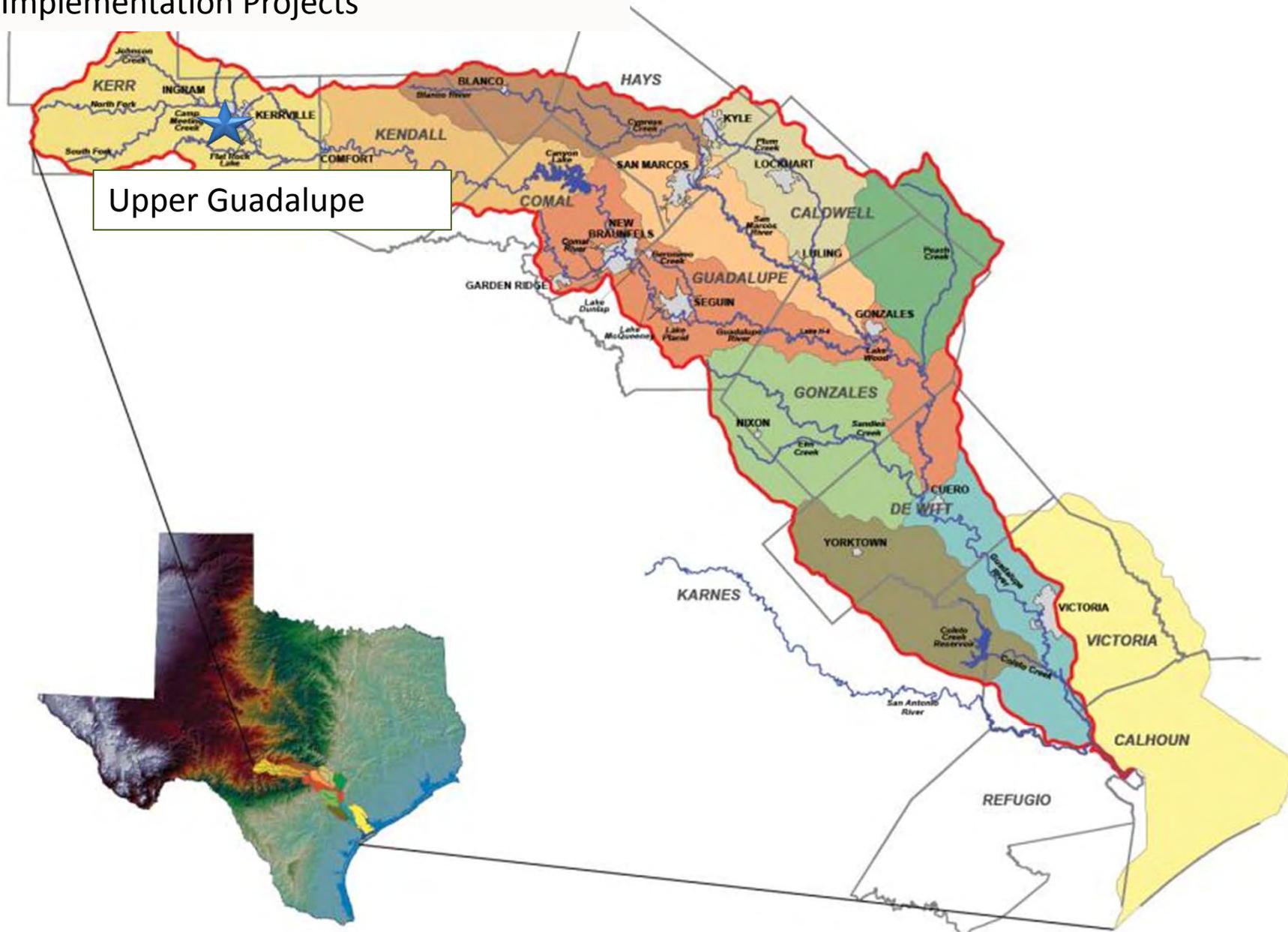


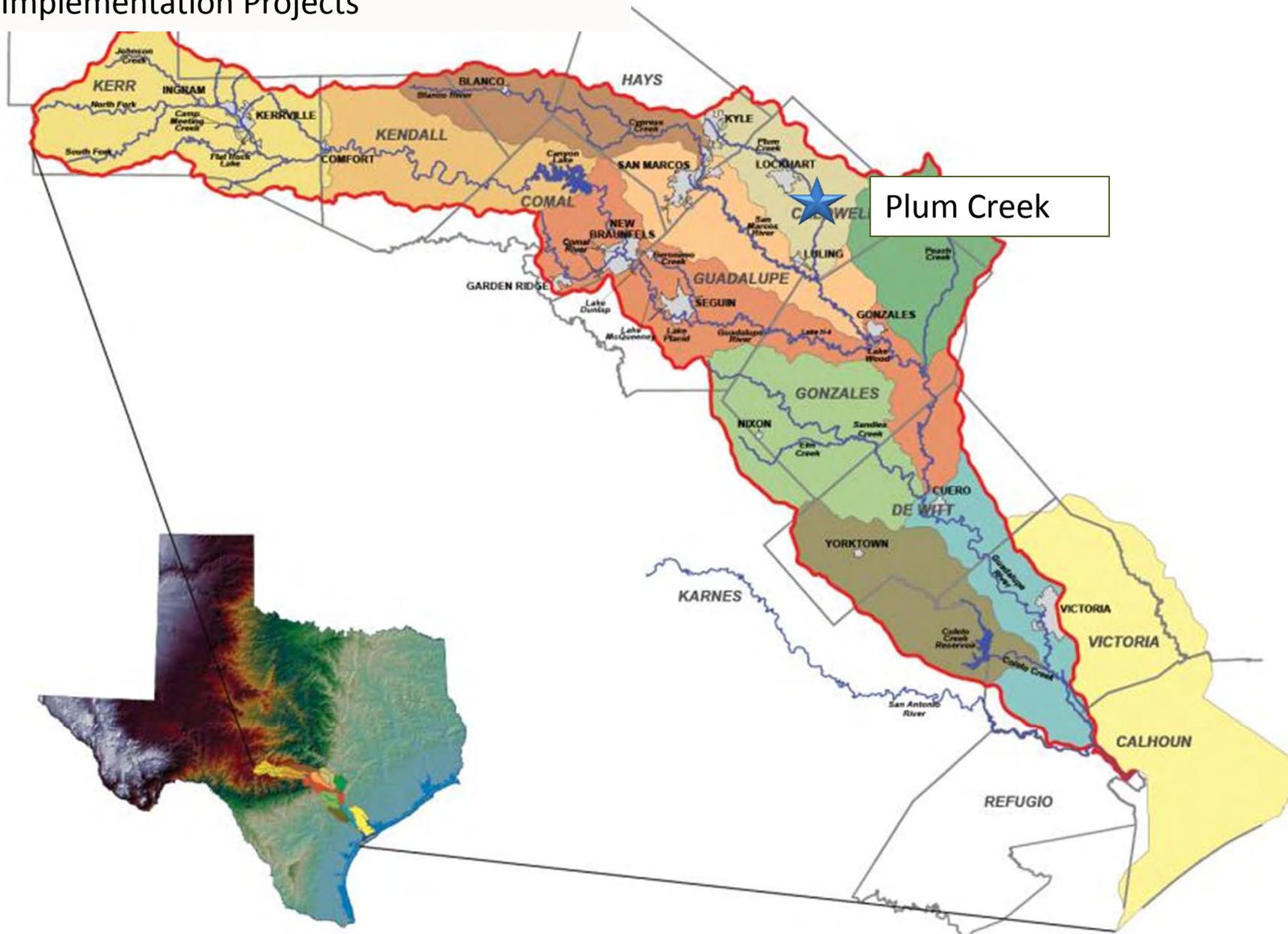


**Status of
Watershed
Protection
