

# **Amendment #1 Update to the Trinity River Authority Clean Rivers Program FY 2022/2023 QAPP**

***Prepared by the Basin Planning Agency in  
Cooperation with the Texas Commission  
on Environmental Quality (TCEQ)***

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**Effective: Immediately upon approval by all parties**

Questions concerning this amendment should be directed to:

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# A1 Approval Page

## Texas Commission on Environmental Quality

### Water Quality Planning Division

*Electronically Approved*      **11/29/2021**

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Rebecca DuPont, Work Leader      Date  
Clean Rivers Program

*Electronically Approved*      **11/29/2021**

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Rebecca DuPont, Acting Project QA Specialist      Date  
Clean Rivers Program

*Electronically Approved*      **11/29/2021**

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Rebecca DuPont, Project Manager      Date  
Clean Rivers Program

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Cathy Anderson, Team Leader      Date  
Data Management and Analysis

### Monitoring Division

*Electronically Approved*      **11/29/2021**

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Dana Squires,      Date  
CRP Lead Quality Assurance Specialist

# Trinity River Authority

***Electronically Approved***      ***11/29/2021***

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Angela Kilpatrick      Date  
TRA Project Manager

***Electronically Approved***      ***11/29/2021***

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Hong Wu      Date  
TRA QA Officer

***Electronically Approved***      ***11/29/2021***

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Carion Taylor      Date  
TRA Data Manager

***Electronically Approved***      ***11/29/2021***

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Kelly McKnight      Date  
TRA Field Team Leader

## Justification

This document details the changes made to the basin wide Quality Assurance Project Plan to update the following items. Appendix B is being updated to show the addition of new TRA sampling sites. Table B1.1 is being updated to reflect the addition of new sites and their sampling schedules and parameters. Appendix C is being updated to show the locations of new monitoring sites.

## Summary of Changes

Section	Sub-section/ Figure/ Table	Page in Basin- Wide QAPP	Change	Justification	Affected Entity	Page in this Amendment
Appendix B	Sampling Process Design and Monitoring Schedule	114	Added Grapevine Lake 20884, 16116, 11036, 21351 for bimonthly conventionals, E. coli, flow and field parameters monitoring.	Monitoring sites added	TRA	5
Appendix B	Sampling Process Design and Monitoring Schedule	114	Added Denton Creek sites 21295, 21296 for bimonthly conventional, E. Coli, flow and field parameters monitoring.	Monitoring sites added	TRA	5
Appendix B	Sampling Process Design and Monitoring Schedule	114	Added Buffalo Creek site 10825 for bimonthly conventional, E. Coli, flow and field parameters monitoring.	Monitoring sites added	TRA	5
Appendix B	Sampling Process Design and Monitoring Schedule	114	Added Village Creek site 10781 for bimonthly monitoring of conventionals, E. Coli, flow and field parameters.	Monitoring sites added	TRA	5
Appendix B	Sampling Process Design and Monitoring Schedule	114	Added South Fork Trinity at FM5 site 17455 for bimonthly monitoring of conventionals, E. coli, flow and field parameters.	Monitoring sites added	TRA	5
Table B1.1	Sample Design and Schedule	After 140	Added Monitoring sites 10825, 10781, 21295, 21296, 17455, 11036, 16116, 21351, 20884 to show site details	Monitoring sites added	TRA	6
Appendix C	Station Location Maps	157	Added Monitoring sites 10825, 10781, 21295, 21296, 17455, 11036, 16116, 21351, 20884 to show site location	Monitoring sites added	TRA	7

## Detail of Changes

Details of the changes listed above are shown on the following pages. These pages are intended as direct replacements for existing pages in the QAPP. Changes are noted in red text

**Replaces Page 114 of the FY 2022-2023 Basin-Wide QAPP, Appendix B Sampling Process Design and Monitoring Schedule FY2022**

