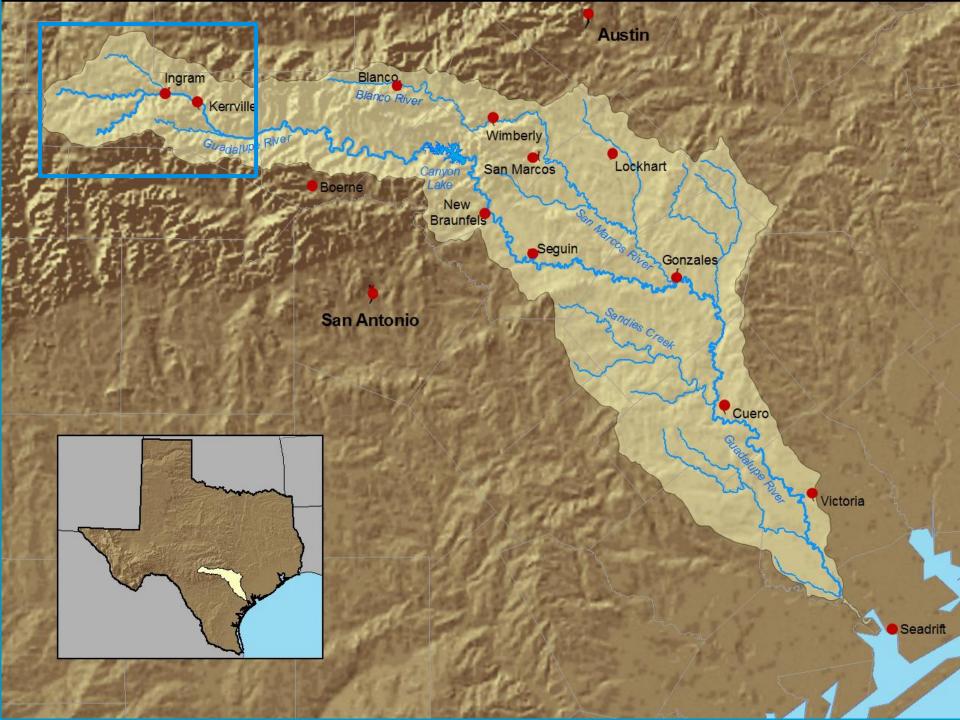


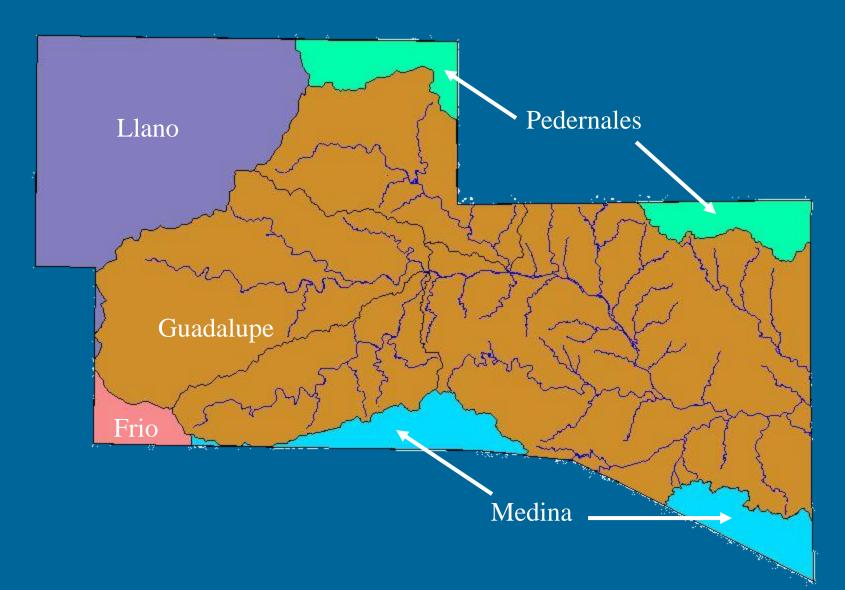
CRP Activities in Kerr County

Tara Bushnoe Natural Resources Coordinator