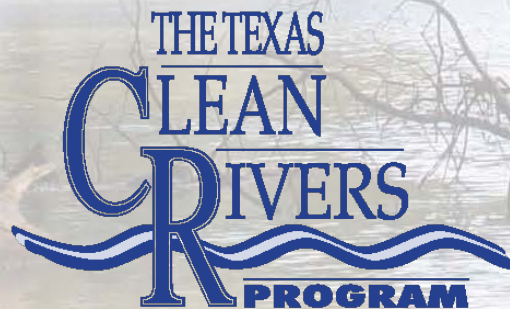




# Upper Neches Basin Steering Committee Meeting

July 11, 2017



# Agenda

## **Welcome and Introductions**

Brian Sims, Angelina & Neches River Authority

## **Overview of the Clean Rivers Program**

Brian Sims, Angelina & Neches River Authority

## **ANRA's Water Quality Monitoring Program – What We Test For and Why**

Hannah Lucia, Angelina & Neches River Authority

## **Neches River Wildness**

Adrian F. Van Dellen, The Sentinels

## **Interagency Flood Risk Management (InFRM) Neches Basin Hydrology**

Bret W. Higginbotham, P.E., CFM, U.S. Army Corps of Engineers

## **Sam Rayburn Reservoir Master Plan Revision**

Bart Dearborn, U.S. Army Corps of Engineers

## **Forestry Best Management Practices to Protect and Preserve Water Quality**

Dr. Matthew McBroom, Stephen F. Austin State University

## **Update on Ongoing and Upcoming Nonpoint Source Grant Projects for the Attoyac Bayou, Angelina River, and La Nana Creek Watersheds**

Dr. Lucas Gregory / Amy Truong / Kirby Peddicord, Texas Water Resources institute

