

Amendment # 1

To the Nueces River Authority Clean Rivers Program FY 2020/2021 QAPP

*Prepared by the Nueces River Authority
(NRA) 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:

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Justification

This document details the changes made to the basin-wide Quality Assurance Project Plan to update Section A6 and Appendix B for FY 2020/21 monitoring. NRA received funding from the Texas General Land Office's Coastal Management Program to increase the monitoring frequency at Station 13034 in Segment 2492 from quarterly to a monthly frequency as part of an effort to acquire more data on the tributaries of Baffin Bay. NRA also updated the Section A4 and Figure A4.1 to reflect TCEQ CRP Data Manager DM&A personnel changes.

Summary of Changes

Section A4. The Project/Task Organization was changed to remove Peter Bohls, TCEQ CRP Data Manager, DM&A Team personnel and replace with Sarah Kirkland.

Figure A4.1. Organization Chart was changed to remove Peter Bohls as TCEQ CRP Data Manager, DM&A and replaced with Sarah Kirkland.

Section A6 Project/Task Description. Description of monthly monitoring at one tidal monitoring location was added to the section.

Appendix B: Sample Design Rationale FY 2020: Segment 2492 was added to the list of segments with monitoring changes for FY 2020 and to revise number of bay and tidal sites.

Table B1.1 Sample Design and Schedule, FY 2020: In Basin 24, the monitoring frequency at Station 13034 on Los Olmos Creek was changed from quarterly to monthly.

A1 Approval Page

Texas Commission on Environmental Quality

Water Quality Planning Division

Electronically Approved 1/6/2020

Sarah Eagle, Work Leader
Clean Rivers Program

Date

Electronically Approved 1/6/2020

Kelly Rodibaugh
Project Quality Assurance Specialist

Date

Electronically Approved 1/6/2020

Rebecca DuPont
Project Manager

Date

Electronically Approved 1/6/2020

Cathy Anderson, Team Leader
Data Management and Analysis

Date

Monitoring Division

Electronically Approved 1/6/2020

Sharon Coleman
TCEQ QA Manager and
Acting Lead QA Specialist

Date

Nueces River Authority (NRA)

Electronically Approved 1/6/2020

Sam Sugarek
NRA Project Manager

Date

Electronically Approved 1/6/2020

Rocky Freund
NRA QA

Date

Detail of Changes

A4 PROJECT/TASK ORGANIZATION

Description of Responsibilities

TCEQ

Sarah Eagle ***CRP Work Leader***

Responsible for Texas Commission on Environmental Quality (TCEQ) activities supporting the development and implementation of the Texas Clean Rivers Program (CRP). Responsible for verifying that the TCEQ Quality Management Plan (QMP) is followed by CRP staff. Supervises TCEQ CRP staff. Reviews and responds to any deficiencies, corrective actions, or findings related to the area of responsibility. Oversees the development of Quality Assurance (QA) guidance for the CRP. Reviews and approves all QA audits, corrective actions, reports, work plans, contracts, QAPPs, and TCEQ Quality Management Plan. Enforces corrective action, as required, where QA protocols are not met. Ensures CRP personnel are fully trained.

Sharon Coleman ***Acting CRP Lead Quality Assurance Specialist***

Participates in the development, approval, implementation, and maintenance of written QA standards (e.g., Program Guidance, SOPs, QAPPs, QMP). Assists program and project manager in developing and implementing quality system. Serves on planning team for CRP special projects. Coordinates the review and approval of CRP QAPPs. Prepares and distributes annual audit plans. Conducts monitoring systems audits of Planning Agencies. Concurs with and monitors implementation of corrective actions. Conveys QA problems to appropriate management. Recommends that work be stopped in order to safeguard programmatic objectives, worker safety, public health, or environmental protection. Ensures maintenance of QAPPs and audit records for the CRP.

Rebecca DuPont ***CRP Project Manager***

Responsible for the development, implementation, and maintenance of CRP contracts. Tracks, reviews, and approves deliverables. Participates in the development, approval, implementation, and maintenance of written QA standards (e.g., Program Guidance, SOPs, QAPPs, QMP). Assists CRP Lead QA Specialist in conducting Nueces River Authority audits. Verifies QAPPs are being followed by contractors and that projects are producing data of known quality. Coordinates project planning with the Nueces River Authority Project Manager. Reviews and approves data and reports produced by contractors. Notifies QA Specialists of circumstances which may adversely affect the quality of data derived from the collection and analysis of samples. Develops, enforces, and monitors corrective action measures to ensure contractors meet deadlines and scheduled commitments.

Cathy Anderson ***Team Leader, Data Management and Analysis (DM&A) Team***

Participates in the development, approval, implementation, and maintenance of written QA standards (e.g., Program Guidance, SOPs, QAPPs, QMP). Ensures DM&A staff perform data management-related tasks.

