

TEXAS STREAM TEAM

Presented By:
Aspen Navarro, M.S., CPM
Deputy Director, Watershed Services

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THE MEADOWS CENTER
FOR WATER AND THE ENVIRONMENT
TEXAS STATE UNIVERSITY

TEXAS STREAM TEAM

AGENDA

1

ABOUT TEXAS STREAM TEAM

2

REGION ACTIVITY

3

GET INVOLVED

A topographic map of a region in Texas, showing a network of streams and rivers. The map is rendered in shades of blue and white, with the streams and rivers highlighted in a lighter blue. The terrain is indicated by contour lines and shading. The text "ABOUT TEXAS STREAM TEAM" is overlaid in the center of the map.

ABOUT TEXAS STREAM TEAM

STATEWIDE COMMUNITY SCIENCE WATER QUALITY MONITORING SINCE 1991

A network of trained community scientists and supportive partners
administered through a cooperative partnership between:



THE MEADOWS CENTER
FOR WATER AND THE ENVIRONMENT
TEXAS STATE UNIVERSITY





MISSION:

To facilitate environmental stewardship by empowering a statewide network of concerned community scientists, partners, and institutions in a collaborative effort to promote a healthy and safe environment through environmental education, data collection, and community action.

12,400+
Community Scientists

360+
Active Monitoring Sites

150+
Partners



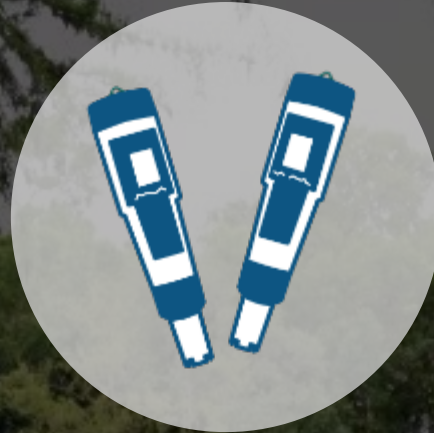
QUALITY ASSURANCE

- TCEQ-approved [Quality Assurance Project Plan](#)
- Monitoring techniques are standardized statewide to ensure consistent data quality
- Data are reviewed to ensure they are representative of the samples analyzed and locations monitored

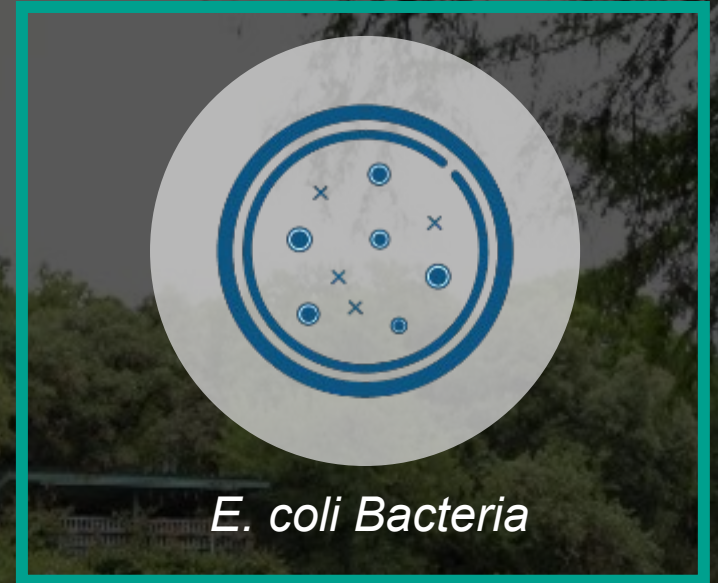
COMMUNITY SCIENTIST TRAININGS



Standard Core



Probe Core



E. coli Bacteria



Optical Brightener



Advanced



Riparian Evaluation

WHY COMMUNITY SCIENCE MONITORING?