Projects in the
Guadalupe River
Basin - 2010**

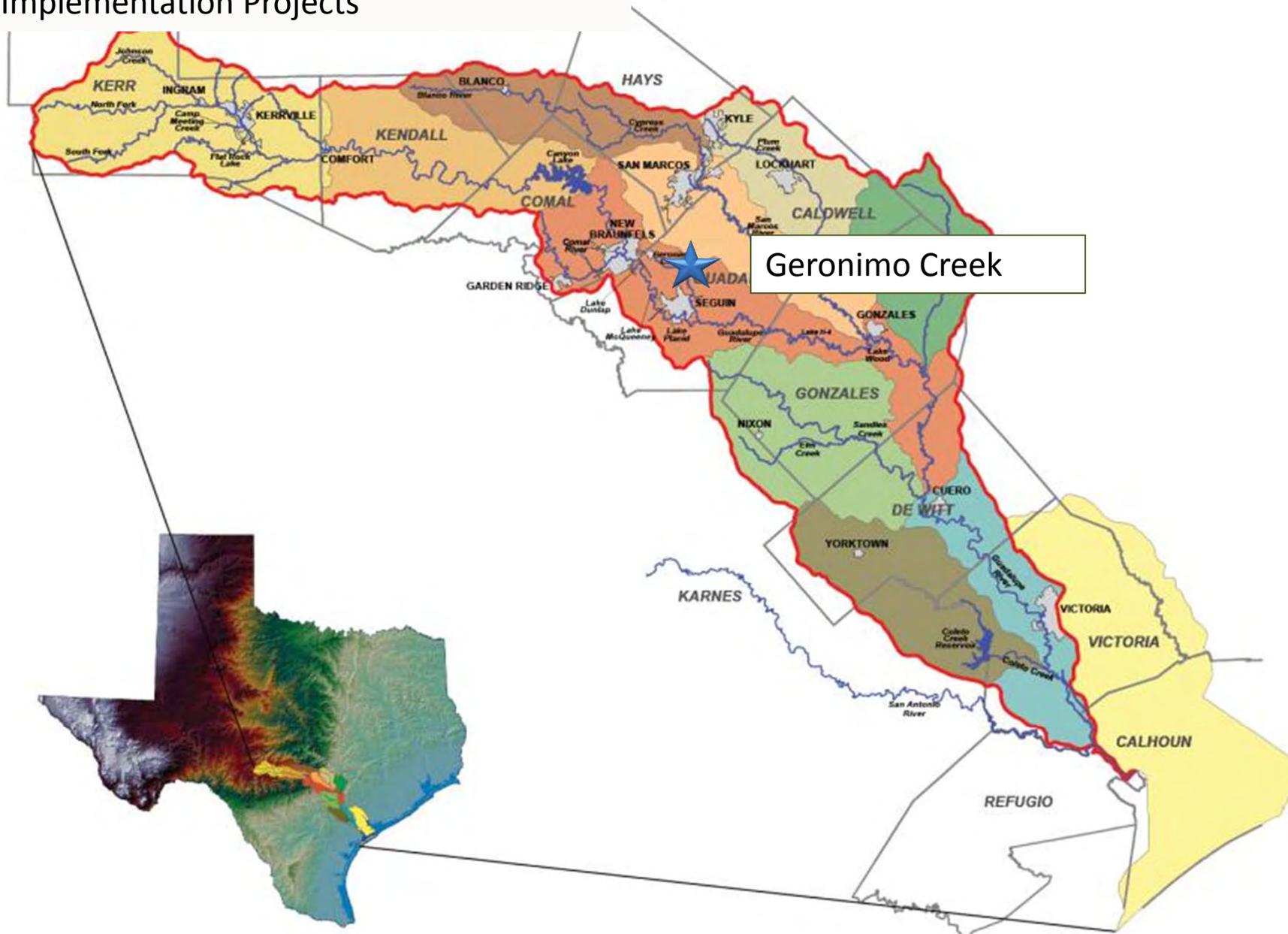
Watershed Protection Plans and