



STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER RESOURCES

Nashville, Tennessee 37243-0435

DAVID W. SALYERS, P.E.
COMMISSIONER

BILL LEE
GOVERNOR

MEMORANDUM

TO: Governor Lee

FROM: David W. Salyers, P.E., Commissioner
Department of Environment and Conservation

Jenny Dodd, Director
Division of Water Resources

DATE: September 30, 2023

SUBJECT: Triennial State Capacity Development Program Implementation Report
Prepared by the Division of Water Resources
In accordance with the Federal Safe Drinking Water Act

The submission of the triennial Capacity Development Report to the Governor is a condition set forth by the U.S. Environmental Protection Agency for funding of the Fiscal Year (FY) 2024 Drinking Water State Revolving Fund (DWSRF) grant. This report documents ongoing implementation of: (1) a program to ensure that new community water systems and new non-transient non-community water systems demonstrate adequate technical, managerial, and financial capacity prior to commencing operation; and (2) a strategy to assist existing public water systems in acquiring and maintaining adequate system capacity.

Section 1420(c)(3) of the Safe Drinking Water Act states that "...every 3 years...the head of the State agency that has primary responsibility to carry out this title in the State shall submit to the Governor a report that shall also be available to the public on the efficacy of the [capacity development] strategy and progress made toward improving the technical, managerial, and financial capacity of public water systems in the State."

The State of Tennessee's drinking water program, implemented by TDEC's Division of Water Resources, is recognized as one of the leading agencies in USEPA Region 4. Thank you for time and consideration of the enclosed triennial report. If you have any questions, feel free to call on us.

From: [Blair Beaty](#)
To: [Paula Mitchell](#); [Anna R. Sartors](#)
Subject: FW: TDEC Report: State Capacity Development Program Implementation
Date: Friday, September 29, 2023 4:12:24 PM
Attachments: [image001.png](#)
[2023 Memo to Governor Lee.docx](#)
[TN 2023 Triennial Capacity Development Report ...pdf](#)

FYI -

From: Blair Beaty
Sent: Friday, September 29, 2023 3:12 PM
To: Governor Bill Lee <Bill.Lee@tn.gov>
Cc: Grant Minchew <Grant.Minchew@tn.gov>; David Salyers <David.Salyers@tn.gov>; Jennifer Dodd <Jennifer.Dodd@tn.gov>; Alli F. Williamson <Alli.F.Williamson@tn.gov>; Karen Simo <Karen.Simo@tn.gov>
Subject: TDEC Report: State Capacity Development Program Implementation

Dear Governor Lee,

Please find attached the triennial State Capacity Development Program Implementation Report prepared by TDEC's Division of Water Resources and required to be submitted to your office by the federal Safe Drinking Water Act. This report has been posted to TDEC's webpage: https://www.tn.gov/content/dam/tn/environment/water/drinking-water-unit/wr_wq_dw_triennial-capacity-dev-report-2023.pdf.

If you have any questions at all, please do not hesitate to contact us.

Respectfully,

Blair Beaty



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Triennial Capacity Development Report



**Report Submitted to
Governor Bill Lee
Prepared by the
Tennessee Department of Environment and Conservation
Division of Water Resources
Requirement of Section 1420, Federal Safe Drinking Water Act
September 2023**

Executive Summary

In accordance with the Federal Safe Drinking Water Act (SDWA), Section 1420, Tennessee is required to submit a Triennial State Capacity Development Program Implementation Report to the Governor. This report provides an assessment of Tennessee's strategy and efforts toward assessing and improving the technical, managerial, and financial capacity of public water systems within the state. This report is intended to fulfill the requirement of Section 1420(c)(3) of the SDWA.

In response to federal requirements, Tennessee's Drinking Water Rules require all new public water systems to demonstrate technical, managerial and financial capacity (establishing the system as "viable") before serving water to the public. All new water systems are required to develop a Capacity Development Plan including a business plan that demonstrates the system can achieve and maintain compliance with the Safe Drinking Water Act on the day they begin serving drinking water to the public. Water system capacity is the ability to achieve and maintain compliance with all applicable drinking water standards. Tennessee Rules also requires those water systems that do not meet the SDWA requirements may be required to develop a Capacity Development Plan to show viability.

Tennessee's capacity development strategy identifies community and non-community systems in non-compliance with the SDWA and strives to provide such public water systems with technical, financial and managerial assistance and training where appropriate. Further, this regulatory strategy sets the stage for whatever level of enforcement is deemed necessary to ultimately achieve compliance and ensure safe drinking water.

The Need for a Capacity Development Strategy

In accordance with the 1974 Federal Safe Drinking Water Act, states are required to ensure that providers of drinking water systems meet minimum national standards. EPA and the state delegated programs have come to realize that full compliance can only be achieved through capacity development assessments that examine the financial, technical and managerial status of a water system.

The Federal Safe Drinking Water Act Amendments of 1996 mandate that states ensure that all new community water systems (CWS) and all new non-transient, non-community water systems (NTNCWS) demonstrate capacity to implement each drinking water regulation in effect. Section 1420(a) of the Federal Safe Drinking Water Act requires that a state obtain the legal authority or other means to ensure that all new CWS and new NTNCWS commencing operation after October 1, 1999 demonstrate technical, managerial and financial capacity, or lose a portion (20%) of the monies allotted for the state's drinking

water revolving loan fund. In addition, the 1996 amendments require states to prepare a Capacity Development Strategy to identify and prioritize water systems lacking consistent compliance with drinking water regulations.

In addition to assessing newly constructed water systems, Tennessee has adopted a Capacity Development Strategy to address the viability of all existing public water systems. This strategy also closely examines each system's record of regulatory compliance. If needed, Tennessee may require existing public water systems in non-compliance to develop plans showing that sufficient revenue is available and that the water system has adequate management and technical resources to operate in compliance with the SDWA. This requirement accelerates the compliance of existing systems with violations and encourages potentially significant non-compliers to take necessary efforts to achieve a satisfactory compliance status. Additionally, TN worked with EPA in finalizing an Asset Management addendum to the Capacity Development Report (Appendix 9).

Enforcement is utilized as a tool in helping public water systems acquire, maintain, or improve their capacity and become viable water systems. The Environmental Protection Agency's enforcement targeting tool (ETT) is used to determine the level of non-compliance for all public drinking water systems. Appendix 1 includes the most recent list of water systems that have incurred violations scoring a non-compliance value of 11 or above on the ETT list and Appendix 2 includes Tennessee's 2022 Annual Compliance Report.

Compliance reports and Sanitary Surveys are the indicator and guiding mechanism to Tennessee's state capacity development strategy. Compliance reports provide a continuous means by which capacity development issues are identified and addressed. As water systems incur violations, Tennessee can focus on the specific issues of the system and aid in determining corrective actions. Those systems scoring 11 or higher on the ETT list are addressed with formal enforcement action. The enforcement process compels noncompliant systems to address capacity issues or face continuing and escalating enforcement action and financial disincentives in the form of fines. Tennessee's regulatory program is able to issue Notices of Violations (NOVs), engage in court actions, schedule Compliance Review Meetings, and issue Commissioner's Orders and Director's Orders. As part of capacity development, the Division of Water Resources can require existing water systems that have an ETT score of 11 or above and those with high potential for scoring above 11 to submit a capacity development plan identifying specific actions leading to the development of capacity. The plan must document and/or address all compliance issues faced by the system. The Division uses the Capacity Development Plan Guidance Document (Appendix 4) and the Capacity Development - Business Plan, Financial Self-Assessment Manual (Appendix 5) to ensure that public water systems develop a sufficient overall capacity development plan.

To identify water system needs as well as potentially effective compliance mechanisms, the state has established a water system baseline as required by Section 1420(c)(2)(D) the Federal Safe Drinking Water Act. This baseline is used to measure improvements in system capacity. The baseline uses the initial list of community water systems and non-transient, non-community water systems with a history of non-compliance, which was sent to EPA on August 1, 1997. Appendix 3, “Tennessee PWSs with a History of Violations, Compliance Status (1997-June 30, 2007)” shows many of the public water systems that have been identified as Significant Non-Compliers (SNCs) between 1997 and June 30, 2007.

As a summary of compliance in Tennessee during this triennial (state FY2021, FY2022 and FY2023) review, for the period ending June 30, 2023, there were twenty-one (21) water systems with an ETT score of 11 or higher (See Appendix 1). Some of the increase in systems with ETT scores above 11 may be attributed to the Division issuing Notices of Violations for failing to provide public notice as required beginning in 2022. The violations for these systems fall within the following rules:

Violation	Number of Violations
Revised Total Coliform Rule (RTCR) Monitoring and Assessment Violations	29
Revised Total Coliform Rule E.Coli MCL	1
Long Term 1 Enhanced Surface Water Treatment Rule Monitoring Violations	22
Long Term 1 Enhanced Surface Water Treatment Rule Treatment Technique Violations	6
Long Term 2 Surface Water Treatment Rule Treatment Technique Violations	9
Consumer Confidence Report Submittal Violations	20
Consumer Confidence Report Content Violations	17
Ground Water Rule Monitoring Violation	18
Stage 1 D/DBP Monitoring Violations	4
Stage 2 D/DBP Maximum Contaminant Level Violations	20
Stage 2 D/DBP Monitoring Violations	16
Public Notification Rule	36
Lead and Copper Rule, Monitoring	14
Lead and Copper Rule, Consumer Notification	14
Chemical Monitoring, VOCs	5
Chemical Monitoring, SOCs	4
Chemical Monitoring, Nitrates	6
Chemical Monitoring, Inorganics	2

For the period ending June 30, 2022, there were twelve (12) water systems that had a score of 11 or higher on the Enforcement Targeting Tool (ETT list). The majority of the violations

amongst water systems with an ETT score of 11 or higher were Public Notice Rule violations. The next highest occurrence were violations of the Revised Total Coliform Rule.

For the period ending June 30, 2021, there were two water systems that had a score of 11 or higher on the Enforcement Targeting Tool (ETT list). The majority of the systems with violations of 11 or higher incurred Ground Water Rule monitoring violations. The next highest occurrence was Stage 2 Disinfection Byproducts (DBP) MCL violations.

State Objectives and Strategy

Tennessee's Capacity Development Strategy process provides a comprehensive assessment of available capacity development resources and demonstrates areas of focus to improve each program's effectiveness. The benefit of the Capacity Development Strategy is that the state is able to review the broad range of efforts (programs and activities) currently offered and undertaken by both the regulatory program and the drinking water system to maintain, develop, or improve compliance.

As an example of outreach and training offered by Tennessee, operator training is provided at TDEC's Fleming Training Center as well as through third party operator training programs offered by the Tennessee Association of Utility Districts (TAUD). The State has also developed a contract with TAUD through the Public Water System Supervision (PWSS) Set Aside with the State Revolving Fund Program (SRF). The goal is to provide targeted technical assistance to distressed or disadvantaged community public water systems to develop and improve managerial, financial and technical capacities and reduce occurrence of health based drinking water violations. This would include workshops including, but not limited to: Asset Management, Water Loss, Water Treatment/Distribution Optimization, Source Water Protection, Emergency Response, Resiliency and assistance as requested by TDEC or the PWS.

TAUD offers six conferences a year which include: the Utility Technology Conference, Operator Expo, Business of Running a Utility Conference, Leadership Conference and Administrative Professionals Conference. These conferences are designed to train and provide continuing education credits for all utility personnel including operators, managers, office managers, customer service staff, commissioners, and municipal officials. Conference topics include operations, policies, finance and budgets, etc. The Technology Conference, Operator Expo and Business Conference offer training that is more technical in nature and is approved for all operator licenses and professional engineers. Capacity development is also approached with education training for utility commissioners (now required by law). TAUD has offered a variety of training classes specifically designed for

utility board members and commissioners. State law requires for utility commissioners (gas and water) to attend classes and obtain continuing education credits.

See the following table for FY 2022/2023 Conference results.

Name	Number of Days	Number of Attendees
Utility Technology Conference	2	170
Operator Expo	1	1232
Business of Running a Utility Conference	2	684
Leadership Conference	1	235
Administrative Professionals Conference.	1	110

The TAUD Training Station typically offers over 150 classes each year for operators. These classes are held across the state to make it more convenient for all operators to maintain their continuing education. TAUD offers hands-on, technical training that prepares the utility operator for everyday operations. See the attached table. TAUD’s move into virtual training that was hastened by Covid-19 has become a permanent part of their training.

Within the Department of Environment and Conservation is also housed the Operator Certification Board. The Operator Certification Board is in association with the Fleming Training Center responsible for the certification of water and wastewater operators and authority to revoke operator certification for just cause.

The University of Tennessee’s Municipal Technical Advisory Service (MTAS) has developed a Training Manual for Water and Wastewater System Board Members, *Water and Wastewater Management: A Training Manual for Board Members*. The classes on the report (Appendix 7) are approved by the State Comptroller/ Water & Wastewater Financing Board for utility credit. MTAS also offers virtual training to elected officials called Elected Officials Academy. The Elected Officials Academy is offered virtually to train municipal staff and officials in the knowledge and self-awareness required for successful management.

The Level I classes cover the essentials of municipal government in Tennessee and covers topics such as Strategic Planning, Charter and Codes and Open Records, Municipal Finance, Council at Work, and Ethics and Open Meetings. Level II Elected Official Academy includes topics such as Fire Review, Human Resources, Police Review, Public Works, and Municipal Risk Management.

Specialty Classes for municipal utility managers and operators are held in various locations throughout the state covering several topics in the technical areas. Other programs include: Administrative Hearing Officer, Certified Municipal Finance Officer, Continuing Municipal Education, Custom Training, Municipal Court Clerk and MTAS Online.

In addition to the classroom training, MTAS provides on-site technical training/assistance for water and sewer system staff per the request of a municipal utility. MTAS also provides help with financial distressed municipal utilities at the request of the city or a referral from the TBOUR.

Implementation of the Strategy – New Systems

The Tennessee Division of Water Resources' legal authority was certified by the Attorney General and Reporter for the State on July 15, 1999. It certifies that the laws of Tennessee provide adequate authority to carry out the capacity development requirements of the Federal Safe Drinking Water Act Section 1420(a), 42 U.S.C. § 300g-9(a).

These laws establish responsibility by the Tennessee Department of Environment and Conservation (TDEC) to review construction projects to ensure that new water systems have the technical capacity to comply with state drinking water requirements. Division of Water Resources Regulation 0400-45-01-.05 outlines the procedures that an applicant must follow for obtaining approval to construct a water system. Regulation 0400-45-01-.05(3) refers to minimum design standards for the construction of groundwater and surface water sources, treatment facilities, storage facilities, and distribution facilities (sources, treatment, storage and piping) to comply with the water quality standards and treatment technique standards specified in Regulations. Further, Division Rule 0400-45-01-.17(37) of the Drinking Water Regulations outlines the required information that must be submitted with the engineering documentation for approval to construct a new system. The regulations were amended to also include a "Business Plan" and "Capacity Development Plan." The definition of each of these plans can be found in Rule 0400-45-01-.04. Section 68-221-704(2)(E) of the Tennessee Safe Drinking Water Act grants the Tennessee Board of Water Quality, Oil and Gas the authority to adopt rules to ensure that all new community water systems and non-transient, non-community water systems commencing operation after October 1, 1999 demonstrate technical, managerial, and financial capacity to comply with the requirements of the Safe Drinking Water Act.

Water loss continues to be an area of focus for the Division of Water Resources and the Tennessee Comptroller of the Treasury (COT). The COT no longer requires utilities to report water loss using the American Water Works Association (AWWA) reporting tool in the utility's annual audit. Water loss information is now gathered through the Utility Annual Information Report found here:

<https://comptroller.tn.gov/boards/utilities/utility-reporting/annual-utility-reporting.html>

Utilities must report annually the “water purchased or produced” and the “water sold” for the most recent fiscal year in which data is available. Water loss is no longer considered using the “non-revenue water by cost” as previously used from the AWWA reporting tool. Instead, a threshold has been set of non-revenue water by volume at 40%. In short, if utilities report less than 60% of their water sold through the two volumes mentioned above, the COT will issue a water loss board referral for the utility. The utility will then be required to contract with a third party to complete the AWWA 6.0 for further evaluation of their water loss needs.

Control Points

The Tennessee Department of Environment and Conservation (TDEC) has two control points in ensuring that new community and new non-transient, non-community water systems demonstrate the technical, managerial and financial capacity to comply with the Safe Drinking Water Act (SDWA).

- 1.) The first control point is the submission of engineering documents for approval to construct a new water system. TDEC’s engineering staff reviews the engineering documents for compliance with the procedures outlined in the regulation and the design standards. The water source must also be tested and approved. The proposal must demonstrate that the system will have the technical, managerial and financial capacity to meet the requirements of the SDWA. If the information contained in the engineering report is satisfactory to the Department, it is approved and the system can proceed with development plans and specifications. Before final approval is granted to begin construction of a new water system, it must develop and submit a Capacity Development Plan to document to the State that the system is a “viable water system.” If at any time during this process the State determines the system is not a “viable water system,” approval to proceed can be withheld and the project denied.

- 2.) The second control point is final construction approval. Rule 0400-45-01-.17(19) of the State Drinking Water Regulations requires that once construction has been completed, arrangements must be made for an inspection and approval before operations can begin. All new community and non-transient non-community public water systems are required to submit an engineering report summarizing the need for a new system, a summary of alternative solutions, and recommendations regarding sources of water, proposed treatment processes, project sites, distribution system, financing (rates, debt, etc.) and management. State regulations require water systems to obtain written approval from the Tennessee Department of Environment and Conservation to begin operation after construction is completed.

Implementation of the Strategy – Existing Systems Strategy

As discussed earlier, Tennessee has many programs and tools available to help existing public water systems acquire technical, managerial and financial capacity. These include training offered by Fleming Training Center (FTC), third party operator and board member management training offered by the TAUD, the UT Municipal Technical Advisory Service, and others. The Division is also working with Communities Unlimited to assist systems facing potential enforcement action that are struggling with returning to compliance. Communities Unlimited funding comes from EPA and USDA/Rural Development Agency and their assistance is at no costs to the water system. Additionally, the Division conducts on-site inspections and on-site technical assistance. Further, assessments are performed by financial review boards, including the Comptroller of the Treasury's Utility Management Review Board, Water and Wastewater Financing Board and Division of Municipal Audit. A financial self-assessment tool is also offered by the Division of Water Resources. Finally, enforcement of state rules provides definitive guidance relative to capacity needs. Tennessee is now participating in EPA's Area-Wide Optimization Program (AWOP). This program provides tools and approaches to be utilized to aid systems in achieving/maintaining compliance and providing improved water quality to the public through optimization. AWOP is also an important component of efforts to assist systems build capacity and provide enhanced levels of public health protection. The AWOP approach includes performing Comprehensive Performance Evaluations (CPE), Performance Based Trainings (PBT), Distribution System Optimization (DSO) Training, Data Integrity Workshops, and Targeted Technical Assistance (TTA). AWOP is a voluntary program whose primary goal is to maximize public health protection without major capital expenditure, through optimization of existing water treatment and distribution facilities. Optimization of the water system is achieved through enhanced process monitoring and control using existing staff and facilities.

More specifically, programs and tools used to help water systems acquire capacity are offered in various formats and venues. Appendix 7 includes class titles and dates along with number of persons reached. The following list includes additional activities to aid systems in capacity development.

- ❑ Rule workshop updates provided to operators and system management by Fleming, Division of Water Resources staff and TAUD
- ❑ Operator Training at the Division's Fleming Training Center (FTC)
- ❑ Rulemaking Hearings open to the public and staff of PWSs conducted by Division of Water Resources staff
- ❑ Continuing Education Sessions for certified operators provided at American Water Works Association Conferences

- ❑ On-site and off-site technical assistance given to system operators and water system staff by Division of Water Resources Environmental Field Office (EFO) staff and Fleming Training Center
- ❑ On-site and off-site technical assistance given to system operators and water system staff by TAUD's "circuit riders"
- ❑ Financial Reviews of Municipal and Utility Districts by the Division of Municipal Audit in the State Comptroller's Office and subsequent action by the TN Board of Utility Regulation.
- ❑ Elected Officials Training by MTAS (Municipal Technical Advisory Service)
- ❑ Commissioner Training by TAUD
- ❑ Division of Water Resources' Financial Self-Assessment Manual
- ❑ The Division of Water Resources' Sanitary Survey Manual for Community Water Systems (CWSs) and Non-transient Non-community Water Systems (NTNCWSs), Revised February 2019
- ❑ Published Safe Drinking Water Rules
- ❑ TDEC Website Resources (Forms, Manuals and Links)
- ❑ Certified Laboratory Lists (available from the Division of Water Resources and the State's Website) & Lab Certification
- ❑ Certified Operator Lists (available from the Division of Water Resources and the Fleming Training Center)
- ❑ Sanitary Surveys providing comprehensive assessments of all public water systems
- ❑ State Revolving Loan Funds and staff technical assistance to eligible systems
- ❑ Emergency Operations Plan (EOP) Guidance (a/k/a Vulnerability and Security Plans) for all community water systems along with Drought management plans required
- ❑ Enforcement Targeting Tool (ETT)
- ❑ Enforcement Actions and Proceedings against all public water systems in non-compliance (Notices of Violation, Notices of Non-compliance, Show Cause Meetings, Compliance Review Meetings, Letter of Agreements, Commissioner's Orders, Directors Orders, Civil Penalty Assessments, and Contingent Civil Penalty Assessments)

The Fleming Training Center (FTC) offers fundamental and advanced training in water treatment, water distribution systems, laboratory operation, security, wastewater treatment, and wastewater collection systems. Additionally, FTC offer seminars designed to assist operators in obtaining their required continuing education. The Operator Certification Board plays a major role in the certification of qualified operators under the State's Water and Wastewater Operatory Certification Act. The Division of Water Resources supplies the Department of Environment and Conservation Commissioner's designee for the Board. Previously, the Commissioner of Department Environment and Conservation provided the

Director of the Division of Water Resources the authority to revoke operator certification for just cause. However, in July 2013, the legislature modified the Water and Wastewater Operator Certification Act to provide the Commissioner the opportunity to recommend an operator's revocation of certification to the Board while the Board determines revocation.

