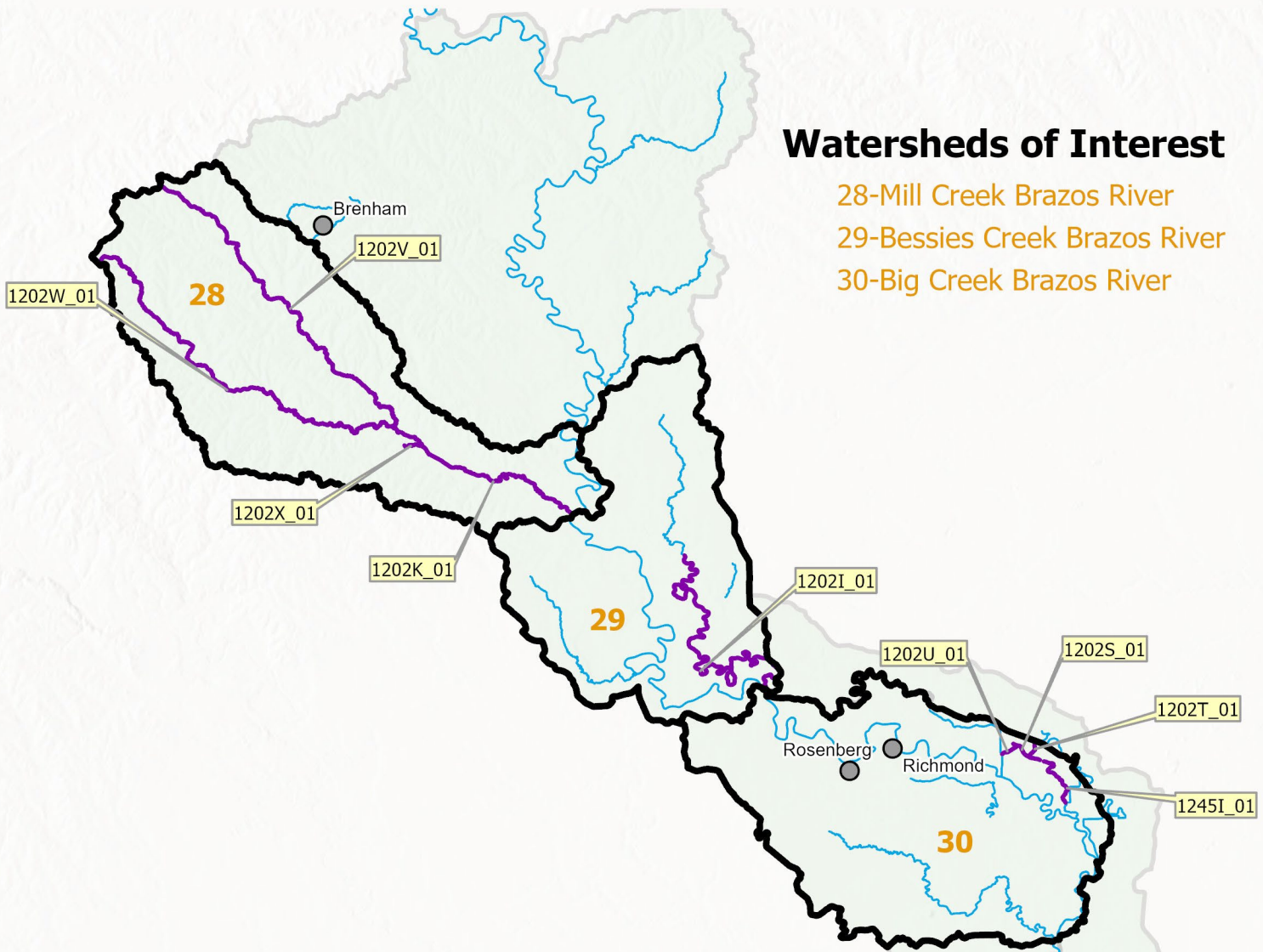
Land Use Land Cover

	Developed - 8.03%
	Planted/Cultivated - 62.52%
	Herbaceous/Shrub - 1.36%
	Forest - 16.54%
	Wetland - 5.41%
	Water - 6.03%
	Barren - 0.11%



Lower Watershed of the Brazos River and Upper and Middle Oyster Creek Watersheds

The Lower Brazos Watershed and the Upper and Middle Oyster Watersheds drain approximately 2,342 square miles through Washington, Grimes, Waller, Austin, Fort Bend, and Brazoria Counties before discharging into the Gulf of Mexico. Land uses include agriculture, oil and gas retrieval, chemical industry, and municipalities. Agricultural interests include row crops such as cotton, corn, and sorghum in the northern counties of the watershed, and rice and sorghum in Brazoria County with cattle and chicken farming throughout the watersheds. Surface mining operations can be found in Grimes County. There is also a concentration of chemical industry activity in Brazoria County. Fort Bend County has experienced an explosion of growth with the sprawl of the Houston metropolitan area.