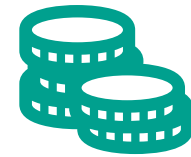
Increased monitoring coverage



Early warning system



Community engagement and empowerment



Cost effective

REGION ACTIVITY

METRICS OVERVIEW

8 TCEQ
SEGMENTS

9 TRAINERS

82 ACTIVE
MONITORS

69 ACTIVE
MONITORING
SITES

10,181 TOTAL
MONITORING
EVENTS

TRAINERS

Aquatic Alliance, Tom Heath - Probe

Aquatic Alliance, Richard Grayson – Core, Advanced

City of Arlington, Edgar Salazar – Standard Core

City of Dallas, Dale Lynch – Standard Core

City of Dallas, Leslie Cohea – Standard Core

City of Dallas, Sam Mosley – Standard Core

City of Frisco, Crystal Flannery-Bachicha – Standard Core

University of Texas at Arlington, Chandani Rana – Standard Core

PARTNERS

Aquatic Alliance

Blackland Prairie TMN

City of Arlington

City of Dallas

City of Denton

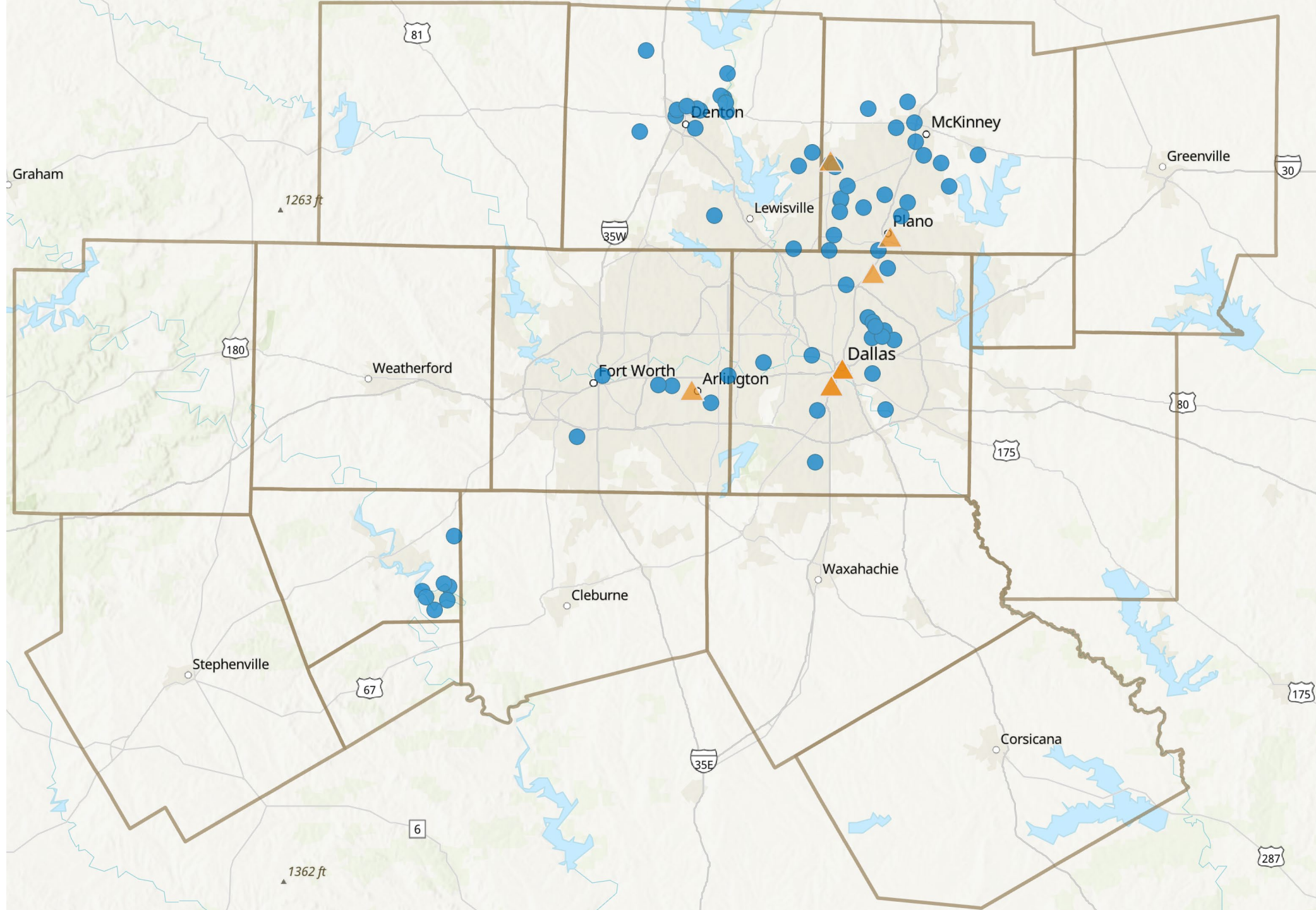
City of Frisco

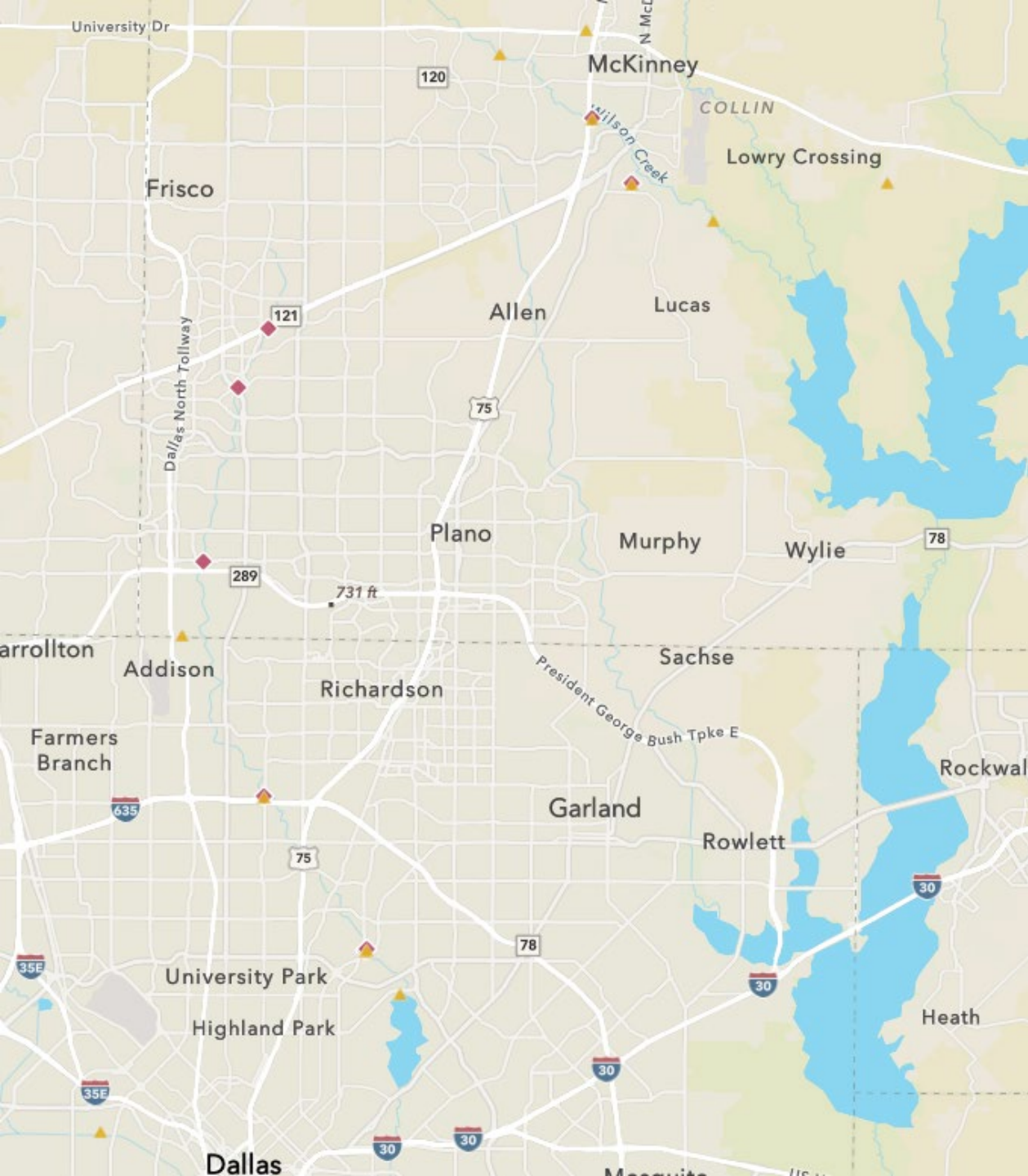
Rio Brazos TMN

Town of Flower Mound

City of Fort Worth

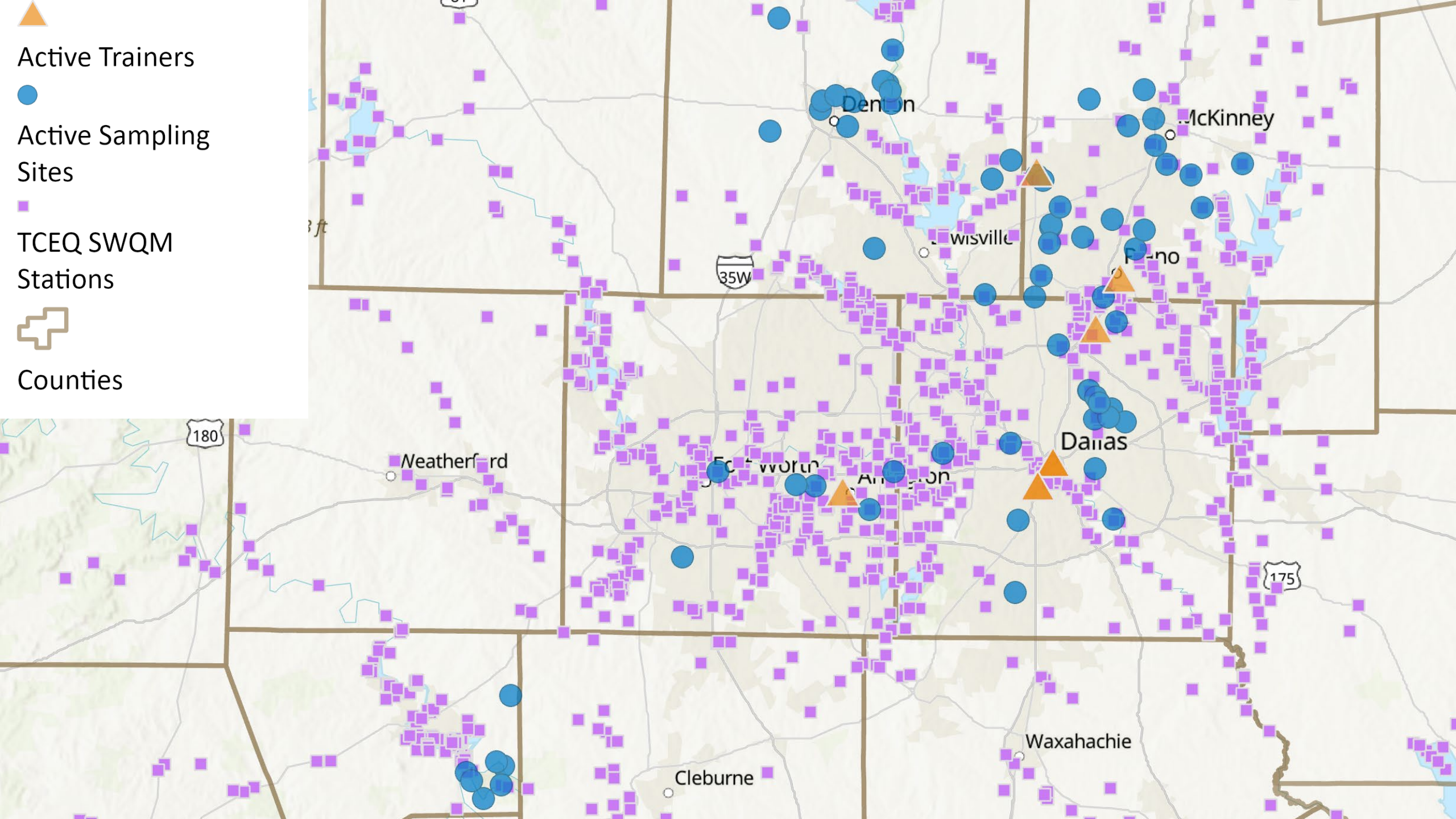
- ▲ Active Trainers
- Active Sampling Sites
- ⊕ Counties