Additional information regarding the Fleming Training Center and the Operator Certification Program in Tennessee is available on Tennessee Department of Environment and Conservation's website (<https://www.tn.gov/environment/program-areas/wr-water-resources/fleming-training-center.html>). Other operator resources available on the State's website include revised manuals and forms, links to resources, annual violations lists, certified lab lists, construction design criteria, and the current sanitary survey manual.

To aid in consistency of inspections across the State, a Sanitary Survey Workshop was held June 7-9, 2022. Twenty-two division staff from across the State involved with the Drinking Water Program attended a 3 day workshop provided by the division's Drinking Water Fellow and Drinking Water Unit Manager. All in attendance voiced how beneficial it was to gather and discuss the actions involved with sanitary surveys and receiving updates on the regulation changes, etc. The group visited the Gladesville Water Treatment Plant for hands on experience. The next Sanitary Survey training is planned for 2024. Additionally, the Drinking Water Fellow holds monthly meetings to discuss AWOP and sanitary survey topics or issues.

Standard Operating Procedures (SOPs) – The Division of Water Resources requires public water systems to develop and adopt SOPs for operations, maintenance, and troubleshooting for at risk systems. Systems with a history of non-compliance may be required to develop and adopt SOPs and systems whose certified operator(s) cannot be on-site while the system is producing water must have SOPs in-place for use by those individuals designated to operate the water system. Drinking Water rules require all public water systems meeting the definition of a public water system under the State's Water and Wastewater Operator Certification Act to be operated by a certified operator in direct control. The Division of Water Resources has been strongly encouraging systems with surface water treatment plants serving greater than 10,000 persons to have appropriate level certified operators in attendance whenever the plant is in operation.

In May of 2022, the Division created a Lead & Copper page to include on our website. This page can be found [here](https://www.tn.gov/environment/program-areas/wr-water-resources/water-quality/drinking-water-redirect/lead-and-copper-rule.html) or <https://www.tn.gov/environment/program-areas/wr-water-resources/water-quality/drinking-water-redirect/lead-and-copper-rule.html>.

The state's Emergency Operations Plan (EOP) requirement includes a Source Water Assessment, Source Water Protection Plan and Drought Management Plan component. This

requirement compels systems to proactively examine and consider their source water, treatment and distribution capacities and build resiliency.

Finally, the Environmental Protection Agency (EPA) approved TN's Asset Management Addendum to this report on March 3, 2023. This addendum or revised strategy is required by Section 2012 of America's Water Infrastructure Act (AWIA). It includes a description of how TN will encourage development by public water systems of asset management plans and assist in training operators or other relevant and appropriate persons in implementing such plans. This addendum can be found in Appendix 9 and is also available on DWR's website at <https://www.tn.gov/environment/program-areas/wr-water-resources/water-quality/drinking-water-redirect.html>.

Identifying Systems in Need of Capacity

The Division of Water Resources also gives high priority to drinking water state revolving fund (DWSRF) applicants who must meet technical, managerial and financial capacity requirements in order to obtain funding. As described in this document, Tennessee continues to identify systems in need of capacity by monitoring water system compliance with rules and through the sanitary survey process. Systems with an elevated ETT score and that are lacking in capacity face a strategy of programs, actions and enforcement designed to develop system capacity and attain compliance. Tennessee continues to use construction approvals, continuing education for operators, DWSRF loan applications, municipal financial audit reports, reviews by the TBOUR, rule workshops, operator and board member training, sanitary survey assessments, compliance data (ETT list) and enforcement activities to reach systems lacking capacity.

Statewide Capacity Needs and Concerns

The nationwide issue of aging infrastructure is a serious issue in Tennessee. The aging infrastructure replacement needs run into the billions of dollars and far outweighs the available funding. Not replacing critical aging infrastructure creates a domino effect which affects such things as operations, water quality, maintaining compliance and water loss. Additionally, retirement of knowledgeable operators, especially for small rural water systems makes it more difficult to meet technical capacity in running the system.

Review of Capacity Development Strategy

The Division of Water Resources reviews and reports its Capacity Development Strategy annually to EPA.

Tennessee continues to follow its capacity development plan as it was originally developed by initially assisting systems to develop capacity and potentially escalating to enforcement action where appropriate.

Legislative Update:

On May 17, 2023, Governor Lee signed SENATE BILL 845, an Act to amend Tennessee Code Annotated, Title 4; Title 7; Title 8; Title 64; Title 65; Title 67 and Title 68, relative to the management of utility systems. The bill has now been assigned Public Chapter 0463 can be seen here: <https://publications.tnsosfiles.com/acts/113/pub/pc0463.pdf>. The Act merges the Utilities Management Review Board (UMRB) and Water Wastewater Financing Board (WWFB) into the Tennessee Board of Utility Regulation (TBOUR).

The bill expands the Board's jurisdiction to include municipal, county, and authority gas systems in Tennessee, whereas prior the WWFB only had oversight over the water and sewer systems of municipal, county, and authorities. The former UMRB had oversight of for water, sewer, and gas utilities. So this bill aligns the gas regulation of the former UMRB to the WWFB entities, thus increasing the Board's regulatory authority to all water, sewer, and gas systems for municipals, counties, authorities, and utility districts.

The Tennessee Board of Utility Regulation (TBOUR) and the Division of Local Government Audit conduct financial reviews of water systems and are within the State Comptroller of the Treasury's Department. Water systems with a negative change in net assets after two years are considered by law to be under "financial distress" and subject to board action. Systems are also subject to board action for excessive water loss. The Division of Water Resources supplies the Commissioner's designee for this board. This designee also conducts the division's environmental reviews, drinking water Director's Orders, and works with the technical secretary of the board whenever systems are in financial distress while also making efforts to obtain loans/grants for startups of new utility districts. The oversights of this board, as well as numerous other meaningful regulatory efforts are applied to improve or develop water system capacity in Tennessee. Water systems cases the board is currently reviewing can be found in Appendix 8. TDEC closely coordinates with TBOUR with a designee from the Commissioner on the Board.

Furthermore, this bill enhances the Board's customer complaint authority, as the former UMRB had a limited scope of hearing customer complaints, and the WWFB had no jurisdiction over customer complaints. The TBOUR now has the power to hear customer complaints for any utility under the Board, specifically related to complaints about rates, industry-standard policies, and failure to extend service to customers that have reasonable access to the utility.

The Utility District Revitalization Fund has also undergone expansion and is now called the Utility Revitalization Fund (“URF”). The grants from the URF can now be considered as operating revenue when determining financial distress. This expansion increases the flexibility of the fund's usage, as most grants in Tennessee are typically for capital purchases and do not provide cash for operating expenses. The inclusion of grants as operating revenue in the URF will help ease the merger for the acquiring entity.

Finally, this bill broadens the Board's ordered merger authority. The GA passed a bill last year that allowed for ordered mergers of financially distressed utility districts. This bill extends the Board's ordered merger authority to all utilities under the Board, regardless of financial standing because the mergers can result from an investigation, in addition to financial distress.

Noted Legislative activities within the last triennial period include the following:

- Public Chapter 657. This act makes the following changes to existing law: (1) requires municipal utility officials to file an annual statement of training and continuing education just as utility district and utility authority commissioners are currently required to do; (2) requires that any utility district or utility authority commissioner nominated for re-appointment must certify to the appointing county mayor that he or she has complied with the mandated continuing education requirements before re-appointment; (3) requires that any utility district commissioner seeking reelection must certify to the district that he or she has complied with mandated continuing education requirements before being placed on the ballot; (4) clarifies that municipal utility officials and utility district and utility authority commissioners must file annual training statements even in years where no training has been taken; and (5) requires that any utility district or municipal water utility which purchases more than 50% of its total water for resale must file a copy of the water purchase contract as part of the water utility's annual filing with the former UMRB or WWFB; (6) changes the current requirement for the reporting of water loss from including a water audit in the utility's annual audit to submitting the water loss on a form prepared by the Comptroller with the utility's annual filing with the former UMRB or WWFB. Effective date: March 15, 2022
- Public Chapter 757. This act authorizes the former UMRB to order the merger or consolidation of a financially distressed utility district with another utility district when the following conditions are met: (1) the former UMRB orders the financially distressed utility district to obtain a study from a qualified expert on the feasibility and benefit of the merger or consolidation; (2), a former UMRB representative holds a hearing on the merger or consolidation within the utility district's service area when

the study favors a merger or consolidation; (3) the former UMRB concludes, after an informal hearing, that the merger or consolidation is in the best interest of the public served by the financially distressed utility district and does not harm the public being served by the surviving utility district; (4) the utility districts voluntarily enter into a merger or consolidation agreement approved by the former UMRB or such an agreement is compelled by a local chancery court when no agreement can be reached. When an agreement is reached, the former UMRB will enter a merger or consolidation order similar to the merger or consolidation order issued by a county mayor. County mayor approval of the former UMRB's merger or consolidation order is not required. Existing law and this act authorize the creation of the utility district revitalization fund to mitigate the negative financial impact of such a merger or consolidation to the surviving utility district. The legislature appropriated \$2,000,000 to this fund in this session. Effective date: March 31, 2022.

- A law amendment was passed in the 2023 legislative session regarding cybersecurity for public utilities: Public Chapter 1111 Utilities, Utility Districts - As enacted, requires certain utilities to prepare and implement a cyber security plan to provide for the protection of the utility's facilities from unauthorized use, alteration, ransom, or destruction of electronic data and imposes certain requirements on the comptroller in regard to such plans; requires public utilities that provide electric, water, wastewater, or natural gas services to prepare and implement a cyber security plan and imposes certain requirements on the public utilities commission in regard to such plans. - Amends TCA Title 4; Title 7; Title 47, Chapter 18; Title 64; Title 65; Title 67 and Title 68. (SB2282/HB2346).
- Public Chapter 1111. This act requires public utilities to prepare and implement a cyber security plan for the protection of the utility's facilities from unauthorized use, alteration, ransom, or destruction of its electronic data. The initial plan must be developed by July 1, 2023. The Comptroller is charged with verifying compliance by the utilities, except for utilities subject to regulation by TPUC. Utilities subject to the former UMRB and WWFB will be referred to these boards for failure to comply and will be subject to reasonable sanctions by these boards for such failure. Effective date: June 1, 2022.

New System Compliance

In state FY 2021, one community water system was established, as a distinct operational area of an existing water system. TN0008295 - CARYVILLE-JACKSBORO UTILITIES #2, services the Stoney Fork community of Campbell county. There were five (5) transient non-community systems, and one (1) non-transient non-community system established.

Transient Non-Community

TN0005213 DOLLAR GENERAL STORE #21718 (Jefferson County)
TN0005214 DOLLAR GENERAL – PIPERTON (Fayette County)
TN0005215 DOLLAR GENERAL #16394 (Chester County)
TN0005216 DOLLAR GENERAL 22484 (Sevier County)
TN0005219 SASQUATCH FARM WATER SYSTEM (Marion County)

Non-Transient Non-Community

TN0005222 HYDRA POOLS (McMinn County)

In FY 2022 (July 2021-June 2022), no community water systems were established in Tennessee. There were two (2) new transient non-community water systems established including: TN0005223 INDIAN CREEK MARKET & DELI and TN0005225 ATHENS STOCKYARD WATER SYSTEM.

In **FY 2023** (July 2022-June 2023), two (2) community water systems and five (5) transient non-community water systems were established in Tennessee:

Community

TN0008296 - BACKWOODS CMPGD W.S. (Union County)
TN0008297 - VENUE @ 109 (Wilson County).

Transient Non-Community

TN0005223 - INDIAN CREEK MARKET & DELI (Jefferson Co.)
TN0005228 - HIDDEN ACRES RV PARK (Haywood Co.)
TN0005229 - COUNTRY VIEW RV PARK (Haywood Co.)
TN0005232 - DOLLAR GENERAL OAKLAND (Fayette Co.)
TN0005233 - DOLLAR GENERAL PALMERSVILLE (Weakley Co.)

One (1) of the public water systems established within this triennial period (last 3 fiscal years) and as aforementioned has exceeded the Enforcement Targeting Tool (ETT) score of 11. TN0005222 HYDRA POOLS obtained an ETT score of 17 at the end of March 2022. A Director's Order was issued on 06-JUL-22 and was appealed by the water system on 08-AUG-22.

Conclusion

Despite the challenges facing the water systems and Tennessee's Drinking Water Program, the success of the State's Capacity Development Strategy is encouraging. In fact, the

responses to the statewide drought event of 2007 and 2016 along with the 2010-thousand-year flood event and the 2019 floods, along with the 2020 tornados and 2021 ice storms have encouraged many water systems to work together and increase interconnections, examine regional approaches to water supply issues and collaborate more on compliance issues and new rules. Additionally, the Division's study of potential contaminants such as Harmful Algal Blooms, Legionella and per- and polyfluoroalkyl substances may help to provide assistance to water systems. At the heart of these activities is state oversight and assistance. Undoubtedly, such efforts represent increased opportunities for enhancing the capacity of systems to comply with the Safe Drinking Water Act and to better meet future drinking water needs. The Division also anticipates continuing work alongside the Department through the recommendations developed by subject matter experts and stakeholders to ensure Tennessee has abundant water resources for the future as developed in the 2018 TNH2O water plan, which the Department is reviewing again in fall of 2023.

Appendices:

- 1 – ETT Systems List 2021, 2022, 2023
- 2– 2022 Annual Compliance Report for Safe Drinking Water Act – *Separate Document*
- 3 – Systems with Significant Noncompliance in 1997 – 2007
- 4 – Capacity Development Plan Guidance Document
- 5 – Capacity Development Business Plan, Financial Self Assessment Manual
- 6 – DWSRF FY2022 Priority Ranking List – *Separate Document*
- 7 – Training Activities 2022-2023 (July 1, 2022-June 30, 2023) *Separate Document*
- 8 – TN Board of Utility Regulation (TBOUR) FY23 Financial Distress Cases – *Separate Document*
- 9 - TN Capacity Development Plan Asset Management Addendum

Glossary:

Community water systems (CWSs) are public water systems which serve at least fifteen (15) service connections used by year-round residents or regularly serve at least twenty-five (25) round-round residents.

Environmental Protection Fund (EPF) Act authorizes the department to assess fees (facility maintenance fees) for services provided.

Non-community water systems (NCWSs) are public water systems that are not community water systems.

Non-transient, non-community water systems (NTNCWs) are non-community water systems that regularly serve at least twenty-five (25) of the same persons over six (6) months per year.

Transient, non-community water systems (TNCWSs) are non-community water systems that regularly serve at least twenty-five (25) individuals daily at least sixty (60) days out of the year. A TNCWS is a public water supply system that generally serves a transient population such as hotels, motels, restaurants, camps, service stations, churches, commercial establishments and rest stops.

Appendix 1
Enforcement Targeting Tool (ETT) Systems List
2021/2022/2023
Scores 11 or more

ETT 2021 (through June 30, 2021)

PWSID	MA_NAME	ETT Score	
TN0000655	SPENCER WATER SYSTEM	23	DBP Standards (MCLs) violations, rTCR monitoring violations
TN0000912	DEERFIELD RESORT WATER SYSTEM	18	Chemical/DBP monitoring, Ground Water Rule Monitoring/Reporting, LCR Water Quality Parameters

ETT 2021 (through June 30, 2022)

Query1			
PWSID	System Name	ETT_Score	
TN0000912	DEERFIELD RESORT WATER SYSTEM	23	Failure to monitor/report
TN0000758	WOODLAWN UTILITY DISTRICT	18	Stage2 DBP MCL violations continuing from October 2021
TN0004634	USA RAFT	17	Failure to monitor/report for GWR and TCR
TN0004300	GLATFELTER SONTARA OLD HICKORY	17	Turbidity Treatment Technique violation
TN0000953	SOUTH SIDE U.D. #3	17	Stage2 DBP MCL violations continuing from October 2021
TN0000195	NORTH STEWART UTILITY DISTRICT	15	Stage 2 DBP MCL violations; TCR monitoring and PN violations
TN0005222	HYDRA POOLS	13	E.Coli MCL violation and Failure to monitor/report
TN0000845	JACKSON COUNTY UD #3	13	Stage 2 DBP MCL violations
TN0000531	CUMBERLAND UTILITY DISTRICT	12	Various monitoring/reporting and Public Notice violations
TN0002109	KELLOGG'S CONVENIENCE FOODS	11	Various monitoring/reporting and Public Notice violations
TN0000604	ST JOSEPH WATER SYSTEM	11	Various monitoring/reporting and Public Notice violations
TN0000596	LAKEVIEW UD WEST	11	Stage 2 DBP MCL and monitoring violations

ETT 2023 (through June 30, 2023)

PWSID	System Name	ETT_Score	Notes
TN0000517	BEDFORD COUNTY U.D.	39	LT2 Treatment Technique violations (7 months)
TN0005222	HYDRA POOLS	36	E.Coli MCL violation and Failure to monitor/report

PWSID	System Name	ETT_Score	Notes
TN0000531	CUMBERLAND UTILITY DISTRICT	28	Various monitoring/reporting and Public Notice violations
TN0000246	FRANKLIN WATER DEPT	22	Stage 2 MCL and Public Notice Violations
TN0000403	DOWELLTOWN-LIBERTY U.D.	21	Various M/R and Public Notice violations
TN0000096	CORDELL HULL UTILITY DISTRICT	21	Stage 2 MCL and Public Notice Violations
TN0000748	WHITEVILLE WATER DEPT	17	Various M/R and Public Notice violations
TN0000790	WILSON CO WATER & WASTEWATER		Stage 2 MCL Violations
TN0002109	KELLOGG'S CONVENIENCE FOODS	15	Various monitoring/reporting and Public Notice violations
TN0000912	DEERFIELD RESORT WATER SYSTEM	15	Failure to monitor/report
TN0000627	SHARON WATER SYSTEM	14	Various monitoring/reporting and Public Notice violations
TN0000514	ANDERSON COUNTY WATER AUTH	14	SWTR monitoring violations
TN0000740	WEST POINT U.D.	13	LCR, CCR and Public Notice violations
TN0000061	BLUFF CITY WATER DEPARTMENT	12	Various monitoring/reporting, Public Notice and CCR violations
TN0000962	DOALNARA RESTORATION SOCI USA	11	LCR and Public Notice violations
TN0000936	LAUREL MTN LAKES WATER ASSOC.	11	Various monitoring/reporting, LCR and CCR violations
TN0000802	PETERS HOLLOW WATER SYSTEM	11	Various monitoring/reporting, LCR and CCR violations
TN0000607	SAMBURG UTILITY DISTRICT	11	Various monitoring/reporting, Public Notice, LCR and CCR violations
TN0000557	WEST CUMBERLAND U.D.	11	RTCR and Public Notice violations
TN0000167	CUNNINGHAM UTILITY DISTRICT	11	Stage 2 MCL violaitons
TN0000119	CLIFTON WATER DEPT	11	SWTR Treatment Technique and Stage 2 MCL violations

Appendix 2
Annual Compliance Report
2022
Safe Drinking Water Act

Attached as separate document



Division of Water Resources

2022 Annual Compliance Report

Foreword

The 1996 Amendments of the Federal Safe Drinking Water Act requires States with drinking water primacy to prepare and submit to EPA an annual report regarding public water system violations. Further, the report is to be published and made available for public review. The Tennessee Department of Environment and Conservation, Division of Water Resources, has prepared this report to provide the required information to EPA and to the general population.

This year's report covers the calendar year 2022 and contains three major sections: a narrative description of the Division's oversight of public drinking water systems; a summary of violations regarding each contaminant (Appendix A); and a detailed listing of public drinking water systems with violations meeting the criteria to be included in the report (Appendix B). Only treatment technique, maximum contaminant level and significant monitoring violations that have not returned to compliance (i.e. violations that have not been corrected) occurring within or extending into 2022 are included.

Most of the water systems and operators in Tennessee are very conscientious about the quality of water provided to their customers. However, situations do occur that result in monitoring violations caused by either an oversight on the part of the water utility or due to newly implemented monitoring requirements or standards. Most of the health-based violations that occurred during 2022 were identified in the disinfection by product rules, where compliance with the standards is location specific.

The Division has worked with water utility managers/owners and operators to address each of the violations included in this report. Site visits and technical guidance are the first steps utilized by the Division to achieve compliance with the regulations. In certain situations, it becomes necessary to initiate formal enforcement action and establish compliance schedules to have a system return to compliance.

The Division hopes this report provides violation information in a concise and easy to understand manner. If you have questions concerning the information contained in this report, please contact your local water utility, the nearest Division's Regional Environmental Field Office at 1-888-891-8332, or the Nashville Central Office at 615-532-0625.

Safe Drinking Water Act

The Federal Safe Drinking Water Act (SDWA) was enacted in 1974 in order to assure that the public is provided with safe drinking water. Pursuant to the Safe Drinking Water Act and Amendments to the Act, national limits or standards were established on contaminant levels in drinking water to ensure that drinking water is safe for human consumption. Such standards are known as Maximum Contaminant Levels (MCLs).

The SDWA also establishes treatment techniques, in lieu of maximum contaminant levels, for certain contaminants that are difficult for laboratories to measure. For example, treatment techniques have been established for giardia lamblia, cryptosporidium, viruses, heterotrophic bacteria, Legionella, and turbidity. In addition, the SDWA regulates how frequently public water systems must monitor and report the results of monitoring for contaminants that may be present in the drinking water, as well as the effectiveness of treatment processes.

A public water system is required to monitor and verify that the levels of contaminants present in the water do not exceed an established maximum contaminant level. If a public water system fails to monitor as required or fails to report monitoring results correctly, then a monitoring or reporting violation occurs. Generally, the larger the population served by a water system, more frequent monitoring and reporting is required. Additionally, the SDWA requires public water systems to notify the public when they have violated these regulations. The 1996 Amendments to the SDWA require public notification to include a clear and understandable explanation of the nature of the violation, its potential adverse health effects, the steps that the public water system is undertaking to correct the violation and the possibility of alternative water supplies.

The SDWA applies to all fifty (50) States and U.S. territories and allows States and Territories to seek EPA approval to administer their own Public Water System Supervision Program. The authority given to a state to operate a Public Water System Supervision Program is called "Primacy". In order to receive primacy, a state must meet certain requirements specified in the SDWA and regulations promulgated pursuant to the Act. The State of Tennessee received primacy in 1977 and assumes primary enforcement responsibility for public water systems operating in Tennessee.

