GBRA.ORG

GBRA

Guadalupe-Blanco River Authority

Your Trusted
Water Resource

Welcome to the 2025 CRP Steering Committee Meeting

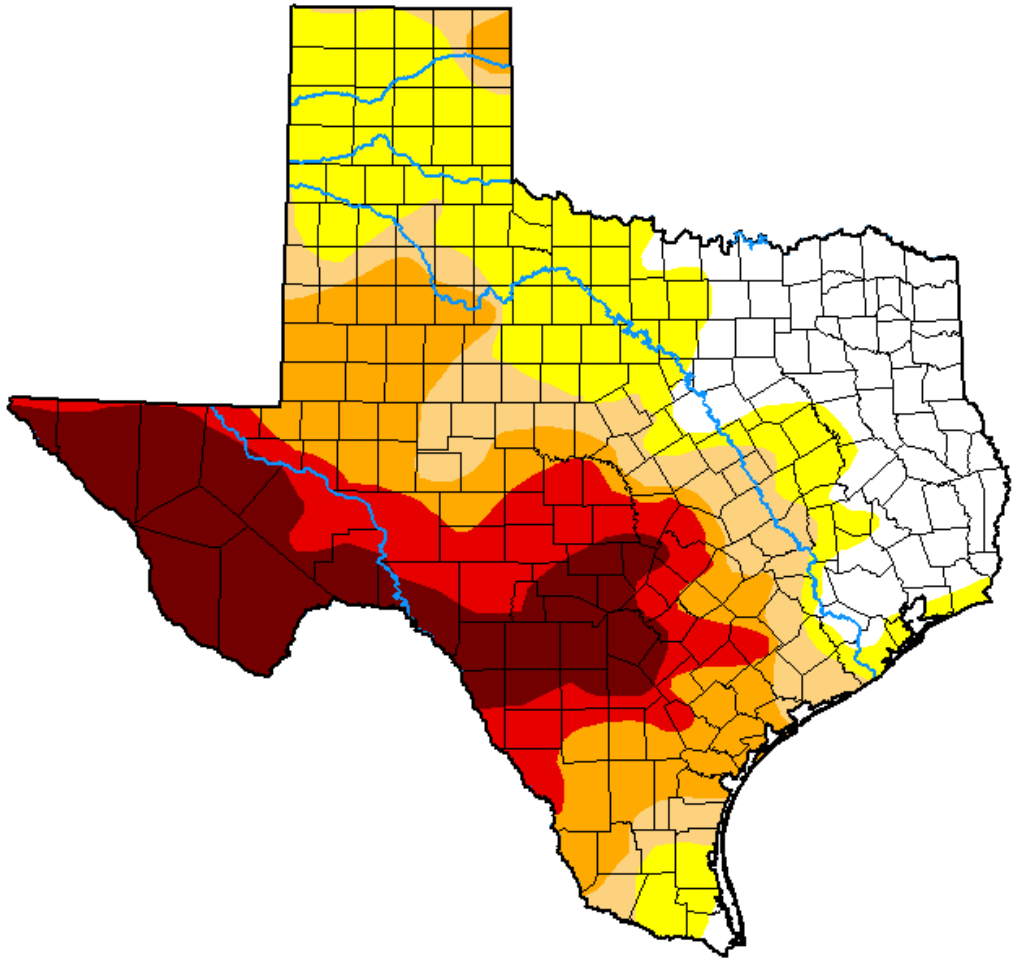
- Please sign in!
- Agendas are available near the sign in sheet
- Please silence your cell phone
- Drinks are available in the kitchen

FY26-27 GBRA Clean Rivers Program Budget

	FY 2026 9/1/25 – 8/31/26	FY 2027 9/1/26 – 8/31/27	FY26 – FY27 Total
Total CRP Budget	$161,118	$161,028	$322,390
Personnel	$12,093	$12,093	$24,186
Supplies	$8,195	$8,210	$16,369
Equipment	-	-	-
Travel	$8,250	$8,390	$6,585
Other	$132,450	$132,540	$265,080

U.S. Drought Monitor
Texas

April 15, 2025
(Released Thursday, Apr. 17, 2025)
Valid 8 a.m. EDT



Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

Author:

Curtis Riganti
National Drought Mitigation Center

droughtmonitor.unl.edu

A Snapshot View of an Impaired Stream

How are CRP Data Used?