## **The 2017 Basin Highlights Report**

Brian Sims, Angelina & Neches River Authority

## **Open Discussion for Steering Committee Member Recommendations and Concerns**

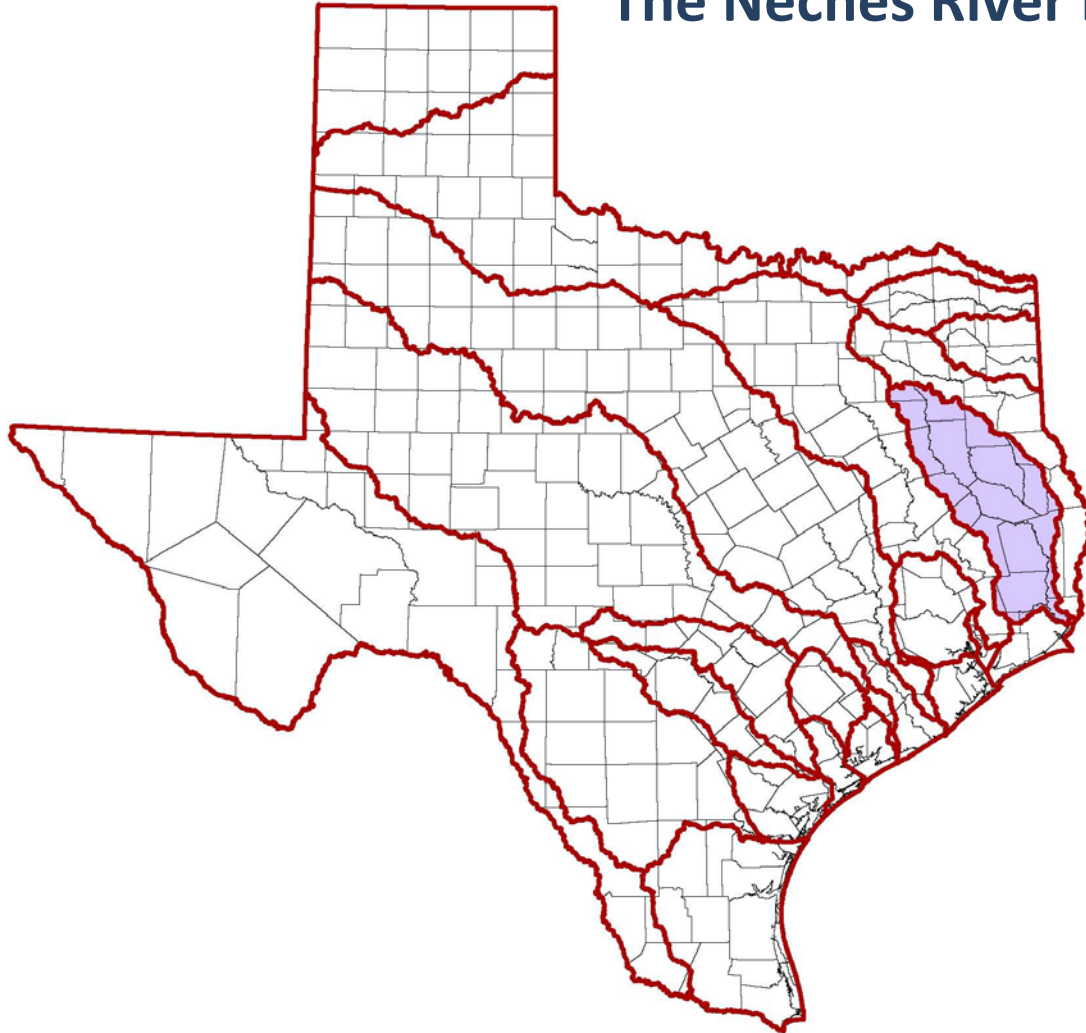


# **ANRA's Functions in the Neches Basin**





## The Neches River Basin



**ANRA's Jurisdictional Service Area includes all or a portion of the following counties:**

Van Zandt  
Smith  
Henderson  
Newton  
Cherokee  
Anderson  
Rusk  
Houston  
Nacogdoches

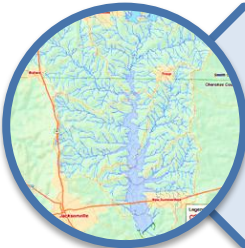
San Augustine  
Shelby  
Angelina  
Trinity  
Sabine  
Polk  
Jasper  
Orange



## **ANRA's General Administration**



**Coordinate with  
Governments/Entities**



**Water Resource Planning and Development**



**Economic Development  
Bond Issuance**



## **ANRA's Field Operations Division**



**Regional Wastewater Treatment Facilities  
and Contract Operations**



**Drinking Water Utilities**



**Biosolids Composting  
Neches Compost Facility**



## ANRA's Environmental Division



**Clean Rivers Program**  
Water Quality Monitoring



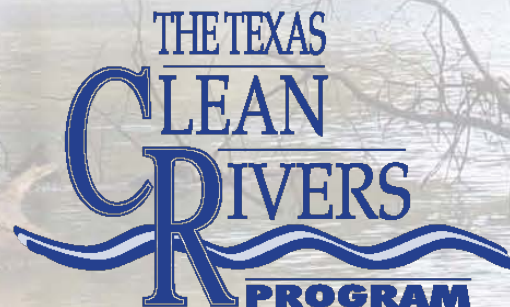
**Environmental Laboratory**  
Drinking Water, Surface Water, and  
Wastewater Testing



**On-Site Sewage Facilities Program**  
OSSF Permitting & Investigations



# An Overview of the Texas Clean Rivers Program







## The Texas Clean Rivers Program (CRP)

- Established in 1991 by the 72<sup>nd</sup> Texas Legislative Session (SB 818)
- Purpose is to monitor the waters of the state and maintain and/or improve water quality
- Partially funded by fees on wastewater discharge and water rights permits
- Collaboration of the Texas Commission on Environmental Quality (TCEQ) and 15 partner agencies
- Emphasis on the collection of water quality data for assessment and regulatory purposes

