

Amendment #1 Update to the Angelina & Neches River Authority Clean Rivers Program FY 2024/2025 QAPP

***Prepared by the Angelina & Neches River
Authority in Cooperation with the Texas
Commission on Environmental Quality
(TCEQ)***

Effective: Immediately upon approval by all parties

Questions concerning this QAPP Amendment should be directed to:

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Clean Rivers Program Coordinator
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ahenry@anra.org

Justification

This document details the changes made to the basin wide QAPP to reflect staffing changes at ANRA, update language regarding limits of quantitation (LOQs) in sections A7 and B5, and update Appendix B for fiscal year 2025.

Summary of Changes

Section	Sub-section/ Figure/Table	Page(s) in Basin- wide QAPP	Change	Justification	Affected Entity	Page(s) in this Amendment
A1	ANRA/ANRA Laboratory	3	Added “CRP” in front of Jeremiah and Hannah’s titles in the ANRA section. Added “Laboratory” in front of Hannah’s title in the Lab Section	To give more distinction between Hannah Crawford’s CRP and Laboratory QAO roles without bringing in ANRA job titles into the mix.	ANRA	7
A1	ANRA Laboratory	3	Removed Haley Standifird from signature page, added in Hannah Crawford as Acting Laboratory Coordinator.	Haley Standifird no longer works at ANRA, and for the time being Hannah will assume the laboratory coordinator responsibilities until a new lab coordinator is hired.	ANRA	7
A3	ANRA/ANRA Laboratory	7	Consolidated the distribution list to Angelina & Neches River Authority and Environmental Laboratory	Hannah is the only role in the lab so another section just for the lab is extraneous	ANRA	8
A3	ANRA Laboratory	7	Deleted ANRA Laboratory subsection	To put all employees under one list.	ANRA	8
A3	ANRA Laboratory/ANRA	7	Added Hannah Crawford to the list with an updated title of ANRA CRP and Lab QAO / Acting Laboratory Coordinator	To show Hannah’s current titles.	ANRA	8
A4	Description of Responsibilities - ANRA	9	Replaced Haley with Hannah, added “Acting” to the Lab Coordinator title.	Haley Standifird no longer works at ANRA, Hannah is acting Lab Coordinator in	ANRA	9

			Added CRP & Lab to Hannah's QAO title	addition to her other duties, which are also clarified by her QAO title change.		
A4	A4.1 Organizational Chart	11	Replaced Haley with Hannah, added "Acting" to the job title	Haley Standifird no longer works at ANRA, Hannah is acting Lab Coordinator in addition to her other duties.	ANRA	10
A7	Ambient Water Reporting Limits (AWRLs)	13-14	Modified language concerning allowable LOQs.	To adjust language used in current CRP QAPPs that does not align with TCEQ CRP's stance on allowable LOQs.	ANRA	11
B5	Quality Control or Acceptability Requirements, Deficiencies, and Corrective Actions	24	Modified language concerning allowable LOQs.	To adjust language used in current CRP QAPPs that does not align with TCEQ CRP's stance on allowable LOQs.	ANRA	12
Appendix B	Sample Design Rationale	42	Updated fiscal year throughout from 2024 to 2025.	Changes to Appendix B in this amendment are to reflect FY 2025 monitoring, not FY 2024 monitoring.	ANRA	13
Appendix B	Table B1.1	44-46	Updated table B1.1 to reflect changes requested by TCEQ	Sampling design has not changed from FY 2024 to FY 2025, but the table was reorganized as requested.	ANRA	14-18
Appendix B	Table B1.1	44-46	Removed sites 22447, 20841, 16084, 16083, 20843, 20844	These sites were not associated with CRP and were irrelevant to this QAPP	ANRA	16-18
Appendix B	Table B1.1	44-46	Changed sampling frequency from 12 to 4 of site 20792	To match how often the site is sampled for CRP only	ANRA	17

Distribution

This QAPP amendment will be distributed by the Angelina & Neches River Authority via email to all personnel on the distribution list (section A3 of the QAPP).