Upper Guadalupe River Authority

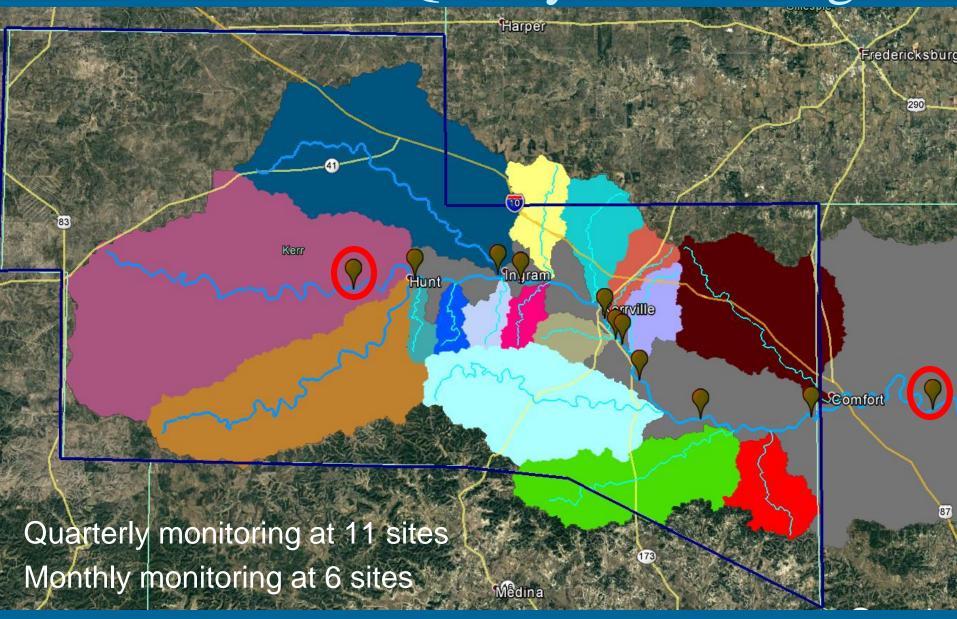




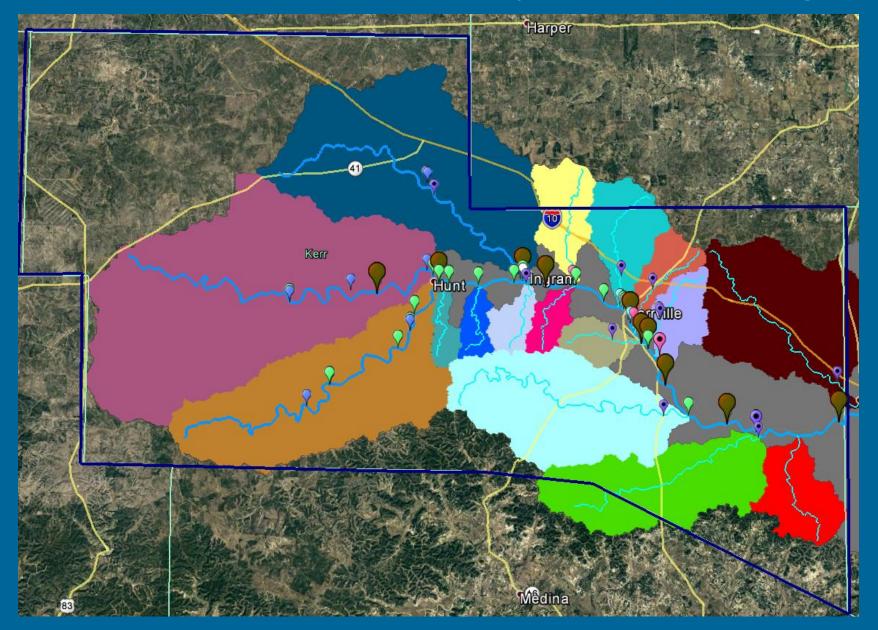
Kerr County Watersheds and Sub Watersheds