Watersheds of Interest

- 28-Mill Creek Brazos River
- 29-Bessies Creek Brazos River
- 30-Big Creek Brazos River

Impairments from draft 2026 IR

— Bacteria Impairment

Mill Creek-Brazos River Watershed

Watershed Description:

The Mill Creek-Brazos River Watershed is approximately 424 square miles in area.

Land Use Land Cover in Watershed (Figure 28):

There are six cities and five wastewater outfalls, indicated in the Potential non-State Agency Stakeholders section, in the watershed. Dominant landcover is the planted/cultivated category ($\approx 76\%$). Forested land is the next most dominant ($\approx 11\%$).

Segments in Watershed (Figure 28):

- Downstream portion of 1202_04: Brazos River below Navasota River, portion of Brazos River from the confluence with Mill Creek in Austin County upstream to confluence with Lewisville Creek in Waller County.
- 1202K_01: Portion of Mill Creek from confluence with Brazos River upstream to confluence with East/West Forks Mill Creek in Austin County.

Monitoring Stations:

21577 - MILL CREEK AT FM331, 5.7 KILOMETERS SOUTH OF INTERSECTION OF FM529 AND FM331 AND COMMUNITY OF BURLEIGH (Figure 28.1)

Figure 28.1 Monitoring Station: 21577 - MILL CREEK AT FM331, 5.7 KILOMETERS SOUTH OF INTERSECTION OF FM529 AND FM331 AND COMMUNITY OF BURLEIGH



11576 - MILL CREEK IMMEDIATELY DOWNSTREAM OF SH 36 SOUTHEAST OF BELLVILLE
 21579 - MILL CREEK AT FM 2429, 6 KM SOUTH OF BELLVILLE AND 3.2 KM NORTH OF FM 949 (Figure 28.2)

Figure 28.2 Monitoring Station: 21579 - MILL CREEK AT FM 2429, 6 KM SOUTH OF BELLVILLE AND 3.2 KM NORTH OF FM 949

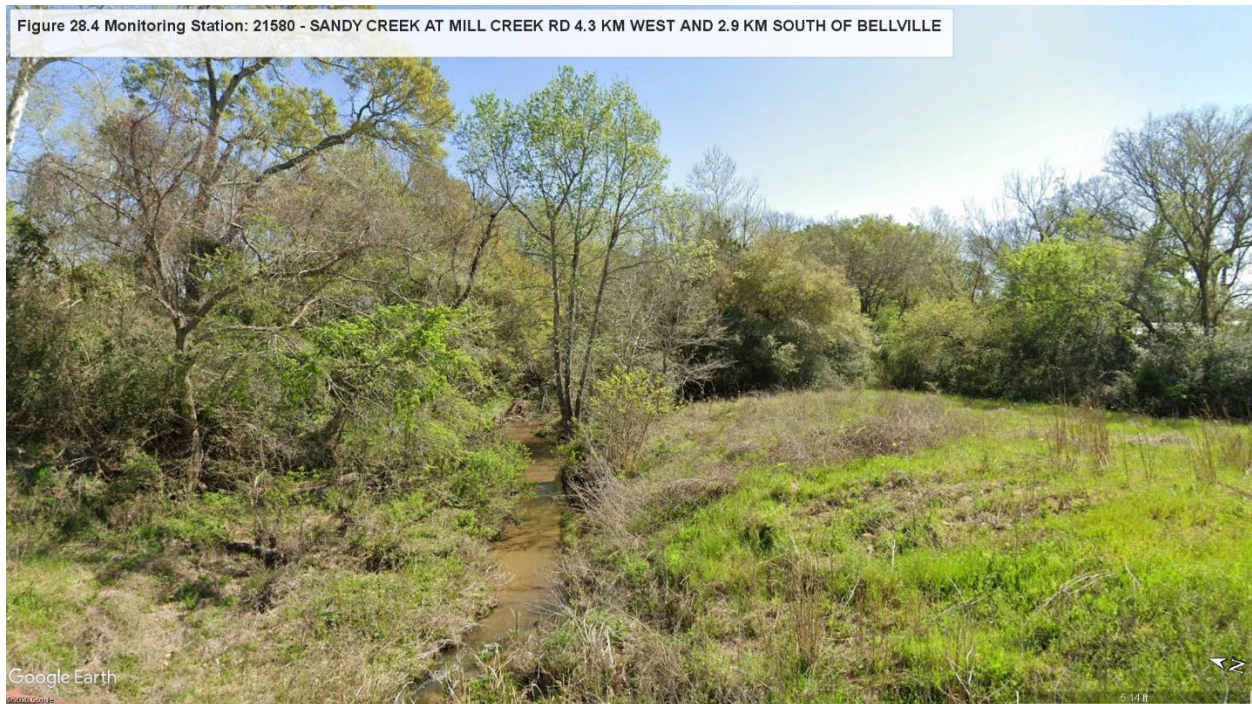


-
- 1202V_01: East Fork Mill Creek, from confluence of Mill Creek and West Mill Creek upstream 34.3 miles
Monitoring Station: 21584 - EAST FORK MILL CREEK AT FM 159/OLD NELSONVILLE RD 6.7 KM WEST OF BELLVILLE (Figure 28.3)