GBRA Collects Data

TCEQ's database

TCEQ assigns water quality standards to each waterbody

TCEQ compares data with water quality standards to identify impairments

List of impaired waterbodies published in Integrated Report (IR)

For more information, please visit TCEQ's website at https://www.tceq.texas.gov/waterquality/monitoring

303d list of 2024 IR

Impaired segments in Guadalupe River Basin

Impairment	# of Segments Impaired
Bacteria	8
Dissolved Oxygen	3
Fish community	3
Macrobentic Community	3
Mercury in Fish Tissue	1
Total Dissolved Solids	1

GBRA
Guadalupe-Blanco River Authority

Bacteria Impairment- Comal River

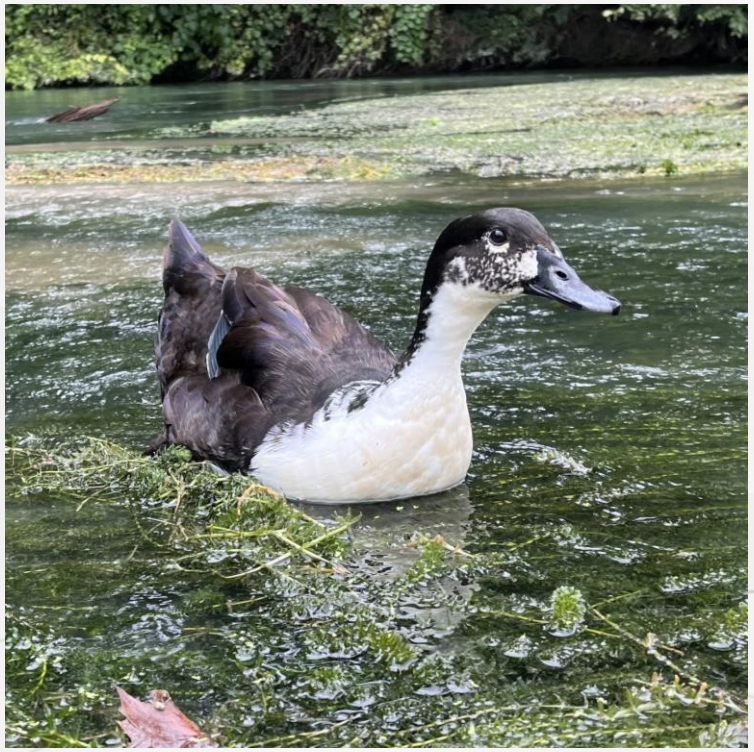
- Impaired due to elevated bacteria (*E. coli)* since 2016
- Only 2.5 mi long
- Located in New Braunfels
- Heavily used for recreation- tubing, swimming, etc.

GBRA
Guadalupe-Blanco River Authority

Possible Contributors

Bacteria source tracking study:

- 64% *E. coli* from wildlife

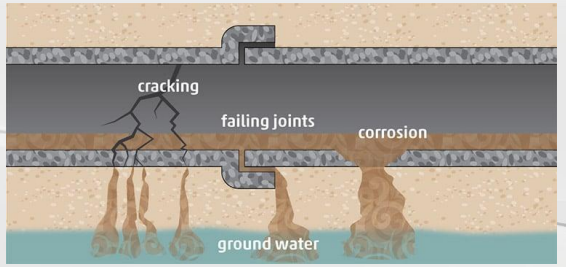


Other Sources:

Pets

Livestock

Humans



GBRA
Guadalupe-Blanco River Authority

Watershed Protection Plan

Best Management Practices Include:

- City ordinance banning the feeding of wildlife
- Educate on importance of picking up pet waste
- Removal of wildlife feces at specific locations along river