CRP Water Quality Monitoring



UGRA Water Quality Monitoring



WQ Monitoring Summary 2018

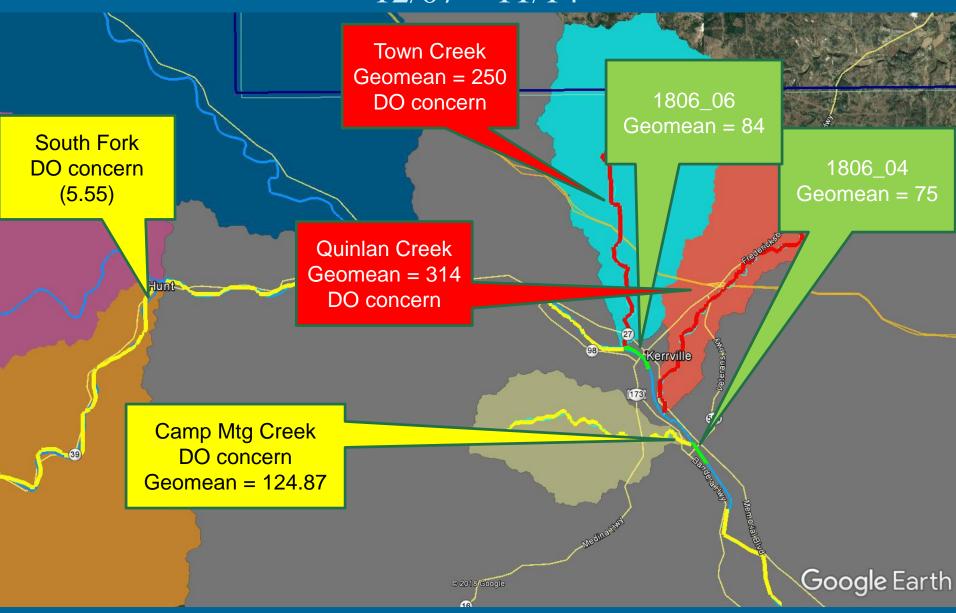
CRP

- 16 sampling events
- 16 sites
- 1,046 parameters tested

UGRA Water Quality Programs

- 37 sampling events
- 40 sites
- 1,274 parameters tested
- 8 water quality investigations

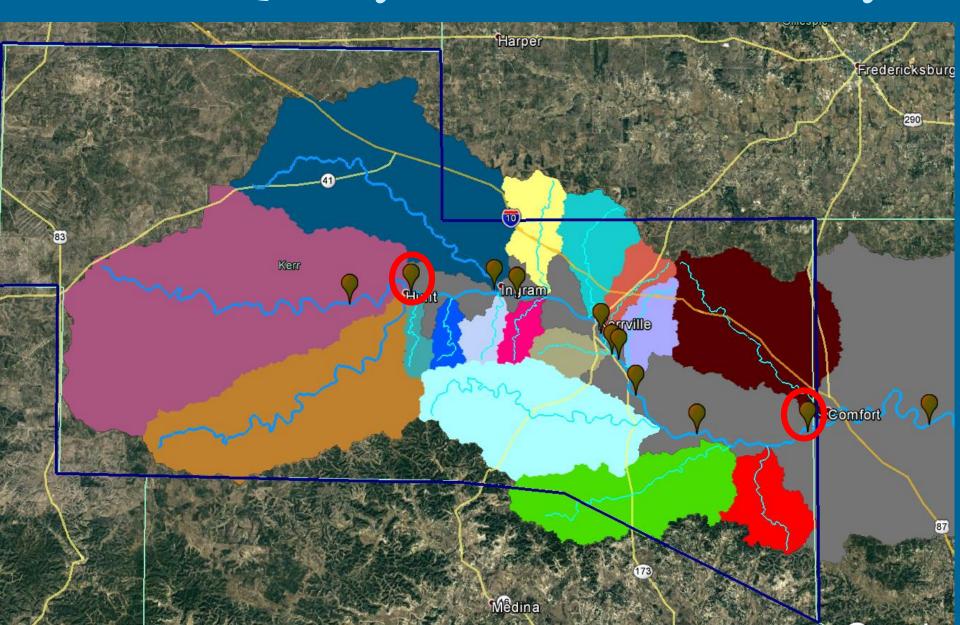
Draft 2016 Integrated Report Findings 12/07 – 11/14