Figure 28.3 Monitoring Station: 21584 - EAST FORK MILL CREEK AT FM 159/OLD NELSONVILLE RD 6.7 KM WEST OF BELLVILLE



- 1202W_01: West Fork Mill Creek, from confluence of Mill Creek and East Mill Creek upstream 39.1 miles
Monitoring Station: 21582 - WEST FORK MILL CREEK AT TIEMANN RD 7.7 KM EAST OF INDUSTRY
- 1202X_01: Sandy Creek, from confluence of Mill Creek upstream 1.8 miles
Monitoring Station: 21580 - SANDY CREEK AT MILL CREEK RD 4.3 KM WEST AND 2.9 KM SOUTH OF BELLVILLE (Figure 28.4)



Impairments in Watershed Description (Figure 28):

- 1202K_01, 1202V_01, 1202W_01, 1202X_01: Recreational Use—bacteria impairments
 - There is a concern for impaired habitat for 1202K_01.

Possible Contributions if Impaired:

Point Sources: There are six cities and five wastewater outfalls in the watershed. Cities responsible for wastewater treatment plants, combined sewer systems or municipal separate storm sewer systems could create point source pollution contributing to bacterial and nutrient loads as a result of a system failure.

Non-point sources:

- **Agricultural runoff:** Approximately 76% of the watershed is made up of the planted/cultivated category. Runoff from agriculture and rangeland could provide contributions, potentially introducing nutrient loads in planted/cultivated areas and bacterial loading from animal production agriculture.
- **Wildlife:** Approximately 17% of the watershed has land cover suitable for wildlife. A significant wildlife population can contribute to bacterial and nutrient loading.

Potential non-State Agency Stakeholders:

- City of Burton
- City Kenney
- City of Industry
- City of Bellville
- City of New Ulm
- City of Peters
- Washington County
- Austin County
- Waller County
- US STEEL TUBULAR PRODUCTS INC

Actions taken if impaired:

- The [Mill Creek Watershed Protection Plan](#), addressing issues in segment 1202K, began public meetings in November 2014 forming the Mill Creek Watershed Partnership. The WPP was approved and signed by the Steering Committee in January of 2016 and accepted by EPA in February of 2016. The project is in the implementation phase.

Recommendations if impaired:

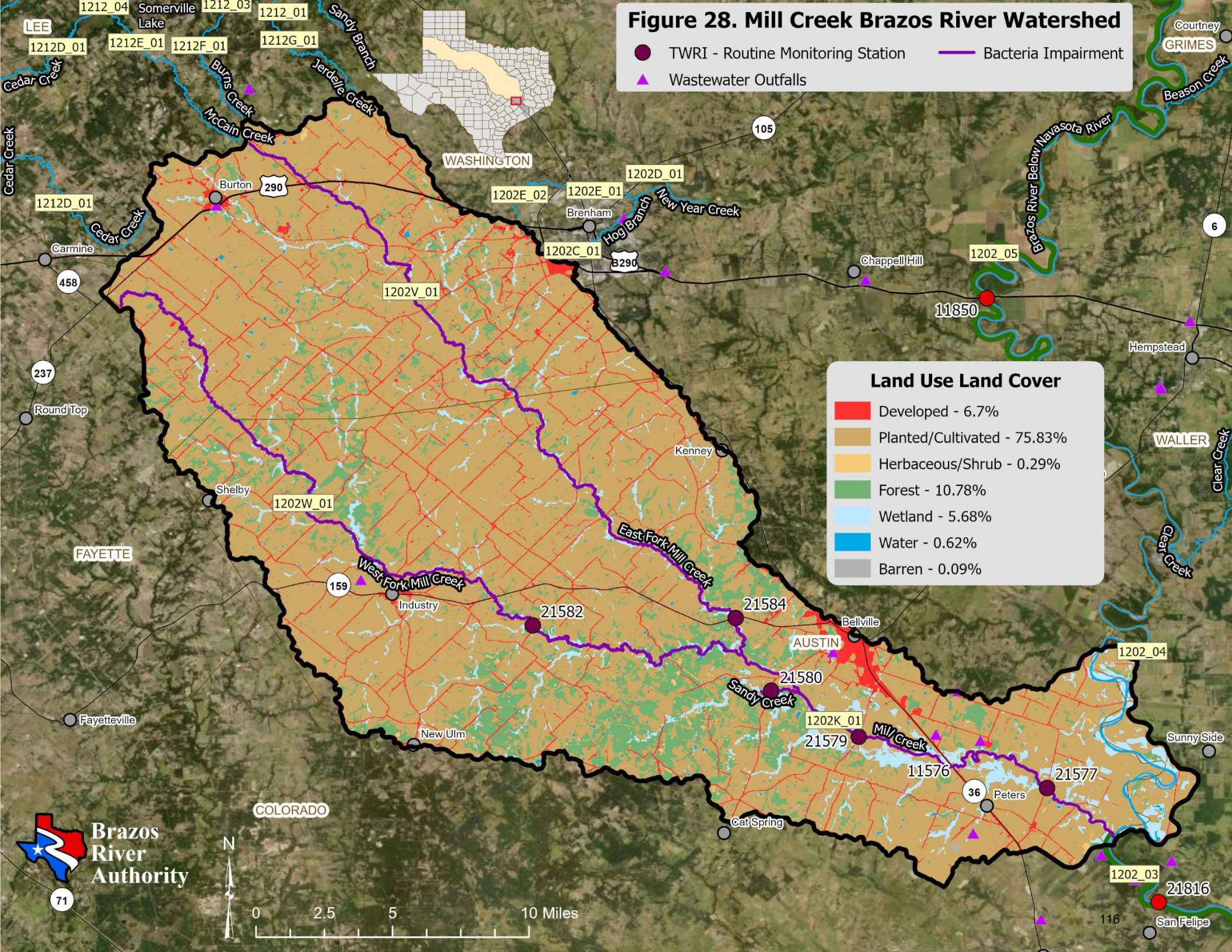
- Continue to follow and implement recommended best management practices outlined in the Mill Creek WPP and monitor for water quality improvements.