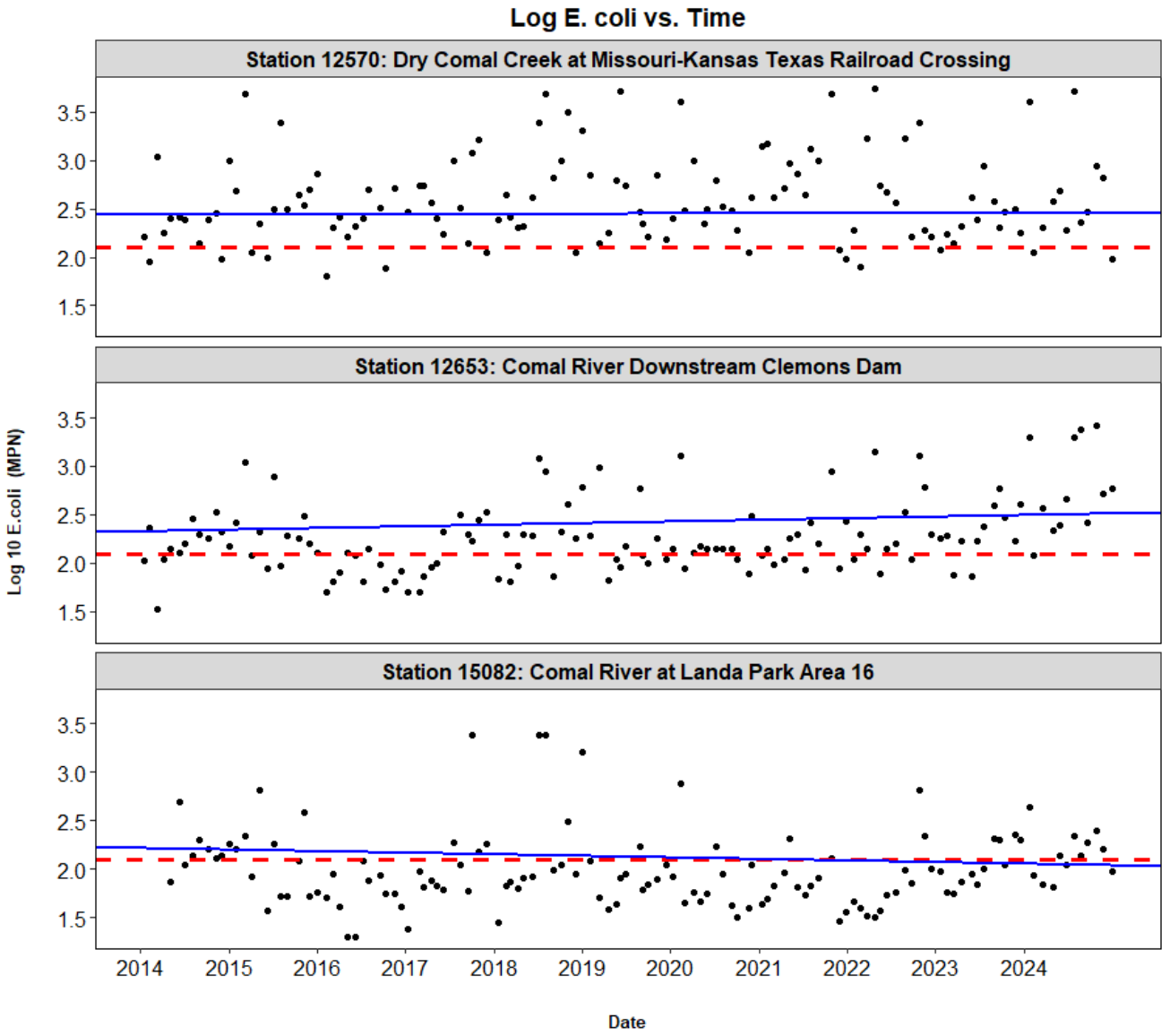
GBRA
Guadalupe-Blanco River Authority

Are we seeing a difference in *E.coli*?