These changes will be incorporated into the QAPP document and TCEQ and the Angelina & Neches River Authority will acknowledge and accept these changes by approving the final amendment draft electronically via email.

Texas Commission on Environmental Quality


Water Quality Planning Division



Sarah Whitley, Team Leader
Water Quality Standards
and Clean Rivers Program

8/16/2024

Date



Lawrence Grant Bassett
Project Quality Assurance Specialist
Clean Rivers Program

8/16/2024


Date



Katrina Smith, Project Manager
Clean Rivers Program

8/12/2024

Date



Cathy Anderson, Team Leader
Data Management and Analysis

08/16/2024

Date

Monitoring Division

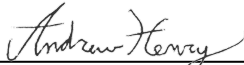


Jason Natho
Acting Lead CRP Quality Assurance Specialist

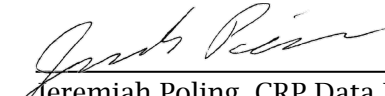
08/16/2024

Date


Angelina & Neches River Authority



Andrew Henry, CRP Coordinator 7/23/24
Angelina & Neches River Authority Date




Jeremiah Poling, CRP Data Manager 2024-07-23
Angelina & Neches River Authority Date




Hannah Crawford, CRP Quality Assurance Officer 7/23/2024
Angelina & Neches River Authority Date

Angelina & Neches River Authority Environmental Laboratory



Hannah Crawford, Quality Assurance Officer 7/23/2024
ANRA Environmental Laboratory Date



Hannah Crawford, Acting Laboratory Coordinator 7/23/2024
ANRA Environmental Laboratory Date

Pace Analytical (NOLA)

Tracy Easley 08/05/2024

Tracy Easley, General Manager Date
Pace Analytical (NOLA)

Gabrielle J. Davis 08/09/2024

Gabrielle Jones, Quality Manager Date
Pace Analytical (NOLA)

Karen H. Brown 08/08/2024

Karen Brown, Project Manager Date
Pace Analytical (NOLA)

Replaces page 3 of the FY 2024-2025 CRP QAPP

Detail of Changes

A1 Approval Page

Angelina & Neches River Authority

Andrew Henry, CRP Coordinator Date
Angelina & Neches River Authority

Jeremiah Poling, CRP Data Manager Date
Angelina & Neches River Authority

Hannah Crawford, CRP Quality Assurance Officer Date
Angelina & Neches River Authority

Angelina & Neches River Authority Environmental Laboratory

Hannah Crawford, Laboratory Quality Assurance Officer Date
ANRA Environmental Laboratory

Hannah Crawford Haley Standiford, Acting Laboratory Coordinator Date
ANRA Environmental Laboratory

Modifies specific text from page 7 of the FY 2024-2025 CRP QAPP

A3 Distribution List

Angelina & Neches River Authority and Environmental Laboratory

2901 N John Redditt Dr
Lufkin, Texas 75904

Andrew Henry, CRP Coordinator (936) 633-7527
ahenry@anra.org

Hannah Crawford, CRP & Lab Quality Assurance Officer/ Acting Lab Coordinator (936) 633-7542
hcrawford@anra.org

Haley Standifird, Laboratory Coordinator
(936) 633-7552
herawford@anra.org

A4 PROJECT/TASK ORGANIZATION

Description of Responsibilities

ANGELINA & NECHES RIVER AUTHORITY

Andrew Henry, CRP Coordinator

Responsible for writing and maintaining the QAPP and monitoring its implementation. Responsible for maintaining records of QAPP distribution, including appendices and amendments. Responsible for maintaining written records of sub-tier commitment to requirements specified in this QAPP. Responsible for implementing and monitoring CRP requirements in contracts, QAPPs, and QAPP amendments and appendices. Ensures that field staff are properly trained and that training records are maintained. Coordinates basin planning activities and work of basin partners. Ensures monitoring systems audits are conducted to ensure QAPPs are followed by ANRA participants and that projects are producing data of known quality. Ensures that subparticipants are qualified to perform contracted work. Ensures CRP project managers and/or QA Specialists are notified of deficiencies and corrective actions, and that issues are resolved. Responsible for validating that data collected are acceptable for reporting to the TCEQ.