Figure 28. Mill Creek Brazos River Watershed

- TWRI - Routine Monitoring Station
- Bacteria Impairment
- ▲ Wastewater Outfalls

Land Use Land Cover

	Developed - 6.7%
	Planted/Cultivated - 75.83%
	Herbaceous/Shrub - 0.29%
	Forest - 10.78%
	Wetland - 5.68%
	Water - 0.62%
	Barren - 0.09%



Brazos River Authority



0 2.5 5 10 Miles

Bessie's Creek Watershed

Watershed Description:

The Bessie's Creek Watershed is approximately 318 square miles in area.

Land Use Land Cover in Watershed (Figure 29):

There are seven cities and thirty wastewater outfalls, indicated in the Potential non-State Agency Stakeholders section, in the watershed. Dominant landcover is the planted/cultivated category ($\approx 74\%$) with the next most dominant landcover being developed ($\approx 12\%$). There is a fair amount of wetland area in the watershed (8%).

Segments in Watershed (Figure 29):

- 1202_03: Brazos River below Navasota River, portion of the Brazos River from the confluence with Bessie's Creek in Fort Bend County upstream to the confluence with Mill Creek in Austin County

Monitoring Station: 21816 - BRAZOS RIVER AT FM 1458 NEAR SAN FELIPE (Figure 29.1)



- 1202G_01: Brookshire Creek, appendix D perennial stream from the confluence of an unnamed tributary located 0.2 km downstream of SH 359 upstream to 500 m upstream of US 90
Monitoring Station: 22502 - BROOKSHIRE CREEK NEAR ROGERS ROAD (Figure 29.2)

Figure 29.2 Monitoring Station: 22502 - BROOKSHIRE CREEK NEAR ROGERS ROAD



- 1202H_01: Allen's Creek. from the confluence with the Brazos River, two mi northeast of Wallis, to the headwaters one mi north of IH 10 in Austin County.
Monitoring Stations:
11577 - ALLENS CREEK AT FM 1458 NORTH OF WALLIS (Figure 29.3)

Figure 29.3 Monitoring Station: 11577 - ALLENS CREEK AT FM 1458 NORTH OF WALLIS



21753 - ALLENS CREEK AT MIXVILLE RD SOUTH OF SEALY (Figure 29.4)