Public Water Systems

The SDWA defines a “public water system” as a system for the provision of water for human consumption through pipes or other constructed conveyances, if such system serves fifteen (15) or more service connections or which regularly serves twenty-five (25) or more individuals daily at least sixty (60) days out of the year. A public water system includes:

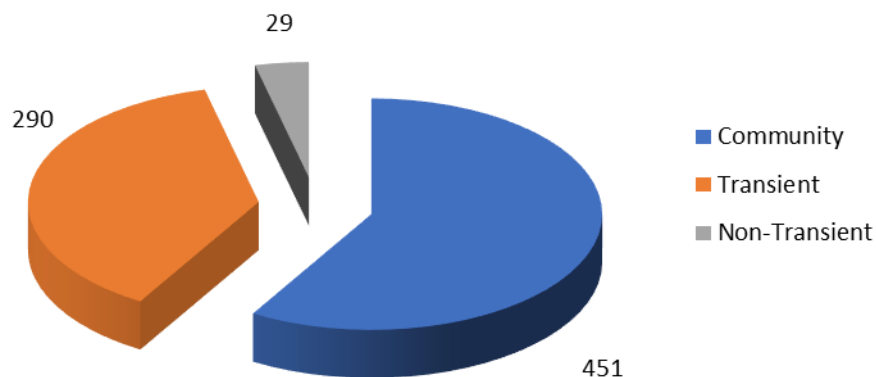
- (i) Any collection, treatment, storage, or distribution facility under control of the operator of such system and used primarily in connection with such system; and
- (ii) Any collection or pretreatment storage facility not under such control which is used primarily in connection with such system.

The Division of Water Resources currently possesses regulatory responsibility for approximately 770 public water systems throughout the state. A “Public Water System”, as defined above, is either a “community water system” or a “non-community water system”.

“Community Water System” means a public water system that serves at least fifteen (15) service connections used by year-round residents. Examples are municipalities and utility districts.

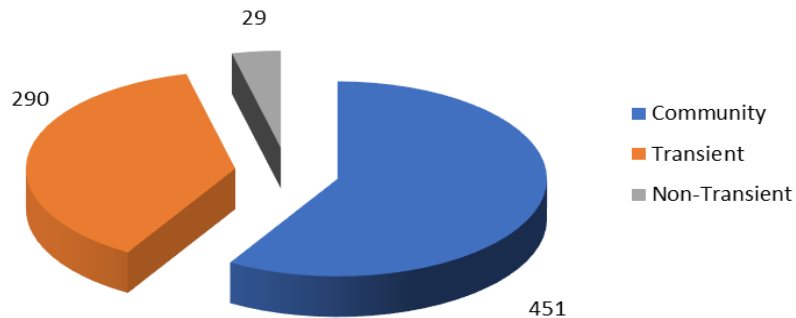
“Non-Community Water System” means a public water system that is not a community water system. This type of water system is further defined as either “Non-Transient”, serving the same people each day; and “Transient”, which serves a different group of people each day.

Tennessee Public Water Systems



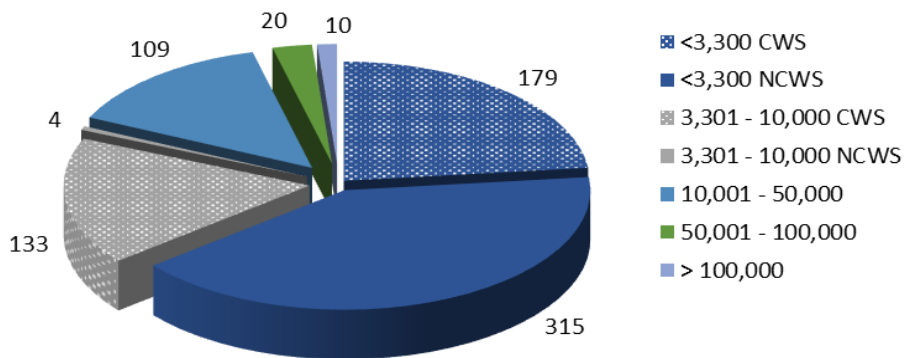
Combined, all of Tennessee public water systems (community, transient and non-transient) serve an estimated population of more than 7,450,000 individuals.

Tennessee Public Water Systems



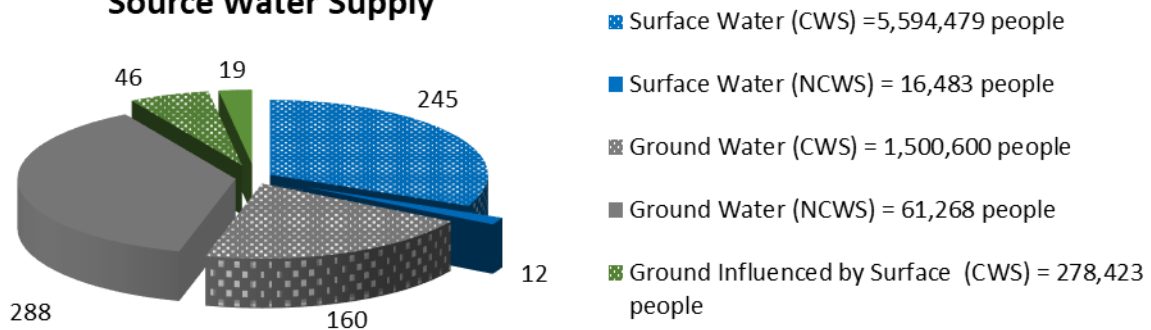
The 10 largest public water systems in Tennessee serve over 2,660,000 people. In contrast, there are 494 water systems, which serve less than 3,300 people each, providing drinking water to an estimated 289,000 people.

Population Categories



Public water systems utilizing ground water sources are the most prevalent in Tennessee. However, surface water is provided to most of Tennessee's population.

Source Water Supply



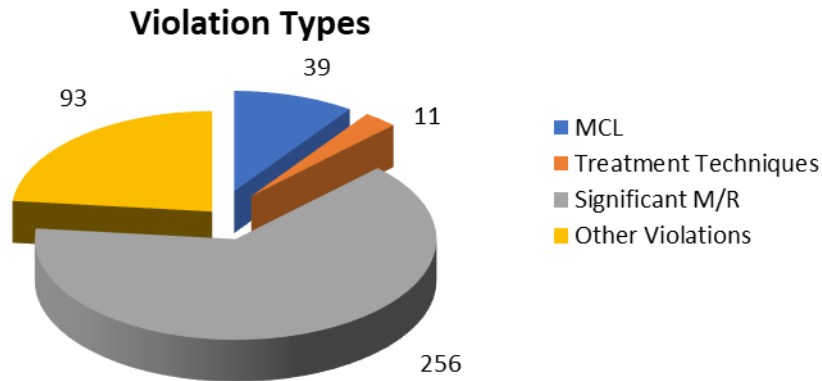
Violation Information

Primacy States, such as Tennessee, submit data to the EPA Safe Drinking Water Information System (SDWIS) on a quarterly basis. Data submissions include public water system inventory statistics, the incidence of Maximum Contaminant Level, Major Monitoring, and Treatment Technique violations, and the enforcement actions initiated against violators.

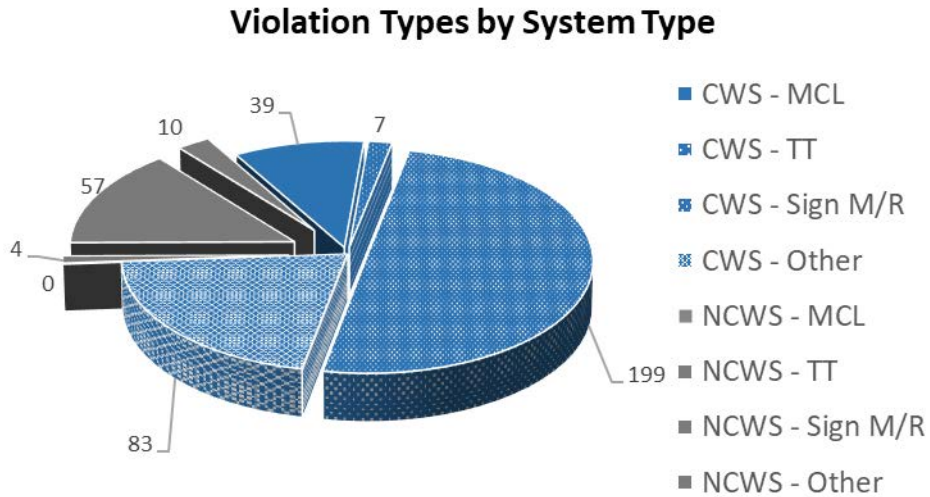
In addition to the quarterly data submittal to the EPA, the 1996 Amendments of the Federal SDWA require States with primacy to prepare and submit an annual report to EPA regarding public water system violations. Further, states with primacy are required to publish and distribute summaries of their reports. After the submittal of the state reports, EPA evaluates and summarizes the reports in an annual national report.

The Annual Compliance Reports, submitted by the Division to both the public and EPA are required to encompass violations pertaining to (1) maximum contaminant levels, (2) treatment requirements, (3) variances and exemptions, and (4) significant monitoring and reporting violations. This report includes those violation types listed above, that occurred during the 2022 calendar year, or were identified prior to calendar year 2022 and remain uncorrected into 2022. It is important to note that the State of Tennessee does not utilize variances and/or exemptions with respect to primary drinking water regulations.

For the calendar year 2022, a total of 399 individual violations met the criteria to be included in this year's report.



Reviewing the violation data in further detail, indicates that the majority of the violations were incurred by Community Water Systems. The ratio of MCL and Treatment Technique violations to Significant Monitoring and Other violations is relatively consistent between both types of water systems.



Appendix A to this report provides a summary compilation of violations regarding each contaminant. Appendix B provides a detailed listing of public water systems with significant monitoring, significant reporting, treatment technique and MCL violations.

Definitions

To aid in the interpretation and understanding of the data included in this year's report, the following definitions are offered:

Consumer Confidence Report (CCR): By July 1st of each year, every community public water system is required to prepare and distribute a CCR to customers served by the system. The report is required to contain information including the system's source of water, contaminants detected in the water, potential health effects information, mechanisms for customers to influence decisions made by the water system and any violations of drinking water standards that may have occurred during the previous calendar year.

Ground Water Rule (GWR): Establishes requirements to ensure protection from microbiological pathogens in true ground water sources.

"Ground water under the direct influence of surface water" means any water beneath the surface of the ground with (1) significant occurrence of insects or other macroorganisms, algae, or other large diameter pathogens such as *Giardia lamblia*, or (2) significant and relatively rapid shifts in water characteristics such as turbidity, temperature, conductivity, or pH which closely correlate to climatological or surface water conditions. Direct influence must be determined for individual sources.

Inorganic Contaminants: Non-carbon-based compounds such as metals, nitrates, and asbestos. These contaminants are naturally occurring in some water but can gain access through farming practices, chemical manufacturing, and other human activities.

Long Term 1 Enhanced Surface Water Treatment Rule (LT1 ESWTR): Establishes criteria that water systems supplied by surface water or ground water under the direct influence of surface water must meet.

Long Term 2 Enhanced Surface Water Treatment Rule (LT2 ESWTR): Expands on the LT1 rule with microbiological pathogen monitoring at the source, prior to treatment.

"Maximum Contaminant Level (MCL)" means the maximum permissible level of a contaminant in water which is delivered at the free flowing outlet of the ultimate user of a public water system, except in the case of turbidity and other contaminants so designated where the maximum permissible level is measured at the point of entry into the distribution system. Contaminants added to the water under circumstances controlled by the user, except those resulting from corrosion of piping and plumbing caused by water quality, are excluded from this definition.

Monitoring Waiver: Permission or consent conveyed to a public water system by the Division of Water Resources upon satisfactory completion of criteria established and necessary to obtain such waiver.

Organic Contaminants: Carbon based compounds, such as industrial solvents and pesticides. These contaminants generally gain access to water through runoff from cropland or discharge from factories.

Public Notification Rule: Violations of the Safe Drinking Water Act require public water systems to notify their customers. Violations are categorized by Tier level, and public notice is required to be issued within 24 hours for Tier 1 violations (Acute MCL and certain Treatment Technique violations), within 30 days for Tier 2 violations (Non-Acute MCL and most Treatment Technique violations) and within 1 year for Tier 3 violations (Monitoring, Reporting and Recordkeeping). Failure to issue a Public Notice as required will result in a violation of the Rule.

Revised Total Coliform rule: Effective on April 1, 2016, revisions to the existing Total Coliform Rule required water systems to revise their bacteriological sampling plans, modified the existing Total MCL to an E.coli MCL, added treatment technique violations, and assessment requirements following certain conditions.

“Significant Monitoring Violations” are generally defined as a monitoring violation that occurred when no samples were taken, or no results were reported during a compliance period.

Stage 1 Disinfection/Disinfectant Byproducts Rule (DBP): Establishes requirements to provide protection from microbiological pathogens and limit the amount of disinfection byproducts delivered to the consumer.

Stage 2 Disinfection/Disinfectant Byproducts Rule (ST 2 DBP): Expands on the Stage 1 rule by requiring a comprehensive distribution system analysis and monitoring at specific locations.

Surface Water Treatment Rule (SWTR): Establishes criteria under which water systems supplied by surface water or ground water under the direct influence of surface water must provide filtration as a treatment technique.

Treatment Technique: A water treatment process or procedure that is required instead of a maximum contaminant level for contaminants that laboratories cannot adequately measure.

Trihalomethanes (THMs) and Haloacetic Acids (HAAs): Disinfection by-products produced as a result of the interaction of a disinfectant (chlorine) with naturally occurring organic material that may be present in the water.

MICROBIOLOGICAL DATA

Microbiological contaminant sampling is conducted by all public water systems in Tennessee to detect biological contaminants that may be present in drinking water. All community public water systems (CWSs) must conduct monitoring on a monthly basis with the number of samples based on the population served. At a minimum, non-community water systems (NCWSs) must monitor each calendar quarter. Non-community systems that serve more than one thousand (1,000) persons, utilize a ground water source under the direct influence (GWUDI) of surface water or utilize surface water in total or in part must monitor on a monthly basis.

The Revised Total Coliform Rule became effective April 1, 2016 and modified several elements of the bacteriological sampling and monitoring requirements. The rule established Treatment Technique violations based on total coliforms and the presence of E.coli, and an MCL for E.coli. Assessments and corrective actions are required based on monitoring results reported, and seasonal Non-Community water systems are required to perform startup procedures prior to opening for the season.

All samples containing total coliforms must be analyzed for the presence of E.coli bacteria. The results of all routine and repeat samples are included in determining compliance with treatment techniques, which may identify the need for corrective actions and assessments. The maximum contaminant level is based on the presence or absence of E.coli in a sample.

If any repeat sample is E.coli-positive, or if any repeat sample is total coliform-positive following an E.coli-positive routine sample, an E.coli MCL violation is incurred. For systems which collect forty (40) or more samples per month, if greater than five (5) percent of samples collected yield total coliform-positive results, the water system is required to perform a Level 1 assessment. Further, for systems collecting fewer than forty (40) samples per month, if more than one (1) sample collected yields a total coliform-positive the water system is required to perform a Level 1 assessment. For systems that incur an E.coli MCL violation, a Level 2 assessment must be conducted.

Failure by a public water system to perform the required monitoring, corrective action, or assessment constitutes a significant monitoring violation.

During the calendar year 2022, one (1) water system incurred an MCL Treatment Technique violation under the Total Coliform Rules. Appendix B provides detail information for significant monitoring violations of the Total Coliform Rules.

SURFACE WATER TREATMENT RULES

The Enhanced Surface Water Treatment Rule (ESWTR), the Long Term 1 Enhanced Surface Water Treatment Rule (LT1 ESWTR) and the Long Term 2 Surface Water Treatment Rule (LT2SWTR) utilizes and establishes treatment techniques in lieu of maximum contaminant levels for Giardia lamblia, cryptosporidium, viruses, heterotrophic plate count bacteria, Legionella, and turbidity. Treatment techniques are water treatment processes employed for the treatment and/or removal of contaminants in lieu of establishing a Maximum Contaminant Level for contaminants that are very difficult to measure. In accordance with such requirements, water systems supplied by surface water or ground water sources under the direct influence of surface water must utilize water treatment processes (filtration and disinfection) that will achieve removal of cryptosporidium and/or inactivation of Giardia lamblia cysts and viruses. Water systems must perform analyses of the water in order to ensure the proper operation and effectiveness of the filtration and disinfection treatment.

In accordance with the Enhanced Surface Water and Long Term 1 Enhanced Surface Water Treatment Rules, water systems must monitor the water for turbidity (cloudiness of the water) and disinfectant residual. If a water system fails to conduct required monitoring or fails to monitor and report less than ninety (90) percent of the required samples, as determined by population served and duration of water plant operation, then a significant monitoring violation is incurred. If a water system conducts required monitoring and reporting and the results reveal that less than ninety-five (95) percent of samples collected met the turbidity standard or disinfectant residual standard, then a treatment technique violation is incurred. Additionally, if a water system utilizing surface water or ground water under the direct influence of surface water fails to meet all criteria to avoid filtration treatment and does not install the necessary filtration treatment within the allowable eighteen (18) month deadline, then a violation is incurred regarding the failure to filter requirement.

The goal of the Long Term 2, Surface Water Treatment Rule is to reduce the risk of disease caused by Cryptosporidium and other microorganisms by identifying those systems at the greatest risk for source water contamination. Under this rule, most filtered systems were required to conduct an initial round of sampling of their untreated source water for the presence of Cryptosporidium and/or E.coli bacteria. Results from this initial round were used to determine if additional treatment of the source water was required. The second round of source water monitoring is complete for most public water systems in Tennessee.

Treatment technique and significant monitoring violations pertaining to any of the applicable Surface Water Treatment Rules are included in the detailed listing of violations provided in Appendix B.

INORGANIC CONTAMINANTS VIOLATIONS

Inorganic contaminant sampling is conducted by all public water systems in Tennessee to detect inorganic contaminants such as metals, nitrates or asbestos that may be present in the drinking water. Maximum contaminant levels have been established for inorganic contaminants and monitoring determines compliance with such standards. Monitoring intervals for inorganic contaminants are determined considering the type of source water utilized by the public water system with the exceptions of nitrate and asbestos. Monitoring to determine compliance with the maximum contaminant level for nitrate may be conducted no less frequently than annually. Monitoring to determine compliance with the maximum contaminant level for asbestos is conducted with consideration to population served and the vulnerability of the system to asbestos contamination (asbestos-cement piping, etc.).

During the calendar year 2022, there were no public water systems that incurred a maximum contaminant level violation regarding inorganic contaminants. Significant monitoring violations pertaining to any of the inorganic contaminants are included in the detailed listing of violations provided in Appendix B.

ORGANIC CONTAMINANTS VIOLATIONS

Organic contaminant sampling is conducted by all community and certain non-community public water systems in Tennessee, which have not received a waiver of the monitoring requirements, to detect any organic contaminants such as solvents or pesticides which may be present in the drinking water. Maximum contaminant levels have been established for organic contaminants and monitoring determines compliance with such standards. Monitoring intervals for organic contaminants are determined considering the type of source water utilized and the type of population served by the public water system. Water systems that conduct monitoring for organic contaminants and do not detect a contaminant may reduce the sampling frequency regarding organic contaminants or request permission from the State to reduce sampling frequency.

During the calendar year 2022, there were no public water systems that incurred a maximum contaminant level violation regarding organic contaminants. Significant monitoring violations pertaining to any of the organic contaminants are included in the detailed listing of violations provided in Appendix B.

DISINFECTION BY-PRODUCT and BY-Product PRECURSOR VIOLATIONS

Trihalomethane (THM) and haloacetic acid (HAA5) sampling is conducted by all community public water systems in Tennessee. Trihalomethanes and haloacetic acids are disinfection by-products that are produced as the disinfectant (chlorine) reacts with naturally occurring organic matter, such as leaf litter, which may be present in the water. Monitoring is conducted to detect the presence of trihalomethanes or haloacetic acids in the drinking water. A maximum contaminant level has been established for both total trihalomethanes and total haloacetic acids and monitoring determines compliance with the standards. Monitoring is conducted for both TTHMs and HAA5 generally on a quarterly basis and on each water treatment plant used by a system. Other monitoring schedules may be followed depending on the size of the system and the type of source water.

The standard or maximum contaminant level for TTHMs is 80 parts per billion (ppb) while the standard for HAA5 is 60 ppb. Compliance with MCLs is determined at each sampling location individually and is calculated as a running annual average of the results reported for the current and prior 3 quarters.

MCL and significant monitoring violations pertaining to disinfectants, disinfection by-products and disinfection by-product precursors are included in the detailed listing of violations provided in Appendix B.

LEAD AND COPPER VIOLATIONS

Lead and Copper sampling is conducted by all community and certain non-community public water systems in Tennessee at high-risk sites to detect excessive levels of lead and/or copper in drinking water. The maximum allowable concentrations of lead and/or copper in drinking water are denoted as “action levels”. Treatment techniques have been established that include requirements for corrosion control treatment, source water treatment, lead service line replacement and public education for systems which exceed the action levels for lead and/or copper. Tap water monitoring determines compliance with such standards. The results for each location are required to be presented to the property owner within 30 days of receipt. Initial tap water monitoring is conducted for lead and copper on six (6) month monitoring intervals. If a water system meets the action levels for lead and copper during each of two (2) consecutive six (6) month monitoring periods, or maintains optimal corrosion control, the system may request and be granted reduced monitoring frequencies.

Violations for failure to monitor under the Lead and Copper Rule during the calendar year 2022, are included in the detailed listing of violations provided in Appendix B.

CONSUMER CONFIDENCE REPORT VIOLATIONS

Beginning in 1998, community public water systems were required to furnish a report to customers with information about the water being furnished. Included in this report is the source of water for the local water utility, certain health effects language, information concerning contaminants detected, and information on violations that may have occurred during the previous calendar year. There is also information on the time and location of any board meetings to promote public participation in the decision-making process of the water utility.

All systems serving 10,000 or more persons are required to furnish a copy of the report to each customer and the Division of Water Resource by July 1 each year. Systems serving less than 10,000 persons are given the option to notify their customers that the report will be published in a newspaper serving the local area. Even though the report is published in the paper, the water utility is required to furnish an individual copy of the report to any person requesting a copy.