Hannah Crawford, Laboratory and CRP Quality Assurance Officer

Responsible for coordinating the implementation of the QA program. Responsible for identifying, receiving, and maintaining project QA records. Responsible for coordinating with the TCEQ PM to resolve QA-related issues. Notifies ANRA Clean Rivers Program Coordinator of particular circumstances that may adversely affect the quality of data. Coordinates and monitors deficiencies and corrective action. Coordinates and maintains records of data verification and validation. Coordinates the research and review of technical QA material and data related to water quality monitoring system design and analytical techniques.

Responsible for the overall quality control and quality assurance of analyses performed by ANRA Environmental Laboratory. Monitors the implementation of the QM/QAPP within the laboratory to ensure complete compliance with QA data quality objectives, as defined by the contract and in this QAPP. Conducts in-house audits to ensure compliance with written SOPs and to identify potential problems. Responsible for supervising and verifying all aspects of the QA/QC in the laboratory.

Hannah Crawford Haley Standifird, Acting Laboratory Coordinator

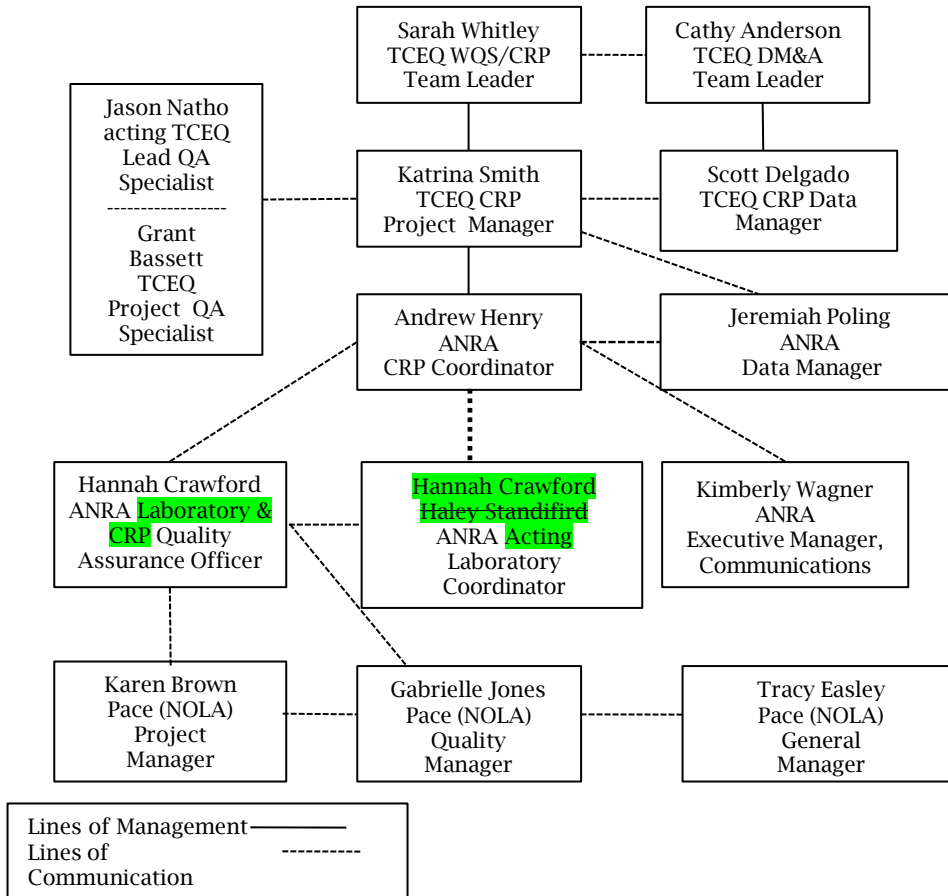
Responsible for overall performance, administration, and reporting of analyses performed by ANRA's Environmental Laboratory. Responsible for supervision of laboratory personnel involved in generating analytical data for the project. Ensures that laboratory personnel have adequate training and a thorough knowledge of this QAPP and related SOPs. Responsible for oversight of all laboratory operations ensuring that all QA/QC requirements are met, documentation is complete and adequately maintained, and results are reported accurately.