Implementation Projects



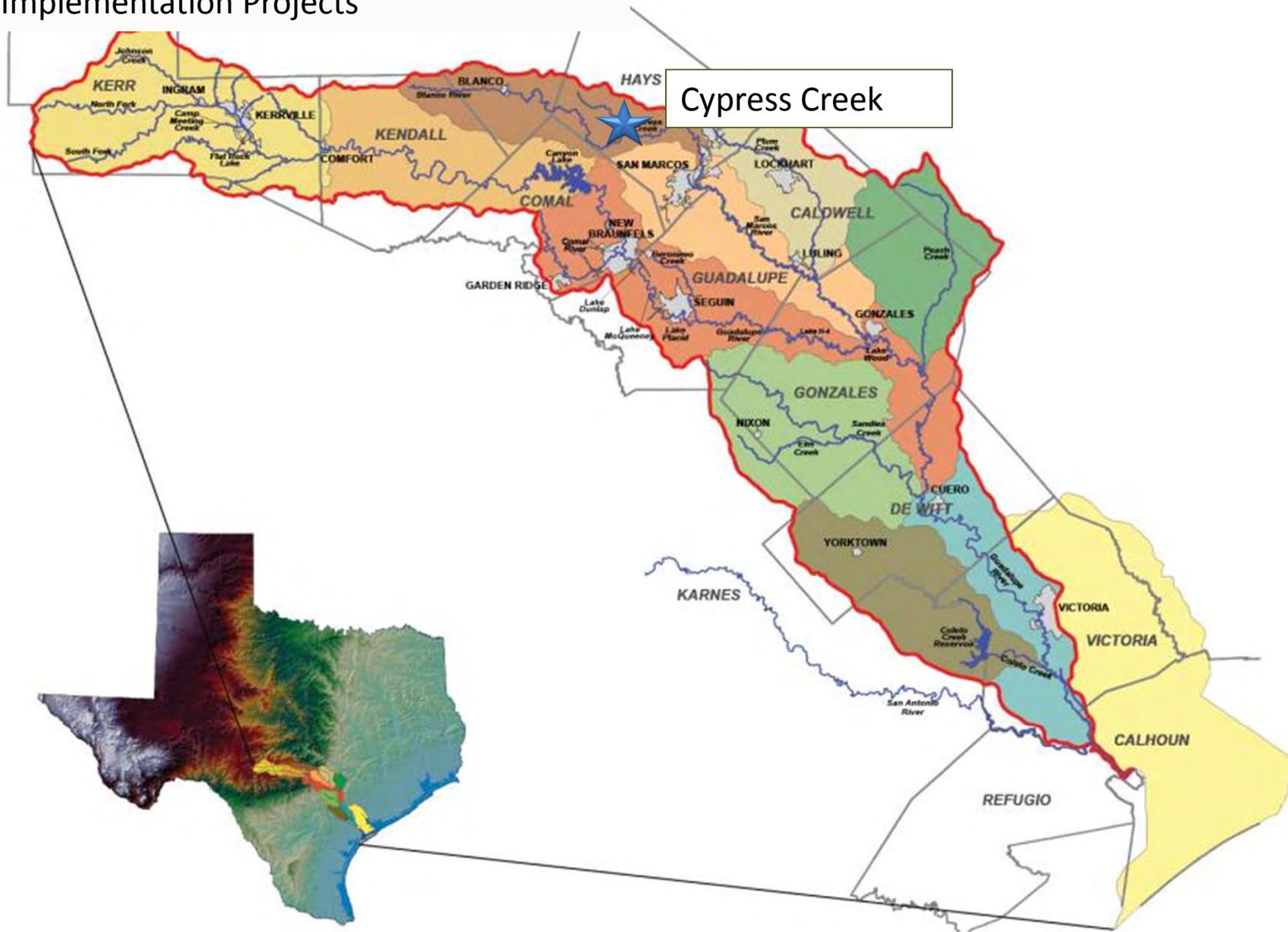
Watershed Protection Plans and Implementation Projects



