

Draft 2010 Basin Highlights Report & FY 2010 Coordinated Monitoring





Red and Canadian River Basins Vicinity Map

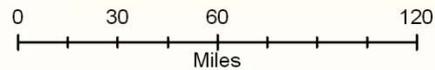


Texline



Legend

- Hydrology
- Interstate Highway
- US Highway
- State Highway
- Populated Area
- Canadian River Basin
- Red River Basin



How is Surface Water Quality Determined?

The Federal Clean Water Act – Sections 305(b) & 303(d)

The Environmental Protection Agency (EPA)

The State of Texas

Texas Commission on Environmental Quality (TCEQ)

The Texas Water Quality Inventory & 303(d) List

(In 2010 – The Integrated Report)

(Various Divisions)

Surface Water Quality Monitoring Team (SWQM)

Continuous Water Quality Monitoring Team (CWQM)

Total Maximum Daily Load Team (TMDL)

Clean Rivers Program Partners (CRP)

The Red River Authority of Texas

Where Do We Collect Information for the BHR?

The Stakeholder

Red River Authority of Texas

www.rra.dst.tx.us

Texas Commission on Environmental Quality (TCEQ)

[www.tceq.state.tx.us/compliance/monitoring/water/quality/
data/wqm/mtr/index.html](http://www.tceq.state.tx.us/compliance/monitoring/water/quality/data/wqm/mtr/index.html)

United States Geological Service (USGS)

<http://waterdata.usgs.gov/tx/nwis/rt>

What is the Water Quality in the Red River Basin?

SUMMARY REPORT of the Canadian and Red River Basins

2009



This Report Was Prepared under
the Clean Rivers Program in Coop-
eration with and Financed through
Grants from the Texas Commis-
sion on Environmental Quality

*“ Water resources within the
Red River Basin are generally good
and support a hearty and robust
aquatic life with respect to stream
standards. “*

2009 Basin Summary Report



What Water Quality Parameters Require Attention ?

Dissolved Salts

Total Dissolved Solids
Chlorides

Aquatic Health

Low Dissolved Oxygen

Nutrient Enrichment

Ammonia
Chlorophyll a
Nitrates
Total Phosphorous
Ortho-Phosphorous

Human/Wildlife Health

Bacteria – *E. coli*

Drought & Floods

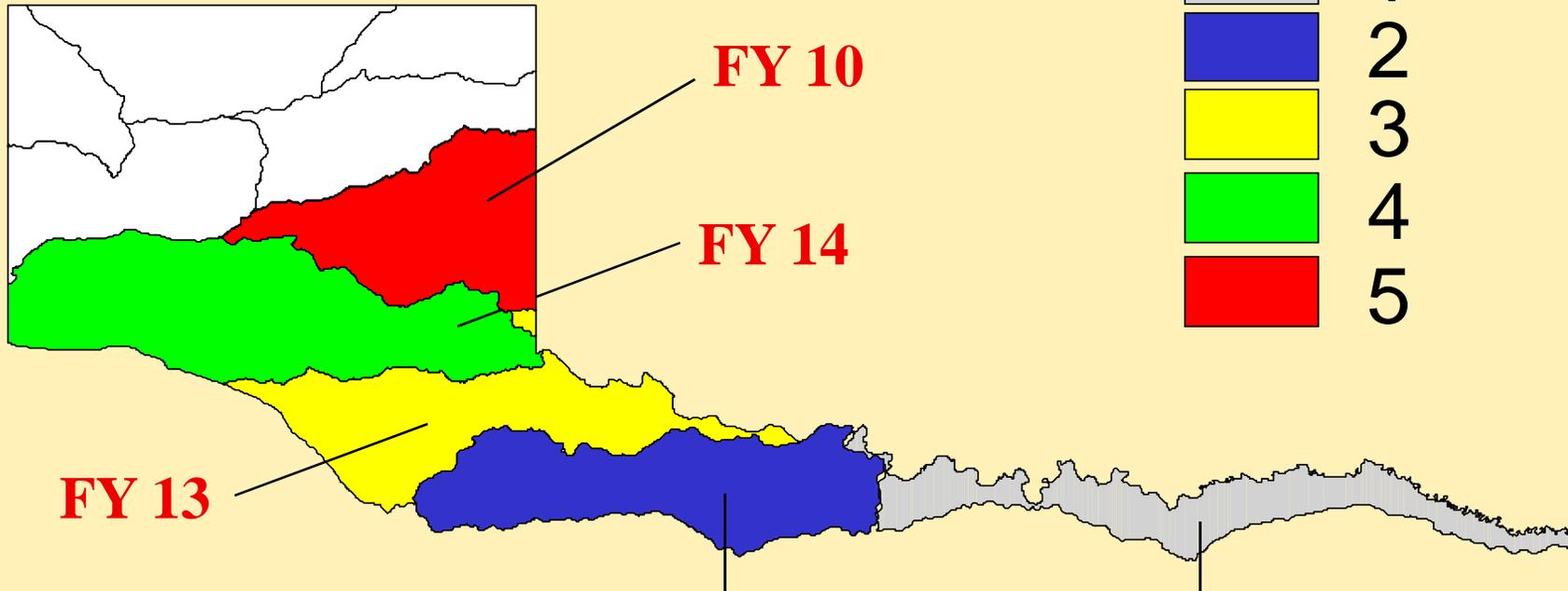
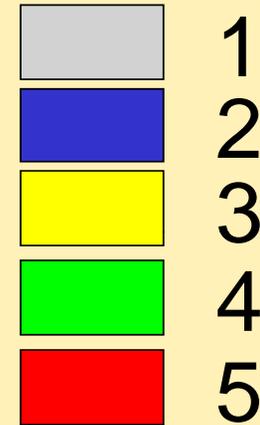
Water Quality Monitoring in the Red River Basin