Jeremiah Poling, Data Manager

Responsible for ensuring that field data are properly reviewed and verified. Responsible for the transfer of basin quality-assured water quality data to the TCEQ in a format compatible with SWQMIS. Maintains quality-assured data on ANRA internet sites.

Project Organization Chart

Figure A4.1. Organization Chart - Lines of Communication



A7 Quality Objectives and Criteria

Ambient Water Reporting Limits (AWRLs)

For surface water to be evaluated for compliance with Texas Surface Water Quality Standards (“TSWQS”) and screening levels, data must be reported at or below specified reporting limits. To ensure data are collected at or below these reporting limits, required ambient water reporting limits (“AWRL”) have been established. A full listing of AWRLs can be found at

<https://www.tceq.texas.gov/assets/public/waterquality/crp/QA/awrlmaster.pdf>.

The limit of quantitation (LOQ) is the minimum reporting limit, concentration, or quantity of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence by the laboratory analyzing the sample. Analytical results shall be reported down to the laboratory’s LOQ (i.e., the laboratory’s LOQ for a given parameter is its reporting limit) as specified in Appendix A.

The following requirements must be met in order to report results to the CRP:

- The laboratory’s LOQ for each analyte must be set at or below the AWRL.
- Once the LOQ is established in the QAPP, that is the reporting limit for that parameter until such time as the laboratory amends the QAPP and lists an updated LOQ.
- The laboratory must demonstrate its ability to quantitate at its LOQ for each analyte by running an LOQ check sample for each analytical batch of CRP samples analyzed.
- ~~When reporting data, no results~~ Under reasonable circumstances (e.g., the use of a subcontracted lab), data may be reported above or below the LOQ stated in this QAPP, so long as the LOQ remains at or below the AWRL stated in this QAPP.
- Measurement performance specifications for LOQ check samples are found in Appendix A.

Laboratory Measurement Quality Control Requirements and Acceptability Criteria are provided in Section B5.

Modifies specific text from page 24 of the FY 2024-2025 CRP QAPP

B5 Quality Control

Quality Control or Acceptability Requirements, Deficiencies, and Corrective Actions

Sampling QC excursions are evaluated by the ANRA CRP Coordinator, in consultation with the ANRA QAO. In that differences in sample results are used to assess the entire sampling process, including environmental variability, the arbitrary rejection of results based on pre-determined limits is not practical. Therefore, the professional judgment of the ANRA CRP Coordinator and QAO will be relied upon in evaluating results.

Field blanks for trace elements and trace organics are scrutinized very closely. Field blanks are associated with batches of field samples. In the event of a field blank failure, any target analytes in the ambient sample associated with the field blank should be qualified as not meeting project QC requirements. Notations of blank contamination are noted in the data summaries that accompany data deliverables. Equipment blanks for metals analysis are also scrutinized very closely.

Laboratory measurement quality control failures are evaluated by the laboratory staff. The disposition of such failures and the nature and disposition of the failure is reported to the Laboratory QAO. The Laboratory QAO will discuss the failure with the ANRA CRP Coordinator. If applicable, the ANRA CRP Coordinator will include this information in a CAP and submit with the Progress Report which is sent to the TCEQ CRP Project Manager.

The definition of and process for handling deficiencies and corrective action are defined in Section C1.

Additionally, in accordance with CRP requirements and the TNI Standard (Volume 1, Module 2, Section 4.5, Subcontracting of Environmental Tests) when a laboratory that is a signatory of this QAPP finds it necessary and/or advantageous to subcontract analyses, the laboratory that is the signatory on this QAPP must ensure that the subcontracting laboratory is NELAP-accredited (when required) and understands and follows the QA/QC requirements included in this QAPP. This includes **confirming** that the sub-contracting laboratory **has LOQs at or below TCEQ AWRLs utilize the same reporting limits as the signatory laboratory** and performs all required quality control analysis outlined in this QAPP. The signatory laboratory is also responsible for quality assurance of the data prior to delivering it to the Angelina & Neches River Authority, including review of all applicable QC samples related to CRP data. As stated in section 4.5.5 of the TNI Standard, the laboratory performing the subcontracted work shall be indicated in the final report and the signatory laboratory shall make a copy of the subcontractor's report available to the client (Angelina & Neches River Authority) when requested.