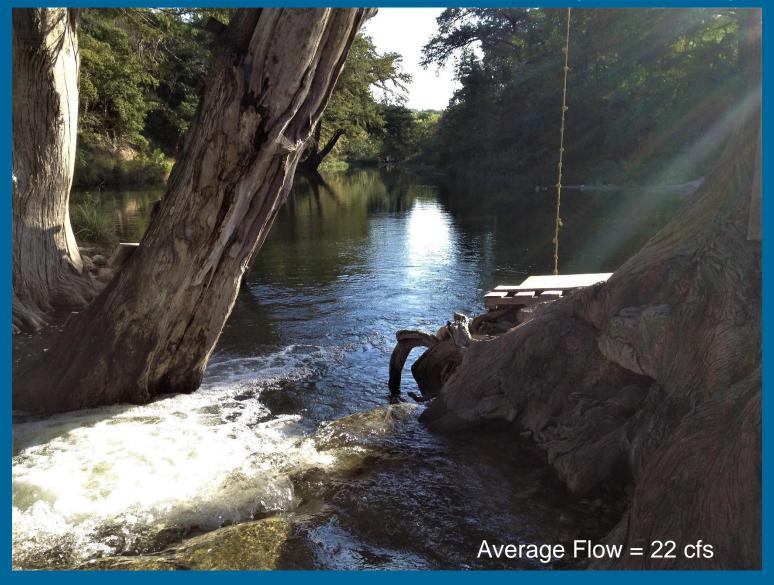
Bacteria Reduction Plan 2011 - present

- Mainstem Impairments 2002
- **TMDL 2007**
- Implementation Plan 2011
- Town and Quinlan Impairments 2011
- Technical Support Document 2017
- Implementation Plan Revision 2018

Water Quality Across Kerr County



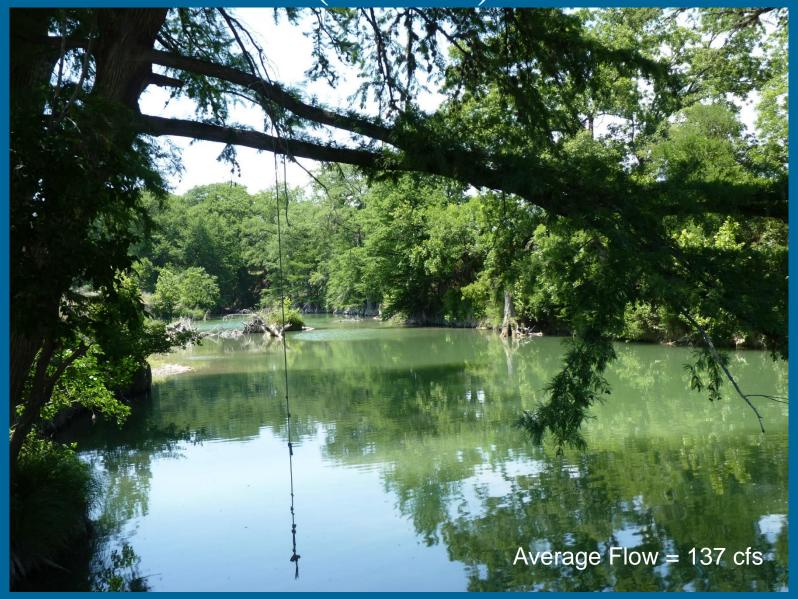
South Fork – La Junta (12684)



South Fork – La Junta 2003 - 2018

AU 1818_01 General Use								
Parameter	Mean	Maximum	Minimum	# of	Screening Criteria			
				Measurements				
Temperature (° C)	19.9	29.1	7.8	64	30.00			
рН	7.9	8.1	7.4	64	6.5 – 9.0			
Chloride (mg/L)	10.7	36.2	7.1	62	50.00			
Sulfate (mg/L)	8.4	15.3	4.6	62	50.00			
Total Dissolved Solids	275	329	239	64	400.00			
(mg/L)								
NH3-N (mg/L)	NA	NA	NA	NA	0.33			
Total Phosphorus (mg/L)	<0.04	0.06	<0.04	62	0.69			
Chlorophyll-a (μg/L)	1.2	5.6	<1	61	14.1			
Nitrate Nitrogen (mg/L)	0.18	0.74	<0.04	55	1.95			
TKN (mg/L)	0.30	0.54	<0.20	28	N/A			
AU 1806A Recreational Use								
E. coli (MPN/100 mL)	18.2	310	<1	61	126 Geomean			
	Geomean							
AU 1806A Aquatic Life Use								
Dissolved Oxygen (mg/L)	7.8	11.2	4.8	64	≥4.0 Minimum & ≥6.0 Average			

