

Amendment #1

Update to the Northeast Texas Municipal Water District Clean Rivers Program FY 2024/2025 QAPP

***Prepared by the Northeast Texas Municipal
Water District in Cooperation with the
Texas Commission on Environmental
Quality (TCEQ)***

Effective: Immediately upon approval by all parties

Questions concerning this QAPP should be directed to:

Randy Rushin
Project Manager
Water Monitoring Solutions, Inc.
P.O. Box 1132
Sulphur Springs, Texas 75483
(903) 439-4741
randy@water-monitor.com

Justification

This document details the changes made to the basin-wide Quality Assurance Project Plan to update language regarding limits of quantitation (LOQs) in Sections A7 and B5, and updates to Appendix B for the fiscal year 2025 monitoring schedule. This document also updates WMS personnel changes in Section A.

Summary of Changes

Section	Sub-section/ Figure/Table	Page(s) in Basin- wide QAPP	Change	Justification	Affected Entity	Page(s) in this Amendment
A1	Section A1	4	Replaced Shelby Bessette with Ryan Seymour as WMS Data Manager	Personnel changes at WMS	WMS	5
A3	Section A3	9	Replaced Shelby Bessette with Ryan Seymour as WMS Data Manager	Personnel changes at WMS	WMS	6
A4	Section A4	12	Replaced Shelby Bessette with Ryan Seymour as WMS Data Manager	Personnel changes at WMS	WMS	7
A4	Figure A4.1	13	Replaced Shelby Bessette with Ryan Seymour as WMS Data Manager	Personnel changes at WMS	WMS	8
A7	Ambient Water Reporting Limits (AWRLs)	17-18	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.	LCRA ELS	9
B5	Quality Control or Acceptability Requirements, Deficiencies, and Corrective Actions	29-30	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.	LCRA ELS	10
Appendix B	Sample Design Rationale	53-55	Updated fiscal year throughout from 2024 to 2025.	Changes to Appendix B in this amendment are to reflect FY 2025	NETMWD/ WMS	11

Section	Sub-section/ Figure/Table	Page(s) in Basin- wide QAPP	Change	Justification	Affected Entity	Page(s) in this Amendment
			Added detail of changes to monitoring program for FY 2025	monitoring, not FY 2024 monitoring.	NETMWD/ WMS	11
Appendix B	Table B1.1	56-57	Updated Table B1.1 to reflect modifications to sampling design for FY 2025 design for the new fiscal year (2025).	NETMWD sampling design changed from FY 2024 to FY 2025 based on the recommendations by the Coordinated Monitoring Committee	NETMWD/ WMS	12
Appendix C	Appendix C	58-59	Updated maps of monitoring stations to reflect modifications to sampling design for FY 2025.	NETMWD monitoring stations were added and dropped based on the recommendations by the Coordinated Monitoring Committee.	NETMWD/ WMS	13-14

Distribution

This QAPP amendment will be distributed by the Northeast Texas Municipal Water District 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 Northeast Texas Municipal Water District will acknowledge and accept these changes by approving the final amendment draft electronically via email.

Texas Commission on Environmental Quality

Water Quality Planning Division

Electronically Approved 7/17/2024

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

Electronically Approved 7/16/2024

Lawrence Grant Bassett Date
Project Quality Assurance Specialist
Clean Rivers Program

Electronically Approved 7/17/2024

Jenna Wadman, Project Manager Date
Clean Rivers Program

Electronically Approved 7/16/2024

Cathy Anderson, Team Leader Date
Data Management and Analysis

Monitoring Division

Electronically Approved 7/17/2024

Jason Natho Date
Acting Lead CRP Quality Assurance Specialist

Replaces pages 3-5 of the FY 2024-2025 CRP QAPP

Northeast Texas Municipal Water District (NETMWD)

Electronically Approved	7/16/2024	Electronically Approved	7/16/2024
Wayne Owen	Date	Robert Speight	Date
NETMWD General Manager		NETMWD Project Manager	