Modifies specific text from page 42 of the FY 2024-2025 CRP QAPP

Appendix B: Task 3 Work Plan & Sampling Process Design and Monitoring Schedule (Plan)

Sample Design Rationale FY 2025

The sample design is based on the legislative intent of CRP. Under the legislation, the Basin Planning Agencies have been tasked with providing data to characterize water quality conditions in support of the Texas Water Quality Integrated Report, and to identify significant long-term water quality trends. Based on Steering Committee input, achievable water quality objectives and priorities and the identification of water quality issues are used to develop work plans which are in accord with available resources. As part of the Steering Committee process, the Angelina & Neches River Authority coordinates closely with the TCEQ and other participants to ensure a comprehensive water monitoring strategy within the watershed. ANRA monitors its chosen sites to either: collect additional information for the characterization of waterbodies, ensure unimpaired waters are not declining in quality, observe changes in impaired waterbodies, or to pinpoint sources of point or nonpoint pollution.

No changes have been made to the monitoring schedule from FY 2024 to FY 2025.

Replaces pages 44-46 of the FY 2024-2025 CRP QAPP

Monitoring Sites for FY 2025

Table B1.1 Sample Design and Schedule, FY 2025

Site Description	Station ID	Waterbody ID	Region	SE	CE	MT	24 hr DO	AqHab	Benthics	Nekton	Metal Water	Organic Water	Metal Sed	Organic Sed	Conv	Amb Tox Water	Amb Tox Sed	Bacteria	Flow	Fish Tissue	Field	Comments
NECHES RIVER AT US 69 1.01 KM NORTH OF FM 1014/US 69 INTERSECTION 1.8 KM NORTHWEST OF ROCKLAND IN TYLER COUNTY	10585	0604	10	AN	AN	RT									4			4	4		4	
CEDAR CREEK AT ELLIS AVE IN LUFKIN	21434	0604A	10	AN	AN	RT									4			4	4		4	
CEDAR CREEK AT FM 1336 1.29 KM WEST- SOUTHWEST OF FM 324/FM 1336 INTERSECTION IN SOUTHWEST LUFKIN	13528	0604A	10	AN	AN	RT									4			4	4		4	
CEDAR CREEK AT FM 2497 5.55 KM NORTHWEST OF FM 2497/US 59 INTERSECTION 7.45 KM NORTH NORTHWEST OF CITY OF DIBOLL	10478	0604A	10	AN	AN	RT									4			4	4		4	
CEDAR CREEK AT ST LOOP 287 IN LUFKIN	10479	0604A	10	AN	AN	BS	5															
CEDAR CREEK AT ST LOOP 287 IN LUFKIN	10479	0604A	10	AN	AN	RT									4			4	4		4	
HURRICANE CREEK 38 METERS DOWNSTREAM OF KIWANIS PARK DRIVE AND DIRECTLY DOWNSTREAM OF CONFLUENCE WITH UNNAMED TRIBUTARY IN LUFKIN	21433	0604B	10	AN	AN	RT									4			4	4		4	
HURRICANE CREEK AT FM 324 6.74 KM SOUTH SOUTHWEST OF LUFKIN	13529	0604B	10	AN	AN	RT									4			4	4		4	
HURRICANE CREEK AT ST LOOP 287 IN SOUTH LUFKIN	10487	0604B	10	AN	AN	RT									4			4	4		4	