- Aquatic Life Monitoring on Low Branch (station 22135 Segment 0838) has been removed. Sampling at this station will be completed in the summer of FY 2021. All attempts will be made to complete both index and critical period events before 8/31/2021.
- Aquatic Life Monitoring on Stewart Creek (station 22279 Segment 0823D) has been added. This site corresponds with a station that a new partner - the City of Frisco - will be monitoring under the CRP QAPP.
- 24 hour DO sampling at station 10815 (segment 0841O) and 17681 (segment 0841W) have been removed. 10 samples over two years have been conducted (12/12/2019, 2/13/2020, 4/8/2020, 6/8/2020, 8/3/2020, 10/20/2020, 2/22/2021, planned 4/8/2021, planned 6/3/2021, planned 8/5/2021).
- 24 hour DO sampling in segment 0833A at station 17463 will be added for two years (through FY2023) based on a TCEQ request from FY2020 (was not able to do in FY 2021 due to resources for diurnal sampling being maxed out). Sampling will be conducted 5 times a year and will consist of diurnals, conventionals, E. coli, flow, and field parameters. This site has been added to address findings of the Integrated Report.
- 24 hour DO sampling at station 22313 (TR417) in segment 0833\_04 will be added for two years (through FY2023) based on a TCEQ request. Sampling was conducted in this AU in 2015/2016 at station 17461 however the site was always dry. Recent inspection of GIS layers and Google Earth indicate that the Clear Fork has abandoned the channel where 17461 is located and moved east into a channel identified as Dobbs Branch. A new station ID (22313) was requested for "Clear Fork/Dobbs Branch".
- Quarterly monitoring of conventionals, E. coli, flow, and field parameters has been added at station 10815 in segment 0841O to address findings of the Integrated Report.
- Grapevine Lake station 16112 was incorrectly identified. Monitoring was intended to take place at 16114. Sampling is being conducted at the correct location (16114 - GRAPEVINE LAKE MID LAKE NORTH OF OAK GROVE PARK 1.26 KM NORTH AND 269 METERS EAST OF INTERSECTION OF MESQUITE BEND AND PARK ROAD, 32.98111, -97.078613) but was incorrectly listed in the QAPP with the incorrect site ID of 16112. All other station location information (description and lat/long) were correct for 16114.
- Grapevine Lake sites 20884, 16116, 11036, 21351 will be added for 2 years (through FY2023) for bimonthly monitoring of conventionals, E. Coli, and field parameters. These sites have been added to address the findings of the Integrated Report. They will be re-evaluated or removed FY2024.
- Denton Creek monitoring sites 21295 and 21296 will be added for 2 years for bimonthly monitoring of conventionals, E. coli, flow, and field parameters to address the Integrated Report. The sites will be re-evaluated or removed FY2024.
- Buffalo Creek site 10825 will be added for 2 years for bimonthly monitoring of conventionals, E. coli, flow, and field parameters to address the Integrated Report. The sites will be re-evaluated or removed FY2024.
- Village Creek site 10781 will be added for bimonthly monitoring of conventionals, E. coli, flow and field parameters. The sites will be added for 2 years to address the Integrated Report and will be re-evaluated or removed FY2024.
- South Fork Trinity at FM5 site 17455 will be added for bimonthly monitoring of conventionals, E. coli, flow and field parameters for 2 years. This will be address findings of the Integrated Report and be re-evaluated or removed FY2024.
- Other notes: These are intended as a record of intent for future monitoring schedule updates and do not apply to the current monitoring schedule. This information is included here as a matter of record.
  - A site on Segment 0825 Denton Creek below Grapevine Lake (station 11034) was added by TRA for quarterly monitoring of *E. coli*, flow, and field parameters in FY 2020. This site will be sampled for at least 5 years (through FY 2024) to address *E. coli* concerns. It is anticipated to be removed from the sampling schedule in FY 2025.
  - A site in AU 0805\_01 (site 10924) was added by TRA for quarterly monitoring of *E. coli*, conventionals, flow, and field parameters in FY 2020. This site will be sampled for at least 3 years (through FY 2022) to address nutrient concerns. It is anticipated to be removed from the sampling schedule in FY 2023.
  - 21423 in segment 0841 was added by TRA in FY 2018 for quarterly monitoring of conventionals, *E. coli*, field and flow for five years (through FY 2022) in response to findings in the Integrated Report. This site will be removed in FY 2023.
  - 17129 in segment 0806F was added by TRA in FY 2018 for quarterly monitoring of *E. coli*, field and flow for five years (through FY 2022) in response to findings in the Integrated Report. This site will be removed in FY 2023.
  - Sites upstream of the WWTPs on Red Oak Creek (Segment 0805A station 10842) and Ten Mile Creek (unclassified Segment in 0805 station 21287) were added by TRA to the monitoring schedule in FY 2020 for quarterly monitoring of *E. coli*, conventionals, flow, and field because they were not previously assessed. Sampling will take place for a minimum of 5 years (through FY 2024). Continuation of sampling after FY 2024 will be reassessed at a later date.
  - 10756 in segment 0820B will remain on the monitoring schedule until further notice. TRA is monitoring this station. It is providing data that is useful for the Watershed Characterization and future Watershed Protection Plan for Rowlett Creek.
  - 13686 in segment 0815A was added by TRA in FY 2017 for quarterly monitoring of conventionals, *E. coli*, flow, and field parameters in response to findings in the Integrated Report. This site was originally planned to be removed in FY 2020. However, due to stakeholder input, it has been determined that this site will remain in the monitoring schedule until further input. This site is providing data that is useful for the Richland-Chambers Watershed Protection Plan that is funded by a third party.
  - Stations 22234 and 16114 in Grapevine Lake (segment 0826) were added in FY 2021 to address gaps in monitoring coverage. 22234 was added at the request of TCEQ to address the carryforward pH listing in the 2020 IR. Monitoring at these sites will continue for approximately 5 years and will be reassessed for continued monitoring no later than FY 2026.
  - Stations 22235 and 14041 in Ray Roberts Lake (segment 0840), 14002 and 17839 in Lake Lewisville (segment 0823), and 11004, 11010, and 11016 in Lake Ray Hubbard (segment 0820) were added in FY