NPS MONITORING

- 7 advanced sites
- 11 bacteria sites





White Rock Lake Watershed

WHITE ROCK LAKE WATERSHED SUMMARY REPORT



- *E. coli* impairment (Recreation Use) listed in 2016, categorized as 5c in the Draft 2024 TCEQ Integrated Report.
- Key findings from Texas Stream Team monitoring (1992–2024, 1,381 monitoring events, 19 sites analyzed):
 - Total Dissolved Solids exceedances (400 mg/L) at 3 sites.
 - Dissolved Oxygen below standard (5.0 mg/L) at 1 site.
 - *E. coli* exceedances (126 CFU/100 mL) at 7 sites.
 - Discrete measurements failed to meet WQS for TDS at 14 sites, DO at 15, temperature (32.2 C) at 5 sites, and pH (6.5-9.0 s.u.) at 5 sites.
- Recommendation to continue consistent monitoring and expand bacteria monitoring to track trends. Expand nutrient monitoring to assess nutrient loadings (Advanced).



GET INVOLVED

MAJOR GOALS

1

Ensure sustainable funding

2

Expand NPS pollution monitoring

3

Implement OB monitoring

4

Prioritize state monitoring sites

5

Enhance data quality

SERVICES

Trainings & monitoring

Watershed summary reports

Donated match

Accessible, long-term data

Grant and project collaboration

Outreach engagement

Junior Monitoring Ambassador Program

Student Leadership in Environmental Action Award (coming soon)