Guadalupe River at Hermann Sons (12605)



Guadalupe – Hermann Sons 2003 - 2018

AU 1806_02 General Use								
Parameter	Mean	Maximum	Minimum	# of Measurements	Screening Criteria			
Temperature (° C)	21.0	29.6	9.4	63	30.00			
рН	8.0	8.4	7.4	64	6.5 - 9.0			
Chloride (mg/L)	24.7	52.4	13.0	64	50.00			
Sulfate (mg/L)	24.4	37.6	9.2	64	50.00			
Total Dissolved Solids (mg/L)	329	379	275	64	400.00			
NH3-N (mg/L)	NA	NA	NA	NA	0.33			
Total Phosphorus (mg/L)	<0.04	0.07	<0.04	64	0.69			
Chlorophyll-a (μg/L)	1.25	6.6	<1	62	14.1			
Nitrate Nitrogen (mg/L)	0.55	1.49	<0.05	56	1.95			
TKN (mg/L)	0.33	1.01	<0.2	28	N/A			
AU 1806A Recreational Use								
E. coli (MPN/100 mL)	45	520	5	62	126 Geomean			
	Geomean							
AU 1806A Aquatic Life Use								
Dissolved Oxygen (mg/L)	8.8	13.9	6.0	63	≥4.0 Minimum & ≥6.0 Average			

Accessing Data

- TCEQ Surface Water Quality Monitoring
- https://www.tceq.texas.gov/waterquality

Data and Maps

- Surface Water Quality Data Viewer
 Use this viewer to locate monitoring stations and download water quality data.
- Clean Rivers Program Data Tool
 Extract data from the TCEQ's Surface Water Quality Information System (SWQMIS).
- Managing Surface Water Quality Data
 Guidance and forms for submitting or requesting water quality data from SWQMIS.
- Hydrography Data and Maps
 Map-based data viewers. GIS data for classified segments and other hydrology layers.



- Volunteer Summer Study
- Classes
- Special Events
- Workshops
 - Radio Programs



49 events in 2018

- Newspaper articles
- Commercials
- Information booths
- River Clean Ups
- EduScape tours

3,174 members of the public

Welcome UGRA EduScape

Quick Facts:

Water feated in Tonas is projected to increase dramatically in the future as the state continues to have strong population growth. As a result, protecting water resources and utilizing water conservation practices will be essential to austin the state's water supply and demand belance. The most economical and environmentally triently new water powers is water saved through conservation.

Did You Know?

The Texas Hill Country sits on the boundary of the Chilhushum desert. Our position along this transitional zone has resulted in a diverse plant community where both fesert and no desert plants thrive. It also highlights the importance of our springs and river. We must usedy manage our water the contract of the country of the country



Visit www.ugra.org or scan for more info

What You Will Find

As you stroll along the landscape pathway you will see numerous examples of water conservation and stormwater detention practices that help stretch scarce water supply and protect all our water resources including the Guadalupe River. You can implement these same practices in your home or business landscape.

All of the plants featured in EduScape are native to our region and a few adapted plants are included as well. Native and adapted plants are more drought and stress tolerant, so they require less water and maintenance than other varieties. Using only native plants provides additional benefits to wildlife and biodiversity. Look for the plant labels and consider including some of these species in your landscape.

- 1. Welcome
- 2. The Guadalupe River
- 3. Rainwater Harvesting
- 4. Texas Wildflowers
- 5. Pervious Surfaces
- 6. Dry Creek Bed
- 7. Lawns
- 8. Condensate Collection
- 9. Rain Gardens
- 10. Xeriscape