<http://www.tceq.texas.gov/waterquality/clean-rivers>



Attoyac Bayou at SH 7



### FY 2016 - 2017 Budget Allocations

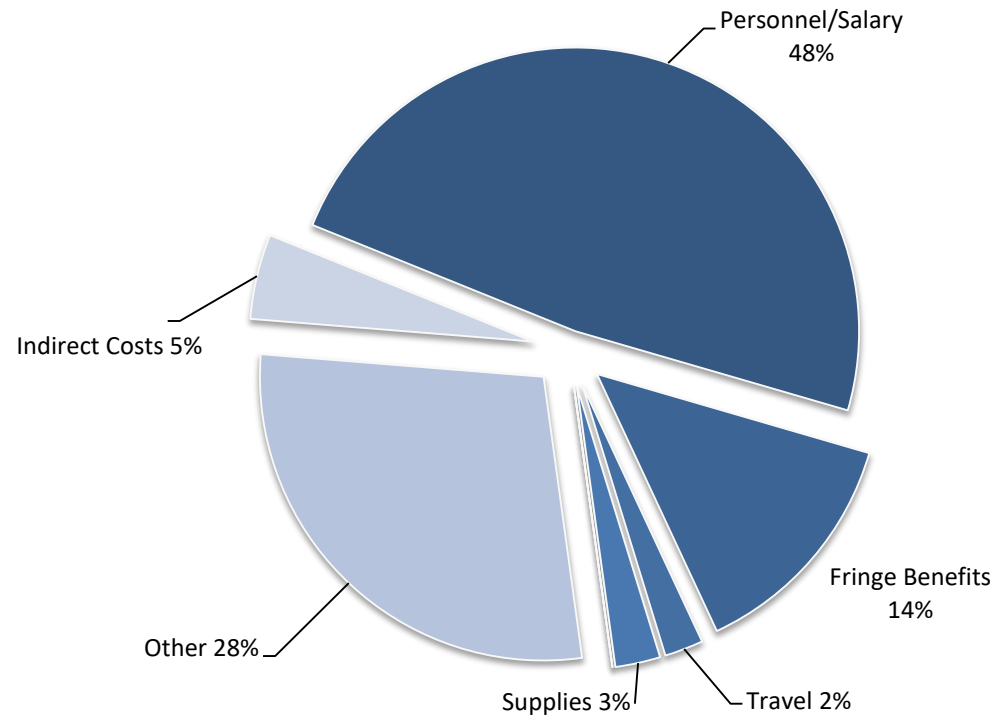
<b><u>Planning Agency</u></b>	<b><u>FY 2016</u></b>	<b><u>FY 2017</u></b>	<b><u>Total Allocation</u></b>
BRA (12)	398,1590	398,159	796,318
GBRA (17 & 18)	135,3781	135,378	270,756
HGAC (9, 10, 11, 13)	965,615	965,615	1,931,230
IBWC (23)	267,252	267,252	534,504
LNRA (16)	99,298	99,298	198,596
LCRA (14 & 15)	381,797	381,797	763,594
ANRA & LNVA (6 & 7)	329,766	329,766	659,532
NETMWD (4)	99,298	99,298	198,596
NRA (20, 21, & 22)	258,906	258,906	517,812
RRA (1 & 2)	311,118	311,118	622,236
SARA (19)	197,770	197,770	395,540
SRA (5)	313,074	313,074	626,148
SRBA (3)	99,297	99,297	198,594
TRA (8)	393,272	393,272	786,544
<b>TOTALS</b>	<b>\$4,250,000</b>	<b>\$4,250,000</b>	<b>\$8,500,000</b>



## ANRA Clean Rivers Program Budget by Category

### FY 2016 – FY 2017 Clean Rivers Program Budget

Budget Category	Approved Budget
Personnel/Salary	\$159,575.00
Fringe Benefits	\$44,681.00
Travel	\$7,276.00
Supplies	\$8,476.50
Equipment	\$0.00
Contractual	\$0.00
Construction	\$0.00
Other	\$93,800.00
Indirect Costs	\$15,957.50
<b>Total Reimbursable Costs</b>	<b>\$329,766.00</b>







## ANRA Clean Rivers Program Budget

- ANRA received \$4,000 in additional equipment funds as part of a cost match to update our laboratory's AutoAnalyzer
- The upgrade will allow the laboratory to analyze for Total Kjeldhal Nitrogen (TKN)