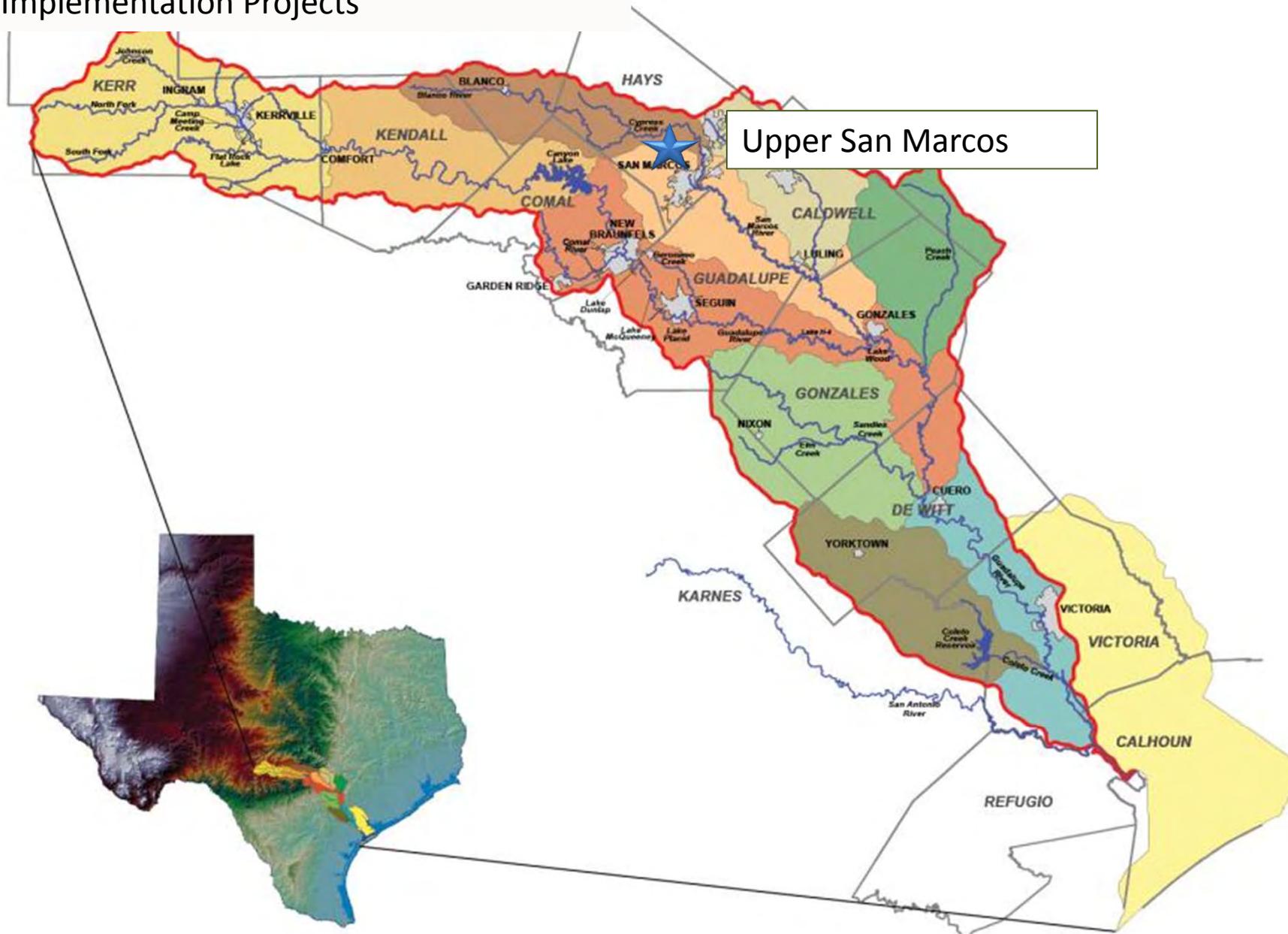
Watershed Protection Plans and Implementation Projects