During the calendar year 2022, there were 6 public water systems that incurred a significant reporting violation under the Consumer Confidence Report rule.

RADIONUCLIDE VIOLATIONS

Public water systems are required to monitor for certain naturally occurring and man-made radionuclides to ensure the water being provided to their customers meet standards. Radionuclide samples are collected every quarter with the results being the average of all the quarterly samples.

During the calendar year 2022, one (1) public water system incurred a significant monitoring violation for Radionuclide parameters.

GROUND WATER RULE

The Ground Water Rule is part of the “Microbial-Disinfectants/Disinfection Byproducts Cluster” (M-DBP Cluster), intended to improve control of microbial pathogens while minimizing public health risks of disinfectants and disinfection byproducts (DBPs). The GWR builds upon the Total Coliform Rule by addressing the health risks of fecal contamination in community and non-community water systems that use ground water. Key provisions of the rule include; compliance monitoring to ensure that treatment technologies installed to treat drinking water reliably achieves at least 99.99 percent (4-log) inactivation or removal of viruses; triggered source water monitoring to test for the presence of fecal indicators; and, requirements to correct significant deficiencies and eliminate fecal contamination through specified actions.

During the calendar year 2022, two (2) water systems incurred treatment technique violations, and five (2) water systems incurred significant monitoring violations under the GWR.

**DIVISION OF WATER RESOURCES
ENFORCEMENT ACTION
SUMMARY**

The Department of Environment and Conservation and the Division of Water Resources are both granted authority by the Tennessee Safe Drinking Water Act, to initiate enforcement action and issue administrative orders regarding violations of the Tennessee Safe Drinking Water Act.

In order to address non-compliance issues the Division of Water Resources utilizes a number of enforcement mechanisms which include: Compliance Status Notifications, Notices of Violation (NOVs) and/or Notices of Non- Compliance (NONCs); technical assistance and training; Compliance Review (CRM) and/or Show Cause meetings (SCM); and issuance of administrative orders and assessments which contain monetary civil penalties.

The Division initially attempts to assist water systems with violations achieve compliance through a system of official notifications, technical assistance and training, on-site inspections, and compliance review meetings. Under certain circumstances, water systems are provided the opportunity to execute a Letter of Agreement (LOA) indicating an understanding of noncompliance issues and conveying an agreement to undertake the necessary actions to prevent a recurrence of non-compliance. In situations where the division has issued notifications, conducted technical assistance and/or on-site inspections or conducted compliance assessment meetings and violations are not addressed by the water utility or are not addressed in a timely manner, enforcement action in the form of an Administrative Order (AO) is customarily recommended and/or initiated. Such Administrative Orders contain monetary civil penalties assessed for violations and mandate that compliance be achieved.

Most violations incurred by water utilities are addressed and corrected prior to the necessity for issuance of an Administrative Order. With technical assistance and training provided by the division, most water systems can return to compliance. However, there are water systems that incurred violations that were not adequately addressed or corrected making an Administrative Order warranted. The Administrative Orders encompassed a variety of violations including those contained in this Annual Report of Violations.

State of Tennessee
Division of Water Resources
2022 Annual Compliance Report
Violations Summary
Appendix A

State of Tennessee
2022 Annual Compliance Report
Violations Summary

	MCL Violations		Treatment Technique Violations		Significant Monitoring Violations		Individual Systems in Violation ¹
	Number of Violations	Number of Systems	Number of Violations	Number of Systems	Number of Violations	Number of Systems ¹	
Volatile Organics	0	0			63	3	3
Synthetic Organics	0	0			19	11	11
Inorganics	0	0			31	17	18
Radionuclides	0	0			3	1	1
Revised Total Coliform Rule	0	0	1	1	42	32	32
Surface Water Treatment Rules			4	2	2	1	3
D/DBP Rules (Stages 1 & 2)	39	18	0	0	60	27	43
Filter Backwash Recycle Rule			0	0	0	0	0
Lead and Copper Rule			0	0	39	35	35
Consumer Confidence Reports					28	28	28
Public Notification Rule					35	30	30
Ground Water Rule			6	4	12	4	8
Violations in 2022	39		11		334		
Number of Individual Systems in Violation per Violation Type		18		6		138	
Number of Individual Systems in Violation for All Rules	152						


 Shaded Area Indicates Violation Type Not Applicable to Rule

1. Although a public water system may be out of compliance with more than one contaminant group or rule, when calculating totals, it's counted no more than once. Consequently, the sum of the number of water systems in violation, over the various contaminant groups or rules, may not add up to the total.

For detailed information see Appendix B.

State of Tennessee
2022 Annual Compliance Report
Total Coliform Rules (TCR and RTCR)
Violations Summary

SDWIS Codes	MCL	MCL Violations		Treatment Technique Violations		Significant Monitoring Violations		
		Number of Violations	Number of Systems ¹	Number of Violations	Number of Systems	Number of Violations	Number of Systems ¹	
<u>Revised Total Coliform Rule²</u>								
1A	E.Coli MCL	Presence	1	1				
2A, 2B, 2C, 2D	Treatment Techniques				0	0		
3A, 3B, 3C, 3D	Monitoring						42	32
4A, 4B, 4C, 4D, 4E, 4F	Reporting						0	0
5A, 5B	Record Keeping						0	0
Total Number of Violations			1		0		42	
Number of Individual Systems With Violations ¹				1		0		32
Total Number of TCR/rTCR Violations			43					
Total Number of Individual Systems With TCR /rTCR Violations ¹			33					

 Shaded Area Indicates Violation Type Not Applicable to Rule

1. Although a public water system may be out of compliance with more than one contaminant group or rule, when calculating totals, it's counted no more than once. Consequently, the sum of the number of water systems in violation, over the various contaminant groups or rules, may not add up to the total.

For detailed information see Appendix B

State of Tennessee
2022 Annual Compliance Report
Surface Water Treatment Rules (SWTR / IESWTR / LT2ESWTR)
Violations Summary

SDWIS Codes	Violation	MCL	MCL Violations		Treatment Technique Violations / Health Based		Significant Monitoring Violations	
			Number of Violations	Number of Systems	Number of Violations	Number of Systems	Number of Violations	Number of Systems ¹
Surface Water Treatment Rule (SWTR)								
36	SWTR Monitoring						2	1
41	Treatment Technique				3	1		
42	Failure to Filter				0	0		
Interim Enhanced SWTR (IESWTR)								
09	Record Keeping for Individual Filter						0	0
29	Filter Exceedance Follow-Up Reports						0	0
38	Routine Monitoring						0	0
43	Single Combined Filter Effluent				0	0		
44	Monthly Combined Filter Effluent				1	1		
LT2 Enhanced SWTR (LT2EWSTR)								
32	Source Water Monitoring /Plan							
33	BIN Report (Health Based)				0	0		
41	Fail to Maintain Microbial Treatment				0	0		
Total Number of Violations					4		2	
Number of Individual Systems With Violations						2		1
Total Number of SWTR Violations			6					
Total Number of Individual Systems With SWTR Violations			3					


 Shaded Area Indicates Violation Type Not Applicable to Rule

- Although a public water system may be out of compliance with more than one contaminant group or rule, when calculating totals, it's counted no more than once. Consequently, the sum of the number of water systems in violation, over the various contaminant groups or rules, may not add up to the total.

For detailed information see Appendix B

State of Tennessee
2022 Annual Compliance Report
Inorganic Contaminants (IOCs)
Violations Summary

SDWIS Codes	Inorganic Contaminants	MCL ¹	MCL Violations		Treatment Technique Violations		Significant Monitoring Violations	
			Number of Violations	Number of Systems	Number of Violations	Number of Systems	Number of Violations	Number of Systems ²
1074	Antimony	0.006	0	0			1	1
1005	Arsenic	0.05	0	0			1	1
1094	Asbestos	7 million fibers/liter	0	0			2	2
1010	Barium	2	0	0			1	1
1075	Beryllium	0.004	0	0			1	1
1015	Cadmium	0.005	0	0			1	1
1020	Chromium	0.1	0	0			1	1
1024	Cyanide (as free Cyanide)	0.2	0	0			1	1
1025	Fluoride	4.0	0	0			1	1
1035	Mercury	0.002	0	0			1	1
1036	Nickel	0.1	0	0			1	1
1040	Nitrate	10 (as nitrogen)	0	0			18	16
1038	Total Nitrate, Nitrite	10 (as nitrogen)	0	0			0	0
1041	Nitrite	10 (as nitrogen)	0	0			0	0
1045	Selenium	0.05	0	0			1	1
1085	Thallium	0.002	0	0			1	1
Total Number of Violations			0				32	
Number of Individual Systems in Violation				0				17
Total Number of Individual Systems With Inorganic Violations			17					

 Shaded Area Indicates Violation Type Not Applicable to Rule

1. Values are in Milligrams per Liter (mg.L), unless otherwise specified.
2. Although a public water system may be out of compliance with more than one contaminant group or rule, when calculating totals, it's counted no more than once. Consequently, the sum of the number of water systems in violation, over the various contaminant groups or rules, may not add up to the total.

For detailed information see Appendix B


State of Tennessee
2022 Annual Compliance Report
Synthetic Organic Contaminants (SOCs)
Violations Summary

SDWIS Codes	Synthetic Organic Chemicals	MCL ¹ .	MCL Violations		Treatment Technique Violations		Significant Monitoring Violations	
			Number of Violations	Number of Systems	Number of Violations	Number of Systems	Number of Violations	Number of Systems ² .
2931	1,2-Dibromo-3-chloropropane (DBCP)	0.0002	0	0			0	0
2063	2,3,7,8-TCDD (Dioxin)	3x10 ⁻⁶	0	0			0	0
2110	2,4,5-TP	0.05	0	0				
2105	2,4-D	0.07	0	0			1	1
2265	Acrymalide				0	0		
2051	Alachlor	0.002	0	0			3	3
2050	Atrazine	0.003	0	0			11	11
2306	Benzo(A)pyrene	0.0002	0	0			0	0
2046	Carbofuran	0.04	0	0			0	0
2959	Chlordane	0.002	0	0			0	0
2031	Dalapon	0.2	0	0			0	0
2035	Di(2-ethylhexyl)adipate	0.4	0	0			0	0
2039	Di(2-ethylhexyl)phthalate	0.006	0	0			0	0
2041	Dinoseb	0.007	0	0			0	0
2032	Diquat	0.02	0	0			0	0
2033	Endothall	0.1	0	0			0	0
2005	Endrin	0.002	0	0			0	0
2257	Epichlorohydrin				0	0		
2946	Ethylene dibromide (EDB)	0.00005	0	0			0	0
2034	Glyphosate	0.7	0	0			0	0

(Continued on next page)

State of Tennessee
2022 Annual Compliance Report
Synthetic Organic Contaminants (SOCs)
Violations Summary

SDWIS Codes	Synthetic Organic Chemicals	MCL ¹ .	MCL Violations		Treatment Technique Violations		Significant Monitoring Violations	
			Number of Violations	Number of Systems	Number of Violations	Number of Systems	Number of Violations	Number of Systems ² .
2065	Heptachlor	0.0004	0	0			0	0
2067	Heptachlor epoxide	0.0002	0	0			0	0
2274	Hexachlorobenzene	0.001	0	0			0	0
2042	Hexachlorocyclopentadiene	0.05	0	0			0	0
2010	Lindane	0.0002	0	0			0	0
2015	Methoxychlor	0.04	0	0			0	0
2036	Oxamyl (Vydate)	0.2	0	0			0	0
2326	Pentachlorophenol	0.001	0	0			0	0
2040	Picloram	0.5	0	0			0	0
2383	Polychlorinated biphenyls	0.0005	0	0			0	0
2037	Simazine	0.004	0	0			4	4
2020	Tozaphene	0.003	0	0			0	0
Number of Violations			0		0		19	
Number of Individual Systems in Violation				0		0		11
Total Number of Violations			19					
Total Number of Individual Systems In Violation			11					

 Shaded Area Indicates Violation Type Not Applicable to Rule

1. Values are in Milligrams per Liter (mg.L), unless otherwise specified.
2. Although a public water system may be out of compliance with more than one contaminant group or rule, when calculating totals, it's counted no more than once. Consequently, the sum of the number of water systems in violation, over the various contaminant groups or rules, may not add up to the total.

For detailed information see Appendix B

State of Tennessee
2022 Annual Compliance Report
Volatile Organic Contaminants (VOCs)
Violations Summary

SDWIS Codes	Volatile Organic Chemicals	MCL ¹ .	MCL Violations		Treatment Technique Violations		Significant Monitoring Violations	
			Number of Violations	Number of Systems	Number of Violations	Number of Systems	Number of Violations	Number of Systems ²
2977	1,1-Dichloroethylene	0.007	0	0			3	3
2981	1,1,1-trichloroethane	0.2	0	0			3	3
2985	1,1,2-trichloroethane	0.005	0	0			3	3
2980	1,2-dichloroethane	0.005	0	0			3	3
2983	1,2-dichloropropane	0.005	0	0			3	3
2378	1,2,4-trichlorobenzene	0.07	0	0			3	3
2990	Benzene	0.005	0	0			3	3
2982	Carbon Tetrachloride	0.005	0	0			3	3
2380	Cis-1,2-Dichloroethylene	0.07	0	0			3	3
2964	Dichloromethane	0.005	0	0			3	3
2992	Ethylbenzene	0.7	0	0			3	3
2989	Monochlorobenzene	0.1	0	0			3	3
2968	o-Dichlorobenzene	0.6	0	0			3	3
2969	Para-dichlorobenzene	0.075	0	0			3	3
2996	Styrene	0.1	0	0			3	3
2987	Tetrachloroethylene	0.005	0	0			3	3
2991	Toluene	1	0	0			3	3
2979	Trans-1,2-Dichloroethylene	0.1	0	0			3	3
2984	Trichloroethylene	0.005	0	0			3	3
2976	Vinyl chloride	0.002	0	0			3	3
2955	Xylenes (total)	10	0	0			3	3
Number of Violations			0				63	
Number of Individual Systems in Violation				0				3
Total Number of Violations			63					
Total Number of Individual Systems In Violation			3					


 Shaded Area Indicates Violation Type Not Applicable to Rule

1. Values are in Milligrams per Liter (mg.L), unless otherwise specified.
2. Although a public water system may be out of compliance with more than one contaminant group or rule, when calculating totals, it's counted no more than once. Consequently, the sum of the number of water systems in violation, over the various contaminant groups or rules, may not add up to the total.

For detailed information see Appendix B

State of Tennessee
2022 Annual Compliance Report
Disinfectants and Disinfection Byproducts Rules (D/DBP)
Violations Summary

SDWIS Codes		MCL ¹ .	MCL Violations		Treatment Technique Violations		Significant Monitoring Violations	
			Number of Violations	Number of Systems	Number of Violations	Number of Systems	Number of Violations	Number of Systems ² .
Stage 1 (D/DBP)								
0400	Disinfection Byproduct Monitoring				0	0		
0999	Chlorine (MRDL)		0	0			0	0
1009	Chlorite		0	0			0	0
2920	Total Organic Carbon				0	0	4	4
Stage 2 (D/DBP)								
2456	Total Haloacetic Acids	0.060	18	10			28	25
2950	Total Trihalomethanes	0.080	21	12			28	25
Number of Violations			39		0		60	
Number of Individual Systems in Violation				18		0		28
Total Number of Violations			99					
Total Number of Individual Systems In Violation			43					


 Shaded Area Indicates Violation Type Not Applicable to Rule

1. Values are in Milligrams per Liter (mg.L), unless otherwise specified.
2. Although a public water system may be out of compliance with more than one contaminant group or rule, when calculating totals, it's counted no more than once. Consequently, the sum of the number of water systems in violation, over the various contaminant groups or rules, may not add up to the total.

For detailed information see Appendix B

State of Tennessee
2022 Annual Compliance Report
Lead and Copper Rule
Violations Summary

SDWIS Codes	Lead and Copper Rule	MCL ¹ .	MCL Violations		Treatment Technique Violations		Significant Monitoring Violations	
			Number of Violations	Number of Systems	Number of Violations	Number of Systems	Number of Violations	Number of Systems ³ .
51	Initial Lead and Copper Tap M/R ²						1	1
52	Follow-up or Routine Tap M/R						8	8
53	Water Quality Parameters						0	0
57	Optimal Corrosion Control / Source Water Treatment Study						0	0
58	Optimal Corrosion Control / Source Water Treatment Demonstration				0	0		
65	Public Education							
66	Consumer Notice						30	30
Number of Violations					0		39	
Number of Individual Systems in Violation						0		37
Total Number of Violations			39					
Total Number of Individual Systems In Violation			37					

 Shaded Area Indicates Violation Type Not Applicable to Rule

1. Values are in Milligrams per Liter (mg.L), unless otherwise specified.
2. Monitoring / Reporting Violation (M/R)
3. Although a public water system may be out of compliance with more than one contaminant group or rule, when calculating totals, it's counted no more than once. Consequently, the sum of the number of water systems in violation, over the various contaminant groups or rules, may not add up to the total.

For detailed information see Appendix B

State of Tennessee
2022 Annual Compliance Report
Consumer Confidence Reports (CCR)
Violations Summary


SDWIS Codes	Consumer Confidence Report	Number of Violations	Number of Systems
71	Failure to Provide CCR	28	28

1. Although a public water system may be out of compliance with more than one contaminant group or rule, when calculating totals, it's counted no more than once. Consequently, the sum of the number of water systems in violation, over the various contaminant groups or rules, may not add up to the total.

For detailed information see Appendix B

State of Tennessee
2022 Annual Compliance Report
Radionuclides
Violations Summary

SDWIS Codes	Radionuclides	MCL	MCL Violations		Treatment Technique Violations		Significant Monitoring Violations	
			Number of Violations	Number of Systems	Number of Violations	Number of Systems	Number of Violations	Number of Systems ¹
4000	Gross Alpha	3 pCi/L	0	0			1	1
4020	Radium-226	1 pCi/L	0	0			1	1
4030	Radium-228	1 pCi/L	0	0			1	1
4006	Combined Uranium	1/10 th MCL	0	0			0	0
Number of Violations			0				3	
Number of Individual Systems in Violation				0				1
Total Number of Violations			3					
Total Number of Individual Systems In Violation			1					

 Shaded Area Indicates Violation Type Not Applicable to Rule

1. Although a public water system may be out of compliance with more than one contaminant group or rule, when calculating totals, it's counted no more than once. Consequently, the sum of the number of water systems in violation, over the various contaminant groups or rules, may not add up to the total.

For detailed information see Appendix B

State of Tennessee
2022 Annual Compliance Report
Public Notification Rule (PN)
Violations Summary

SDWIS Codes	Public Notification Violations	Number of Violations	Number of Systems
75	Failure to Provide Public Notice	35	30

For detailed information see Appendix B

State of Tennessee
2022 Annual Compliance Report
Ground Water Rule (GWR)
Violations Summary

SDWIS Codes	Ground Water Rule Violations	MCL	MCL Violations		Treatment Technique Violations		Significant Monitoring Violations	
			Number of Violations	Number of Systems	Number of Violations	Number of Systems	Number of Violations	Number of Systems ¹ .
31, 34	Monitoring Violation						12	4
41, 45	Treatment Technique				6	4		
Total Number of Violations			10					
Total Number of Individual Systems In Violation			8					

 Shaded Area Indicates Violation Type Not Applicable to Rule

1. Although a public water system may be out of compliance with more than one contaminant group or rule, when calculating totals, it's counted no more than once. Consequently, the sum of the number of water systems in violation, over the various contaminant groups or rules, may not add up to the total.

For detailed information see Appendix B

State of Tennessee
Division of Water Resources
2022 Annual Compliance Report
Detailed Violations
Appendix B

2022 Annual Compliance Report

Violation Details

Community Water Systems

BLOUNT COUNTY

TN0000249	FRIENDSVILLE WATER WORKS	Popul Group: Small
	D/DBP Rule	
	Haloacetic Acids	
	10/1/2022	Routine Monitoring, Major
		2/1/2023 Notice of Violation Issued
		2/1/2023 Public Notification Requested
		2/28/2023 Public Notification Performed
	Trihalomethanes	
	10/1/2022	Routine Monitoring, Major
		2/1/2023 Notice of Violation Issued
		2/1/2023 Public Notification Requested
		2/28/2023 Public Notification Performed

CAMPBELL COUNTY

TN0000912	DEERFIELD WATER SYSTEM, LLC	Popul Group: Very Small
	Consumer Confidence Report Rule	
	Consumer Confidence Report	
	7/1/2022	Reporting Violation, Major
		7/15/2022 Returned to Compliance
		11/28/2022 Notice of Violation Issued
	Ground Water Rule	
	Disinfection	
	1/1/2022	Continuous or Grab Monitoring
		3/21/2022 Notice of Violation Issued
		3/21/2022 Public Notification Requested
		5/31/2022 Returned to Compliance
		10/5/2022 Director's Order
		5/16/2023 Public Notification Performed
	2/1/2022	Continuous or Grab Monitoring
		4/14/2022 Notice of Violation Issued
		4/14/2022 Public Notification Requested
		5/31/2022 Returned to Compliance
		10/5/2022 Director's Order
		5/16/2023 Public Notification Performed
	3/1/2022	Continuous or Grab Monitoring
		5/13/2022 Notice of Violation Issued
		5/13/2022 Public Notification Requested
		5/31/2022 Returned to Compliance
		10/5/2022 Director's Order
		5/16/2023 Public Notification Performed
	4/1/2022	Continuous or Grab Monitoring
		5/31/2022 Returned to Compliance
		6/17/2022 Notice of Violation Issued
		6/17/2022 Public Notification Requested
		10/5/2022 Director's Order
		5/16/2023 Public Notification Performed

* Violation occurred prior to 2022, but extended into the 2022 calendar year.