Sarah Kirkland ***CRP Data Manager, DM&A Team***

Responsible for coordination and tracking of CRP data sets from initial submittal through CRP Project Manager review and approval. Ensures that data are reported following instructions in the Data Management Reference Guide, most current version. Runs automated data validation checks in the Surface Water Quality Management Information System (SWQMIS) and coordinates data verification and error correction with CRP Project Managers. Generates SWQMIS summary reports to assist CRP Project Managers' data review. Identifies data anomalies and inconsistencies. Provides training and guidance to CRP and Planning Agencies on technical data issues to ensure that data are submitted according to documented procedures. Reviews QAPPs for valid stream monitoring stations. Checks validity of parameter codes, submitting entity code(s), collecting entity code(s), and

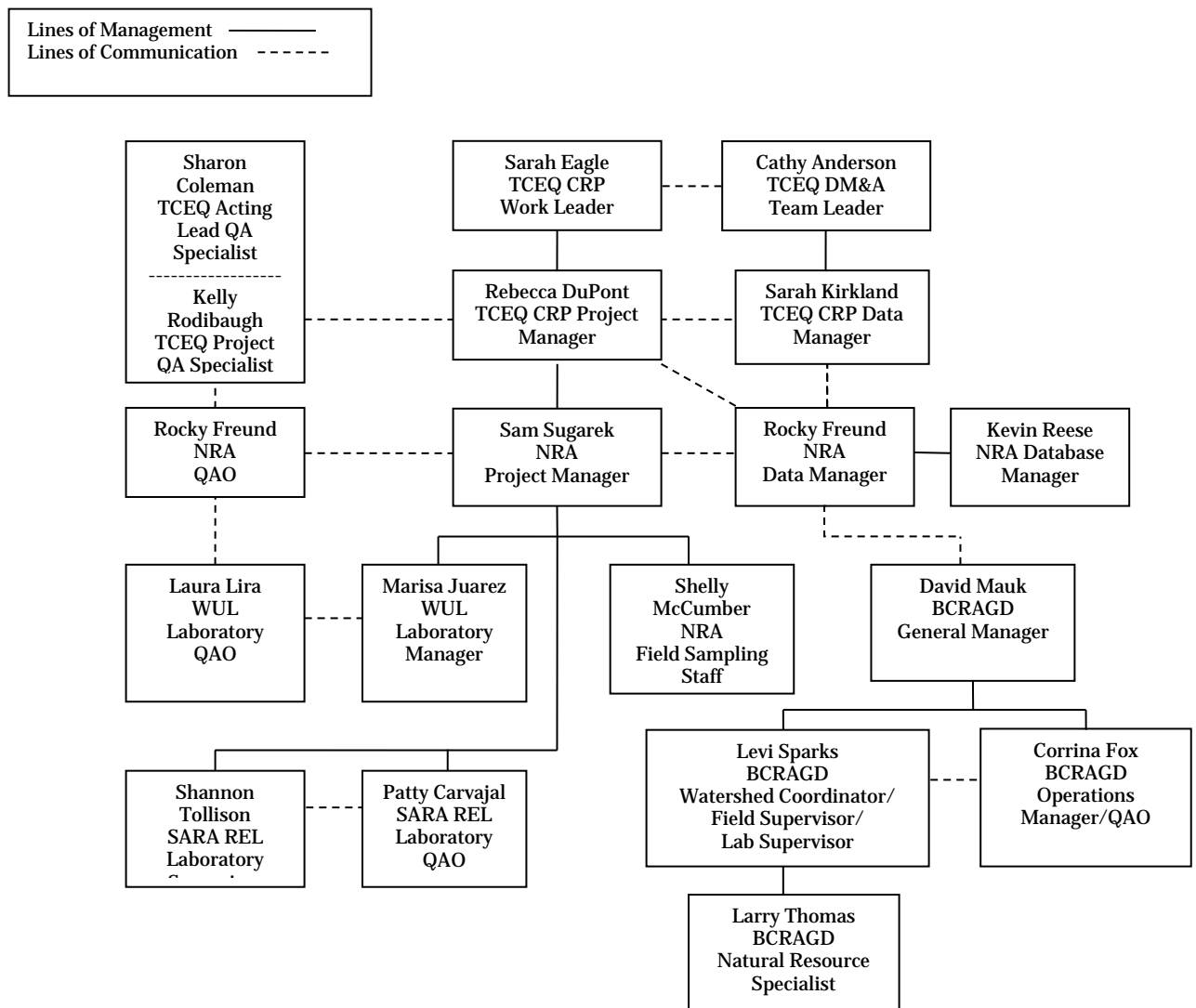
monitoring type code(s). Develops and maintains data management-related SOPs for CRP data management. Coordinates and processes data correction requests. Participates in the development, implementation, and maintenance of written QA standards (e.g., Program Guidance, SOPs, QAPPs, QMP).