<u>ENTITY</u>	<u>FY 10</u>
RRA	30
TCEQ	24
USGS	30
City of Sherman	7
<hr/>	
Total Stations Monitored	91



Red River Basin

Basin Reaches



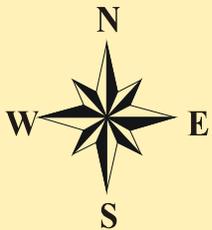
FY 10

FY 14

FY 13

FY 12

FY 11



Basin Reach Annual Rotation Schematic

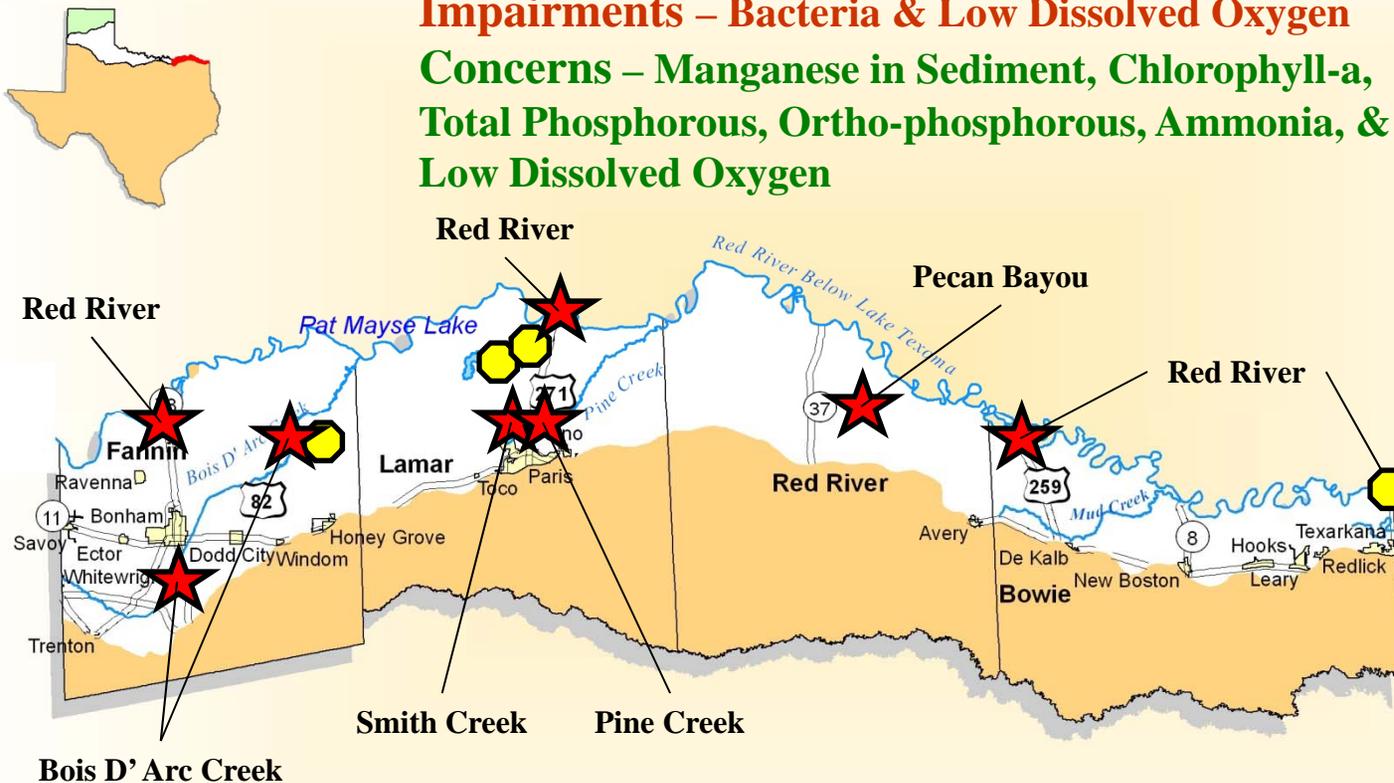
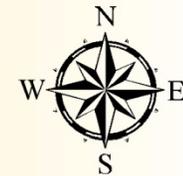