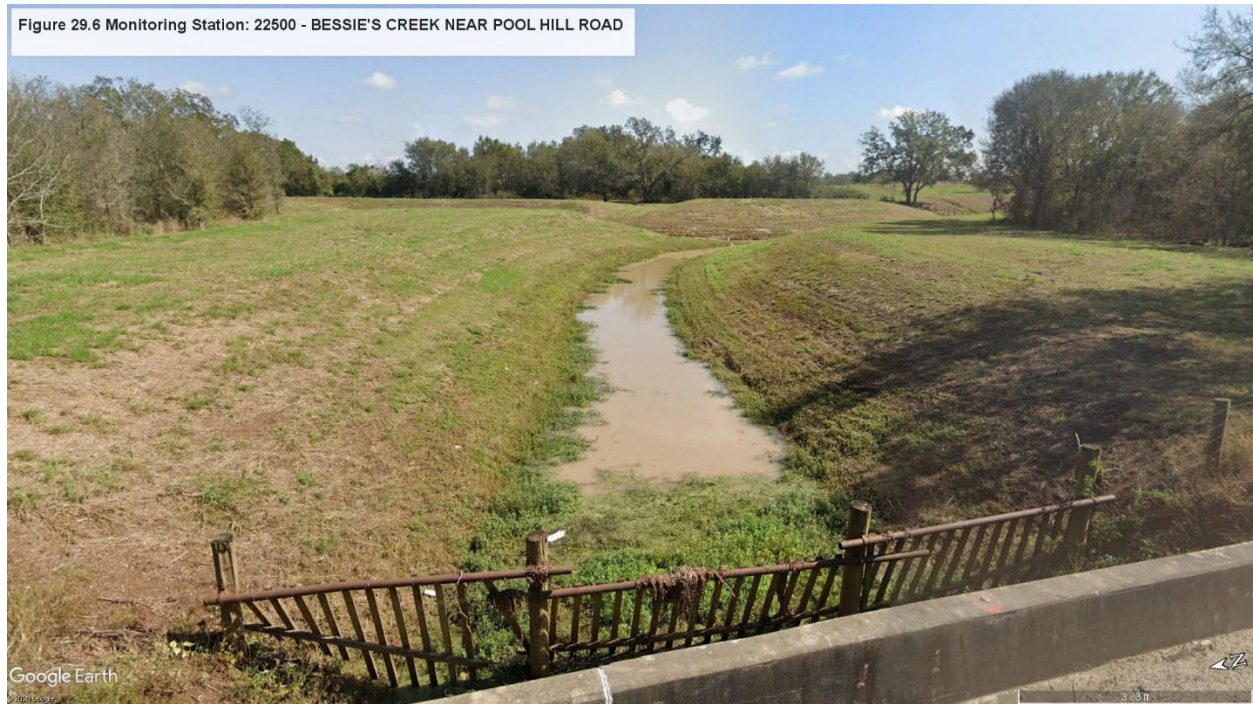


- 12021_01: Bessie's Creek from the confluence of the Brazos River in Fort Bend County upstream to confluence of Bessie's Bayou west of Brookshire
Monitoring Station: 21814 - BESSIES CREEK AT FM 1093 EAST OF FULBROOK ROAD AND SW OF FULSHEAR (Figure 29.5)



Monitoring Station: 22498 - BESSIE'S CREEK NEAR FM 529

Monitoring Station: 22500 - BESSIE'S CREEK NEAR POOL HILL ROAD (Figure 29.6)



Monitoring Station: 22501 - BESSIE'S CREEK NEAR FULSHEAR LAKE WAY

- 12021_02: Bessie's Creek, appendix D section from the confluence of Bessie's Bayou west of Brookshire upstream to the confluence of an unnamed tributary approximately 0.7 km upstream of FM 359 northwest of the City of Pattison
Monitoring Station: 22499 - BESSIE'S CREEK DOWNSTREAM OF WILPITZ ROAD (Figure 29.7)

Figure 29.7 Monitoring Station: 22499 - BESSIE'S CREEK DOWNSTREAM OF WILPITZ ROAD



- 1202I_03: Bessie's Creek from the confluence of an unnamed tributary approximately 0.7 km upstream of FM 359 northwest of the City of Pattison upstream to the headwater north of Pattison

Impairments in Watershed Description (Figure 29):

- 1202I_01: Recreational Use—Bacteria impairment
There are concerns for chlorophyll-*a* in 1202_03. There are concerns for nitrate and total phosphorus in 1202H_01. There are also concerns for chlorophyll-*a*, depressed dissolved oxygen, nitrate and total phosphorus in 1202I_01.

Possible Contributions if Impaired:

Point Sources:

- There are seven cities and thirty wastewater outfalls in the watershed. Cities responsible for wastewater treatment plants, combined sewer systems or municipal separate storm sewer systems could create point source pollution contributing to bacterial and nutrient loads as a result of a system failure.

Non-point sources:

- The downstream portion 1202I_01 is adjacent to primarily developed land cover, allowing for municipal and urban runoff contribution near these segments.
- Approximately 74% of the watershed is made up of the planted/cultivated category.

Potential non-State Agency Stakeholders:

- BRAZOS ISD
- BEACON ESTATES WSC
- BROOKSHIRE MWD
- HAMMOND MOUND UTILITIES INC

- TWINWOOD US INC
- ACME BRICK CO
- CITY OF FULSHEAR
- CITY OF SEALY
- FORT BEND COUNTY MUD 81
- THE CENTER SERVING PERSONS W MENTAL RETARDATION
- AQUA TEXAS INC
- SUMMER BREEZE USA KATY LLC
- VULCAN CONSTRUCTION MATERIALS LLC
- POSTIVE FEED LTD
- FULSHEAR LAKES LTD
- FORT BEND MUD NO 198
- FORT BEND COUNTY MUD 213
- LAND TEJAS COMPANIES LTD
- SIMONTON MANAGEMENT DISTRICT NO 1
- CITY OF WALLIS
- SAGE RANCH TX LLC
- WALLER COUNTY MUD 19
- DR HORTON TEXAS LTD
- PECAN ACRES CREEK LLC
- FORT BEND CO MUD NO 213

Actions taken if impaired:

- The Houston-Galveston Area Council is working with stakeholders in the Bessie's Creek Watershed to improve water quality by characterizing, identifying bacteria sources, and developing a TMDL (Total Maximum Daily Load) for the watershed. This [Bessie's Creek TMDL project](#) began in February 2026.