Lead /Copper Rule					
Lead / Copper					
1/1/2022	Consumer Notification			12/29/2022	Returned to Compliance
				1/20/2023	Notice of Violation Issued
				1/20/2023	Public Notification Requested
				5/16/2023	Public Notification Performed
Public Notification Rule					
Public Notice					
3/1/2022	Reporting Violation, Major			5/14/2022	Notice of Violation Issued
				5/31/2022	Returned to Compliance
				10/5/2022	Director's Order
6/17/2022	Reporting Violation, Major			8/15/2022	Notice of Violation Issued
				10/5/2022	Director's Order

TN0000330 JELICO UTILITIES AUTHORITY

Popul Group: Small

D/DBP Rule					
Total Organic Carbon					
1/1/2022	Routine Monitoring, Major			5/13/2022	Notice of Violation Issued
				5/13/2022	Public Notification Requested
				5/10/2023	Public Notification Performed

CARROLL COUNTY

TN0000081 BRUCETON WATER SYSTEM

Popul Group: Very Small

Lead /Copper Rule					
Lead / Copper					
1/1/2022	Consumer Notification			12/1/2021	Notice of Violation Issued
				12/1/2021	Public Notification Requested
				11/29/2022	Public Notification Performed

TN0000422 MCLEMORESVILLE WATER DEPT

Popul Group: Very Small

Consumer Confidence Report Rule					
Consumer Confidence Report					
7/1/2022	Reporting Violation, Major			7/22/2022	Returned to Compliance
				11/28/2022	Notice of Violation Issued

TN0000710 TREZEVANT WATER SYSTEM

Popul Group: Very Small

Consumer Confidence Report Rule					
Consumer Confidence Report					
7/1/2022	Reporting Violation, Major			7/21/2022	Returned to Compliance
				11/22/2022	Notice of Violation Issued

CARTER COUNTY

* Violation occurred prior to 2022, but extended into the 2022 calendar year.

TN0000802	PETERS HOLLOW WATER SYSTEM	Popul Group:	Very Small
	Consumer Confidence Report Rule		
	Consumer Confidence Report		
	7/1/2022	Reporting Violation, Major	
			7/19/2022 Returned to Compliance
			11/28/2022 Notice of Violation Issued

TN0000584	ROAN MOUNTAIN UTILITY DISTRICT	Popul Group:	Very Small
	Consumer Confidence Report Rule		
	Consumer Confidence Report		
	7/1/2022	Reporting Violation, Major	
			7/21/2022 Returned to Compliance
			11/22/2022 Notice of Violation Issued

TN0000633	SIAM UTILITY DISTRICT	Popul Group:	Very Small
	Consumer Confidence Report Rule		
	Consumer Confidence Report		
	7/1/2022	Reporting Violation, Major	
			7/22/2022 Returned to Compliance
			11/28/2022 Notice of Violation Issued

CLAIBORNE COUNTY

TN0000826	CLEARFORK UTILITY DISTRICT	Popul Group:	Very Small
	Lead /Copper Rule		
	Lead / Copper		
	1/1/2022	Consumer Notification	
			12/1/2021 Notice of Violation Issued
			12/1/2021 Public Notification Requested
			12/31/2021 Returned to Compliance
			6/15/2022 Public Notification Performed
	Organics		
	ATRAZINE		
	4/1/2022	Routine Monitoring, Major	
			8/11/2022 Notice of Violation Issued
			8/11/2022 Public Notification Requested

TN0000161	CUMBERLAND GAP WATER SERVICES	Popul Group:	Very Small
	D/DBP Rule		
	Haloacetic Acids		
	10/1/2022	Routine Monitoring, Major	
			2/2/2023 Notice of Violation Issued
			2/2/2023 Public Notification Requested
	Trihalomethanes		
	10/1/2022	Routine Monitoring, Major	
			2/2/2023 Notice of Violation Issued
			2/2/2023 Public Notification Requested

CLAY COUNTY

* Violation occurred prior to 2022, but extended into the 2022 calendar year.

TN0000099	CELINA WATER SYSTEM	Popul Group:	Small
	Lead /Copper Rule		
	Lead / Copper		
	1/1/2022	Consumer Notification	
			12/1/2021 Notice of Violation Issued
			12/1/2021 Public Notification Requested
			3/1/2022 Public Notification Performed
			3/15/2022 Returned to Compliance

TN0000573	NORTHWEST CLAY COUNTY UTILITY	Popul Group:	Small
	Consumer Confidence Report Rule		
	Consumer Confidence Report		
	7/1/2022	Reporting Violation, Major	
			7/28/2022 Notice of Violation Issued

COFFEE COUNTY

TN0000880	STACEY ANN'S MHP	Popul Group:	Very Small
	D/DBP Rule		
	Haloacetic Acids		
	7/1/2022	Routine Monitoring, Major	
			11/7/2022 Notice of Violation Issued
			11/7/2022 Public Notification Requested
	Trihalomethanes		
	7/1/2022	Routine Monitoring, Major	
			11/7/2022 Notice of Violation Issued
	Lead /Copper Rule		
	Lead / Copper		
	1/1/2022	Consumer Notification	
			3/10/2022 Notice of Violation Issued
			3/10/2022 Public Notification Requested
			3/17/2023 Public Notification Performed
			3/17/2023 Returned to Compliance

DE KALB COUNTY

TN0000008	ALEXANDRIA WATER SYSTEM	Popul Group:	Very Small
	D/DBP Rule		
	Haloacetic Acids		
	4/1/2022	MCL Violation	
			8/4/2022 Notice of Violation Issued
			8/4/2022 Public Notification Requested
	Lead /Copper Rule		
	Lead / Copper		
	1/1/2022	Consumer Notification	
			12/1/2021 Notice of Violation Issued
			12/1/2021 Public Notification Requested
			3/8/2023 Public Notification Performed
	Public Notification Rule		
	Public Notice		
	9/5/2022	Reporting Violation, Major	
			11/18/2022 Notice of Violation Issued

* Violation occurred prior to 2022, but extended into the 2022 calendar year.

TN0000403

DOWELLTOWN-LIBERTY U.D.

Popul Group: Very Small

Interim Enhanced SWTR

Combined Filter Turbidity

1/1/2022 Routine Monitoring, Major

3/21/2022 Notice of Violation Issued

3/21/2022 Public Notification Requested

Lead /Copper Rule

Lead / Copper

1/1/2022 Consumer Notification

12/1/2021 Notice of Violation Issued

12/1/2021 Public Notification Requested

Long Term 1 SWTR

Disinfectants

1/1/2022 Monitoring, Major

3/21/2022 Notice of Violation Issued

3/21/2022 Public Notification Requested

Public Notification Rule

Public Notice

12/1/2022 Reporting Violation, Major

2/13/2023 Notice of Violation Issued

TN0000637

SMITHVILLE WATER SYSTEM

Popul Group: Small

Consumer Confidence Report Rule

Consumer Confidence Report

7/1/2022 Reporting Violation, Major

7/29/2022 Notice of Violation Issued

8/19/2022 Returned to Compliance

DECATUR COUNTY

TN0000679

WOODLAWN SHORES WATER DEPT

Popul Group: Very Small

Lead /Copper Rule

Lead / Copper

1/1/2022 Followup Monitoring

1/1/2023 Notice of Violation Issued

1/1/2023 Public Notification Requested

FAYETTE COUNTY

TN0000254

GALLAWAY WATER DEPT

Popul Group: Very Small

D/DBP Rule

Haloacetic Acids

7/1/2022 Routine Monitoring, Major

11/17/2022 Notice of Violation Issued

11/17/2022 Public Notification Requested

11/18/2022 Public Notification Performed

11/18/2022 Returned to Compliance

Trihalomethanes

7/1/2022 Routine Monitoring, Major

11/17/2022 Notice of Violation Issued
11/17/2022 Public Notification Requested
11/18/2022 Public Notification Performed
11/18/2022 Returned to Compliance

TN0000477 MOSCOW WATER DEPT

Popul Group: Very Small

Inorganics

Arsenic

1/1/2022 Routine Monitoring, Major

2/10/2023 Notice of Violation Issued
2/10/2023 Public Notification Requested

Cyanide

1/1/2022 Routine Monitoring, Major

2/10/2023 Notice of Violation Issued
2/10/2023 Public Notification Requested

TN0000597 ROSSVILLE WATER SYSTEM

Popul Group: Very Small

Revised Total Coliform Rule

Total Coliforms

7/1/2022 Routine Monitoring

9/12/2022 Notice of Violation Issued
9/12/2022 Public Notification Requested

FENTRESS COUNTY

TN0000244 FENTRESS COUNTY U.D.

Popul Group: Medium

D/DBP Rule

Haloacetic Acids

7/1/2022 Routine Monitoring, Major

11/4/2022 Notice of Violation Issued
11/4/2022 Public Notification Requested

10/1/2022 MCL Violation

2/1/2023 Notice of Violation Issued
2/1/2023 Public Notification Requested
2/27/2023 Public Notification Performed

Trihalomethanes

7/1/2022 Routine Monitoring, Major

11/4/2022 Notice of Violation Issued
11/4/2022 Public Notification Requested

FRANKLIN COUNTY

TN0000046 BELVIDERE RURAL U.D.

Popul Group: Very Small

Organics

ATRAZINE

7/1/2022 Routine Monitoring, Major

11/14/2022 Notice of Violation Issued
11/14/2022 Public Notification Requested
5/25/2023 Public Notification Performed

* Violation occurred prior to 2022, but extended into the 2022 calendar year.

TN0000317	HUNTLAND WATER SYSTEM	Popul Group:	Very Small
	Organics		
	ATRAZINE		
	4/1/2022	Routine Monitoring, Major	
			8/18/2022 Notice of Violation Issued
			8/18/2022 Public Notification Requested
			5/17/2023 Public Notification Performed

TN0000754	WINCHESTER WATER SYSTEM	Popul Group:	Medium
	Organics		
	ATRAZINE		
	7/1/2022	Routine Monitoring, Major	
			10/14/2022 Notice of Violation Issued
			10/14/2022 Public Notification Requested

GREENE COUNTY

TN0000108	CHUCKEY UTILITY DISTRICT	Popul Group:	Medium
	Consumer Confidence Report Rule		
	Consumer Confidence Report		
	7/1/2022	Reporting Violation, Major	
			7/21/2022 Returned to Compliance
			11/28/2022 Notice of Violation Issued

TN0000478	MOSHEIM UTILITY DISTRICT	Popul Group:	Very Small
	Consumer Confidence Report Rule		
	Consumer Confidence Report		
	7/1/2022	Reporting Violation, Major	
			7/26/2022 Returned to Compliance
			11/28/2022 Notice of Violation Issued

TN0000274	NORTH GREENE UTILITIES, INC	Popul Group:	Small
	Consumer Confidence Report Rule		
	Consumer Confidence Report		
	7/1/2022	Reporting Violation, Major	
			7/22/2022 Returned to Compliance
			11/22/2022 Notice of Violation Issued
	Lead /Copper Rule		
	Lead / Copper		
	1/1/2022	Consumer Notification	
			12/1/2021 Notice of Violation Issued
			12/1/2021 Public Notification Requested
	Public Notification Rule		
	Public Notice		
	12/1/2022	Reporting Violation, Major	
			2/13/2023 Notice of Violation Issued

GRUNDY COUNTY

* Violation occurred prior to 2022, but extended into the 2022 calendar year.

TN0000470 MONTEAGLE PUBLIC UTILITY BOARD

Popul Group: Small

D/DBP Rule

Haloacetic Acids

1/1/2022 Routine Monitoring, Major

4/22/2022 Notice of Violation Issued
 4/22/2022 Public Notification Requested
 6/10/2022 Public Notification Performed
 7/20/2022 Returned to Compliance

Total Organic Carbon

10/1/2022 Routine Monitoring, Major

2/15/2023 Notice of Violation Issued
 2/15/2023 Public Notification Requested

Trihalomethanes

1/1/2022 Routine Monitoring, Major

4/22/2022 Notice of Violation Issued
 4/22/2022 Public Notification Requested
 6/10/2022 Public Notification Performed
 7/20/2022 Returned to Compliance

HAMBLEEN COUNTY

TN0000650 WITT UTILITY DISTRICT

Popul Group: Small

D/DBP Rule

Haloacetic Acids

4/1/2022 Routine Monitoring, Major

8/9/2022 Notice of Violation Issued
 8/9/2022 Public Notification Requested
 9/30/2022 Returned to Compliance
 3/31/2023 Public Notification Performed

Total Organic Carbon

10/1/2022 Routine Monitoring, Major

2/14/2023 Notice of Violation Issued
 2/14/2023 Public Notification Requested
 3/31/2023 Public Notification Performed

Trihalomethanes

4/1/2022 Routine Monitoring, Major

8/9/2022 Notice of Violation Issued
 8/9/2022 Public Notification Requested
 9/30/2022 Returned to Compliance
 3/31/2023 Public Notification Performed

Inorganics

Nitrates

1/1/2022 Routine Monitoring, Major

4/30/2022 Returned to Compliance
 5/17/2022 Notice of Violation Issued
 5/17/2022 Public Notification Requested
 3/31/2023 Public Notification Performed

HARDEMAN COUNTY

TN0000797 CANDLEWOOD LAKES P.O.A. WATERW

Popul Group: Very Small

Public Notification Rule

Public Notice

* Violation occurred prior to 2022, but extended into the 2022 calendar year.

TN0000455	MIDDLETON WATER DEPT	Popul Group:	Very Small
	Inorganics		
	Nitrates	1/1/2022	Routine Monitoring, Major
			2/10/2023 Notice of Violation Issued
			2/10/2023 Public Notification Requested
TN0000664	SPRING CREEK UTILITY DISTRICT	Popul Group:	Very Small
	Lead /Copper Rule		
	Lead / Copper	1/1/2022	Consumer Notification
			1/1/2023 Notice of Violation Issued
			1/1/2023 Public Notification Requested
		1/1/2022	Followup Monitoring
			1/17/2023 Notice of Violation Issued
			1/17/2023 Public Notification Requested
TN0000704	TOONE WATER SYSTEM	Popul Group:	Very Small
	Radiological Monitoring		
	RADS	1/1/2022	Reporting Violation, Major
			2/10/2023 Notice of Violation Issued
			2/10/2023 Public Notification Requested
TN0000748	WHITEVILLE WATER DEPT	Popul Group:	Very Small
	Consumer Confidence Report Rule		
	Consumer Confidence Report	7/1/2022	Reporting Violation, Major
			7/20/2022 Returned to Compliance
			11/28/2022 Notice of Violation Issued
	D/DBP Rule		
	Haloacetic Acids	7/1/2022	Routine Monitoring, Major
			10/31/2022 Notice of Violation Issued
			10/31/2022 Public Notification Requested
	Trihalomethanes	7/1/2022	Routine Monitoring, Major
			10/31/2022 Notice of Violation Issued
			10/31/2022 Public Notification Requested
	Ground Water Rule		
	Disinfection	4/1/2022	Continuous or Grab Monitoring
			6/17/2022 Notice of Violation Issued
			6/17/2022 Public Notification Requested
		9/1/2022	Continuous or Grab Monitoring
			11/14/2022 Notice of Violation Issued
			11/14/2022 Public Notification Requested
	Lead /Copper Rule		
	Lead / Copper	1/1/2022	Consumer Notification
			3/10/2022 Notice of Violation Issued

HARDIN COUNTY

TN0000948	AQUA UTILITIES	Popul Group:	Very Small
	Consumer Confidence Report Rule		
	Consumer Confidence Report		
	7/1/2022	Reporting Violation, Major	
			7/29/2022 Notice of Violation Issued
TN0000923	HARBERT HILLS ACADEMY N.H.	Popul Group:	Very Small
	Lead /Copper Rule		
	Lead / Copper		
	1/1/2022	Followup Monitoring	
			1/20/2023 Notice of Violation Issued
			1/20/2023 Public Notification Requested

HAWKINS COUNTY

TN0000109	FIRST UD OF HAWKINS COUNTY	Popul Group:	Medium
	Inorganics		
	Nitrates		
	1/1/2022	Routine Monitoring, Major	
			4/13/2022 Returned to Compliance
			5/17/2022 Notice of Violation Issued
			5/17/2022 Public Notification Requested
			4/15/2023 Public Notification Performed
TN0000596	LAKEVIEW U.D. WEST	Popul Group:	Small
	D/DBP Rule		
	Haloacetic Acids		
	4/1/2022	MCL Violation	
			8/9/2022 Notice of Violation Issued
			8/9/2022 Public Notification Requested
			8/19/2022 Public Notification Performed
	7/1/2022	MCL Violation	
			10/31/2022 Notice of Violation Issued
			10/31/2022 Public Notification Requested
			11/7/2022 Public Notification Performed
	10/1/2022	MCL Violation	
			2/1/2023 Notice of Violation Issued
			2/1/2023 Public Notification Requested
			2/7/2023 Public Notification Performed
TN0000472	MOORESBURG UTILITY DISTRICT	Popul Group:	Very Small
	Consumer Confidence Report Rule		
	Consumer Confidence Report		
	7/1/2022	Reporting Violation, Major	
			7/22/2022 Returned to Compliance
			11/22/2022 Notice of Violation Issued

HENDERSON COUNTY

TN0000402 LEXINGTON WATER SYSTEMS

Popul Group: Medium

Consumer Confidence Report Rule
Consumer Confidence Report
7/1/2022 Reporting Violation, Major

7/26/2022 Returned to Compliance
11/22/2022 Notice of Violation Issued

HENRY COUNTY

TN0000568 PURYEAR WATER SYSTEM

Popul Group: Very Small

Consumer Confidence Report Rule
Consumer Confidence Report
7/1/2022 Reporting Violation, Major

7/21/2022 Returned to Compliance
11/28/2022 Notice of Violation Issued

HUMPHREYS COUNTY

TN0000420 MCEWEN WATERWORKS

Popul Group: Very Small

Lead /Copper Rule
Lead / Copper
1/1/2022 Consumer Notification

12/1/2021 Notice of Violation Issued
12/1/2021 Public Notification Requested
11/23/2022 Public Notification Performed

Organics
ATRAZINE
4/1/2022 Routine Monitoring, Major

8/11/2022 Notice of Violation Issued
8/11/2022 Public Notification Requested

SIMAZINE
4/1/2022 Routine Monitoring, Major

8/11/2022 Notice of Violation Issued
8/11/2022 Public Notification Requested

TN0000497 NEW JOHNSONVILLE WATER DEPT

Popul Group: Very Small

Lead /Copper Rule
Lead / Copper
1/1/2022 Consumer Notification

12/1/2021 Notice of Violation Issued
12/1/2021 Public Notification Requested
11/21/2022 Public Notification Performed

JACKSON COUNTY

TN0000251 GAINESBORO WATER SYSTEM

Popul Group: Very Small

Lead /Copper Rule
Lead / Copper
1/1/2022 Consumer Notification

12/1/2021 Notice of Violation Issued
12/1/2021 Public Notification Requested

TN0000252 JACKSON COUNTY U.D. #1

Popul Group: Very Small

Public Notification Rule
Public Notice
2/11/2022 Reporting Violation, Major

5/14/2022 Notice of Violation Issued

TN0000845 JACKSON COUNTY U.D. #3

Popul Group: Very Small

D/DBP Rule
Haloacetic Acids
1/1/2022 MCL Violation

4/25/2022 Notice of Violation Issued
4/25/2022 Public Notification Requested
5/10/2022 Public Notification Performed
5/25/2023 Director's Order

7/1/2022 MCL Violation

10/31/2022 Notice of Violation Issued
10/31/2022 Public Notification Requested
5/25/2023 Director's Order

10/1/2022 MCL Violation

1/12/2023 Notice of Violation Issued
1/12/2023 Public Notification Requested
2/1/2023 Public Notification Performed
5/25/2023 Director's Order

Trihalomethanes
1/1/2022 MCL Violation

4/25/2022 Notice of Violation Issued
4/25/2022 Public Notification Requested
5/10/2022 Public Notification Performed
5/25/2023 Director's Order

4/1/2022 MCL Violation

8/9/2022 Notice of Violation Issued
8/9/2022 Public Notification Requested
5/25/2023 Director's Order

7/1/2022 MCL Violation

10/31/2022 Notice of Violation Issued
10/31/2022 Public Notification Requested
5/25/2023 Director's Order

10/1/2022 MCL Violation

7/13/2001 Public Notification Performed
8/31/2001 Notice of Violation Issued
8/31/2001 Public Notification Requested
1/12/2023 Notice of Violation Issued
1/12/2023 Public Notification Requested
2/1/2023 Public Notification Performed
5/25/2023 Director's Order

Public Notification Rule
Public Notice
9/10/2022 Reporting Violation, Major

11/18/2022 Notice of Violation Issued
5/25/2023 Director's Order

JEFFERSON COUNTY

TN0000746	WHITE PINE WATER SYSTEM	Popul Group:	Small
	D/DBP Rule		
	Haloacetic Acids		
	10/1/2022	Routine Monitoring, Major	
			2/3/2023 Notice of Violation Issued
			2/3/2023 Public Notification Requested
	Trihalomethanes		
	10/1/2022	Routine Monitoring, Major	
			2/3/2023 Notice of Violation Issued
			2/3/2023 Public Notification Requested

JOHNSON COUNTY

TN0000480	BROWNLOW UTILITY DISTRICT	Popul Group:	Very Small
	Consumer Confidence Report Rule		
	Consumer Confidence Report		
	7/1/2022	Reporting Violation, Major	
			7/29/2022 Notice of Violation Issued
			8/1/2022 Returned to Compliance
	Lead /Copper Rule		
	Lead / Copper		
	1/1/2022	Consumer Notification	
			12/1/2021 Notice of Violation Issued
			12/1/2021 Public Notification Requested
	Public Notification Rule		
	Public Notice		
	12/1/2022	Reporting Violation, Major	
			2/13/2023 Notice of Violation Issued

TN0000085	CARDERVIEW UTILITY DISTRICT	Popul Group:	Very Small
	Consumer Confidence Report Rule		
	Consumer Confidence Report		
	7/1/2022	Reporting Violation, Major	
			7/21/2022 Returned to Compliance
			11/22/2022 Notice of Violation Issued

LAUDERDALE COUNTY

TN0000255	GATES WATER DEPT	Popul Group:	Very Small
	Lead /Copper Rule		
	Lead / Copper		
	1/1/2022	Consumer Notification	
			1/9/2023 Notice of Violation Issued
			1/9/2023 Public Notification Requested

LAWRENCE COUNTY

TN0008267 LEXINGTON W.D. RASCALTOWN COMM

Popul Group: Very Small

Revised Total Coliform Rule

Total Coliforms

5/1/2022

Routine Monitoring

6/30/2022 Returned to Compliance

7/19/2022 Notice of Violation Issued

7/19/2022 Public Notification Requested

9/9/2022 Public Notification Performed

TN0000604 ST JOSEPH WATER SYSTEM

Popul Group: Very Small

Public Notification Rule

Public Notice

3/9/2022

Reporting Violation, Major

5/14/2022 Notice of Violation Issued

8/15/2022 Notice of Violation Issued

2/6/2023 Director's Order

3/9/2023 Compliance Review Meeting

3/9/2023 Letter of Agreement

TN0000740 WEST POINT U.D.