Replaces pages 44-46 of the FY 2024-2025 CRP QAPP

Site Description	Station ID	Waterbody ID	Region	SE	CE	MT	24 hr DO	AqHab	Benthics	Nekton	Metal Water	Organic Water	Metal Sed	Organic Sed	Conv	Amb Tox Water	Amb Tox Sed	Bacteria	Flow	Fish Tissue	Field	Comments
JACK CREEK AT FM 2497 5 KM SOUTHEAST OF SH 94/FM 2497 INTERSECTION 13.3 KM SOUTHWEST OF LUFKIN	10492	0604C	10	AN	AN	RT									4			4	4		4	
JACK CREEK AT FM 3150 7 KM WEST OF LUFKIN	10494	0604C	10	AN	AN	RT									4			4	4		4	
PINEY CREEK AT FM 358 2.4 KM EAST OF FM 3154/FM 358 INTERSECTION 10 KM EAST OF CITY OF PENNINGTON	16096	0604D	10	AN	AN	RT									4			4	4		4	
BILOXI CREEK AT ANGELINA CR216 8 KM SOUTHEAST OF LUFKIN 2.4 KM DOWNSTREAM OF US69	10499	0604M	10	AN	AN	RT									4			4	4		4	
BILOXI CREEK AT FM 1818 2.5 KM EAST OF FM 1818/ FM 58 INTERSECTION 13.8 KM EAST OF DIBOLL	16097	0604M	10	AN	AN	RT									4			4	4		4	
BUCK CREEK AT FM 1818 4.72 KM WEST OF FM 844/ FM 1818 17.94 KM EAST OF DIBOLL	16098	0604N	10	AN	AN	RT									4			4	4		4	
LAKE RATCLIFF WHERE NORTHWEST ARM OF LAKE JOINS MAIN BODY 350 M NORTHWEST OF THE SOUTHWEST CORNER OF DAM1.48 KM WEST OF RATCLIFF	17339	0604T	10	AN	AN	RT									4			4			4	
SAM RAYBURN RESERVOIR NEAR SHIRLEY CREEK IN THE ANGELINA RIVER CHANNEL 5.13 KM NE OF FM 2109/ FM 2801 INTERSECTION	15524	0610	10	AN	AN	RT									4			4			4	

Replaces pages 44-46 of the FY 2024-2025 CRP QAPP

Site Description	Station ID	Waterbody ID	Region	SE	CE	MT	24 hr DO	AqHab	Benthics	Nekton	Metal Water	Organic Water	Metal Sed	Organic Sed	Conv	Amb Tox Water	Amb Tox Sed	Bacteria	Flow	Fish Tissue	Field	Comments
SAM RAYBURN RESERVOIR ADJACENT TO ALLIGATOR COVE IN THE ATTOYAC RIVER CHANNEL 3.94 KM NORTHWEST OF FM 3185/ SH 147 INTERSECTION	15523	0610	10	AN	AN	RT									4			4			4	
AYISH BAYOU AT SH 103 0.8 KM EAST OF FM 705	15361	0610A	10	AN	AN	RT									4			4	4		4	
AYISH BAYOU AT WEST COLUMBIA STREET IN CITY OF SAN AUGUSTINE	21431	0610A	10	AN	AN	RT									4			4	4		4	
BAYOU CARRIZO AT SH 21 NEAR NACOGDOCHES	21432	0610P	10	AN	AN	RT									4			4	4		4	
ANGELINA RIVER 340 METERS UPSTREAM OF SH 204 9.93 KM WEST OF CUSHING	10633	0611	5	AN	AN	RT									4			4	4		4	
ANGELINA RIVER AT SH 21 11.17 KM EAST NORTHEAST OF ALTO	10630	0611	10	AN	AN	RT									4			4	4		4	
ANGELINA RIVER UPSTREAM SAM RAYBURN RESERVOIR AT FM 1798 5.5 KM WEST OF LANEVILLE	10635	0611	5	AN	AN	RT									4			4	4		4	
LA NANA BAYOU AT LOOP 224 NORTH IN THE CITY OF NACOGDOCHES 1.2 KM EAST OF THE INTERSECTION OF US BUS 59F/ST LOOP 224 NORTH	16301	0611B	10	AN	AN	RT									4			4	4		4	
LA NANA BAYOU AT NACOGDOCHES CR 526 6.9 MI SOUTH OF NACOGDOCHES BETWEEN FM 2863 AND FM 3228	10474	0611B	10	AN	AN	RT									4			4	4		4	