Red River Basin Lower Reach I



2008 TWQI

Impairments – Bacteria & Low Dissolved Oxygen
Concerns – Manganese in Sediment, Chlorophyll-a, Total Phosphorous, Ortho-phosphorous, Ammonia, & Low Dissolved Oxygen



Coordinated Monitoring Efforts



Red River @ US 259



Bois D' Arc Creek @ SH 78



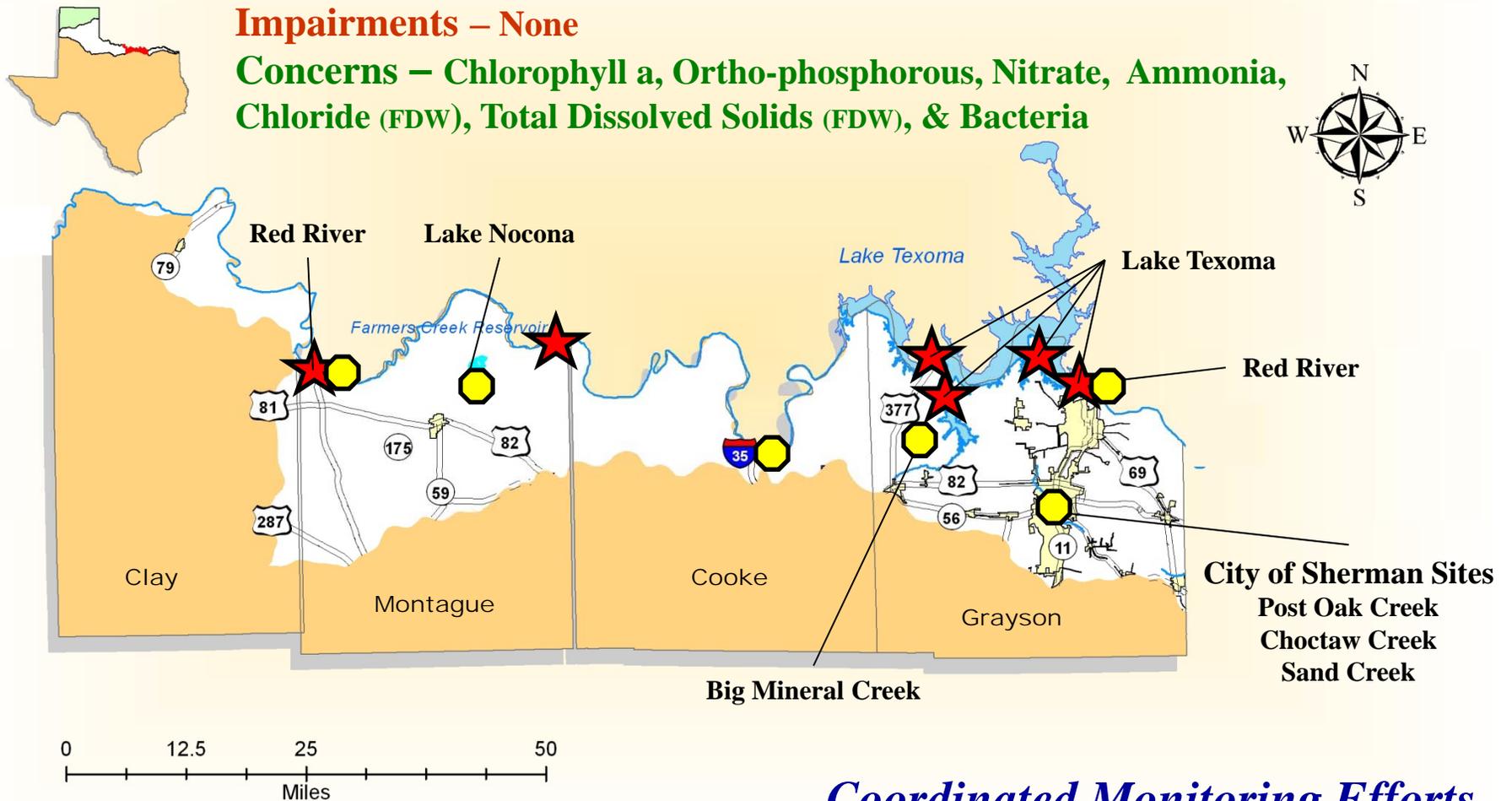
Red River Basin Upper Reach I