Popul Group: Very Small

D/DBP Rule

Haloacetic Acids

7/1/2022

Routine Monitoring, Major

10/31/2022 Notice of Violation Issued

10/31/2022 Public Notification Requested

Trihalomethanes

7/1/2022

Routine Monitoring, Major

10/31/2022 Notice of Violation Issued

10/31/2022 Public Notification Requested

Lead /Copper Rule

Lead / Copper

1/1/2022

Consumer Notification

12/1/2021 Notice of Violation Issued

12/1/2021 Public Notification Requested

Public Notification Rule

Public Notice

11/1/2022

Reporting Violation, Major

2/13/2023 Notice of Violation Issued

LEWIS COUNTY**TN0000304 HOHENWALD WATER SYSTEM**

Popul Group: Medium

D/DBP Rule

Haloacetic Acids

4/1/2022

Routine Monitoring, Major

8/9/2022 Notice of Violation Issued

8/9/2022 Public Notification Requested

7/1/2022

Routine Monitoring, Major

10/31/2022 Notice of Violation Issued

10/31/2022 Public Notification Requested

Trihalomethanes

4/1/2022

Routine Monitoring, Major

8/9/2022 Notice of Violation Issued

	7/1/2022	Routine Monitoring, Major	8/9/2022	Public Notification Requested
			10/31/2022	Notice of Violation Issued
			10/31/2022	Public Notification Requested
Volatile Organics				
1,1,1-TRICHLOROETHANE				
	4/1/2022	Routine Monitoring, Major	8/16/2022	Notice of Violation Issued
			8/16/2022	Public Notification Requested
1,1,2-TRICHLOROETHANE				
	4/1/2022	Routine Monitoring, Major	8/16/2022	Notice of Violation Issued
			8/16/2022	Public Notification Requested
1,1-DICHLOROETHYLENE				
	4/1/2022	Routine Monitoring, Major	8/16/2022	Notice of Violation Issued
			8/16/2022	Public Notification Requested
1,2,4-TRICHLOROBENZENE				
	4/1/2022	Routine Monitoring, Major	8/16/2022	Notice of Violation Issued
			8/16/2022	Public Notification Requested
1,2-DICHLOROETHANE				
	4/1/2022	Routine Monitoring, Major	8/16/2022	Notice of Violation Issued
			8/16/2022	Public Notification Requested
1,2-DICHLOROPROPANE				
	4/1/2022	Routine Monitoring, Major	8/16/2022	Notice of Violation Issued
			8/16/2022	Public Notification Requested
BENZENE				
	4/1/2022	Routine Monitoring, Major	8/16/2022	Notice of Violation Issued
			8/16/2022	Public Notification Requested
CARBON TETRACHLORIDE				
	4/1/2022	Routine Monitoring, Major	8/16/2022	Notice of Violation Issued
			8/16/2022	Public Notification Requested
CHLOROBENZENE				
	4/1/2022	Routine Monitoring, Major	8/16/2022	Notice of Violation Issued
			8/16/2022	Public Notification Requested
CIS-1,2-DICHLOROETHYLENE				
	4/1/2022	Routine Monitoring, Major	8/16/2022	Notice of Violation Issued
			8/16/2022	Public Notification Requested
DICHLOROMETHANE				
	4/1/2022	Routine Monitoring, Major	8/16/2022	Notice of Violation Issued
			8/16/2022	Public Notification Requested
ETHYLBENZENE				
	4/1/2022	Routine Monitoring, Major	8/16/2022	Notice of Violation Issued
			8/16/2022	Public Notification Requested
O-DICHLOROBENZENE				
	4/1/2022	Routine Monitoring, Major	8/16/2022	Notice of Violation Issued
			8/16/2022	Public Notification Requested
P-DICHLOROBENZENE				
	4/1/2022	Routine Monitoring, Major	8/16/2022	Notice of Violation Issued

			8/16/2022	Public Notification Requested
STYRENE				
	4/1/2022	Routine Monitoring, Major		
			8/16/2022	Notice of Violation Issued
			8/16/2022	Public Notification Requested
TETRACHLOROETHYLENE				
	4/1/2022	Routine Monitoring, Major		
			8/16/2022	Notice of Violation Issued
			8/16/2022	Public Notification Requested
TOLUENE				
	4/1/2022	Routine Monitoring, Major		
			8/16/2022	Notice of Violation Issued
			8/16/2022	Public Notification Requested
TRANS-1,2-DICHLOROETHYLENE				
	4/1/2022	Routine Monitoring, Major		
			8/16/2022	Notice of Violation Issued
			8/16/2022	Public Notification Requested
TRICHLOROETHYLENE				
	4/1/2022	Routine Monitoring, Major		
			8/16/2022	Notice of Violation Issued
			8/16/2022	Public Notification Requested
VINYL CHLORIDE				
	4/1/2022	Routine Monitoring, Major		
			8/16/2022	Notice of Violation Issued
			8/16/2022	Public Notification Requested
XYLENES(TOTAL)				
	4/1/2022	Routine Monitoring, Major		
			8/16/2022	Notice of Violation Issued
			8/16/2022	Public Notification Requested

MCNAIRY COUNTY

TN0000615 SELMER WATER SYSTEM

Popul Group: Medium

Consumer Confidence Report Rule
 Consumer Confidence Report
 7/1/2022 Reporting Violation, Major

7/28/2022 Notice of Violation Issued

MONROE COUNTY

TN0000936 LAUREL MTN LAKES WATER ASSOC.

Popul Group: Very Small

Lead /Copper Rule
 Lead / Copper
 1/1/2022 Consumer Notification

12/1/2021 Notice of Violation Issued
 12/1/2021 Public Notification Requested
 6/21/2022 Public Notification Performed

MONTGOMERY COUNTY

TN0000929 CUNNINGHAM EAST-MONTG WTP

Popul Group: Very Small

Organics
 ATRAZINE

9/1/2022 Notice of Violation Issued
 9/1/2022 Public Notification Requested
 3/14/2023 Public Notification Performed

TN0000167 CUNNINGHAM UTILITY DISTRICT

Popul Group: Medium

D/DBP Rule

Trihalomethanes

7/1/2022 MCL Violation

9/20/2022 Public Notification Performed
 10/31/2022 Notice of Violation Issued
 10/31/2022 Public Notification Requested

10/1/2022 MCL Violation

2/1/2023 Notice of Violation Issued
 2/1/2023 Public Notification Requested
 2/8/2023 Public Notification Performed

TN0000820 FORT CAMPBELL WATER SYSTEM

Popul Group: Medium

Volatile Organics

1,1,1-TRICHLOROETHANE

1/1/2022 Routine Monitoring, Major

4/18/2022 Returned to Compliance
 5/3/2022 Notice of Violation Issued
 5/3/2022 Public Notification Requested
 6/15/2022 Public Notification Performed

1,1,2-TRICHLOROETHANE

1/1/2022 Routine Monitoring, Major

4/18/2022 Returned to Compliance
 5/3/2022 Notice of Violation Issued
 5/3/2022 Public Notification Requested
 6/15/2022 Public Notification Performed

1,1-DICHLOROETHYLENE

1/1/2022 Routine Monitoring, Major

4/18/2022 Returned to Compliance
 5/3/2022 Notice of Violation Issued
 5/3/2022 Public Notification Requested
 6/15/2022 Public Notification Performed

1,2,4-TRICHLOROBENZENE

1/1/2022 Routine Monitoring, Major

4/18/2022 Returned to Compliance
 5/3/2022 Notice of Violation Issued
 5/3/2022 Public Notification Requested
 6/15/2022 Public Notification Performed

1,2-DICHLOROETHANE

1/1/2022 Routine Monitoring, Major

4/18/2022 Returned to Compliance
 5/3/2022 Notice of Violation Issued
 5/3/2022 Public Notification Requested
 6/15/2022 Public Notification Performed

1,2-DICHLOROPROPANE

1/1/2022 Routine Monitoring, Major

4/18/2022 Returned to Compliance
 5/3/2022 Notice of Violation Issued
 5/3/2022 Public Notification Requested
 6/15/2022 Public Notification Performed

BENZENE

1/1/2022 Routine Monitoring, Major

			4/18/2022	Returned to Compliance
			5/3/2022	Notice of Violation Issued
			5/3/2022	Public Notification Requested
			6/15/2022	Public Notification Performed
CARBON TETRACHLORIDE				
	1/1/2022	Routine Monitoring, Major		
			4/18/2022	Returned to Compliance
			5/3/2022	Notice of Violation Issued
			5/3/2022	Public Notification Requested
			6/15/2022	Public Notification Performed
CHLORO BENZENE				
	1/1/2022	Routine Monitoring, Major		
			4/18/2022	Returned to Compliance
			5/3/2022	Notice of Violation Issued
			5/3/2022	Public Notification Requested
			6/15/2022	Public Notification Performed
CIS-1,2-DICHLOROETHYLENE				
	1/1/2022	Routine Monitoring, Major		
			4/18/2022	Returned to Compliance
			5/3/2022	Notice of Violation Issued
			5/3/2022	Public Notification Requested
			6/15/2022	Public Notification Performed
DICHLOROMETHANE				
	1/1/2022	Routine Monitoring, Major		
			4/18/2022	Returned to Compliance
			5/3/2022	Notice of Violation Issued
			5/3/2022	Public Notification Requested
			6/15/2022	Public Notification Performed
ETHYLBENZENE				
	1/1/2022	Routine Monitoring, Major		
			4/18/2022	Returned to Compliance
			5/3/2022	Notice of Violation Issued
			5/3/2022	Public Notification Requested
			6/15/2022	Public Notification Performed
O-DICHLORO BENZENE				
	1/1/2022	Routine Monitoring, Major		
			4/18/2022	Returned to Compliance
			5/3/2022	Notice of Violation Issued
			5/3/2022	Public Notification Requested
			6/15/2022	Public Notification Performed
P-DICHLORO BENZENE				
	1/1/2022	Routine Monitoring, Major		
			4/18/2022	Returned to Compliance
			5/3/2022	Notice of Violation Issued
			5/3/2022	Public Notification Requested
			6/15/2022	Public Notification Performed
STYRENE				
	1/1/2022	Routine Monitoring, Major		
			4/18/2022	Returned to Compliance
			5/3/2022	Notice of Violation Issued
			5/3/2022	Public Notification Requested
			6/15/2022	Public Notification Performed
TETRACHLOROETHYLENE				
	1/1/2022	Routine Monitoring, Major		
			4/18/2022	Returned to Compliance
			5/3/2022	Notice of Violation Issued
			5/3/2022	Public Notification Requested
			6/15/2022	Public Notification Performed
TOLUENE				
	1/1/2022	Routine Monitoring, Major		

			4/18/2022	Returned to Compliance
			5/3/2022	Notice of Violation Issued
			5/3/2022	Public Notification Requested
			6/15/2022	Public Notification Performed
TRANS-1,2-DICHLOROETHYLENE				
	1/1/2022	Routine Monitoring, Major		
			4/18/2022	Returned to Compliance
			5/3/2022	Notice of Violation Issued
			5/3/2022	Public Notification Requested
			6/15/2022	Public Notification Performed
TRICHLOROETHYLENE				
	1/1/2022	Routine Monitoring, Major		
			4/18/2022	Returned to Compliance
			5/3/2022	Notice of Violation Issued
			5/3/2022	Public Notification Requested
			6/15/2022	Public Notification Performed
VINYL CHLORIDE				
	1/1/2022	Routine Monitoring, Major		
			4/18/2022	Returned to Compliance
			5/3/2022	Notice of Violation Issued
			5/3/2022	Public Notification Requested
			6/15/2022	Public Notification Performed
XYLENES(TOTAL)				
	1/1/2022	Routine Monitoring, Major		
			4/18/2022	Returned to Compliance
			5/3/2022	Notice of Violation Issued
			5/3/2022	Public Notification Requested
			6/15/2022	Public Notification Performed

TN000758

WOODLAWN UTILITY DISTRICT

Popul Group: Medium

D/DBP Rule

Haloacetic Acids

1/1/2022 MCL Violation

4/25/2022 Notice of Violation Issued
4/25/2022 Public Notification Requested
9/7/2022 Public Notification Performed
10/18/2022 Director's Order
12/31/2022 Returned to Compliance

4/1/2022 MCL Violation

8/9/2022 Notice of Violation Issued
8/9/2022 Public Notification Requested
9/7/2022 Public Notification Performed
10/18/2022 Director's Order
12/31/2022 Returned to Compliance

4/1/2022 Routine Monitoring, Major

8/9/2022 Notice of Violation Issued
8/9/2022 Public Notification Requested
9/7/2022 Public Notification Performed
9/30/2022 Returned to Compliance
10/18/2022 Director's Order

7/1/2022 MCL Violation

10/31/2022 Notice of Violation Issued
10/31/2022 Public Notification Requested
11/23/2022 Public Notification Performed
12/31/2022 Returned to Compliance

Trihalomethanes

1/1/2022 MCL Violation

4/25/2022 Notice of Violation Issued
4/25/2022 Public Notification Requested

* Violation occurred prior to 2022, but extended into the 2022 calendar year.

			9/7/2022	Public Notification Performed
			9/30/2022	Returned to Compliance
			10/18/2022	Director's Order
	4/1/2022	MCL Violation		
			8/9/2022	Notice of Violation Issued
			8/9/2022	Public Notification Requested
			9/7/2022	Public Notification Performed
			9/30/2022	Returned to Compliance
			10/18/2022	Director's Order
	4/1/2022	Routine Monitoring, Major		
			8/9/2022	Notice of Violation Issued
			8/9/2022	Public Notification Requested
			9/7/2022	Public Notification Performed
			9/30/2022	Returned to Compliance
			10/18/2022	Director's Order
Public Notification Rule				
Public Notice				
	5/25/2022	Reporting Violation, Major		
			8/15/2022	Notice of Violation Issued
			9/7/2022	Returned to Compliance
			10/18/2022	Director's Order

MOORE COUNTY

TN0000416 METRO LYNCHBURG/MOORE CO U.D.

Popul Group: Small

D/DBP Rule				
Haloacetic Acids				
	1/1/2022	Routine Monitoring, Major		
			4/25/2022	Notice of Violation Issued
			4/25/2022	Public Notification Requested
			4/15/2023	Public Notification Performed
Trihalomethanes				
	1/1/2022	Routine Monitoring, Major		
			4/25/2022	Notice of Violation Issued
			4/25/2022	Public Notification Requested
			4/15/2023	Public Notification Performed
Inorganics				
Nitrates				
	4/1/2022	Routine Monitoring, Major		
			8/15/2022	Notice of Violation Issued
			8/15/2022	Public Notification Requested
Organics				
2,4-D				
	4/1/2022	Routine Monitoring, Major		
			8/15/2022	Notice of Violation Issued
			8/15/2022	Public Notification Requested
ALACHLOR (LASSO)				
	4/1/2022	Routine Monitoring, Major		
			8/15/2022	Notice of Violation Issued
			8/15/2022	Public Notification Requested
ATRAZINE				
	4/1/2022	Routine Monitoring, Major		
			8/15/2022	Notice of Violation Issued
			8/15/2022	Public Notification Requested
SIMAZINE				
	4/1/2022	Routine Monitoring, Major		
			8/15/2022	Notice of Violation Issued
			8/15/2022	Public Notification Requested

* Violation occurred prior to 2022, but extended into the 2022 calendar year.

OBION COUNTY

TN0000220 ELBRIDGE WATER ASSOCIATION Popul Group: Very Small
Lead /Copper Rule
Lead / Copper
1/1/2022 Consumer Notification
2/8/2022 Notice of Violation Issued
2/8/2022 Public Notification Requested

TN0000347 KENTON WATER DEPT Popul Group: Very Small
Lead /Copper Rule
Lead / Copper
1/1/2022 Consumer Notification
1/1/2023 Notice of Violation Issued
1/1/2023 Public Notification Requested

TN0000935 MASON HALL DEVELOPMENT CORP Popul Group: Very Small
Inorganics
Nitrates
7/1/2022 Routine Monitoring, Major
11/14/2022 Notice of Violation Issued
11/14/2022 Public Notification Requested

OVERTON COUNTY

TN0000405 LIVINGSTON WATER DEPT Popul Group: Medium
Consumer Confidence Report Rule
Consumer Confidence Report
7/1/2022 Reporting Violation, Major
7/29/2022 Notice of Violation Issued

PERRY COUNTY

TN0000404 LINDEN WATER DEPT Popul Group: Small
Inorganics
Nitrates
1/1/2022 Routine Monitoring, Major
5/17/2022 Notice of Violation Issued
5/17/2022 Public Notification Requested
6/13/2022 Public Notification Performed
7/22/2022 Returned to Compliance

PICKETT COUNTY

TN0000088 BYRDSTOWN WATER DEPT Popul Group: Small
Consumer Confidence Report Rule

POLK COUNTY

TN0000048 BENTON WATER SYSTEM

Popul Group: Very Small

D/DBP Rule

Haloacetic Acids

7/1/2022

Routine Monitoring, Major

11/4/2022 Notice of Violation Issued

11/4/2022 Public Notification Requested

11/17/2022 Public Notification Performed

11/17/2022 Returned to Compliance

Trihalomethanes

7/1/2022

Routine Monitoring, Major

11/4/2022 Notice of Violation Issued

11/4/2022 Public Notification Requested

11/17/2022 Public Notification Performed

11/17/2022 Returned to Compliance

TN0000138 CHEROKEE HILLS U.D.

Popul Group: Very Small

Lead /Copper Rule

Lead / Copper

1/1/2022

Consumer Notification

3/10/2022 Notice of Violation Issued

3/10/2022 Public Notification Requested

2/6/2023 Public Notification Performed

TN0000136 COPPERHILL WATER DEPT

Popul Group: Very Small

Public Notification Rule

Public Notice

2/12/2022

Reporting Violation, Major

5/14/2022 Notice of Violation Issued

4/28/2023 Returned to Compliance

PUTNAM COUNTY

TN0000133 COOKEVILLE WATER DEPT

Popul Group: Medium

Consumer Confidence Report Rule

Consumer Confidence Report

7/1/2022

Reporting Violation, Major

7/25/2022 Returned to Compliance

11/22/2022 Notice of Violation Issued

TN0000952 HERITAGE ACADEMY

Popul Group: Very Small

D/DBP Rule

Haloacetic Acids

7/1/2022

Routine Monitoring, Major

11/7/2022 Notice of Violation Issued

			11/7/2022	Public Notification Requested
			11/11/2022	Public Notification Performed
			11/11/2022	Returned to Compliance
Trihalomethanes				
	7/1/2022	Routine Monitoring, Major		
			11/7/2022	Notice of Violation Issued
			11/7/2022	Public Notification Requested
			11/11/2022	Public Notification Performed
			11/11/2022	Returned to Compliance
Lead /Copper Rule				
Lead / Copper				
	1/1/2022	Consumer Notification		
			12/1/2021	Notice of Violation Issued
			12/1/2021	Public Notification Requested
Public Notification Rule				
Public Notice				
	12/1/2022	Reporting Violation, Major		
			2/13/2023	Notice of Violation Issued

RHEA COUNTY

TN0000863 GRANDVIEW UTILITY DISTRICT Popul Group: Very Small

Consumer Confidence Report Rule				
Consumer Confidence Report				
	7/1/2022	Reporting Violation, Major		
			7/29/2022	Notice of Violation Issued

TN0000269 GRAYSVILLE WATER DEPT Popul Group: Very Small

Ground Water Rule				
Failure to Treat				
	5/1/2022	Treatment Technique		
			6/7/2022	Notice of Violation Issued
			6/7/2022	Public Notification Requested
			6/29/2022	Public Notification Performed
			6/30/2022	Returned to Compliance

TN0000657 NEWPORT RESORT WATER SYSTEM Popul Group: Very Small

Ground Water Rule				
Disinfection				
	4/1/2022	Continuous or Grab Monitoring		
			6/7/2022	Notice of Violation Issued
			6/7/2022	Public Notification Requested
			6/30/2022	Returned to Compliance
			5/16/2023	Public Notification Performed
Revised Total Coliform Rule				
Total Coliforms				
	4/1/2022	Routine Monitoring		
			6/30/2022	Returned to Compliance
			5/16/2023	Public Notification Performed

ROANE COUNTY

TN0000531	CUMBERLAND UTILITY DISTRICT	Popul Group:	Medium
	Consumer Confidence Report Rule		
	Consumer Confidence Report		
	7/1/2022	Reporting Violation, Major	
			7/29/2022 Notice of Violation Issued
	D/DBP Rule		
	Trihalomethanes		
	10/1/2022	MCL Violation	
			2/1/2023 Notice of Violation Issued
			2/1/2023 Public Notification Requested
	Inorganics		
	Nitrates		
	1/1/2022	Routine Monitoring, Major	
			5/17/2022 Notice of Violation Issued
			5/17/2022 Public Notification Requested
	Lead /Copper Rule		
	Lead / Copper		
	7/1/2022	Followup Monitoring	
			1/11/2023 Notice of Violation Issued
			1/11/2023 Public Notification Requested
	Public Notification Rule		
	Public Notice		
	12/9/2022	Reporting Violation, Major	
			2/13/2023 Notice of Violation Issued

TN0000523	OLIVER SPRINGS WATER BOARD	Popul Group:	Small
	D/DBP Rule		
	Haloacetic Acids		
	10/1/2022	Routine Monitoring, Major	
			2/1/2023 Notice of Violation Issued
			2/1/2023 Public Notification Requested
	Trihalomethanes		
	10/1/2022	Routine Monitoring, Major	
			2/1/2023 Notice of Violation Issued
			2/1/2023 Public Notification Requested

TN0000969	WATTS BAR EAST U.D.	Popul Group:	Small
	D/DBP Rule		
	Trihalomethanes		
	4/1/2022	MCL Violation	
			8/9/2022 Notice of Violation Issued
			8/9/2022 Public Notification Requested
			8/23/2022 Public Notification Performed
			9/30/2022 Returned to Compliance

ROBERTSON COUNTY

TN0000271	GREENBRIER WATER & SEWER DEPT	Popul Group:	Small
	Consumer Confidence Report Rule		
	Consumer Confidence Report		
	7/1/2022	Reporting Violation, Major	
			7/19/2022 Returned to Compliance
			11/22/2022 Notice of Violation Issued

* Violation occurred prior to 2022, but extended into the 2022 calendar year.