Replaces pages 44-46 of the FY 2024-2025 CRP QAPP

Site Description	Station ID	Waterbody ID	Region	SE	CE	MT	24 hr DO	AqHab	Benthics	Nekton	Metal Water	Organic Water	Metal Sed	Organic Sed	Conv	Amb Tox Water	Amb Tox Sed	Bacteria	Flow	Fish Tissue	Field	Comments
LA NANA BAYOU IMMEDIATELY UPSTREAM OF EAST MAIN STREET/STATE HIGHWAY 7/ STATE HIGHWAY 21 IN NACOGDOCHES	20792	0611B	10	AN	AN	RT									4			4	4		4	Quarterly for CRP and monthly for 12 months on non CRP months as part of TSSWCB Project 23-55 beginning 2024-03
MUD CREEK AT US 79 9.8 KM EAST OF JACKSONVILLE AND 5.9 KM WEST OF NEW SUMMERFIELD	14477	0611C	5	AN	AN	RT									4			4	4		4	
MUD CREEK AT US 84 0.87 KM SOUTHWEST OF REKLAW	10532	0611C	5	AN	AN	RT									4			4	4		4	
LAKE NACOGDOCHES IN MAIN POOL NEAR DAM 375 M EAST OF WESTERN EDGE OF DAM 126 M NORTH OF DAM 10 MI WEST OF NACOGDOCHES	15801	0611Q	10	AN	AN	RT									4			4			4	
LAKE NACOGDOCHES NEAR ISLAND IN UPPER LAKE EQUIDISTANT BETWEEN ISLAND AND BOAT RAMP AT THE END OF HARBOR DRIVE AND 3.37 KM SOUTH OF SH 21	21021	0611Q	10	AN	AN	RT									4			4			4	
LAKE STRIKER NEAR DAM APPROX 0.8 MILES SOUTHEAST OF POWERPLANT 138 M NORTHWEST OF SPILLWAY AND 7.5 MILES SOUTHEAST OF NEW SUMMERFIELD	17824	0611R	5	AN	AN	RT									4			4			4	
LAKE STRIKER UPPER LAKE EQUIDISTANT BETWEEN SHORELINES 2.28KM SOUTHEAST OF INTERSECTION OF FM2274/FM32889.4 KM E. OF NEW SUMMERFIELD	17822	0611R	5	AN	AN	RT									4			4			4	

Replaces pages 44-46 of the FY 2024-2025 CRP QAPP

Site Description	Station ID	Waterbody ID	Region	SE	CE	MT	24 hr DO	AqHab	Benthics	Nekton	Metal Water	Organic Water	Metal Sed	Organic Sed	Conv	Amb Tox Water	Amb Tox Sed	Bacteria	Flow	Fish Tissue	Field	Comments
ATTOYAC BAYOU AT SH 21 0.71 KM WEST OF INTERSECTION OF SH 21/ FM 1196 4.77 KM EAST OF CHIRENO	10636	0612	10	AN	AN	RT									4			4	4		4	
ATTOYAC BAYOU AT SH 7 1.75 KM NORTHEAST OF MARTINSVILLE	15253	0612	10	AN	AN	RT									4			4	4		4	
ATTOYAC BAYOU AT US 59 4.12 KM NORTHEAST OF GARRISON	16076	0612	10	AN	AN	RT									4			4	4		4	
WEST CREEK AT FM 2913 2.57 KM N OF INTERSECTION WITH SH 7	20845	0612F	10	AN	AN	RT									4			4	4		4	
NACONICHE LAKE NEAR THE DAM 226 METERS NORTH AND 715 METERS WEST OF INTERSECTION OF FM 2435 AND US 59 NORTHEAST OF CITY OF NACOGDOCHES	21435	0612G	10	AN	AN	RT									4			4			4	
ANGELINA RIVER/SAM RAYBURN RESERVOIR 0.2 KM DOWNSTREAM FROM PAPER MILL CREEK CONFLUENCE NW CORNER OF SAM RAYBURN RESERVOIR	10622	0615	10	AN	AN	BS	5															