Water Monitoring Solutions, Inc. (WMS)

Electronically Approved	7/16/2024	Electronically Approved	7/16/2024
Randy Rushin	Date	Ryan Seymour Shelby Bessette	Date
WMS Project Manager		WMS Data Manager	

Electronically Approved	7/16/2024	Electronically Approved	7/16/2024
Angela Kilpatrick	Date	Dr. Roy Darville	Date
WMS Quality Assurance Officer		WMS Data Collection Supervisor	

Lower Colorado River Authority Environmental Services Laboratory (LCRA ELS)

Electronically Approved	7/17/2024	Electronically Approved	7/16/2024
Dale Jurecka	Date	Jason Woods	Date
LCRA ELS Laboratory Manager		LCRA ELS Project Manager	

Electronically Approved	7/16/2024
Angel Mata	Date
LCRA ELS Quality Manager	

Modifies specific text from page 9 of the FY 2024-2025 CRP QAPP

Detail of Changes

Red font = change by TCEQ CRP Project QA Specialist

Green highlighting = change by NETMWD/WMS

Strikethrough font = deletion of text from QAPP document

A3 Distribution List

Water Monitoring Solutions, Inc.

PO Box 1132

Sulphur Springs, Texas 75483

(903) 439-4741

Ryan Seymour Shelby Bessette, WMS Data Manager

seymouraquabio@gmail.com srbessette92@gmail.com

Replaces page 12 of the FY 2024-2025 CRP QAPP

A4 Project Task/Organization

Description of Responsibilities

WMS

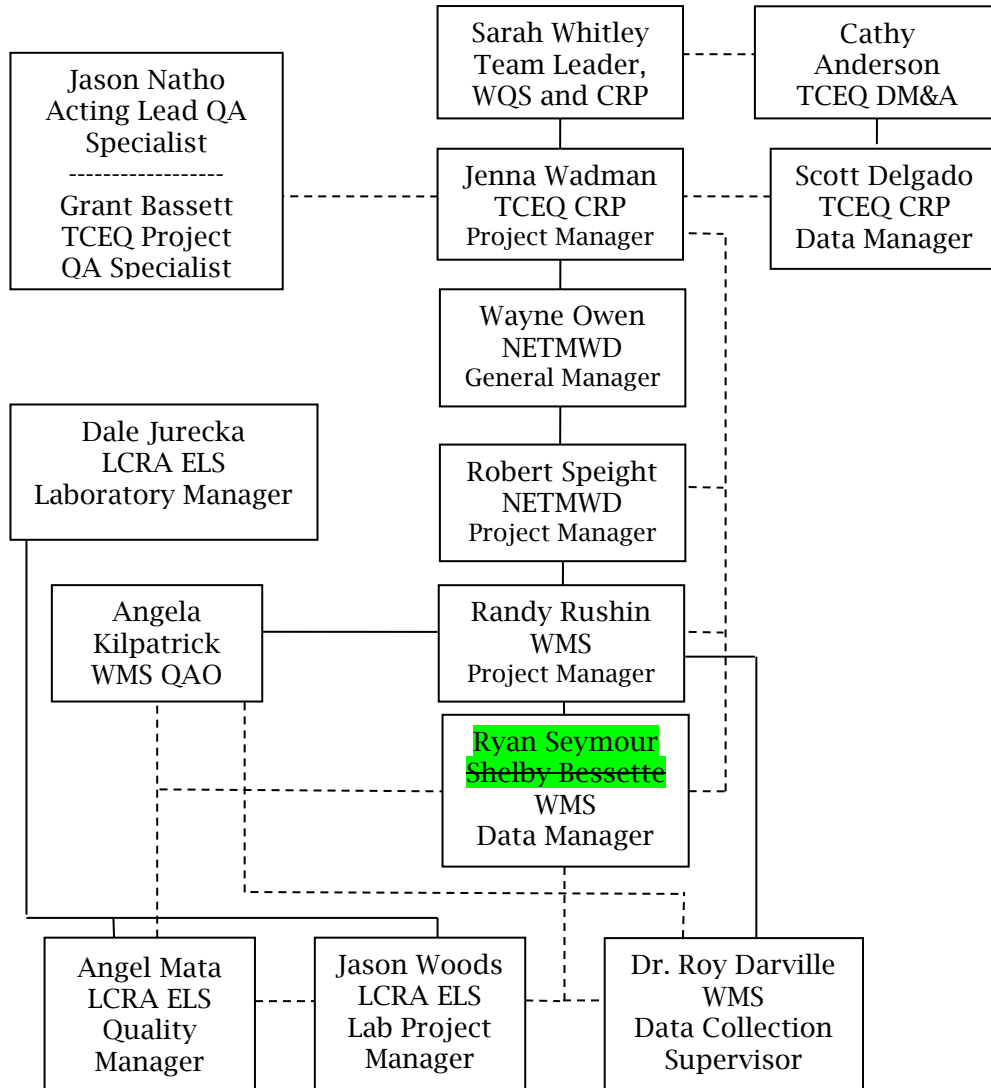
Ryan Seymour Shelby Bessette

WMS Data Manager

Responsible for the transfer of basin quality-assured water quality data in a format compatible with SWQMIS. Assists QAO with identifying, receiving, and reviewing project QA records. Notifies the WMS PM of particular circumstances which may adversely affect the quality of data. Assists QAO with deficiencies, non-conformances and corrective actions; coordinates and reviews records of data verification and validation. Review data from monitoring events and provide data quality comments to the WMS PM. Responsible for ensuring that field and lab data are properly reviewed and verified.

Project Organization Chart

Figure A4.1. Organization Chart - Lines of Communication



Lines of Management ———
 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.

B5 Quality Control

Quality Control or Acceptability Requirements, Deficiencies, and Corrective Actions

Sampling QC excursions are evaluated by the NETMWD and WMS Project Managers, in consultation with the WMS 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 NETMWD and WMS Project Managers and WMS QAO will be relied upon in evaluating results.

