

Red River Authority of Texas Program Updates



CLEAN RIVERS PROGRAM 2012 ANNUAL BAC MEETING



MARCH 20, 2012 - AMARILLO, TEXAS

**ALLEN M. PAPPAS
RED RIVER AUTHORITY OF TEXAS
CLEAN RIVERS PROGRAM PROJECT MANAGER**

Topics



1. Monitoring

- a. Quantity
- b. Quality
- c. Drought

2. Analysis

- a. Equipment purchases
- b. Chlorophyll-*a* / pheophytin

3. Outreach

- a. Midwestern State University
- b. Local Cub Scout Packs

Monitoring



Quantity

- New for FY-2012 approximately 20 additional monitoring locations were added by the Authority between the Canadian and Red River Basins
- Stations were created to help gather additional information for waterbodies with long-term impairments

Monitoring



Quality

- **Field**
 - Increased QA/QC for sondes
 - Documentation of all lot numbers/serial numbers
 - Development of a standardized SOP
- **Laboratory**
 - Certified disposable sample containers
 - Implementation of a LIM system

Monitoring



Drought

- Interim Drought Guidance
 - Collect meta-data to more accurately document conditions
 - Help categorize “drought-data”
 - Prevent data from being used during future assessments
- Current Goals
 - Develop a parameter code to document drought index
 - Continue to enhance the meta-data collected during monitoring events
 - Continue to work on how to identify/tag “drought-data”

Analyses



Equipment Purchases

- Fluorometer
 - Chlorophyll-*a* / Pheophytin
- Segmented Flow Analyzer
 - TKN
 - Nitrate + Nitrite
 - Ammonia
- Boat
 - Lake profiling

Analyses



Chlorophyll-*a* / Pheophytin

- Methods
 - EPA 445.0 – fluorometric method
 - ✦ Increased sensitivity
 - ✦ Turner Designs instrument
 - Obstacles
 - ✦ High turbidity and particulate matter
- Side-by-Side with LCRA
 - Results?
 - Begin in-house testing in FY-2013

Public Outreach



Midwestern State University

○ Environmental Science internship program

- ✦ To date we have had four interns, all of which have pursued careers in the environmental field
- ✦ We are currently looking to potentially host another intern over the summer

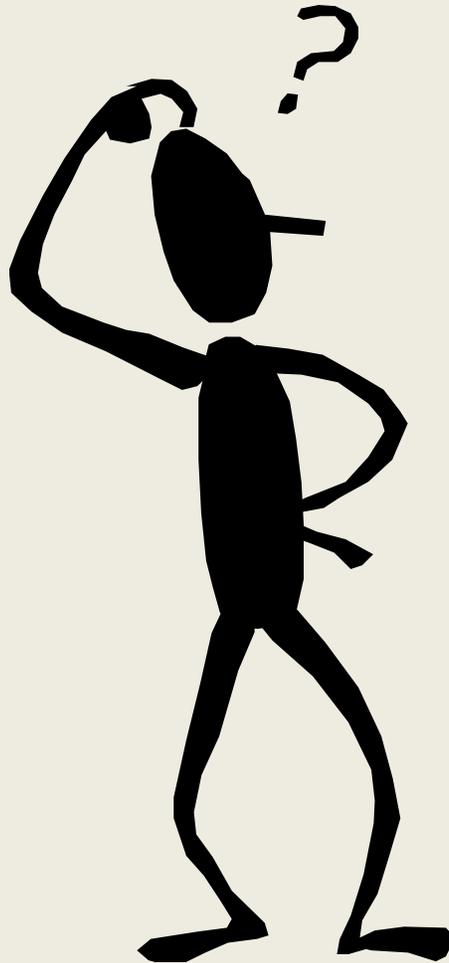
○ Tours

- ✦ MWSU Environmental Science majors
- ✦ Cub Scout Packs

Local Cub Scout Packs

- Introduce them to water quality and how they can help

Questions



RED RIVER AUTHORITY OF TEXAS



Clean Rivers
Program
Partner since
1991



NELAP
accredited
laboratory
since 2006

Contact Information

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