- Multiple linear regression of log *E.coli* over time
  - Adjusts for flow and Total Suspended Solids (TSS)
- *E.coli* values fluctuate with flow, generally increasing when there is runoff
- *E.coli* can also bind to sediments, so higher suspended solids can = greater bacteria readings

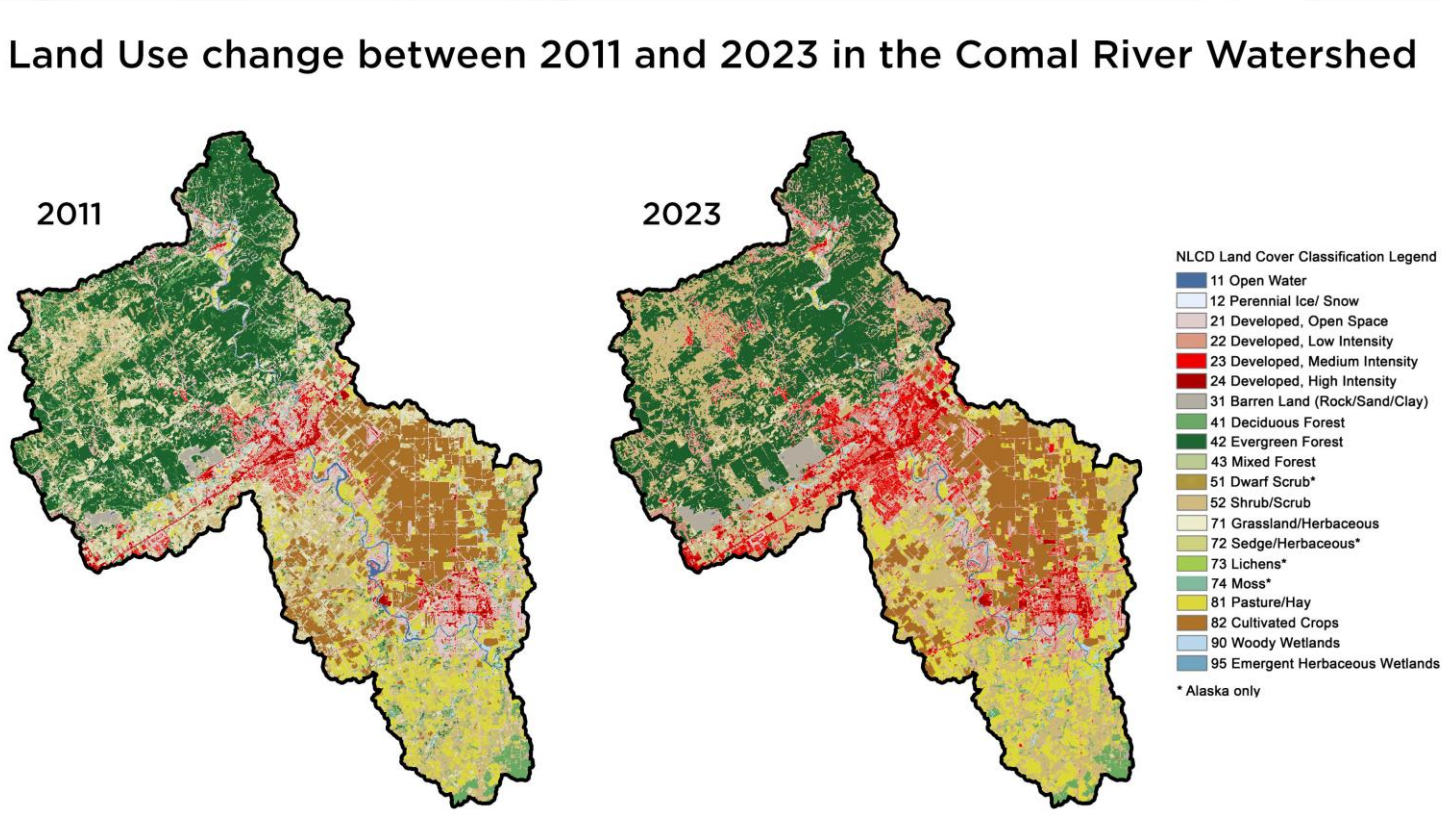
Image of Dry Comal 1/23/2024

GBRA
Guadalupe-Blanco River Authority



Station	12570	12653	15082
Overall F-value	F(3,123)=19.15	F(3,126)=21.88	F(3,123)=3.36
Overall model p-value	<0.001	<0.001	0.021
Flow t-value	1.09	-3.16	-2.677
Flow p-value	0.277	0.002	0.008
TSS t-value	6.10	5.97	1.096
TSS p-value	<0.001	<0.001	0.275
Date t-value	0.126	1.77	-1.326
Date p-value	**0.900**	**0.080**	**0.187**