D/DBP Rule

Haloacetic Acids

7/1/2022

MCL Violation

10/31/2022 Notice of Violation Issued

10/31/2022 Public Notification Requested

11/16/2022 Public Notification Performed

12/31/2022 Returned to Compliance

RUTHERFORD COUNTY**TN0000491****MURFREESBORO WATER DEPARTMENT**

Popul Group: Very Large

D/DBP Rule

Haloacetic Acids

4/1/2022

Routine Monitoring, Major

8/9/2022 Notice of Violation Issued

8/9/2022 Public Notification Requested

Trihalomethanes

4/1/2022

Routine Monitoring, Major

8/9/2022 Notice of Violation Issued

8/9/2022 Public Notification Requested

SEQUATCHIE COUNTY**TN0008228****LONE OAK UTILITY DISTRICT**

Popul Group: Very Small

Revised Total Coliform Rule

Total Coliforms

3/1/2022

Routine Monitoring

4/30/2022 Returned to Compliance

5/9/2022 Notice of Violation Issued

5/9/2022 Public Notification Requested

5/10/2022 Public Notification Performed

SEVIER COUNTY**TN0000849****CHALET VILLAGE NORTH**

Popul Group: Very Small

Lead /Copper Rule

Lead / Copper

1/1/2022

Followup Monitoring

1/20/2023 Notice of Violation Issued

1/20/2023 Public Notification Requested

TN0000998**COVE MOUNTAIN MOBILE HOME PARK**

Popul Group: Very Small

Volatile Organics

1,1,1-TRICHLOROETHANE

7/1/2022

Routine Monitoring, Major

11/14/2022 Notice of Violation Issued

11/14/2022 Public Notification Requested

1,1,2-TRICHLOROETHANE

7/1/2022

Routine Monitoring, Major

11/14/2022 Notice of Violation Issued

11/14/2022 Public Notification Requested

1,1-DICHLOROETHYLENE	7/1/2022	Routine Monitoring, Major	11/14/2022	Notice of Violation Issued
			11/14/2022	Public Notification Requested
1,2,4-TRICHLOROBENZENE	7/1/2022	Routine Monitoring, Major	11/14/2022	Notice of Violation Issued
			11/14/2022	Public Notification Requested
1,2-DICHLOROETHANE	7/1/2022	Routine Monitoring, Major	11/14/2022	Notice of Violation Issued
			11/14/2022	Public Notification Requested
1,2-DICHLOROPROPANE	7/1/2022	Routine Monitoring, Major	11/14/2022	Notice of Violation Issued
			11/14/2022	Public Notification Requested
BENZENE	7/1/2022	Routine Monitoring, Major	11/14/2022	Notice of Violation Issued
			11/14/2022	Public Notification Requested
CARBON TETRACHLORIDE	7/1/2022	Routine Monitoring, Major	11/14/2022	Notice of Violation Issued
			11/14/2022	Public Notification Requested
CHLOROBENZENE	7/1/2022	Routine Monitoring, Major	11/14/2022	Notice of Violation Issued
			11/14/2022	Public Notification Requested
CIS-1,2-DICHLOROETHYLENE	7/1/2022	Routine Monitoring, Major	11/14/2022	Notice of Violation Issued
			11/14/2022	Public Notification Requested
DICHLOROMETHANE	7/1/2022	Routine Monitoring, Major	11/14/2022	Notice of Violation Issued
			11/14/2022	Public Notification Requested
ETHYLBENZENE	7/1/2022	Routine Monitoring, Major	11/14/2022	Notice of Violation Issued
			11/14/2022	Public Notification Requested
O-DICHLOROBENZENE	7/1/2022	Routine Monitoring, Major	11/14/2022	Notice of Violation Issued
			11/14/2022	Public Notification Requested
P-DICHLOROBENZENE	7/1/2022	Routine Monitoring, Major	11/14/2022	Notice of Violation Issued
			11/14/2022	Public Notification Requested
STYRENE	7/1/2022	Routine Monitoring, Major	11/14/2022	Notice of Violation Issued
			11/14/2022	Public Notification Requested
TETRACHLOROETHYLENE	7/1/2022	Routine Monitoring, Major	11/14/2022	Notice of Violation Issued
			11/14/2022	Public Notification Requested
TOLUENE	7/1/2022	Routine Monitoring, Major	11/14/2022	Notice of Violation Issued
			11/14/2022	Public Notification Requested

TRANS-1,2-DICHLOROETHYLENE

7/1/2022 Routine Monitoring, Major

11/14/2022 Notice of Violation Issued
11/14/2022 Public Notification Requested

TRICHLOROETHYLENE

7/1/2022 Routine Monitoring, Major

11/14/2022 Notice of Violation Issued
11/14/2022 Public Notification Requested

VINYL CHLORIDE

7/1/2022 Routine Monitoring, Major

11/14/2022 Notice of Violation Issued
11/14/2022 Public Notification Requested

XYLENES(TOTAL)

7/1/2022 Routine Monitoring, Major

11/14/2022 Notice of Violation Issued
11/14/2022 Public Notification Requested

TN0000618 EAST SEVIER COUNTY U.D.

Popul Group: Very Small

D/DBP Rule

Haloacetic Acids

7/1/2022 Routine Monitoring, Major

10/31/2022 Notice of Violation Issued
10/31/2022 Public Notification Requested

Trihalomethanes

7/1/2022 Routine Monitoring, Major

10/31/2022 Notice of Violation Issued
10/31/2022 Public Notification Requested

TN0000841 NORTON CREEK WATER SYSTEM

Popul Group: Very Small

Lead /Copper Rule

Lead / Copper

1/1/2022 Consumer Notification

12/1/2021 Notice of Violation Issued
12/1/2021 Public Notification Requested

Public Notification Rule

Public Notice

12/1/2022 Reporting Violation, Major

2/13/2023 Notice of Violation Issued

TN0001480 VENTURE OUT AT GATLINBURG

Popul Group: Very Small

Lead /Copper Rule

Lead / Copper

1/1/2022 Consumer Notification

12/1/2021 Notice of Violation Issued
12/1/2021 Public Notification Requested

Public Notification Rule

Public Notice

12/1/2022 Reporting Violation, Major

2/13/2023 Notice of Violation Issued

SHELBY COUNTY

TN0000262 GERMANTOWN WATER DEPT

Popul Group: Medium

Inorganics

Nitrates

1/1/2022

Routine Monitoring, Major

5/16/2023 Notice of Violation Issued

5/16/2023 Public Notification Requested

SMITH COUNTY

TN0000096 CORDELL HULL UTILITY DISTRICT

Popul Group: Very Small

D/DBP Rule

Trihalomethanes

4/1/2022

MCL Violation

8/9/2022 Notice of Violation Issued

8/9/2022 Public Notification Requested

9/2/2022 Public Notification Performed

7/1/2022

MCL Violation

10/31/2022 Notice of Violation Issued

10/31/2022 Public Notification Requested

11/21/2022 Public Notification Performed

10/1/2022

MCL Violation

2/1/2023 Notice of Violation Issued

2/1/2023 Public Notification Requested

2/22/2023 Public Notification Performed

TN0000910 SOUTH SIDE U.D. #2

Popul Group: Very Small

Lead /Copper Rule

Lead / Copper

1/1/2022

Consumer Notification

12/1/2021 Notice of Violation Issued

12/1/2021 Public Notification Requested

Public Notification Rule

Public Notice

12/1/2022

Reporting Violation, Major

2/13/2023 Notice of Violation Issued

TN0000953 SOUTH SIDE U.D. #3

Popul Group: Very Small

D/DBP Rule

Haloacetic Acids

1/1/2022

MCL Violation

4/25/2022 Notice of Violation Issued

4/25/2022 Public Notification Requested

5/11/2022 Public Notification Performed

9/30/2022 Returned to Compliance

1/12/2023 Director's Order

4/1/2022

MCL Violation

8/9/2022 Notice of Violation Issued

8/9/2022 Public Notification Requested

9/6/2022 Public Notification Performed

9/30/2022 Returned to Compliance

1/12/2023 Director's Order

TN0000718 TWENTY FIVE UTILITY DISTRICT

Popul Group: Very Small

D/DBP Rule

* Violation occurred prior to 2022, but extended into the 2022 calendar year.

Haloacetic Acids
1/1/2022 MCL Violation

4/25/2022 Notice of Violation Issued
4/25/2022 Public Notification Requested
5/2/2022 Public Notification Performed
6/30/2022 Returned to Compliance

STEWART COUNTY

TN0000162 CUMBERLAND CITY WATER DEPT

Popul Group: Very Small

Lead /Copper Rule
Lead / Copper
1/1/2022 Consumer Notification

12/1/2021 Notice of Violation Issued
12/1/2021 Public Notification Requested

Public Notification Rule
Public Notice
12/1/2022 Reporting Violation, Major

2/13/2023 Notice of Violation Issued

TN0000962 DOALNARA RESTORATION SOCI USA

Popul Group: Very Small

Lead /Copper Rule
Lead / Copper
1/1/2022 Consumer Notification

12/1/2021 Notice of Violation Issued
12/1/2021 Public Notification Requested
6/6/2023 Public Notification Performed

Public Notification Rule
Public Notice
12/1/2022 Reporting Violation, Major

2/13/2023 Notice of Violation Issued

TN0000960 HIDDEN HOLLOW WATER SYSTEM

Popul Group: Very Small

D/DBP Rule
Haloacetic Acids
7/1/2022 Routine Monitoring, Major

11/4/2022 Notice of Violation Issued
11/4/2022 Public Notification Requested
6/6/2023 Public Notification Performed

Trihalomethanes
7/1/2022 Routine Monitoring, Major

11/4/2022 Notice of Violation Issued
11/4/2022 Public Notification Requested
6/6/2023 Public Notification Performed

TN0000195 NORTH STEWART UTILITY DISTRICT

Popul Group: Small

D/DBP Rule
Haloacetic Acids
4/1/2022 MCL Violation

7/11/2022 Public Notification Performed
8/9/2022 Notice of Violation Issued
8/9/2022 Public Notification Requested
9/30/2022 Returned to Compliance

Trihalomethanes
4/1/2022 MCL Violation

7/11/2022 Public Notification Performed
8/9/2022 Notice of Violation Issued
8/9/2022 Public Notification Requested
9/30/2022 Returned to Compliance

TN0000916 WEST STEWART UTILITY DISTRICT

Popul Group: Very Small

Ground Water Rule
Failure to Treat
10/1/2022 Treatment Technique

11/30/2022 Returned to Compliance
12/13/2022 Notice of Violation Issued
12/13/2022 Public Notification Requested
12/23/2022 Public Notification Performed

SULLIVAN COUNTY

TN0000061 BLUFF CITY WATER DEPARTMENT

Popul Group: Very Small

Consumer Confidence Report Rule
Consumer Confidence Report
7/1/2022 Reporting Violation, Major

7/26/2022 Returned to Compliance
11/28/2022 Notice of Violation Issued

Lead /Copper Rule
Lead / Copper
1/1/2022 Consumer Notification

12/1/2021 Notice of Violation Issued
12/1/2021 Public Notification Requested
3/1/2023 Public Notification Performed

Public Notification Rule
Public Notice
7/23/2022 Reporting Violation, Major
12/1/2022 Reporting Violation, Major

11/18/2022 Notice of Violation Issued
2/13/2023 Notice of Violation Issued
3/22/2023 Returned to Compliance

TN0000073 BRISTOL DEPARTMENT OF UTILITI

Popul Group: Medium

Consumer Confidence Report Rule
Consumer Confidence Report
7/1/2022 Reporting Violation, Major

7/22/2022 Returned to Compliance
11/22/2022 Notice of Violation Issued

SUMNER COUNTY

TN0000559 PORTLAND WATER SYSTEM

Popul Group: Medium

Organics
ATRAZINE
4/1/2022 Routine Monitoring, Major

8/1/2022 Public Notification Requested

TIPTON COUNTY

TN0000440	MASON WATER DEPT	Popul Group: Small
	D/DBP Rule	
	Haloacetic Acids	
	7/1/2022	Routine Monitoring, Major
		11/10/2022 Notice of Violation Issued
		11/10/2022 Public Notification Requested
		12/7/2022 Public Notification Performed
		12/7/2022 Returned to Compliance
	Trihalomethanes	
	7/1/2022	Routine Monitoring, Major
		11/10/2022 Notice of Violation Issued
		11/10/2022 Public Notification Requested
		12/7/2022 Public Notification Performed
		12/7/2022 Returned to Compliance
	Public Notification Rule	
	Public Notice	
	3/10/2022	Reporting Violation, Major
		5/14/2022 Notice of Violation Issued
		5/24/2022 Returned to Compliance

UNION COUNTY

TN0008220	LEADMINE BEND WATER ASSOC.	Popul Group: Very Small
	Organics	
	ATRAZINE	
	4/1/2022	Routine Monitoring, Major
		8/8/2022 Notice of Violation Issued
		8/8/2022 Public Notification Requested

TN0000442	MAYNARDVILLE WATER DEPT	Popul Group: Small
	D/DBP Rule	
	Haloacetic Acids	
	4/1/2022	Routine Monitoring, Major
		8/9/2022 Notice of Violation Issued
		8/9/2022 Public Notification Requested
	Trihalomethanes	
	4/1/2022	Routine Monitoring, Major
		8/9/2022 Notice of Violation Issued
		8/9/2022 Public Notification Requested

TN0000899	OLD HICKORY WAT CO-UNION COUNT	Popul Group: Very Small
	Revised Total Coliform Rule	
	Total Coliforms	
	3/1/2022	Routine Monitoring
		4/30/2022 Returned to Compliance
		5/13/2022 Notice of Violation Issued
		5/13/2022 Public Notification Requested

* Violation occurred prior to 2022, but extended into the 2022 calendar year.

VAN BUREN COUNTY**TN0000655 SPENCER WATER SYSTEM**

Popul Group: Small

D/DBP Rule

Haloacetic Acids

7/1/2022 MCL Violation

10/31/2022 Notice of Violation Issued

10/31/2022 Public Notification Requested

10/1/2022 MCL Violation

2/1/2023 Notice of Violation Issued

2/1/2023 Public Notification Requested

Trihalomethanes

7/1/2022 MCL Violation

10/31/2022 Notice of Violation Issued

10/31/2022 Public Notification Requested

10/1/2022 MCL Violation

2/1/2023 Notice of Violation Issued

2/1/2023 Public Notification Requested

WASHINGTON COUNTY**TN0000338 JONESBOROUGH WATER DEPT**

Popul Group: Medium

D/DBP Rule

Trihalomethanes

7/1/2022 MCL Violation

10/31/2022 Notice of Violation Issued

10/31/2022 Public Notification Requested

11/16/2022 Public Notification Performed

4/19/2023 Returned to Compliance

WAYNE COUNTY**TN0000119 CLIFTON WATER DEPT**

Popul Group: Very Small

D/DBP Rule

Trihalomethanes

10/1/2022 MCL Violation

2/1/2023 Notice of Violation Issued

2/1/2023 Public Notification Requested

2/3/2023 Public Notification Performed

Inorganics

Nitrates

1/1/2022 Routine Monitoring, Major

5/17/2022 Notice of Violation Issued

5/17/2022 Public Notification Requested

5/24/2022 Public Notification Performed

6/30/2022 Returned to Compliance

TN0000127 COLLINWOOD WATER DEPT

Popul Group: Very Small

Lead /Copper Rule

Lead / Copper
1/1/2022

Consumer Notification

12/1/2021 Notice of Violation Issued
12/1/2021 Public Notification Requested
10/19/2022 Public Notification Performed

TN0000934

WAYNE CO. B.P.U. #3

Popul Group: Very Small

D/DBP Rule

Haloacetic Acids

1/1/2022

Routine Monitoring, Major

4/25/2022 Notice of Violation Issued
4/25/2022 Public Notification Requested
5/17/2022 Public Notification Performed
5/17/2022 Returned to Compliance
1/9/2023 Letter of Agreement

7/1/2022

Routine Monitoring, Major

10/31/2022 Notice of Violation Issued
10/31/2022 Public Notification Requested
1/9/2023 Letter of Agreement
3/14/2023 Public Notification Performed
3/31/2023 Returned to Compliance

10/1/2022

Routine Monitoring, Major

1/9/2023 Letter of Agreement
2/2/2023 Notice of Violation Issued
2/2/2023 Public Notification Requested
3/14/2023 Public Notification Performed
3/31/2023 Returned to Compliance

Trihalomethanes

1/1/2022

Routine Monitoring, Major

4/25/2022 Notice of Violation Issued
4/25/2022 Public Notification Requested
5/17/2022 Public Notification Performed
5/17/2022 Returned to Compliance
1/9/2023 Letter of Agreement

7/1/2022

Routine Monitoring, Major

10/31/2022 Notice of Violation Issued
10/31/2022 Public Notification Requested
1/9/2023 Letter of Agreement
3/14/2023 Public Notification Performed
3/31/2023 Returned to Compliance

10/1/2022

Routine Monitoring, Major

1/9/2023 Letter of Agreement
2/2/2023 Notice of Violation Issued
2/2/2023 Public Notification Requested
3/14/2023 Public Notification Performed
3/31/2023 Returned to Compliance

Public Notification Rule

Public Notice

7/23/2022

Reporting Violation, Major

11/18/2022 Notice of Violation Issued
1/9/2023 Letter of Agreement

Revised Total Coliform Rule

Total Coliforms

6/1/2022

Routine Monitoring

7/31/2022 Returned to Compliance
8/13/2022 Notice of Violation Issued
8/13/2022 Public Notification Requested
1/9/2023 Letter of Agreement
3/14/2023 Public Notification Performed

TN0008282

WAYNE CO. B.P.U. #4

Popul Group: Very Small

D/DBP Rule

Haloacetic Acids

7/1/2022

Routine Monitoring, Major

10/31/2022 Notice of Violation Issued

10/31/2022 Public Notification Requested

1/9/2023 Letter of Agreement

3/15/2023 Public Notification Performed

Trihalomethanes

7/1/2022

Routine Monitoring, Major

10/31/2022 Notice of Violation Issued

10/31/2022 Public Notification Requested

1/9/2023 Letter of Agreement

3/15/2023 Public Notification Performed

Revised Total Coliform Rule

Total Coliforms

6/1/2022

Routine Monitoring

7/31/2022 Returned to Compliance

8/13/2022 Notice of Violation Issued

8/13/2022 Public Notification Requested

1/9/2023 Letter of Agreement

3/15/2023 Public Notification Performed

WEAKLEY COUNTY

TN0000265

GLEASON WATER DEPT

Popul Group: Very Small

Consumer Confidence Report Rule

Consumer Confidence Report

7/1/2022

Reporting Violation, Major

7/21/2022 Returned to Compliance

11/22/2022 Notice of Violation Issued

Lead /Copper Rule

Lead / Copper

1/1/2022

Consumer Notification

12/1/2021 Notice of Violation Issued

12/1/2021 Public Notification Requested

11/23/2022 Public Notification Performed

TN0000627

SHARON WATER SYSTEM

Popul Group: Very Small

Lead /Copper Rule

Lead / Copper

1/1/2022

Consumer Notification

2/8/2022 Notice of Violation Issued

2/8/2022 Public Notification Requested

Organics

ALACHLOR (LASSO)

4/1/2022

Routine Monitoring, Major

8/22/2022 Notice of Violation Issued

8/22/2022 Public Notification Requested

ATRAZINE

4/1/2022

Routine Monitoring, Major

8/22/2022 Notice of Violation Issued

8/22/2022 Public Notification Requested

SIMAZINE

* Violation occurred prior to 2022, but extended into the 2022 calendar year.

WILLIAMSON COUNTY**TN0000246 FRANKLIN WATER DEPT**

Popul Group: Large

D/DBP Rule

Trihalomethanes

7/1/2022 MCL Violation

10/31/2022 Notice of Violation Issued

10/31/2022 Public Notification Requested

10/1/2022 MCL Violation

2/1/2023 Notice of Violation Issued

2/1/2023 Public Notification Requested

6/17/2023 Public Notification Performed

TN0008271 GATEWAY UTILITY COMPANY, INC.