Watershed Protection Plans and Implementation Projects



Watershed Protection Plans and Implementation Projects





Plum Creek Watershed Protection Plan

Plum Creek WPP

- Plum Creek first EPA-accepted plan in State



Plum Creek WPP

- **319 projects in Kyle and Lockhart**
 - storm water retention, mapping
 - pet waste stations
 - outreach
 - community cleanups



DUMP NO
WASTE



DRAINS TO STREAM

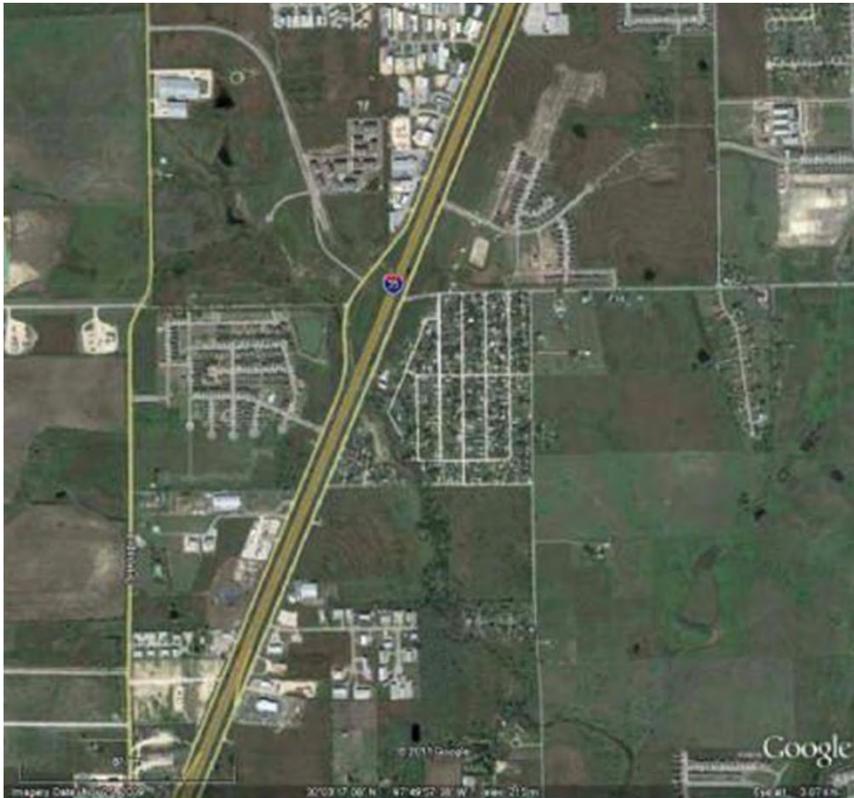
Plum Creek WPP

- **Feral Hog Control**
 - Landowner workshops
 - Educational brochures
 - Website for reporting
 - Aerial Hunts



Plum Creek WPP

- **Hillside Terrace**
 - **Eastern Hays Co.**
 - **High density septic systems – high failure rate**
 - **Buda and Hays Co. – seeking funding to expand Buda ww collection system to serve subdivision**



Plum Creek WPP

- **GBRA New Monitoring Project**
 - **Monitoring for 3 years**
 - **Educational Kiosks at 3 locations**
 - **USGS Gain-Loss Survey**
 - **Groundwater Study-Nitrates**

Routine

5 monthly (+3 CRP)