Recommendations if impaired:

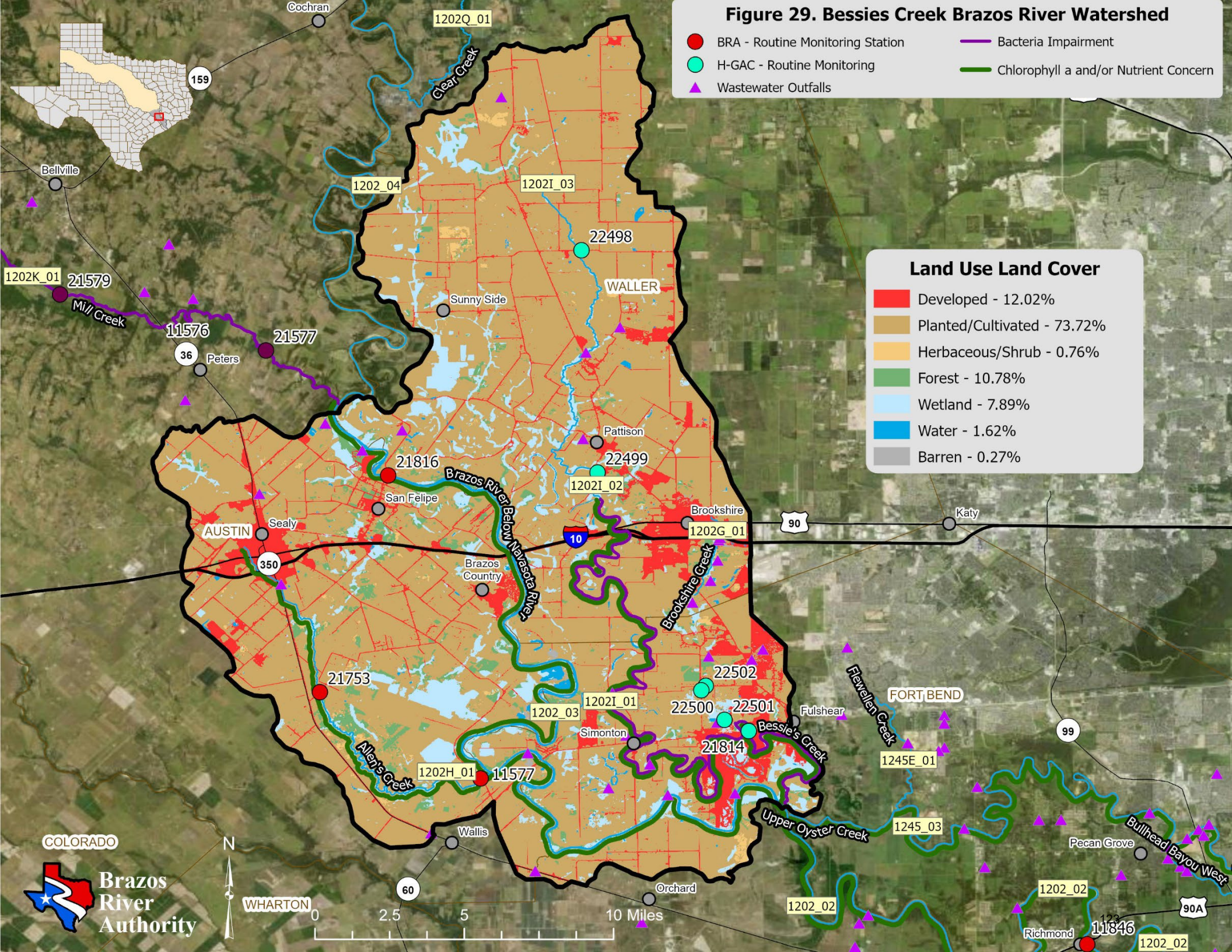
- Await recommendations from the Bessie's Creek TMDL.

Figure 29. Bessies Creek Brazos River Watershed

- BRA - Routine Monitoring Station
- H-GAC - Routine Monitoring
- ▲ Wastewater Outfalls
- Bacteria Impairment
- Chlorophyll a and/or Nutrient Concern

Land Use Land Cover

	Developed - 12.02%
	Planted/Cultivated - 73.72%
	Herbaceous/Shrub - 0.76%
	Forest - 10.78%
	Wetland - 7.89%
	Water - 1.62%
	Barren - 0.27%



Big Creek-Brazos River Watershed

Watershed Description:

The Big Creek-Brazos River Watershed is approximately 393 square miles in area.

Land Use Land Cover in Watershed (Figure 30):

There are eleven cities and fifty-seven wastewater outfalls, indicated in the Potential non-State Agency Stakeholders section, in the watershed. Dominant landcover is the planted/cultivated category ($\approx 57\%$) with the next most dominant landcover being developed ($\approx 28\%$). There is a fair amount of wetland area in the watershed ($\approx 11\%$).

Segments in Watershed (Figure 30):

- Upstream portion of 1202_01: Brazos River below Navasota River, portion of the Brazos River from the confluence with the Brazos River Tidal in Brazoria County upstream to the confluence with Flat Bank Creek in Fort Bend County.
- 1202_02: Brazos River Below Navasota River, portion of the Brazos River from the confluence with Flat Bank Creek upstream to the confluence with Bessie's Creek in Fort Bend County.

Monitoring Station:

11846 - BRAZOS RIVER 70 METERS DOWNSTREAM OF US 90A IN RICHMOND (Figure 30.1)



- 1202B_01: Rabbs Bayou Appendix D perennial stream section from Smithers Lake upstream to the confluence of an unnamed tributary below US 59.
- 1202J_01: Big Creek from the confluence of the Brazos River upstream to the confluence of an unnamed tributary 2.1 km downstream of FM 2977 south of Rosenberg.