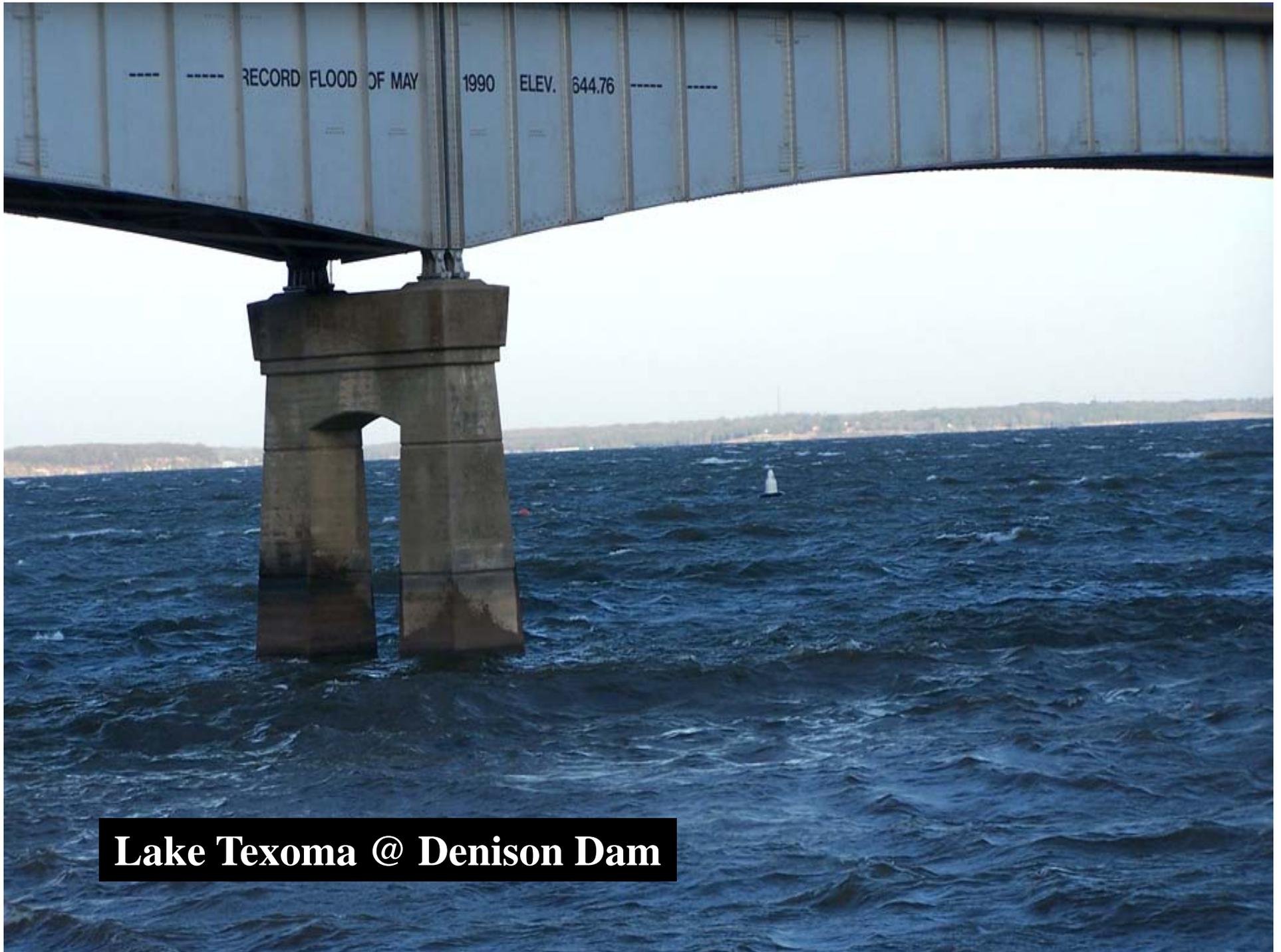
2008 TWQI

Impairments – None

Concerns – Chlorophyll a, Ortho-phosphorous, Nitrate, Ammonia, Chloride (FDW), Total Dissolved Solids (FDW), & Bacteria



Coordinated Monitoring Efforts



Lake Texoma @ Denison Dam

**USE OF
LAUNCH RAMP
FEE
\$5.00**

Pay at main office
before launching.
Or
Vehicle may be
towed at owner
expense.