Kelly Rodibaugh
CRP Project Quality Assurance Specialist

Serves as liaison between CRP management and TCEQ QA management. Participates in the development, approval, implementation, and maintenance of written QA standards (e.g., Program Guidance, SOPs, QAPPs, QMP). Serves on planning team for CRP special projects and reviews QAPPs in coordination with other CRP staff. Coordinates documentation and implementation of corrective action for the CRP.

Project Organization Chart

Figure A4.1. Organization Chart - Lines of Communication



A6 Project/Task Description

NRA will monitor a minimum of 9 bay and tidal sites quarterly for conventional, bacteria, and field parameters. NRA will monitor one tidal location monthly for conventional, bacteria, and field parameters. NRA will also monitor 2 bay and tidal locations on a semi-annual basis for conventional, bacteria, and field parameters. NRA will monitor a minimum of 32 river and lake sites quarterly for conventional, bacteria, flow (where applicable), and field parameters. NRA will also monitor 2 river locations on a quarterly basis for Chlorophyll-*a*, TDS, bacteria, and field parameters. NRA will also monitor one river site for bacteria and field parameters only and one river site for field parameters only. NRA will also conduct 24-hour dissolved oxygen monitoring at two sites given sufficient water.

Bandera County River Authority and Groundwater District (BCRAGD) will conduct routine quarterly monitoring, collecting field, conventional, bacteria and, where applicable, flow data at 3 river stations in basin 20.

See Appendix B for the project-related work plan tasks and schedule of deliverables for a description of work defined in this QAPP.

See Appendix B for sampling design and monitoring pertaining to this QAPP.

Appendix B Sampling Process Design and Monitoring Schedule (plan)

Sample Design Rationale FY 2020

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 Nueces River Authority coordinates closely with the TCEQ and other participants to ensure a comprehensive water monitoring strategy within the watershed.

Segment 2004A – One quarterly monitoring station located on Aransas Creek (Station ID 12941) will be added due to recommendations made by the TCEQ basin assessor. Bacteria, field and flow data will be the only parameters monitored.

Segment 2102 – Two quarterly monitoring stations on the Nueces River (Station Id 21815 and 12965) will be monitored for Chlorophyll-*a*, TDS and bacteria only to monitor work being done through implementation of the WPP. Two quarterly monitoring stations exist (20936 and 12964) in this segment for assessment.

Segment 2104 – One 24-hour dissolved oxygen monitoring site located on the Nueces River at FM624 (Station Id 12974) will transition to a quarterly field parameters only station due to recommendations by the TCEQ basin assessor.

Segment 2107 - One 24-hour dissolved oxygen monitoring station located on the Atascosa River (Station Id 12981) will be dropped due to a delisting of the dissolved oxygen impairment in the segment.

Segment 2472 – One quarterly monitoring station located at Port Bay (Station ID 13405) will transition to a bi-annual monitoring station.

Segment 2483A – One quarterly monitoring station located at Conn Brown Harbor (Station ID 18848) will transition to a bi-annual monitoring station.

Segment 2485 – One quarterly monitoring station located on Oso Bay (Station ID 13442) will be added due to a stakeholder request from TPWD.

Segment 2485A – One quarterly monitoring station located on Oso Creek (Station ID 13029) will have the indicator bacteria changed from Enterococcus to *E. coli* due to stakeholder input.

Segment 2492 - One quarterly monitoring station located on Los Olmos Creek (Station ID 13034) will transition to a monthly monitoring station upon execution of this QAPP amendment. A GLO CMP grant will fund monitoring during 2 months per quarter in which CRP monitoring doesn't occur.

Segment 2494C – One quarterly monitoring station located on San Martin Lake in the Lower Rio Grande Valley (Station ID 22170) will be added to support the efforts of the Lower Laguna Madre and Brownsville Ship Channel WPP.