# **ANRA's Water Quality Monitoring Activities in the Upper Neches Basin**

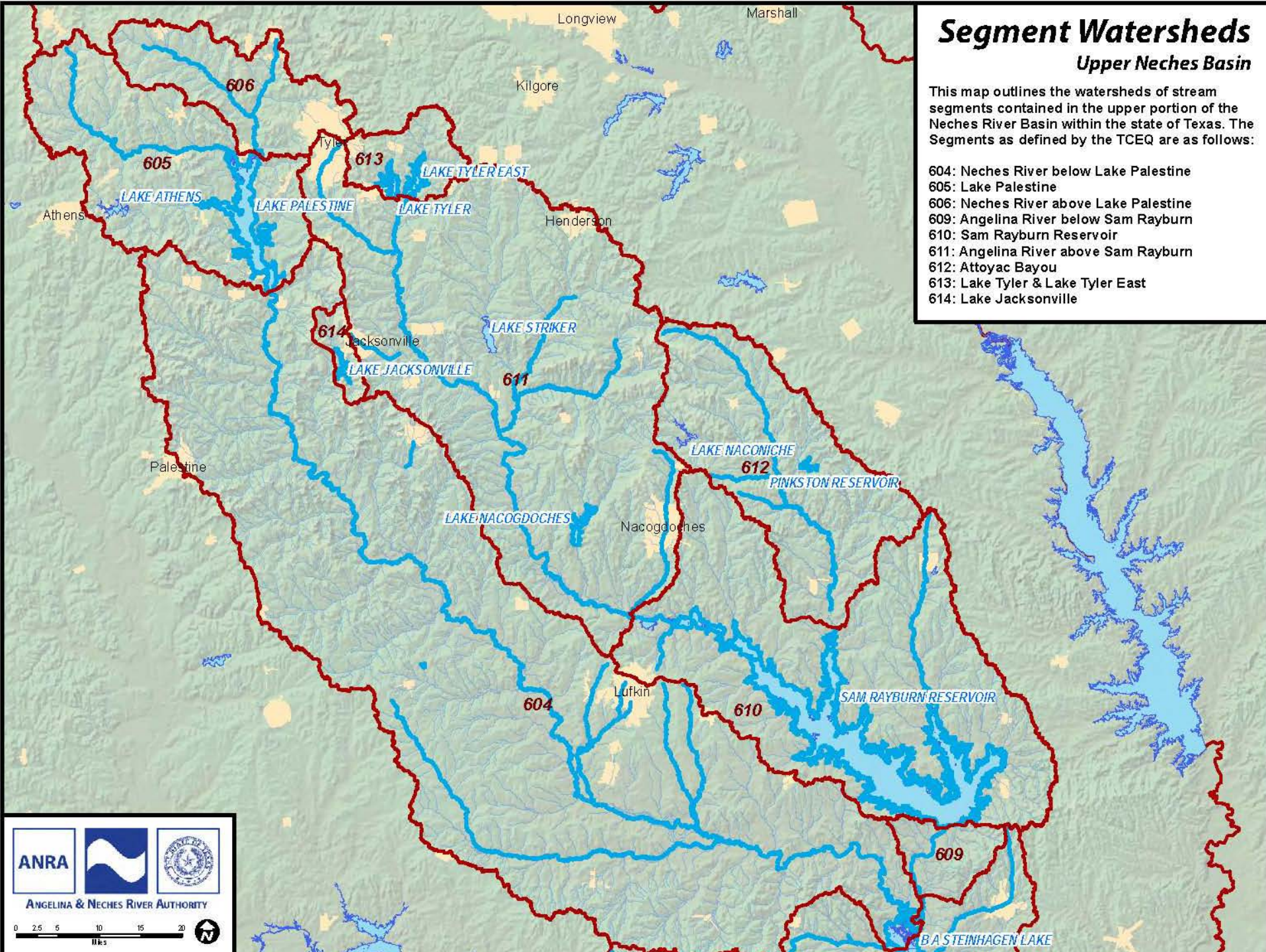


# Segment Watersheds

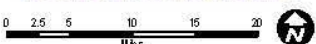
## Upper Neches Basin

This map outlines the watersheds of stream segments contained in the upper portion of the Neches River Basin within the state of Texas. The Segments as defined by the TCEQ are as follows:

- 604: Neches River below Lake Palestine
- 605: Lake Palestine
- 606: Neches River above Lake Palestine
- 609: Angelina River below Sam Rayburn
- 610: Sam Rayburn Reservoir
- 611: Angelina River above Sam Rayburn
- 612: Attoyac Bayou
- 613: Lake Tyler & Lake Tyler East
- 614: Lake Jacksonville



ANGELINA & NECHES RIVER AUTHORITY







## Water Quality Monitoring in the Neches Basin

- Currently, ANRA monitors 40 sites quarterly for field parameters, conventional parameters, and bacteria.
- Additional monitoring in the Upper Neches Basin is performed by TCEQ (Region 5 in Tyler and Region 10 in Beaumont), as well as the Lower Neches Valley Authority (LNVA).

Number of Monitoring Stations in the Neches Basin				
Sampling Entity	Field	Conventional	Bacteria	Flow
ANRA	40	40	40	32
TCEQ – Region 5	23	23	23	9
TCEQ – Region 10	20	20	20	5
LNVA	25	25	25	20

- The Coordinated Monitoring Schedule (CMS) is available online at [cms.lcra.org](https://cms.lcra.org).



## Additional Resources

- Texas Commission on Environmental Quality Clean Rivers Program
  - <http://www.texascleanrivers.org>
- Surface Water Quality Monitoring Procedures Manual
  - [http://www.tceq.texas.gov/assets/public/comm\\_exec/pubs/rg/rg415/rg-415.pdf](http://www.tceq.texas.gov/assets/public/comm_exec/pubs/rg/rg415/rg-415.pdf)
- Upper Neches Basins Quality Assurance Project Plan (QAPP)
  - [http://www.anra.org/divisions/water\\_quality/crp/pdfs/QAPP/ANRA\\_CRP\\_QAPP\\_FY\\_16-17.pdf](http://www.anra.org/divisions/water_quality/crp/pdfs/QAPP/ANRA_CRP_QAPP_FY_16-17.pdf)
- ANRA CRP Monitoring Activities
  - [http://www.anra.org/divisions/water\\_quality/crp/monitoring.html](http://www.anra.org/divisions/water_quality/crp/monitoring.html)
- Coordinated Monitoring Schedule
  - <http://cms.lcra.org>





## Comments or Questions?

- Please direct inquiries regarding ANRA's Clean Rivers Program to:

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