BOATERS' ADVISORY
ZEBRA MUSSELS HAVE BEEN
FOUND IN THESE WATERS



If your boat was in a lake that has Zebra Mussels, you may still be carrying live mussels with you. Adults, eggs and larvae can survive out of water for 5 days during summer and up to 30 days in cool, wet weather.

Zebra Mussels vary from 1/8 to 2 inches long and have a striped yellow-brown shell. Zebra Mussels are very prolific and harmful.

To prevent damage to your boat or transportation to non-infested water, please follow these guidelines.

- Pull all plugs and drain all water including bilge, live well, motor and bail buckets.
- Inspect the boat and trailer for attached Zebra Mussels.
- Scrape off any Zebra Mussels and remove all vegetation, mud or other debris.
- Dry boat and trailer for at least 1 week, opening all compartments and areas where there may be moisture, before entering another waterway.

OR

- Wash boat, motor and trailer with high-pressure, hot (140°F) water. (most commercial carwash facilities will suffice) a 10% chlorine and water solution, or a hot saltwater solution. Finish with a clean water rinse. Don't wash at the ramp.

FOR MORE INFORMATION CONTACT:

Texas Parks and Wildlife Department:

- Lake Training Program
- Region 2 Headquarters, Waco

803-796-2389

254-867-3773

U.S. Army Corps of Engineers:

- Lake District Office
- Ft. Worth District Office

318-686-7411

817-886-1565



Lake Texoma Flood Gate

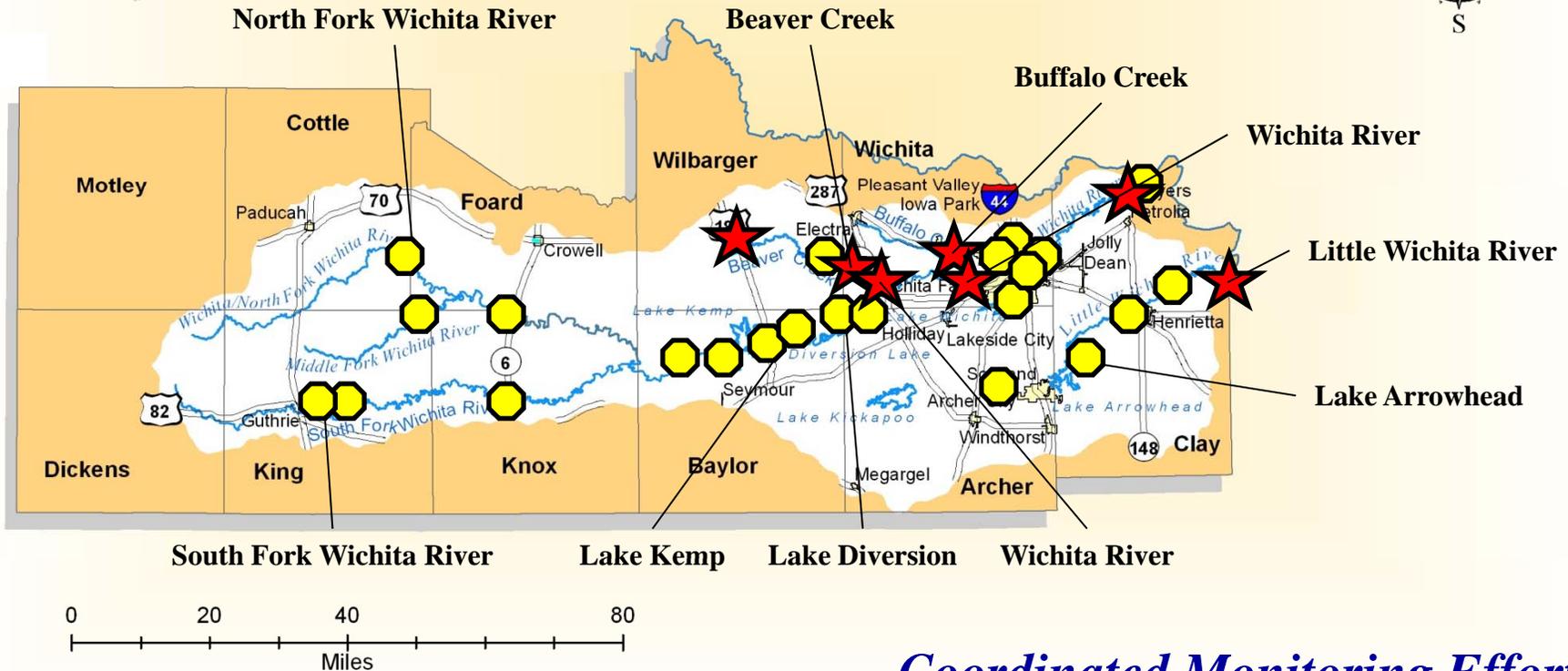


Red River Basin Reach II



2008 TWQI

Impairments – Low Dissolved Oxygen, Bacteria, & Chloride
Concerns – Chlorophyll a, Total Phosphorous, Ortho-phosphorous, Nitrate, Ammonia, Bacteria, & Low Dissolved Oxygen



Coordinated Monitoring Efforts



Wichita River @ FM 368



Wichita River @ FM 368



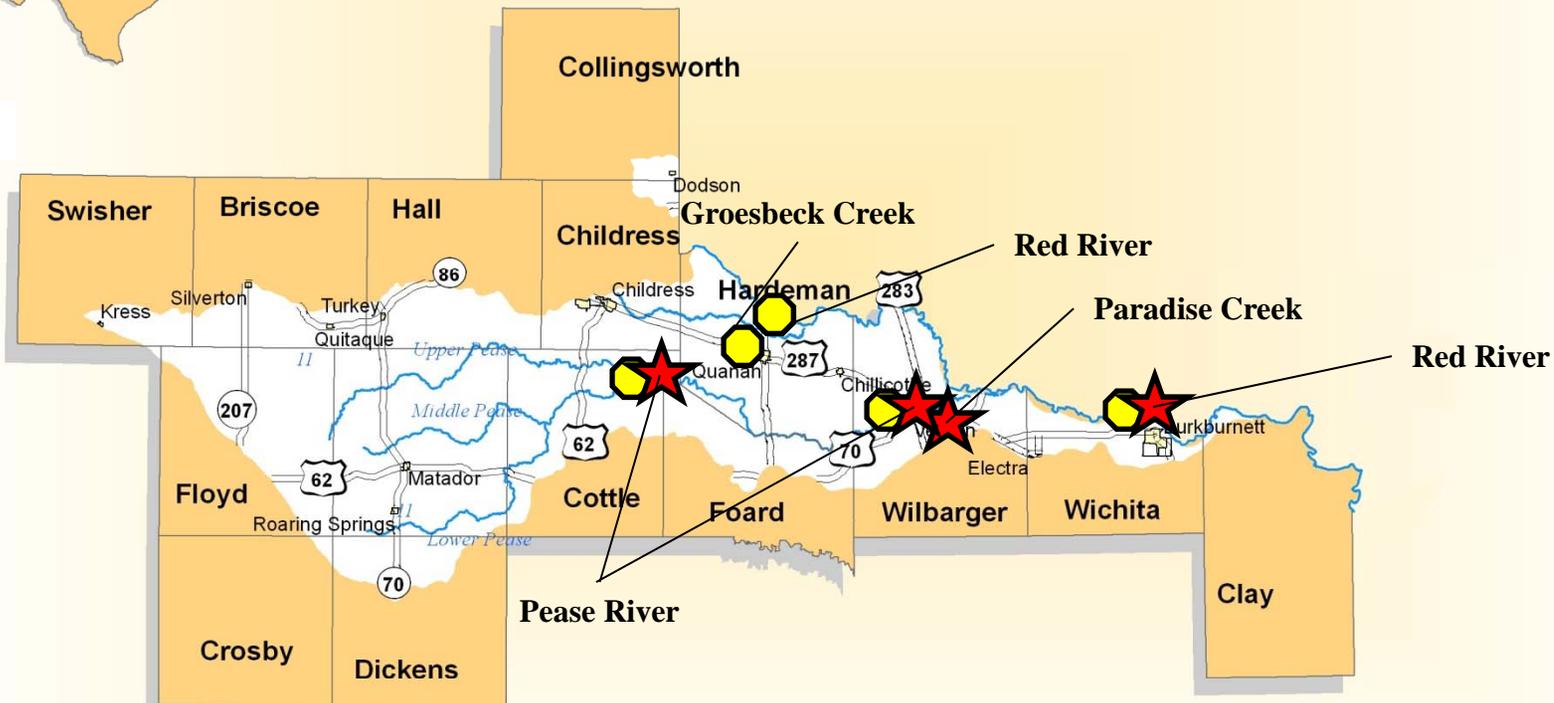
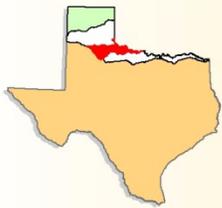
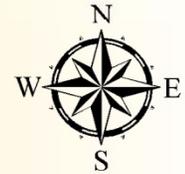
Red River Basin Reach III