Monitoring Sites for FY 2020

Table B1.1 Sample Design and Schedule, FY 2020

Basin 24

| <i>Site Description</i> | <i>Station ID</i> | <i>Waterbody ID</i> | <i>Reg</i> | <i>SE</i> | <i>CE</i> | <i>MT</i> | <i>24 hr DO</i> | <i>AqHab</i> | <i>Benthics</i> | <i>Nekton</i> | <i>Metal Water</i> | <i>Organic Water</i> | <i>Metal Sed</i> | <i>Organic Sed</i> | <i>Conv</i> | <i>Amb Tox Water</i> | <i>Amb Tox Sed</i> | <i>Bacteria</i> | <i>Flow</i> | <i>Fish Tissue</i> | <i>Field</i> | <i>Comments</i> |
|--|-------------------|---------------------|------------|-----------|-----------|-----------|-----------------|--------------|-----------------|---------------|--------------------|----------------------|------------------|--------------------|-------------|----------------------|--------------------|-----------------|-------------|--------------------|--------------|-----------------|
| PORT BAY AT MIDDLE OF SH 188 WEST OF ROCKPORT | 13405 | 2472 | 14 | NR | NR | RT | | | | | | | | | 2 | | | 2 | | | 2 | |
| REDFISH BAY AT SH 361 AT 3RD BRIDGE BETWEEN ARANSAS PASS AND PORT ARANSAS | 13426 | 2483 | 14 | NR | NR | RT | | | | | | | | | 4 | | | 4 | | | 4 | |
| CONN BROWN HARBOR MID HARBOR 50 M NORTHEAST OF THE INTERSECTION OF HUFF ST AND EAST MADDOX AVE IN ARANSAS PASS | 18848 | 2483A | 14 | NR | NR | RT | | | | | | | | | 2 | | | 2 | | | 2 | |
| OSO BAY IMMEDIATELY OFFSHORE AT TIP OF PENINSULA AT PADRE ISLAND DRIVE/SOUTHBOUND AT SH 358 | 13440 | 2485 | 14 | NR | NR | RT | | | | | | | | | 4 | | | 4 | | | 4 | |
| OSO BAY 40 M UPSTREAM OF OCEAN DRIVE AND APPROXIMATELY 50 M WEST OF EASTERN LANDFALL OF BRIDGE | 13442 | 2485 | 14 | NR | NR | RT | | | | | | | | | 4 | | | 4 | | | 4 | |
| OSO CREEK IMMEDIATELY DOWNSTREAM OF SH 286 SOUTH OF CORPUS CHRISTI | 13028 | 2485A | 14 | NR | NR | RT | | | | | | | | | 4 | | | 4 | | | 4 | |

Basin 24 - Continued

| <i>Site Description</i> | <i>Station ID</i> | <i>Waterbody ID</i> | <i>Reg</i> | <i>SE</i> | <i>CE</i> | <i>MT</i> | <i>24 hr DO</i> | <i>AqHab</i> | <i>Benthics</i> | <i>Nekton</i> | <i>Metal Water</i> | <i>Organic Water</i> | <i>Metal Sed</i> | <i>Organic Sed</i> | <i>Conv</i> | <i>Amb Tox Water</i> | <i>Amb Tox Sed</i> | <i>Bacteria</i> | <i>Flow</i> | <i>Fish Tissue</i> | <i>Field</i> | <i>Comments</i> |
|--|-------------------|---------------------|------------|-----------|-----------|-----------|-----------------|--------------|-----------------|---------------|--------------------|----------------------|------------------|--------------------|-------------|----------------------|--------------------|-----------------|-------------|--------------------|--------------|-----------------|
| OSO CREEK IMMEDIATELY DOWNSTREAM OF FM 763 SOUTHWEST OF CORPUS CHRISTI | 13029 | 2485A | 14 | NR | NR | RT | | | | | | | | | 4 | | | 4 | | | 4 | |
| HIDALGO MAIN FLOODWATER CHANNEL AT FM 1420 1.65 KM SOUTH OF INTERSECTION WITH FM 490 EAST OF RAYMONDVILLE | 22003 | 2491C | 15 | NR | NR | RT | | | | | | | | | 4 | | | 4 | | | 4 | |
| RAYMONDVILLE DRAIN AT WILLACY COUNTY ROAD 445 800 METERS NORTH OF INTERSECTION WITH FM 3142 EAST OF RAYMONDVILLE | 22004 | 2491C | 15 | NR | NR | RT | | | | | | | | | 4 | | | 4 | | | 4 | |
| LOS OLMOS CREEK IMMEDIATELY UPSTREAM OF US 77 SOUTH OF RIVIERA | 13034 | 2492 | 14 | NR | NR | RT | | | | | | | | | 10 | | | 10 | | | 10 | 6x CMP, 4x CRP |
| SAN FERNANDO CREEK AT US 77 AT KINGSVILLE | 13033 | 2492A | 14 | NR | NR | RT | | | | | | | | | 4 | | | 4 | 4 | | 4 | |
| SAN MARTIN LAKE MID ESTUARY 2.04 KM EAST AND 0.80 KM NORTH OF THE HWY 48 BRIDGE NORTHEAST OF BROWNSVILLE | 22170 | 2494C | 15 | NR | NR | RT | | | | | | | | | 4 | | | 4 | | | 4 | |