***Insert after Page 140 of the FY 2022-2023 Basin-Wide QAPP, Table B1.1 Sample Design and Schedule, FY2022***

Site Description	Site ID	Latitude	Longitude	Waterbody ID	Region	SE	CE	MT	24HR	Aquatic Habitat	Benthics	Nekton	Metals Water	Conventional	Bacteria	Flow	Field	Comment
<b>TRINITY RIVER AUTHORITY</b>																		
BUFFALO CREEK AT FM740	10825	32.778255	-96.473061	819B	04	TR	TR	RT						6	6	6	6	Station 10825 (819B_01) to address TP and Nitrate concerns
VILLAGE CREEK AT US 287	10781	32.659721	-97.233333	828A	04	TR	TR	RT						6	6	6	6	Station 10781 (0828A_01) water supply protection monitoring
DENTON CREEK 100 METERS DOWNSTREAM OF THE CONFLUENCE WITH CADE BRANCH BELOW THE MIXING ZONE	21296	33.028472	-97.218787	0826A	04	TR	TR	RT						6	6	6	6	Station 21296 (0826A_01 DS of Cade Branch) to address Nitrate concern
DENTON CREEK 30 METERS UPSTREAM OF THE CONFLUENCE WITH CADE BRANCH ABOVE THE MIXING ZONE	21295	33.0285	-97.2188	0826A_01	04	TR	TR	RT						6	6	6	6	Station 21295 (0826A_01 US of Cade Branch) to address Nitrate concern
SOUTH FORK TRINITY RIVER AT FM 5 4.1 KM UPSTREAM OF CONFLUENCE WITH CLEAR FORK TRINITY RIVER NORTH OF ANNETA	17455	32.7207	-97.6739	0831A	04	TR	TR	RT						6	6	6	6	Station 17455 (0831A) to address E. coli, TP, and Nitrate concerns
GRAPEVINE RESERVOIR AT MOREHEAD CREEK COVE 443 METERS NORTH AND 120 METERS EAST OF INTERSECTION OF PARK ROAD 8 AND DOOLEY STREET	11036	32.9614	-97.0742	0826_02	04	TR	TR	RT						6	6		6	Station 11036 (0826_02) to address algal growth concern
GRAPEVINE LAKE AT MOUTH OF NORTH MAIN SLOUGH COVE 749 METERS N AND 149 METERS W OF INTERSECTION OF OAK GROVE PARK RD AND DOVE LOOP RD	16116	32.9719	-97.0919	0826_04	04	TR	TR	RT						6	6		6	Station 16116 (0826_04) to address algal growth concern
GRAPEVINE LAKE AT MURRELL PARK E 60 METERS EAST AND 40 METERS SOUTH OF BOAT RAMP 1 NEAR GRAPEVINE	21351	32.9927	-97.0839	0826_08	04	TR	TR	RT						6	6		6	Station 21351 (0826_08) to address algal growth concern/multiple coves one AU
GRAPEVINE LAKE DOVE CREEK COVE MIDDLE OF COVE APPROX 250 METERS SOUTH AND 280 METERS EAST OF THE INTERSECTION OF PERCH E LANE AND MEADOWMERE LANE-SNAKEY ROAD	20884	32.98	-97.1131	0826_08	04	TR	TR	RT						6	6		6	Station 20884 (0826_08) to address algal growth concern/multiple coves one AU

Replaces Page 157 of the FY 2022-20213Basin-Wide OAPP, Appendix C: Station Location Maps