Monitoring Station: 16353 - BIG CREEK IMMEDIATELY UPSTREAM OF SAWMILL ROAD
7.0 KM UPSTREAM OF WATERS LAKE BAYOU E OF LONG POINT N OF BRAZOS BEND
STATE PARK (Figure 30.2)



- 1202J_02: Big Creek Appendix D intermittent stream with perennial pools section from the confluence with an unnamed tributary 2.1 km downstream of FM 2977 upstream to the confluence of Cottonwood Creek and Coon Creek.
- 1202R_01: Bullhead Bayou West from the confluence with the Brazos River upstream, via FBCDD Ditch H, to the headwaters near the intersection of Plantation Dr. and Harlem Rd. in Pecan Grove in Fort Bend County
- 1202S_01: Bullhead Bayou East from Lexington Blvd to the Sweetwater Golf Course in Fort Bend County

Monitoring Station: 17371 - BULLHEAD BAYOU/STEEP BANK CREEK AT WILLIAMS TRACE
BOULEVARD/SWEETWATER BOULEVARD IN SUGAR LAND (Figure 30.3)

Figure 30.3 Monitoring Station: 17371 - BULLHEAD BAYOU/STEEP BANK CREEK AT WILLIAMS TRACE BOULEVARD/SWEETWATER BOULEVARD IN SUGAR LAND



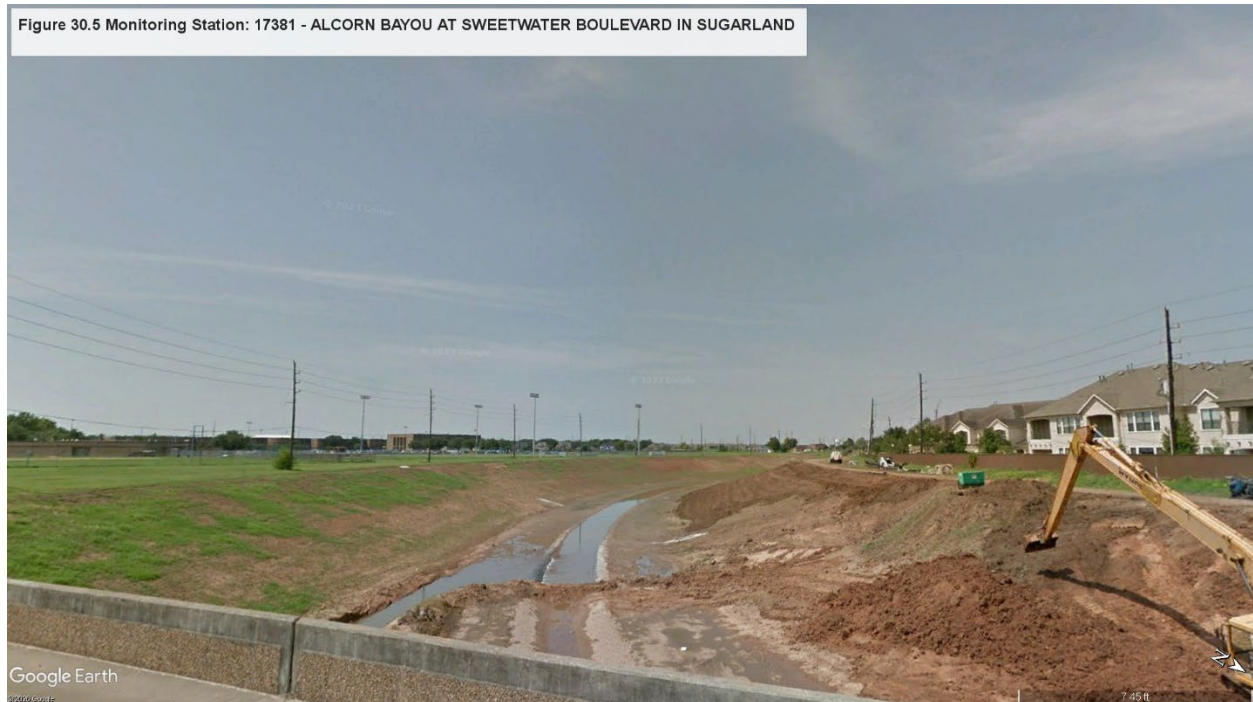
- 1202T_01: Unnamed tributary to Bullhead Bayou East in Fort Bend County
Monitoring Station: 17382 - UNNAMED TRIBUTARY OF BULLHEAD BAYOU AT AUSTIN PARKWAY IN SUGARLAND (Figure 30.4)

Figure 30.4 Monitoring Station: 17382 - UNNAMED TRIBUTARY OF BULLHEAD BAYOU AT AUSTIN PARKWAY IN SUGARLAND



- 1202U_01: Alcorn Bayou from the confluence with FBCDD Ditch H upstream to the confluence with Bullhead Bayou East in Fort Bend County