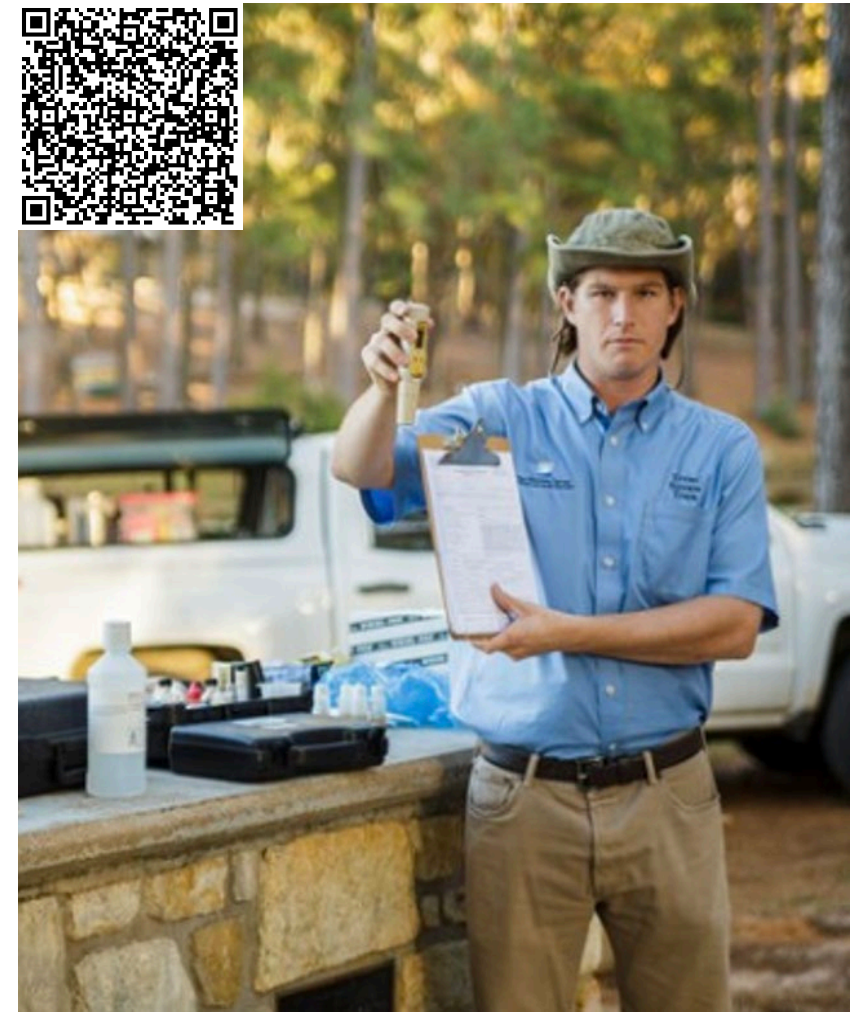
INVOLVEMENT OPPORTUNITIES



**COMMUNITY
SCIENTIST**

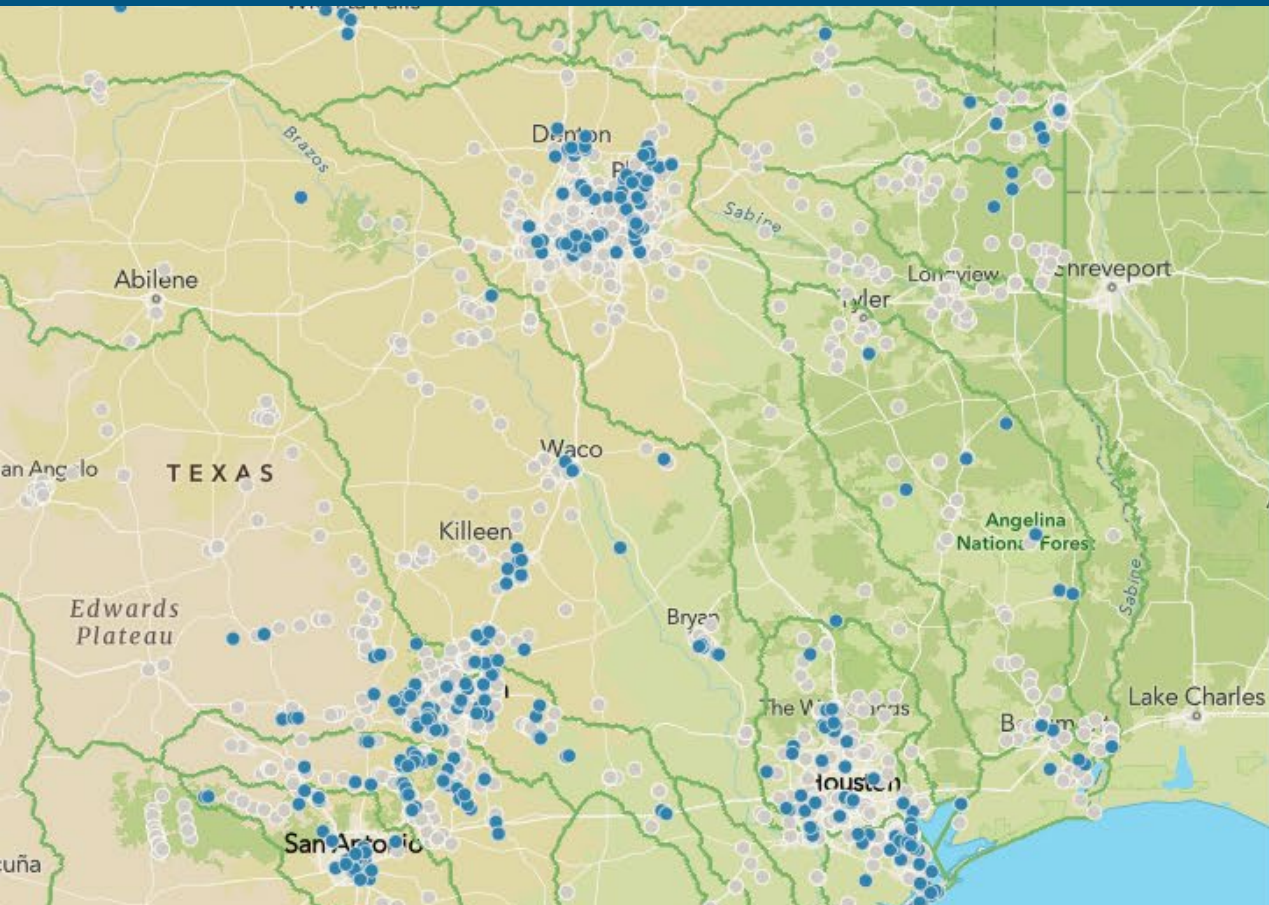


PARTNER



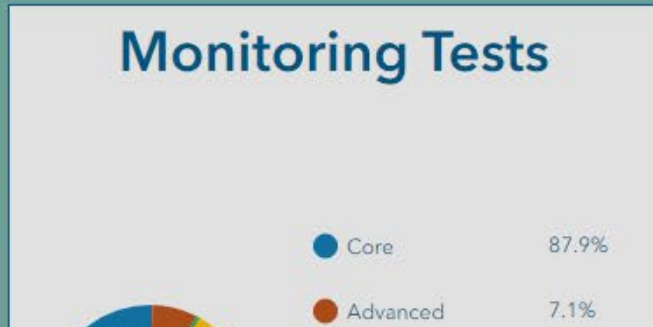
TRAINER/QAO

PUBLIC DATAMAP



357
in Texas
Selected:
357
Active Sites

- Flow Severity: High
- 8705 - Reinhart Branch @ Sunset Bay On White**
5/5/2024, 12:00 AM
Days Since Last Significant Rainfall: 0
Rainfall Accumulation: 2.26 inches
Flow Severity: High
- 12624 - San Marcos River In State Park**
5/1/2024, 12:00 AM
Days Since Last Significant Rainfall: 10
Rainfall Accumulation: 0.00 inches
Flow Severity: Normal
- 80751 - Oxbow Lake @ Palmetto State Park**
5/1/2024, 12:00 AM
Days Since Last Significant Rainfall: 10
Rainfall Accumulation: 0.00 inches
Flow Severity: No flow



Selected Site Statistics

(Updates with map extent)

2 - Crwn - Onion Creek At Hwy 190/220
2 monitoring events

Parameter	Average	Unit
pH	7.45	standard units
Dissolved Oxygen	9.15	mg/L



[ACCESS DATAMAP](#)



[REQUEST DATA](#)

CONTACT INFORMATION

Texas Stream Team:

TxStreamTeam@TxState.edu

512.245.1346

www.TexasStreamTeam.org



ARTIST CREDITS

Rachel Cywinski

Jenya Mendelenko

Cooper Peterson

Andrew Shirey



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