2008 TWQI

Impairments – Bacteria

Concerns – Chlorophyll a, Nitrate, & Bacteria



Coordinated Monitoring Efforts



Red River @ US 277/281



Pease River @ FM 104



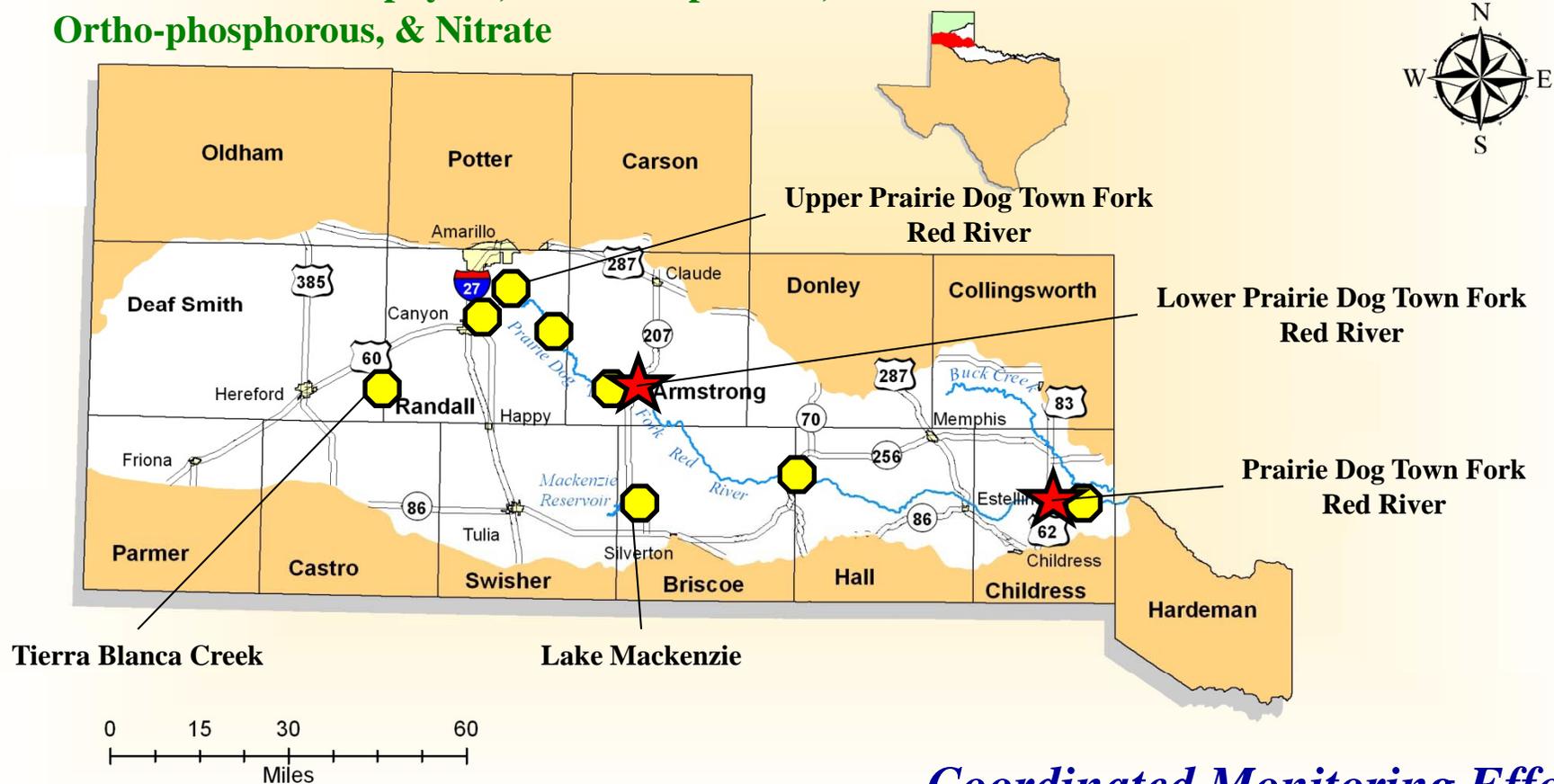
Red River Basin Reach IV



2008 TWQI

Impairments – Bacteria & pH

**Concerns – Chlorophyll-a, Total Phosphorous,
Ortho-phosphorous, & Nitrate**



Coordinated Monitoring Efforts

LPDTF Red River @ SH 207





PDTF Red River @ US 83