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 LCRA ELS Quality Manager. The LCRA ELS Quality Manager will discuss the failure with the NETMWD and WMS Project Managers. If applicable, the WMS Project Manager 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 NETMWD and WMS, 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 (NETMWD) when requested.

Modifies specific text from pages 53-55 of the FY 2024-2025 CRP QAPP

Appendix B 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 Northeast Texas Municipal Water District has 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 Northeast Texas Municipal Water District coordinates closely with the TCEQ and other participants to ensure a comprehensive water monitoring strategy within the watershed.

Biased to Season Monitoring

Diel monitoring will be conducted four times throughout the year. Diel monitoring includes quarterly sampling on Big Cypress Creek at Backwater Jacks (Station 22422), Black Cypress Creek at SH 11 (Station 10247), and Big Cypress Creek at CR SW 3170 (Station 22151). Station 22422 is a newly created station. Flow will be measured at all wadable stream stations or will be obtained from a nearby USGS gaging station. In FY 2025, diel monitoring will be conducted at stations 22422 and 10321.

Aquatic Life Monitoring will be conducted once during the Index period and once during the Critical period in FY 2024 and FY 2025. Monitoring will be conducted at Big Cypress Creek downstream of Walker's Creek confluence (Station 22423). This is a newly created station. Habitat assessment, benthic macroinvertebrates, and nekton will be assessed. Field parameters, flow, and diel data will be obtained during the monitoring events.

The following changes were made to the monitoring program as a result of the FY 2025 Coordinated Monitoring Meeting. All changes were discussed and agreed to by the committee at the meeting.

Segment 0404 Big Cypress Creek below Lake Bob Sandlin

Added station 10310 BIG CYPRESS CREEK AT US 271 since TCEQ Region 5 discontinued sampling at this station in FY 2024. Data from this station are valuable in evaluating changes in water quality between the confluences with Tankersley Creek and Hart Creek. Samples for bacteria, conventional, field parameters, and flow will be collected.