Targeted Monitoring

2 per Seasons

Wet and Dry Conditions

35 Sites

Storm Event Monitoring

4 per year

3 Urban Sites

24-hour Monitoring

7 Routine Sites

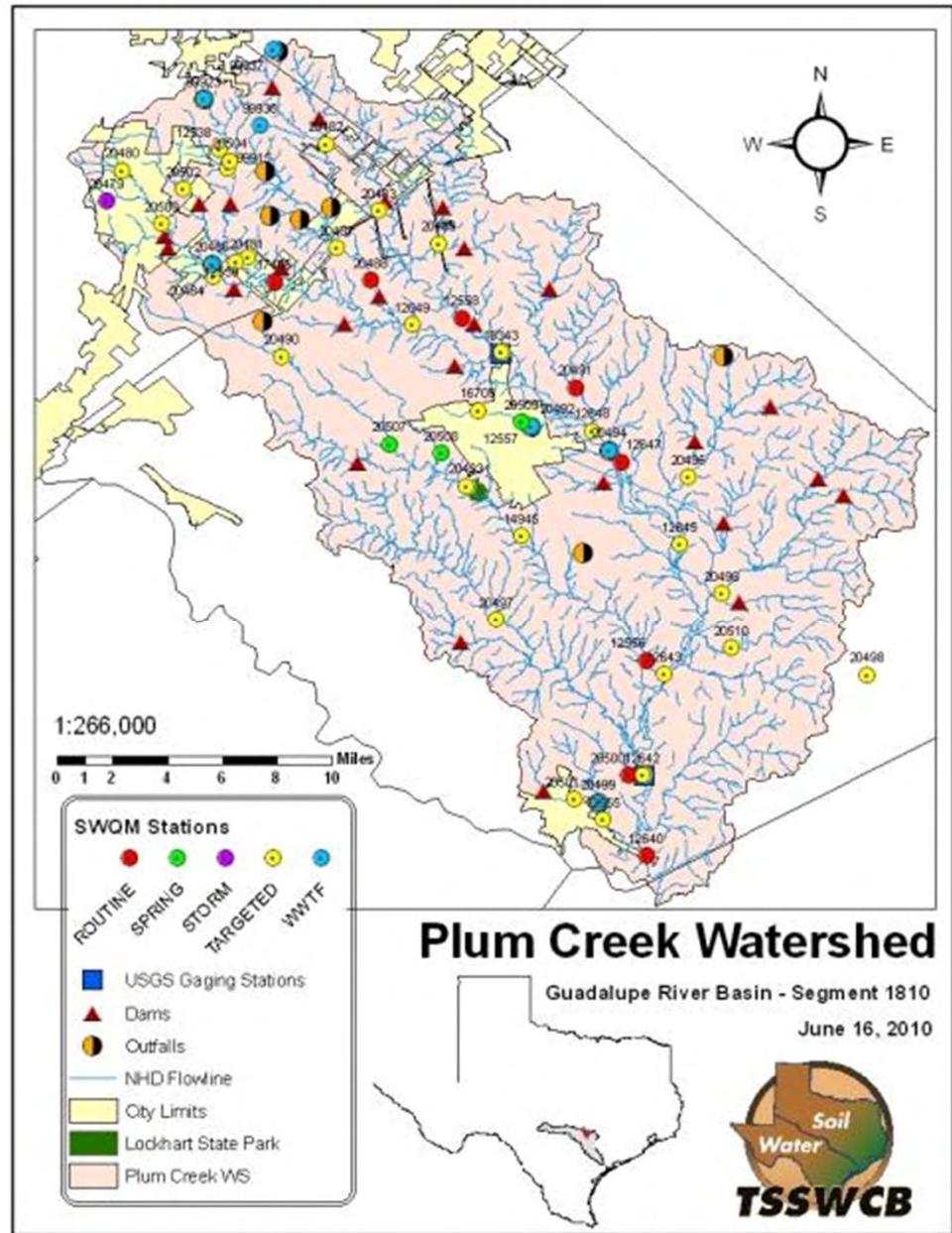
7 Wastewater Plants

Monthly

Springs

3 springs

4 per year



Plum Creek WPP

- **How to sustaining the Partnership?**
 - Currently in final year of Implementation Project – Texas AgriLife Extension
 - Local Watershed Coordinator
 - Funding?
 - Grant application for 319 funds – local coordinator and education projects
 - Match provided by partner entities-proportional to area and population served
 - Supervised by one entity selected by partners
 - Interlocal agreement

<http://www.gbra.org/plumcreek/default.aspx>

<http://pcwp.tamu.edu/>



Geronimo and Alligator Creeks Watershed Protection Plan

Geronimo and Alligator Creeks WPP

- Began in 2009



Geronimo and Alligator Creeks WPP

- **Stakeholder meetings**
- **Work Groups –**
 - **Urban**
 - **Agriculture**
 - **Wastewater (septic systems)**
- **Completed monitoring and modeling portions**

Geronimo and Alligator Creeks WPP

- **Meeting with the cities and counties – implementation projects to put in plan**
- **New Braunfels now a Phase II city – developing storm water plan**
- **Guadalupe Co. completed flood study**
- **Currently drafting plan**

<http://www.geronimocreek.org/>



Cypress Creek Watershed Protection Plan

Cypress Creek WPP

- **Phase I completed**
 - Decision Support System
 - Characterization of watershed
 - Storm water monitoring
- **Phase II funding on the way**
 - Watershed Protection Plan
 - Three workgroups –
 - Education and Outreach
 - Technical
 - Policy and Implementation