Monitoring Station: 17381 - ALCORN BAYOU AT SWEETWATER BOULEVARD IN SUGARLAND (Figure 30.5)



- Downstream portion of 1245_01: Upper Oyster Creek From the confluence with the Brazos River upstream to Dam #3
Monitoring Station: 22457 - FLAT BANK CREEK AT PEDESTRIAN BRIDGE 680 METERS DOWNSTREAM OF SH 6 SOUTH OF DEWALT
- 1245I_01: Steep Bank Creek from confluence with Oyster Creek (Flat Bank Creek portion) upstream to the electrical transmission lines ROW near Sweetwater Golf Course in Fort Bend County
- Downstream portion of 1258_01: Middle Oyster Creek from the confluence with the Brazos River through the Brazos River Authority Canal to the confluence with Upper Oyster Creek above Tidal and upstream to the confluence with the Flat Creek Diversion Channel in Fort Bend County.

Impairments in Watershed Description (Figure 30):

- 1202J_01, 1202J_02, 1202S_01, 1202T_01, 1202U_01, 1245I_01: Recreational Use—Bacteria impairments
 - There are concerns for chlorophyll-*a* in 1202_01 and 1202_02. There are concerns for depressed dissolved oxygen, habitat and fish community in 1202J_01. There are concerns for depressed dissolved oxygen, nitrate, and total phosphorus in 1202J_02. There is a concern for nitrate in 1202U_01 and 1245I_01. There are also concerns for chlorophyll-*a*, nitrate, and total phosphorus in 1245_01.

Possible Contributions if Impaired:

Point Sources:

- There are eleven cities and fifty-seven wastewater outfalls in the watershed. Cities responsible for wastewater treatment plants, combined sewer systems or municipal separate storm sewer

systems could create point source pollution contributing to bacterial and nutrient loads as a result of a system failure.

Non-point sources:

- Near all of the impaired segments, developed land cover is the dominant land cover, allowing for municipal and urban runoff contribution near these segments.
- Approximately 57% of the watershed is made up of the planted/cultivated category.

Potential non-State Agency Stakeholders:

- City of Pecan Grove
- City of Orchard
- City of Richmond
- City of First Colony
- City of Rosenberg
- City of Booth
- Town of Thompsons
- Pleak Village
- Village of Fairchilds
- City of Needville
- City of Sugar Land
- City of Beasley
- City of Sienna
- City of Dewalt
- Fort Bend County
- 300 ACRES LLC
- TIDWELL TRACT LTD
- PROENERGY SERVICES LLC
- RICHMOND COMMUNITY ESTATES LLC
- ELENA SLEPTSOVA ODA
- JTI CONSTRUCTORS
- PLANTATION CROSSING OWNERS ASSOCIATION INC
- AQUA TEXAS INC
- THE SIGNORELLI CO
- JACK A FUSCO ENERGY CENTER LLC; CALPINE OPERATING SERVICES CO INC
- LAMAR CONSOLIDATED ISD
- FRITO-LAY INC
- ROYAL VALLEY UTILITIES INC
- GREATWOOD HOSPITALITY INC
- PLANTATION MUD
- SIENNA PLANTATION MUD 1
- NRG TEXAS POWER LLC
- PETRA NOVA CCS I LLC

Actions taken if impaired:

- [RUAAs](#) were completed, reviewed, recommendations were made, and EPA approved revising 1202S_01, 1202R_01, and 1202T_01 to a designated use of SCR1.

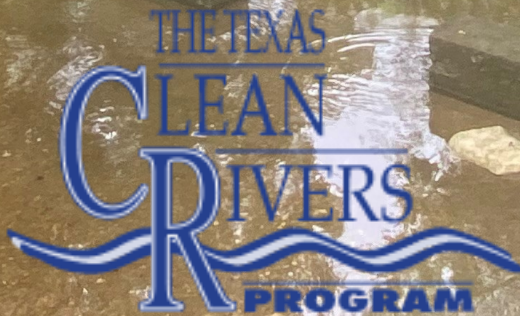
- TCEQ and Houston-Galveston Area Council (H-GAC) began work on the Total Maximum Daily Loads for Indicator Bacteria project in Big Creek in 2018 as part of a larger regional assessment of water quality the Houston-Galveston area. H-GAC completed a watershed characterization report that was used by TCEQ and stakeholders to decide whether it was necessary to develop TMDLs for Big Creek. In 2023 H-GAC completed the [technical support document](#) and [TMDLs](#) . The Commission adopted these TMDLs on August 14, 2024. EPA approved them on September 26, 2024, at which time they became an update to the state's Water Quality Management Plan. The [Implementation Plan for Two Total Maximum Daily Loads for Indicator Bacteria in Big Creek](#) was approved by TCEQ in July 2025.

Recommendations if impaired:

- Collect additional bacteria data and assess segments 1202S and 1202T using current criteria.
- A watershed characterization study, consisting of a set of water and habitat assessments compiling hydrology, geology, wildlife, LULC, and water quality data to inform on the best way to improve water quality in a watershed, may be appropriate for 1202U_01 and 1245I_01.



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