Segment 0405A Big Cypress Creek above Lake Cypress Springs

Added bacteria and conventional samples at station 22151 BIG CYPRESS CREEK AT CR SW 3170 as recommended in the Lake Cypress Springs 5n Impairment Study.

Discontinued diels at station 22151 BIG CYPRESS CREEK AT CR SW 3170 due to having adequate data to assess the DO impairment.

Segment 0407 James Bayou

Added station 10321 JAMES BAYOU AT CASS CR 1775 for diels to address the DO impairment.

Segment 0410 Black Cypress Bayou

Discontinued sampling at station 10247 BLACK CYPRESS BAYOU AT SH 11 due to having adequate data to assess the DO impairment and because all diels had met the 24 HOUR DO Average criterion.

Replaces pages 56-57 of the FY 2024-2025 CRP QAPP

Monitoring Sites for FY 2025

The sample design for SWQM is shown in Table B1.1 below.

Table B1.1 Sample Design and Schedule, FY 2025

Site Description	Station	Segment	Region	SE	CE	MT	Field	Conv	Bacteria	Flow	24 HR DO	AqHab	Benthics	Nekton	Comments
CADDO LAKE IN GOOSE PRAIRIE	10288	0401	5	NT	WM	RT	4	4	4						
CADDO LAKE MID LAKE	10283	0401	5	NT	WM	RT	4	4	4						
CADDO LAKE NEAR SHORE AT END OF FM 2198	15249	0401	5	NT	WM	RT	4	4	4						
HARRISON BAYOU AT FM 134	15508	0401A	5	NT	WM	RT	4	4	4	4					Flow measured when wadable
KITCHEN CREEK AT CR 3416	14998	0401B	5	NT	WM	RT	4			4					
BIG CYPRESS BAYOU UPSTREAM OF BACKWATER JACKS	22422	0402	5	NT	WM	BS	4			4	4				
BIG CYPRESS CREEK AT SH 43	10295	0402	5	NT	WM	RT	4	4	4	4					
HUGHES CREEK AT CR 2985	22321	0402B	5	NT	WM	RT	4			4					
KELLEY CREEK AT FM 250	16934	0402E	5	NT	WM	RT	4			4					
BIG CYPRESS CREEK DOWNSTREAM OF WALKERS CREEK	22423	0404	5	NT	WM	BS	2			2	2	2	2	2	ALM
BIG CYPRESS CREEK AT US 271	10310	0404	5	NT	WM	RT	4	4	4	4					
BIG CYPRESS CREEK DOWNSTREAM OF GREASY CREEK	16458	0404	5	NT	WM	RT	4	4	4	4					
TANKERSLEY CREEK AT FM 3417	10261	0404B	5	NT	WM	RT	4	4	4	4					
HART CREEK AT CR 4550	10266	0404C	5	NT	WM	RT	4	4	4	4					
BIG CYPRESS CREEK AT CR SW 3170	22151	0405A	5	NT	WM	BS RT	4	4	4	4	4				
JAMES BAYOU AT CASS CR 1775	10321	0407	5	NT	WM	BS	4			4	4				
JIMS BAYOU AT SH 43	14976	0407	5	NT	WM	RT	4	4	4	4					
LILLY CREEK AT FM 556	20153	0409A	5	NT	WM	RT	4	4	4	4					Flow measured when wadable
SOUTH LILLY CREEK AT FM 2454	17954	0409B	5	NT	WM	RT	4	4	4	4					Flow measured when wadable
BLACK CYPRESS BAYOU AT SH 11	10247	0410	5	NT	WM	BS	4	1	1	4	4				

Appendix C: Station Location Maps

Station Location Maps

Maps of stations monitored by NETMWD/WMS are provided below. The maps were generated by Water Monitoring Solutions, Inc. This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries. For more information concerning this map, contact Randy Rushin at 903-439-4741.