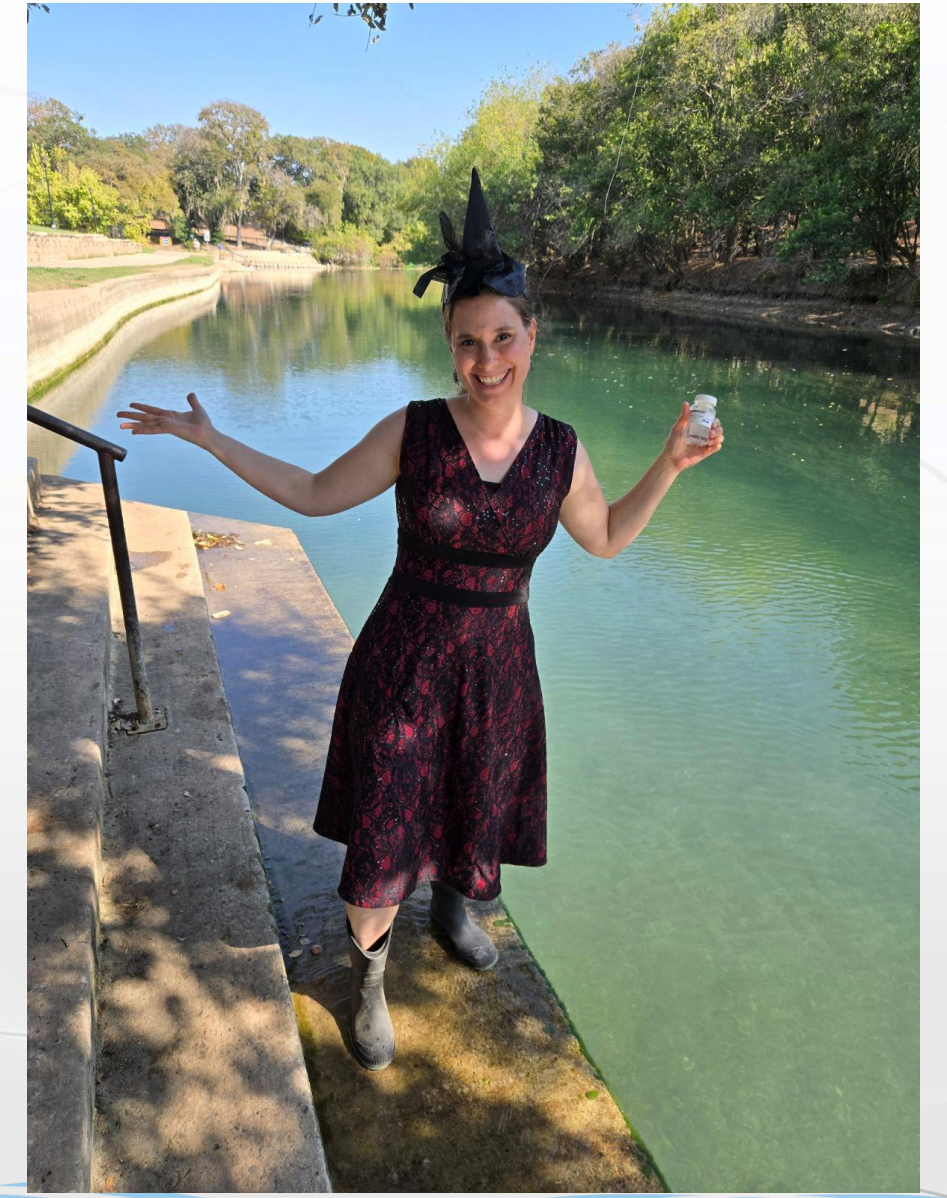
Are we seeing a difference in *E.coli?*



Land Use	2011	2023	Percent Change
Developed	6%	18%	12%
Cultivated Crops/Hay	21%	22%	1%
Open water	1%	0%	0%
open space, barren land	11%	8%	-3%
Forest/wetland	31%	27%	-4%
Grassland/ scrubshrub	31%	25%	-5%

GBRA
Guadalupe-Blanco River Authority

Questions?



GBRA
Guadalupe-Blanco River Authority