

Texas Stream Team

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



PREPARED IN COOPERATION WITH THE Texas Commission on Environmental Quality and U.S. EPA. The preparation of this presentation was financed through grants from the Texas Commission on Environmental Quality



Watershed Education



Water Quality Monitoring



Community Action



General Initiatives

- Watershed education and Targeted curriculum resources
- Monitoring
 - pH, D.O., TDS, temperature, field observations, etc
 - *E. coli*
- Uses of data:
 - Problem Identification
 - Research
 - Education
 - Local decision-making

General Initiatives

- Materials - Watershed Models
- Web site resources – Data Reports, Data Forum, Maps
- In Progress – Data Pamphlets, Data Viewer
- Partner collaboration
 - River Authorities
 - Municipalities & COGs
 - Universities
 - School Districts
 - other organizations
- Intensive bacteria surveys

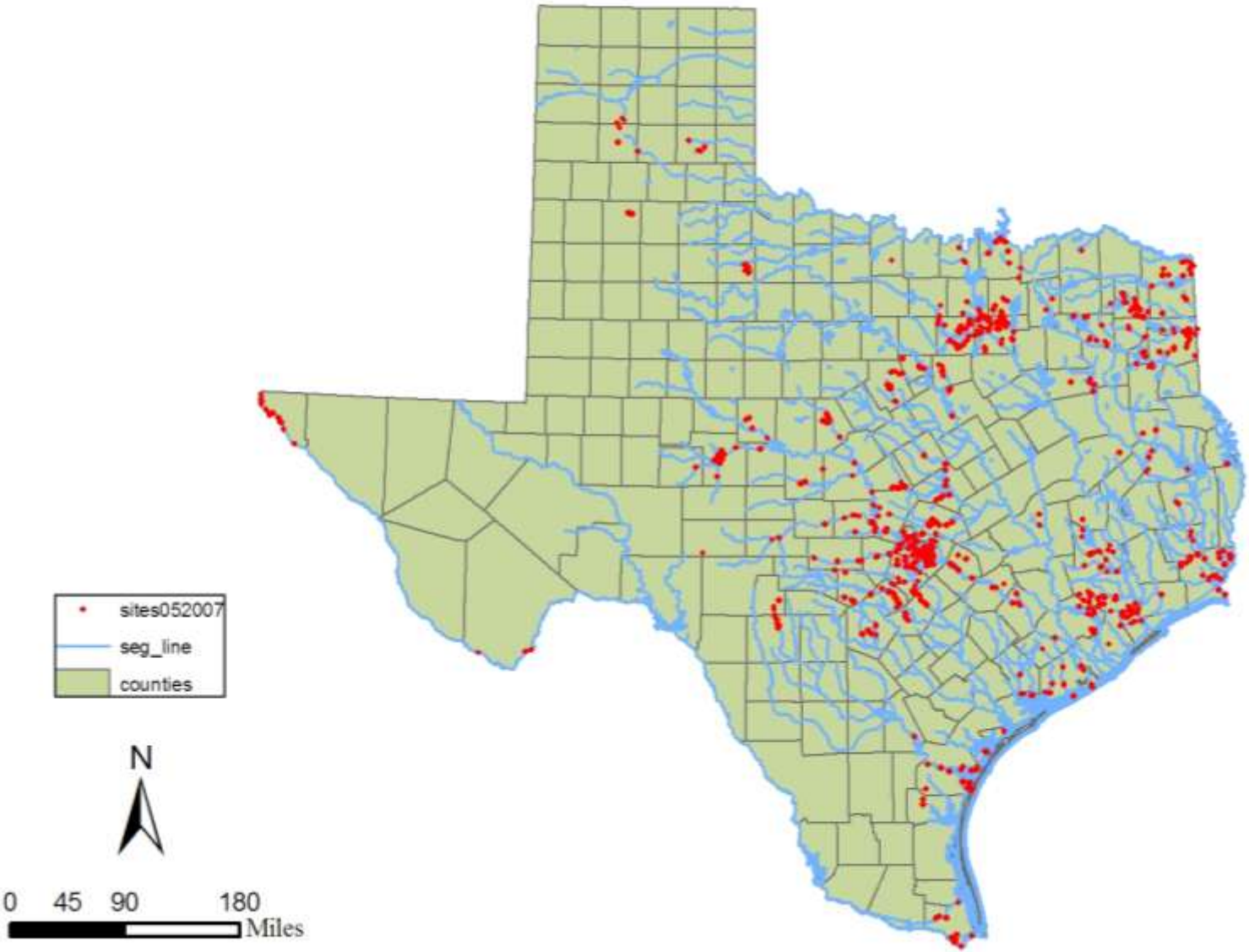
Enviroscape Watershed Model

Great way to communicate
NPS to any age school children
through:

- Hands on activities
- Visual sense of learning
- Practical application



Texas Stream Team Monitoring Locations

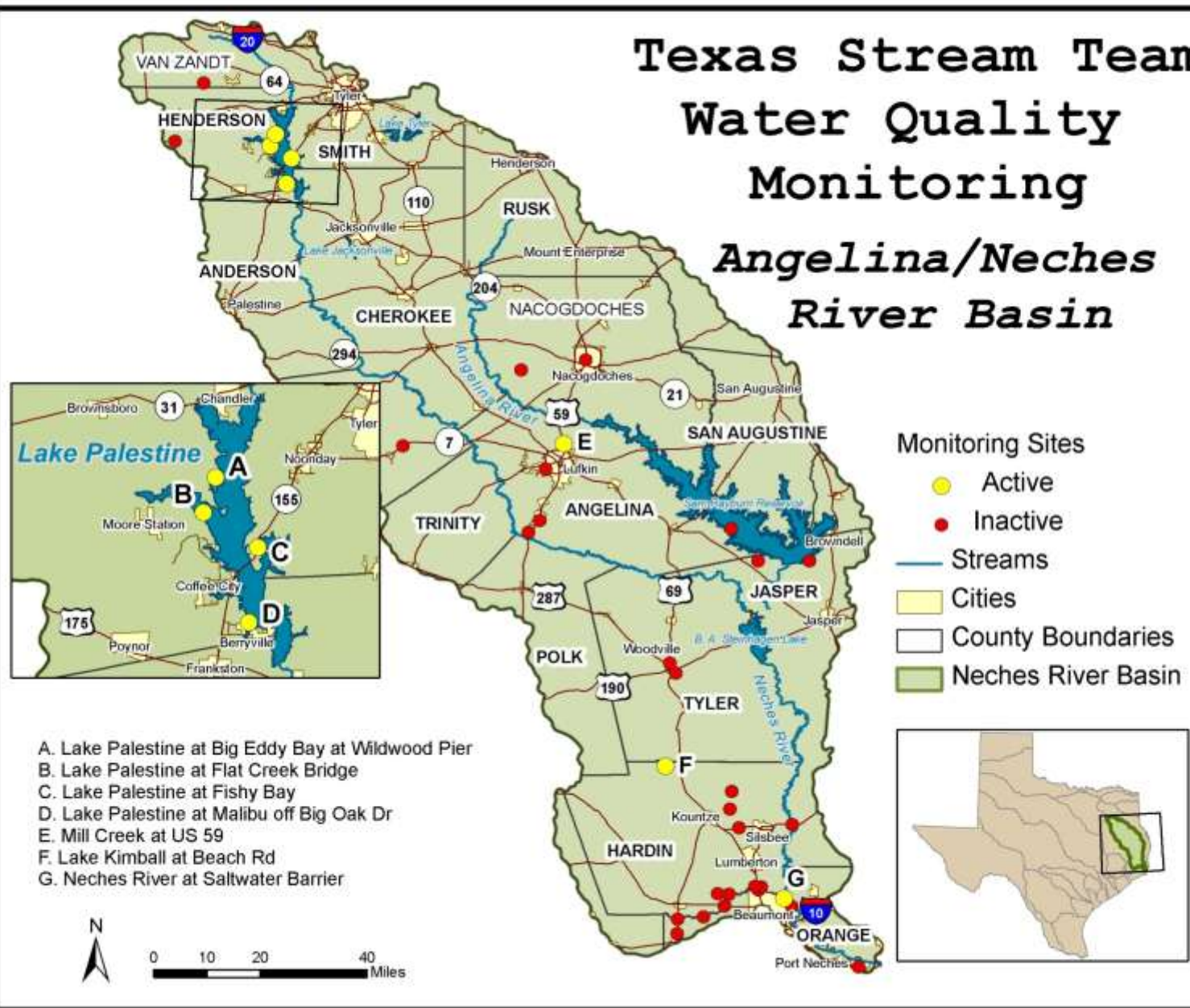


Project Areas

Building Capacity through Education & Monitoring

- Upper Guadalupe River – Kerrville, New Braunfels
- Plum Creek – Kyle, Lockhart, Luling
- Gilleland Creek - Austin, Pflugerville, Manor
- Oso Creek/Oso Bay – Corpus Christi
- Arroyo Colorado – Harlingen, McAllen
- Orange County – Lower Sabin River Basin

Texas Stream Team Water Quality Monitoring *Angelina/Neches River Basin*



Activities in Angelina-Neches Basin

With assistance from ANRA, Texas Stream Team is currently:

- supporting an active monitoring group on Lake Palestine



Greater Lake Palestine Council

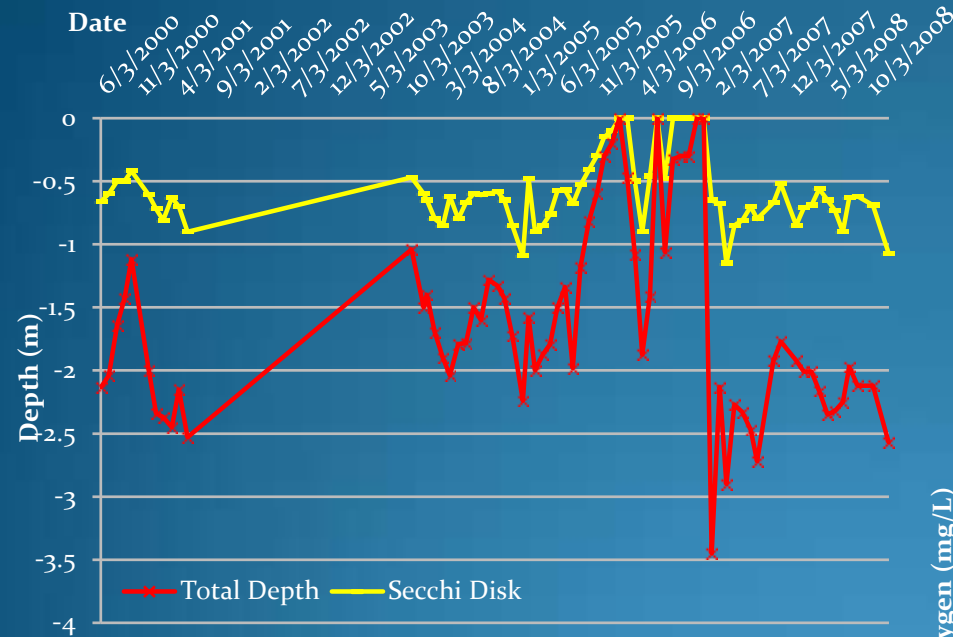
Started in 2000,
consistent every
month since 2003



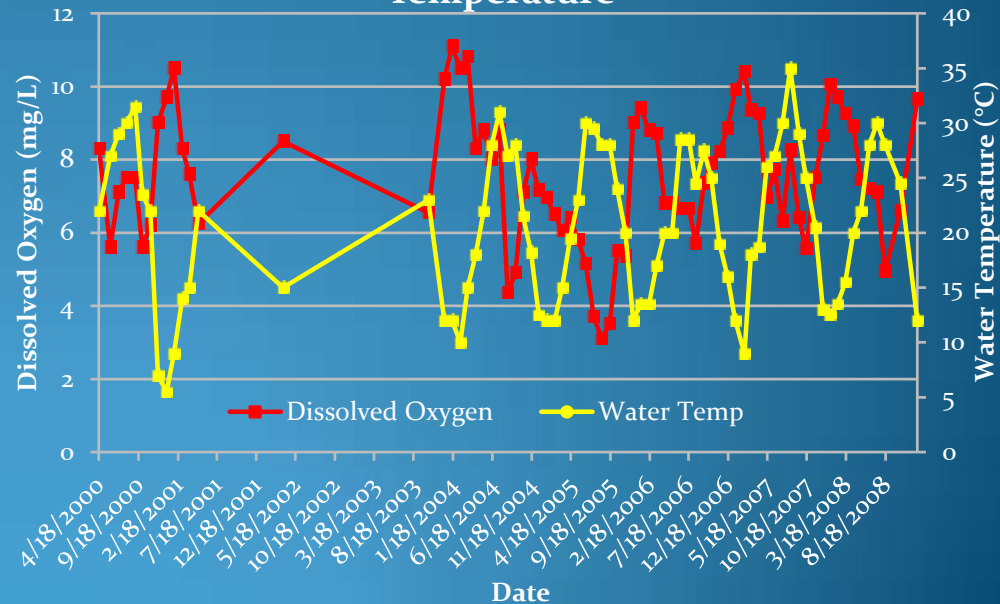
Last visited: February 2009

GLPC Data

Wildwood Pier: Secchi and Total Depth



Fish Bay: Dissolved Oxygen and Water Temperature



GLPC concerns:

How will water quality change as a result of an increase in lake levels from an addition to the dam?

Monitoring Groups in the Basin

- Greater Lake Palestine Council
- Also working with LNVA in the lower part of the basin

Recruitment of New Volunteers

- Texas Stream Team trains, equips, and supports volunteers in every major basin in the state
- Trainings can also be conducted by, or in collaboration with, partner entities
- Trainings are done in a one day, tri-phased format. Phase I is a demonstration of the monitoring procedures, Phase II is do-it-yourself monitoring, and Phase III is completely independent of trainer input
- Trainee values are compared to trainer values after each Phase and progress is assessed along the way
- Texas Master Naturalist Chapters, school teachers, students, active citizens

E. coli Success Story in San Marcos



From the samples taken for training purposes, TST communicated with The San Marcos River Foundation about high *E. coli* in the San Marcos River. Led to a City of San Marcos investigation and discovery of a failed valve draining duck ponds into the river.

Good example of how monitoring can lead to reduced *E. coli* loadings.

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