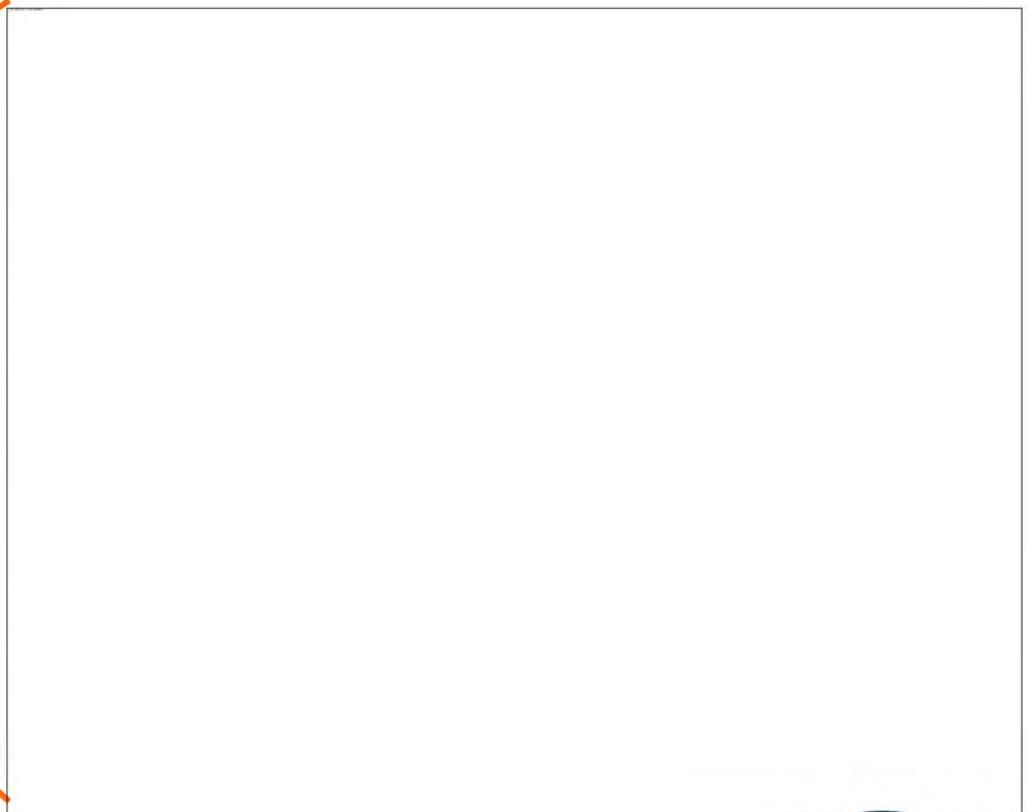
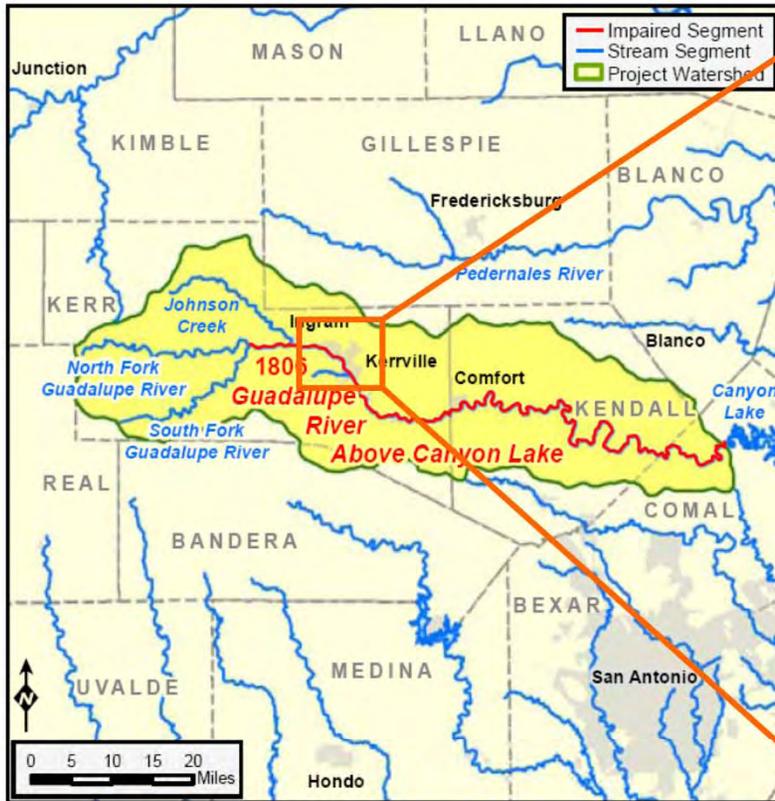


