# THE MEADOWS CENTER FOR WATER AND THE ENVIRONMENT

No natural resource is more important to our future than Water. Water is what we do.

**RESEARCH | STEWARDSHIP | SERVICE | EDUCATION** 



TEXAS STATE UNIVERSITY



...is a joint partnership with Texas Commission on Environmental Quality, U.S. EPA Region VI, Texas State University-San Marcos, and numerous partners.

We bring together community members, students, educators, academic researchers, environmental professionals, and both public and private sector partners to conduct scientific research and to promote environmental stewardship.

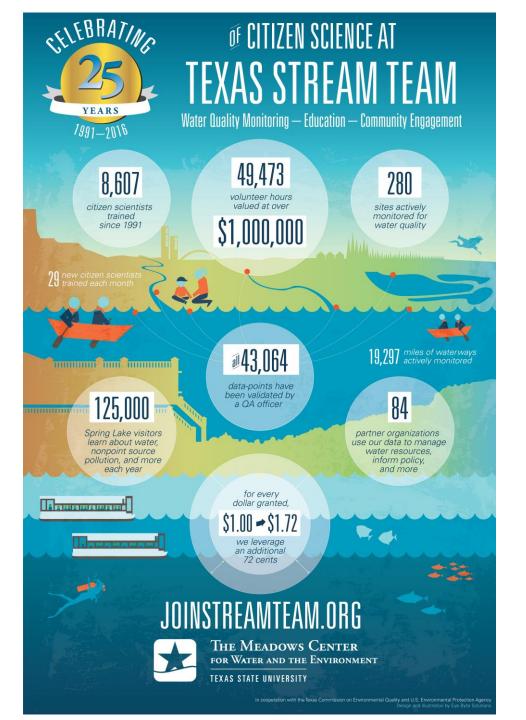


**Mission** - To facilitate environmental stewardship by empowering a statewide network of concerned volunteers, partners, and institutions in a collaborative effort to promote a healthy and safe environment though environmental education, data collection, and community action.





The Meadows Center for Water and the Environment 201 San Marcos Springs Drive | San Marcos, TX. 78666 Ph. 512.249.9200 | <u>meadowscenter@txstate.edu</u> EXPLORE SPRING LAKE.ORG



Volunteers collect water quality data from established sites

- Standard training for temperature, pH, dissolved oxygen, conductivity, water clarity, field observations
- Advanced training for E. coli, nitrates, phosphates, turbidity



Prepared in cooperation with the Texas Commission on Environmental Quality and the United States Environment Protection Agency.	Texas Commission on ronmental Quality and Julied States Environmental Texas Str					Send to: Texas Stream Team Texas State University Riverside Apts - Unit C4 601 University Drive San Marcos. TX 78666-4616	
riocauri geney.	ENVIR		MONITORING T (Black Ink or #2 Pencil)	FORM	Toll Free: (877)		
Group ID #	Monit	or's Name					
Station ID #	Site E	Description					
Sample Date	DYY Sam	ple Time (militar	у) Ц н н м и	Sample D	epth (meters)	(not total dept	
leter Calibration: (Within							
Calibration	Date Time	Standard Value	Standard Temp ("C)	Initial Meter Reading	Meter Adjusted To	Post Test	
pH (7.0)							
Core Tests and Measurements: CONDUCTIVITY (µS/cm)			Reagents/Media: Are any reagents (or media) expired? UYes No       List any expired:				
TDS Tester 3 (Low)  TDS Tester 4 (High)  Other WATER TEMPERATURE (*C) AIR TEMPERATURE (*C)			Bacteria Test:				
All Lewin Dissolved (C) Dissolved OXYGEN (mg/L) Average 1st titration 2nd titration			INCUBATION: Period (hrs) (28-31 hrs) Temp. (*C) (33+/-3*C)				
pH (standard unit SECCHI DISK TF	SAMPLE 1: Sample sizemt. Dilution factor (100/sample size) Colonies countedx dilution factor =chur100 ml. SAMPLE 2: Sample sizemt. Dilution factor (100/sample size) Colonies counted x dilution factor =chur100 ml. FELD BLANK-Arr colony organit (rotor one) YES / ND						
TOTAL DEPTH (r TRANSPARENC							
				VIEW: Checklist comple	.,	/ NO	

## Data Uses

- Inform citizens, communities about local water quality
- Act as an early warning system for water quality issues
- Municipalities can incorporate into outreach messaging and monitoring efforts
- Supplemental data and education components applied towards WPP and TMDL activities
- Interpretive displays, education and outreach event
- Teachers and students use data for research projects
- Presented on <u>Dataviewer</u>
- Compiled in Annual Data Summary Reports
- Submitted to EPA's water quality database

Participation in local planning, protection, restoration and educational events

- Watershed protection plans, TMDLs, water conservation initiatives
- University research, long term monitoring efforts
- Clean ups, restoration, habitat monitoring
- Community events, school programs, youth programs



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#### **TST Partners, Network**

- Provide kits, supplies, materials when budget allows
- Host trainings and educational events
- Create Monitoring Plans for citizen scientists
- Conduct quality assurance and submit data
- Incorporate TST data into projects, planning
- Use TST data to supplement professional water quality monitoring
- Act as watershed ambassadors, regional hubs
- Provide education and outreach, special projects, other support

#### **Current TST Partners Active in the UTRB**

- Aquatic Alliance
  - Rich Grayson
    - <u>http://www.whiterocklake.org/index</u> <u>.php/programs/water-</u> <u>monitoring/texas-stream-team-and-</u> <u>aquatic-alliance</u>
- City of Dallas
  - Christopher Morris



#### **Specialized Data Collection Options**

- Determine priority volunteer monitoring sites within your watershed
- Pick and choose parameters to test on a monthly or quarterly basis
- Schedule site specific grab samples to be brought to certified lab



#### **Training and WQ Monitoring Kit**

- Become trained as a Texas Stream Team instructor and recruit/train citizen scientists as needed
- Purchase kits to check out to volunteers directly
- Team up with existing Stream Team chapters in DFW area to share kits and training opportunities



### **New TST Programs**

- TST Paddlers
- TST Anglers
- TST Divers
- TST on Campus
- Monofilament Finders
- Biomonitoring
- Riparian Assessments
- <u>Video</u>



## **THANK YOU**

Visit www.joinstreamteam.org for more info.

Jenna Walker, MAGeo Program Coordinator jjwalker@txstate.edu 512-245-9148



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