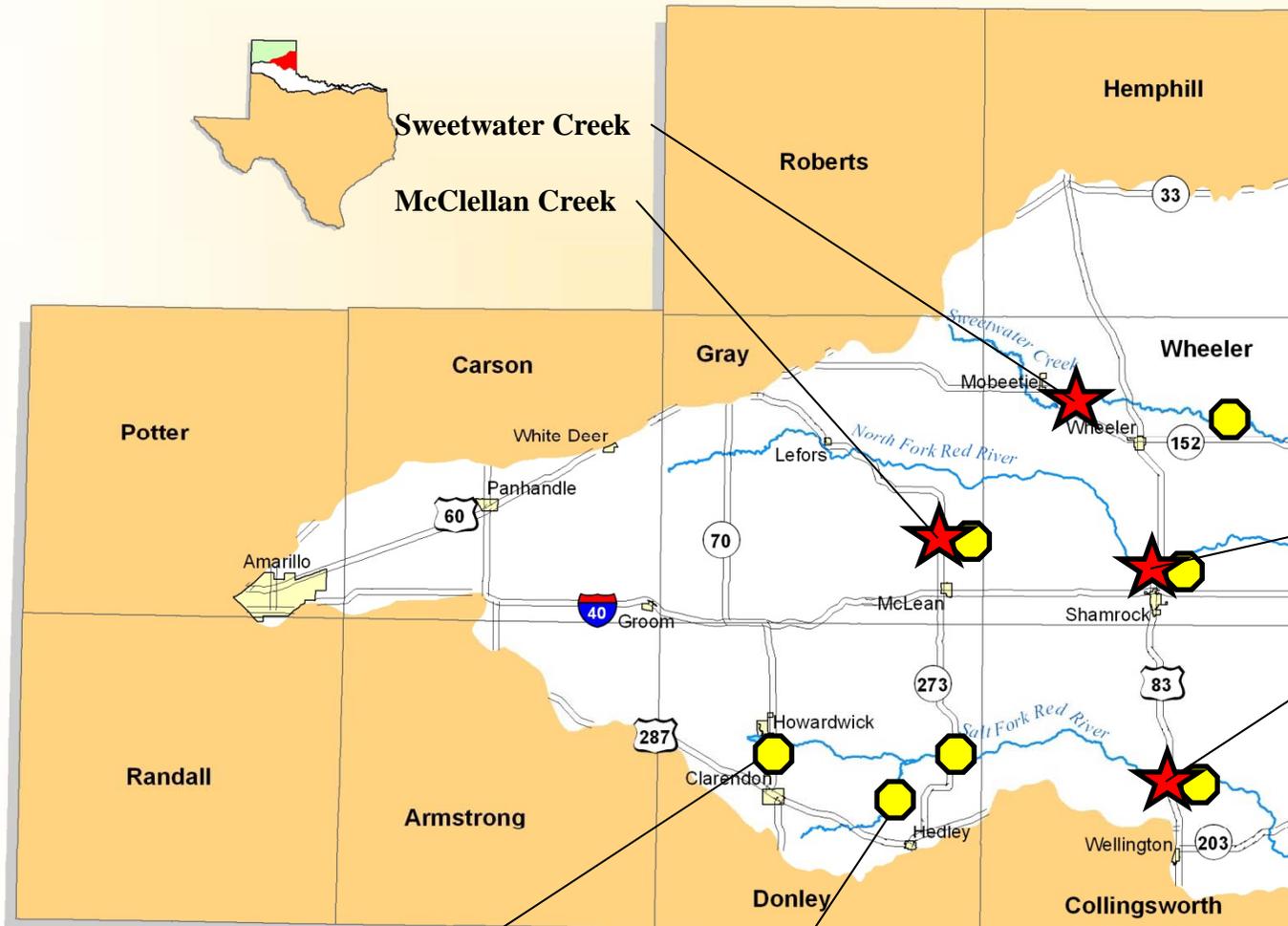


**PDTF Red River
Total Dissolved Solids**

11/15/2005



Red River Basin Reach V



2008 TWQI

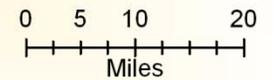
Impairments

Bacteria

Concerns - None

North Fork Red River

Salt Fork Red River



Greenbelt Reservoir

Lelia Lake Creek

Coordinated Monitoring Efforts



Salt Fork Red River @ US 83



McClellan Creek @ SH 273

QUESTIONS OR COMMENTS



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