<http://www.cypresscreekproject.org/>



**Guadalupe River
Above Canyon
Reservoir
Implementation
Project**

Guadalupe River above Canyon Lake TMDL Implementation Project



TMDL IP Current Status

- Implementation Plan grant completed August 2010
- Official TCEQ Implementation Plan moving towards approval
- Implementation grant “Bacteria Reduction Plan for Upper Guadalupe River” pending EPA approval

Implementation Measures



Match Requirement

- UGRA
- City of Kerrville
- Kerr County
- TxDOT
- Clean Rivers Program

<http://www.ugra.org/>



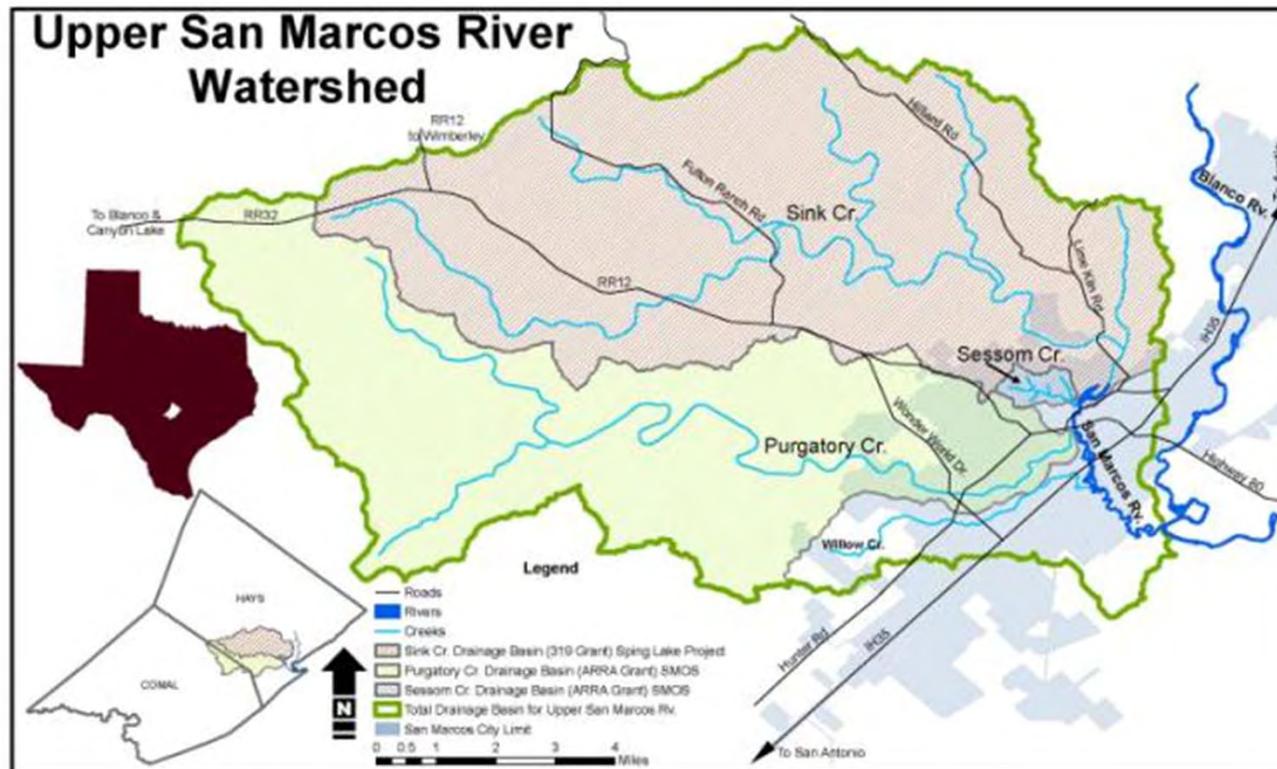
Upper San Marcos River Watershed Protection Plan

Upper San Marcos WPP

- **Have been meeting about 2 years**
- **Lead by Rivers Institute (TSU)**
- **Funding denied in 2010; will reapply in 2011**
- **Partners include**
 - **City of San Marcos**
 - **Hays County**
 - **Texas State University**
 - **San Marcos River Foundation**
 - **GBRA**

Upper San Marcos WPP

- Includes Sink Creek, Purgatory Creek and Sessom Creek watersheds





Guadalupe River Continuous Monitoring Network

Guadalupe River Continuous Monitoring Network

- **Three locations – associated with WPP/TMDLs**
 - Geronimo Creek
 - Cypress Creek
 - Sandies Creek
- **Field parameters and Turbidity**
- **Linked to TCEQ CWQMN**



Includes Nitrate/E. coli storm water study

 **Advanced
Kiosks**
Engage, Interact and Satisfy