Popul Group: Very Small

D/DBP Rule

Haloacetic Acids

10/1/2022 Routine Monitoring, Major

2/2/2023 Notice of Violation Issued

2/2/2023 Public Notification Requested

Trihalomethanes

10/1/2022 Routine Monitoring, Major

2/2/2023 Notice of Violation Issued

2/2/2023 Public Notification Requested

WILSON COUNTY**TN0000394 LAGUARDO UTILITY DISTRICT**

Popul Group: Medium

D/DBP Rule

Total Organic Carbon

4/1/2022 Routine Monitoring, Major

8/13/2022 Notice of Violation Issued

8/13/2022 Public Notification Requested

TN0000790 WILSON CO WATER & WASTEWATER

Popul Group: Medium

D/DBP Rule

Trihalomethanes

10/1/2022 MCL Violation

12/14/2022 Public Notification Performed

2/1/2023 Notice of Violation Issued

2/1/2023 Public Notification Requested

3/8/2023 Public Notification Performed

Non-Community Water Systems

CAMPBELL COUNTY

TN0004591	SHANGHAI RESORT	Popul Group:	Very Small
	Revised Total Coliform Rule		
	Total Coliforms		
	1/1/2022	Routine Monitoring	
			5/13/2022 Notice of Violation Issued
			5/13/2022 Public Notification Requested
			6/30/2022 Returned to Compliance
			12/8/2022 Public Notification Performed

TN0004768	SPRINGS DOCK	Popul Group:	Very Small
	Inorganics		
	Nitrates		
	1/1/2022	Routine Monitoring, Major	
			2/13/2023 Notice of Violation Issued
			2/13/2023 Public Notification Requested

COFFEE COUNTY

TN0003659	TENNESSEE HILLS CAMP GROUND	Popul Group:	Very Small
	Revised Total Coliform Rule		
	Total Coliforms		
	5/1/2022	Routine Monitoring	
			6/30/2022 Returned to Compliance
			7/19/2022 Notice of Violation Issued
			7/19/2022 Public Notification Requested
			8/1/2022 Public Notification Performed

CUMBERLAND COUNTY

TN0004788	CUMBERLAND MTN RETREAT CMPGD	Popul Group:	Very Small
	Public Notification Rule		
	Public Notice		
	3/15/2022	Reporting Violation, Major	
			5/14/2022 Notice of Violation Issued
	Revised Total Coliform Rule		
	Total Coliforms		
	9/1/2022	Routine Monitoring	
			11/14/2022 Notice of Violation Issued
			11/14/2022 Public Notification Requested

TN0003425	MOUNTAIN RIDGE GOLF CLUB	Popul Group:	Very Small
	Revised Total Coliform Rule		
	Total Coliforms		
	7/1/2022	Routine Monitoring	
			9/12/2022 Notice of Violation Issued

FAYETTE COUNTY**TN0002115 LONGTOWN BP & RESTAURANT**

Popul Group: Very Small

Public Notification Rule

Public Notice

3/2/2022

Reporting Violation, Major

5/14/2022 Notice of Violation Issued

Revised Total Coliform Rule

Total Coliforms

10/1/2022

Routine Monitoring

2/10/2023 Notice of Violation Issued

2/10/2023 Public Notification Requested

TN0005160 THE COUNTRY PLACE MINISTRY INN

Popul Group: Very Small

Revised Total Coliform Rule

Total Coliforms

7/1/2022

Routine Monitoring

11/14/2022 Notice of Violation Issued

11/14/2022 Public Notification Requested

TN0002120 THE COUNTRY PLACE MINISTRY KIT

Popul Group: Very Small

Revised Total Coliform Rule

Total Coliforms

7/1/2022

Routine Monitoring

11/14/2022 Notice of Violation Issued

11/14/2022 Public Notification Requested

HAMBLEN COUNTY**TN0002047 HOLTS BAPTIST CHURCH**

Popul Group: Very Small

Inorganics

Nitrates

1/1/2022

Routine Monitoring, Major

2/10/2023 Notice of Violation Issued

2/10/2023 Public Notification Requested

Revised Total Coliform Rule

Total Coliforms

7/1/2022

Routine Monitoring

11/14/2022 Notice of Violation Issued

11/14/2022 Public Notification Requested

10/1/2022

Routine Monitoring

2/14/2023 Notice of Violation Issued

2/14/2023 Public Notification Requested

HARDEMAN COUNTY**TN0004885 CHEROKEE LANDING RESORT**

Popul Group: Very Small

Public Notification Rule

HAYWOOD COUNTY

TN0001255	ZION BAPTIST CHURCH	Popul Group: Very Small
	Revised Total Coliform Rule Total Coliforms 1/1/2022	Routine Monitoring
		5/9/2022 Notice of Violation Issued 5/9/2022 Public Notification Requested

HENRY COUNTY

TN0005066	HALFWAY MARKET	Popul Group: Very Small Date Inactivated: 8/1/2022
	Revised Total Coliform Rule Total Coliforms 4/1/2022	Routine Monitoring
		8/13/2022 Notice of Violation Issued 8/13/2022 Public Notification Requested

LOUDON COUNTY

TN0001820	SWEETWATER VALLEY KOA	Popul Group: Very Small
	Revised Total Coliform Rule Total Coliforms 10/1/2022	Routine Monitoring
		2/14/2023 Notice of Violation Issued 2/14/2023 Public Notification Requested

MADISON COUNTY

TN0004467	JOY-O TRAVEL PARK	Popul Group: Very Small
	Revised Total Coliform Rule Total Coliforms 10/1/2022	Routine Monitoring
		2/10/2023 Notice of Violation Issued 2/10/2023 Public Notification Requested

MONROE COUNTY

TN0004532	BROKEN ARROW TRAVEL CAMP	Popul Group: Very Small
	Revised Total Coliform Rule Total Coliforms 10/1/2022	Routine Monitoring
		2/14/2023 Notice of Violation Issued 2/14/2023 Public Notification Requested

TN0004978	COUNTY LINE TAVERN & TR PL	Popul Group:	Very Small
			Date Inactivated: 12/31/2022
	Inorganics		
	Nitrates		
	1/1/2022	Routine Monitoring, Major	
			2/13/2023 Notice of Violation Issued
			2/13/2023 Public Notification Requested
	Revised Total Coliform Rule		
	Total Coliforms		
	4/1/2022	Routine Monitoring	
			8/13/2022 Notice of Violation Issued
			8/13/2022 Public Notification Requested

OBION COUNTY

TN0001623	ALAMO BAPTIST CHURCH	Popul Group:	Very Small
	Revised Total Coliform Rule		
	Total Coliforms		
	10/1/2022	Routine Monitoring	
			2/10/2023 Notice of Violation Issued
			2/10/2023 Public Notification Requested

RUTHERFORD COUNTY

TN0004390	FATE SANDERS MARINA, LLC	Popul Group:	Very Small
	Revised Total Coliform Rule		
	Total Coliforms		
	12/1/2022	Routine Monitoring	
			2/13/2023 Notice of Violation Issued
			2/13/2023 Public Notification Requested

SEVIER COUNTY

TN0005078	APPALACHIAN R.V. RESORT	Popul Group:	Very Small
	Revised Total Coliform Rule		
	Total Coliforms		
	1/1/2022	Routine Monitoring	
			5/13/2022 Notice of Violation Issued
			5/13/2022 Public Notification Requested
			5/19/2022 Public Notification Performed
			6/30/2022 Returned to Compliance
TN0005058	SMOKER HOLLER RV RESORT	Popul Group:	Very Small
	Public Notification Rule		
	Public Notice		
	8/17/2022	Reporting Violation, Major	
			11/18/2022 Notice of Violation Issued

SULLIVAN COUNTY

TN0004841 COCHRAN'S LAKEVIEW CAMPGROUND

Popul Group: Very Small

Revised Total Coliform Rule

Total Coliforms

4/1/2022

Routine Monitoring

8/13/2022 Notice of Violation Issued

8/13/2022 Public Notification Requested

5/21/2023 Public Notification Performed

TN0004588 MUSICK LAKESIDE CAMPGROUND

Popul Group: Very Small

Revised Total Coliform Rule

Total Coliforms

7/1/2022

Routine Monitoring

11/14/2022 Notice of Violation Issued

11/14/2022 Public Notification Requested

UNICOI COUNTY

TN0004634 USA RAFT

Popul Group: Very Small

Ground Water Rule

Disinfection

4/1/2022

Continuous or Grab Monitoring

6/6/2022 Notice of Violation Issued

6/6/2022 Public Notification Requested

10/25/2022 Director's Order

5/1/2022

Continuous or Grab Monitoring

7/19/2022 Notice of Violation Issued

7/19/2022 Public Notification Requested

10/25/2022 Director's Order

6/1/2022

Continuous or Grab Monitoring

8/13/2022 Notice of Violation Issued

8/13/2022 Public Notification Requested

10/25/2022 Director's Order

7/1/2022

Continuous or Grab Monitoring

9/12/2022 Notice of Violation Issued

9/12/2022 Public Notification Requested

10/25/2022 Director's Order

8/1/2022

Continuous or Grab Monitoring

10/12/2022 Notice of Violation Issued

10/12/2022 Public Notification Requested

10/25/2022 Director's Order

Public Notification Rule

Public Notice

8/17/2022

Reporting Violation, Major

11/18/2022 Notice of Violation Issued

9/17/2022

Reporting Violation, Major

11/18/2022 Notice of Violation Issued

Revised Total Coliform Rule

Total Coliforms

4/1/2022

Routine Monitoring

6/6/2022 Notice of Violation Issued

6/6/2022 Public Notification Requested

5/1/2022	Routine Monitoring	10/25/2022	Director's Order
		7/19/2022	Notice of Violation Issued
		7/19/2022	Public Notification Requested
6/1/2022	Routine Monitoring	10/25/2022	Director's Order
		8/13/2022	Notice of Violation Issued
		8/13/2022	Public Notification Requested
		10/25/2022	Director's Order

WEAKLEY COUNTY

TN0004353 LIBERTY APOSTOLIC CHURCH Popul Group: Very Small

Revised Total Coliform Rule
 Total Coliforms
 4/1/2022 Routine Monitoring

8/13/2022 Notice of Violation Issued
 8/13/2022 Public Notification Requested
 8/15/2022 Public Notification Performed
 9/30/2022 Returned to Compliance

TN0004586 STATION HOUSE RESTAURANT Popul Group: Very Small

Revised Total Coliform Rule
 Total Coliforms
 10/1/2022 Routine Monitoring

2/10/2023 Notice of Violation Issued
 2/10/2023 Public Notification Requested

* Violation occurred prior to 2022, but extended into the 2022 calendar year.

Non-Transient Non-Community Water Systems

DAVIDSON COUNTY

TN0004300 GLATFELTER SONTARA OLD HICKORY

Popul Group: Very Small

Interim Enhanced SWTR

Combined Filter Turbidity

6/1/2022

Treatment Technique, Monthly Average

7/31/2022 Returned to Compliance

8/13/2022 Notice of Violation Issued

8/13/2022 Public Notification Requested

8/16/2022 Public Notification Performed

12/2/2022 Director's Order

FAYETTE COUNTY

TN0002109 KELLOGG'S CONVENIENCE FOODS

Popul Group: Very Small

Inorganics

Nitrates

1/1/2022

Routine Monitoring, Major

2/13/2023 Notice of Violation Issued

2/13/2023 Public Notification Requested

Public Notification Rule

Public Notice

3/1/2022

Reporting Violation, Major

5/14/2022 Notice of Violation Issued

11/14/2022 Director's Order

Revised Total Coliform Rule

Total Coliforms

1/1/2022

Routine Monitoring

5/13/2022 Notice of Violation Issued

5/13/2022 Public Notification Requested

11/14/2022 Director's Order

6/1/2023 Public Notification Performed

FRANKLIN COUNTY

TN0005124 LHOIST NORTH AMERICA

Popul Group: Very Small

Organics

ALACHLOR (LASSO)

4/1/2022

Routine Monitoring, Major

8/11/2022 Notice of Violation Issued

8/11/2022 Public Notification Requested

8/15/2022 Public Notification Performed

8/16/2022 Returned to Compliance

ATRAZINE

4/1/2022

Routine Monitoring, Major

8/11/2022 Notice of Violation Issued

8/11/2022 Public Notification Requested

8/15/2022 Public Notification Performed

8/16/2022 Returned to Compliance

SIMAZINE

4/1/2022 Routine Monitoring, Major

8/11/2022 Notice of Violation Issued
8/11/2022 Public Notification Requested
8/15/2022 Public Notification Performed
8/16/2022 Returned to Compliance

HICKMAN COUNTY

TN0004910 ACCURATE ENERGETIC SYSTEMS

Popul Group: Very Small

Public Notification Rule
Public Notice
1/1/2022 Reporting Violation, Major

5/14/2022 Notice of Violation Issued

MCMINN COUNTY

TN0005222 HYDRA POOLS

Popul Group: Very Small

Inorganics
Nitrates
1/1/2022 Routine Monitoring, Major

2/13/2023 Notice of Violation Issued
2/13/2023 Public Notification Requested

Lead /Copper Rule
Lead / Copper
1/1/2022 Initial Monitoring

1/20/2023 Notice of Violation Issued
1/20/2023 Public Notification Requested

7/1/2022 Followup Monitoring

1/20/2023 Notice of Violation Issued
1/20/2023 Public Notification Requested

Public Notification Rule
Public Notice
4/7/2022 Reporting Violation, Major

8/15/2022 Notice of Violation Issued

Revised Total Coliform Rule
Total Coliforms
5/1/2022 Routine Monitoring

7/19/2022 Notice of Violation Issued
7/19/2022 Public Notification Requested

6/1/2022 Routine Monitoring

8/9/2022 Notice of Violation Issued
8/9/2022 Public Notification Requested

7/1/2022 Routine Monitoring

9/12/2022 Notice of Violation Issued
9/12/2022 Public Notification Requested

8/1/2022 Routine Monitoring

10/12/2022 Notice of Violation Issued
10/12/2022 Public Notification Requested

9/1/2022 Routine Monitoring

11/14/2022 Notice of Violation Issued
11/14/2022 Public Notification Requested

10/1/2022 Routine Monitoring

12/13/2022 Notice of Violation Issued
12/13/2022 Public Notification Requested

11/1/2022 Routine Monitoring

* Violation occurred prior to 2022, but extended into the 2022 calendar year.

12/1/2022 Routine Monitoring

1/18/2023 Notice of Violation Issued
1/18/2023 Public Notification Requested

2/15/2023 Notice of Violation Issued
2/15/2023 Public Notification Requested

MONROE COUNTY

TN0002942 COKER CREEK ELEMENTARY SCHOOL

Popul Group: Very Small

Inorganics

Nitrates

1/1/2022 Routine Monitoring, Major

2/13/2023 Notice of Violation Issued
2/13/2023 Public Notification Requested

SHELBY COUNTY

TN0004992 BLUES CITY BREWERY, LLC

Popul Group: Very Small

Lead /Copper Rule

Lead / Copper

1/1/2022 Followup Monitoring

1/23/2023 Notice of Violation Issued
1/23/2023 Public Notification Requested

WEAKLEY COUNTY

TN0004772 K-T CLAY COMPANY

Popul Group: Very Small

D/DBP Rule

Haloacetic Acids

7/1/2022 Routine Monitoring, Major

10/31/2022 Notice of Violation Issued
10/31/2022 Public Notification Requested

Trihalomethanes

7/1/2022 Routine Monitoring, Major

10/31/2022 Notice of Violation Issued
10/31/2022 Public Notification Requested

Revised Total Coliform Rule

Total Coliforms

4/1/2022 Routine Monitoring

8/13/2022 Notice of Violation Issued
8/13/2022 Public Notification Requested

Appendix 3
Systems with Significant Noncompliance
Compliance Status (1997- June 30, 2007)

PWSID	SYSTEM NAME	COMMENTS
0000023	ASHLAND CITY WATER DEPT	HAA5 & TTHM violations. (Cumberland River Source) RTC Aug 05
0000044	BELL BUCKLE WS	TTHM and HAA5 Jul02-Jun03 RTC Jul 03. DWR-03017 issued Nov 03
0000046	BELVIDERE RURAL UD	CO 94-0378 issued Sep 94, RTC Dec 94
0000061	BLUFF CITY WATER DEPT	Construct filter for Underwood Spring source, RTC 18 Feb 96 Disinfection Mon Violation Apr-Jun 06 Bact Mon Violation Apr 06
0000062	CHINQUAPIN GROVE UD	CO 96-0080 issued May 96, RTC 9 Jul 1997, Deactivated Jun 05
0000078	JACOBS CREEK JOB CORPS - USFS	Technical Assistance ca Aug 96
0000083	LOON BAY PROP. OWNERS ASSOC	System gave PN for Nitrate Mon violation (Dec 97), RTC 16 Dec 96
0000085	CARDERVIEW UD	SWTR Jun-sep 99, RTC Oct 99 Pb and Cu Jul 98-Jun 99, RTC Oct 99
0000094*	FIRST UD OF CARTER CO	(6) IESWTR Tx Tech & M/R Nov-Nov 06
0000099*	CELINA WATER SYSTEM	(6) IESWTR M/R 06-Nov 06
0000101	CENTER GROVE-WINCHESTER SPGS	CO 94-0373 issued Nov 94, RTC Dec 95
0000103	CENTERVILLE WATER SYSTEM	SWTR Tx Tech, Nov 03 – July 05, NONC 2/9/06
0000104	CHAPEL HILL WS	CO 96-0105 issued Jul 96, RTC 17 Jun 98 IESWTR Record Keeping Violation Nov 05 SWTR Treatment Technique Violation Dec 05
0000115	CLARKSBURG UD	DWR-0038 issued Nov 00, RTC Oct 00
0000119*	CLIFTON WATER DEPT	(14) IESWTR M/R May 05-Feb 07; order Apr 07
0000127	COLLINWOOD WATER DEPT	CO 96-02010 issued Sep 96 and DODWR-0032 Jan 01, RTC Jun 001 SWTR Treatment Technique Violation Apr 06
0000138	CHEROKEE HILLS UTILITY DIST	SWTR, Tx Tech, Oct 96 – May 98, Order 4/17/97
0000149*	CROSS ANCHOR UD	(6) D/DBP MCL and M/R Jan 04-Dec 06; LOA Mar 07
0000180	OAK SHADOWS MHP	CO 96-0333 issued Nov 96 and deactivated Jan 97
0000183	DECATUR WATER DEPT	CO 96-0181 issued Sep 96, RTC 31 Aug 97
0000187	DECHERD WATER DEPT	CO 91-3216 issued Oct 91, RTC 1 Feb 95
0000221	ELIZABETHTON WATER DEPT	Technical Assistance ca Feb 96
0000223	NORTH ELIZABETHTON WATER CO-OP	TCR Mon, Aug 97 – April 2005, Order 8/3/99
0000230	ERIN WTP	CO 96-0119 issued Jun 96, inactivated source
0000231	ERWIN UTILITIES	CO 96-0453 issued Mar 97, RTC 20 Dec 96 BACT MCL Feb 06
0000232	ESTILL SPRINGS WATER DEPT	Failure to Filter Jul 1996 through May 00, RTC June 00

0000246*	FRANKLIN WATER DEPT	(7) IESWTR M/R Aug 03-Dec 05; TCRM/R Jul 97-Jun 05; Order Jun 09
0000274	NORTH GREENE UD	TTHM MCL violations (Lick Creek Source) RTC May 05
0000291	HARTSVILLE WATER DEPT	(6) D/DBP MCL Jul 04-Sep 05; NONC Jan 07
0000294	HENDERSONVILLE UD	(14) IESWTR Mon & Tx Tech Jan 022-Nov 06; Order Apr 04
0000317	HUNTLAND WS	CO 96-0058 issued Apr 96, RTC 9 Jul 97
0000324*	JAMESTOWN WATER DEPT	(11) D/DBP MCL Jul 02-Sep 06; Order Oct 08
0000389	NORTHEAST LAWRENCE UD	HAA5 & TTHM MCL violations (Lawrenceburg Source) RTC Aug 05
0000391	NEW PROSPECT UD	HAA5 & TTHM MCL violations, (Lawrenceburg Source) RTC Aug 05
0000392	LAWRENCEBURG WATER SYSTEM	IESWTR Mon, Dec 03 – July 05, Order 7/09
0000396	LENOIR CITY UTILITY BOARD	IESWTR Mon, Jan 02-Jan 03,
0000402*	LEXINGTON WS	(6) D/DBP M/R Oct 02-Jun 05; NONC Aug 08
0000405	LIVINGSTON WATER DEPT	HAA5 MCL Oct 02 through Jun 03, RTC Jul 03
0000410	PINEY UTILITY DIST	CO 95-0122 issued Jul 95, RTC 20 Apr 96, deactivated Nov 99
0000426	HIWASSEE COLLEGE WS	(26) SWTR/IESWTR Apr 98-Nov 06; (6) TCR May 06-Nov 06; Order Jul 06
0000455	MIDDLETON WATER DEPT	DWR-0037 issued Nov 00. RTC Jan 01
0000472	MOORESBURG UD	Construct new filter plant (in-service Jan 97)
0000479	MOUNTAIN CITY WATER DEPT.	CO 96-0116 issued Aug 96, RTC 31 May 99
0000485	COLD SPRINGS UD	CO 96-0182 issued Aug 96, RTC 1 Feb 98
0000517	BEDFORD COUNTY UD	HAA5 Violations, (Duck River Source) RTC Sep 05
0000520	BRUSHY MTN PRISON	IESWTR monitoring violations, RTC Jul 06
0000525	OCOEE UTILITY DIST	CO 96-0195 issued Sep 96, RTC 16 Sep 98
0000559	PORTLAND WATER SYSTEM	IESWTR Records and Exceedances Feb through Sep 02, RTC Oct 02
0000572	RED BOILING SPRINGS WS	CO93-0587 issued Dec 93, DWR-0005 issued Feb 00, RTC 1 Nov 96
0000607	SAMBURG UTILITY DIST	7 TCR Mon, Dec 96 – July 04, Order 8/01
0000616	SEQUATCHIE WATER WORKS	Deactivated Aug 96
0000640	SNEEDVILLE UD	CO 96-0319 issued Nov 96, GUDI inactivated Bact Mon Violations Dec 05 and Jan 06
0000652*	SPARTA WS	(7) IESWTR Mon&TxTech Nov 06-Feb 07; Order Apr 08
0000656	SPRING CITY WATER SYSTEM	CO 94-0374 issued Nov 94, GUDI inactivated
0000678	THE FARM WATER SYSTEM	Lead & Copper, Jan 98 – Jun 00,
0000706	TRACY CITY WATER SYSTEM	Addressed in CO 84-0222 issued Aug 84, sources abandoned 1 Nov 96
0000724	VANLEER WATER DEPT	Chem SNC, RTC Jul 99
0000738	WESTMORELAND WS	HAA5 and TTHM MCL violations (Gallatin Source) RTC Aug 05
0000743	WEST WILSON UD	IESWTR monitoring and exceedances, Jan through Aug 02, RTC Sep 02

0000745	WHITE HOUSE UD	Equip repaired, RTC 1 Mar 99. No SWTR violations, RTC Oct 00
0000749	WHITWELL WATER DEPT	SWTR and IESWTR violations (RTC Jan 06)
0000754	WINCHESTER WS	THM MCL Oct 02-Dec 02 RTC Jan 03; Apr 03-Sep 03 RTC Dec 03
0000768	ANDERSON COUNTY UB	TOC Mon Jan-Mar 02 and HAA5 Mon Jan-Mar 02, RTC Apr 02
0000790	WILSON CO WATER & WASTEWATER	HAA5 MCL violations (Lebanon Source) RTC Apr 05
0000848	CUMBERLAND MTN RETREAT	DWR-9931 issued Dec 99, RTC Mar 99. Nitrate viol FY00, RTC May 01
0000888	MIDWAY TRAILER COURT	Mon and Pn for PB and CU - Nov 96, RTC 11 May 96, Deactivated Jan 06
0000899	HICKORY STAR MARINA	CO 96-0072 issued May 96, system to achieve compliance 1 Sep 01
0000916	LEATHERWOOD WATER DIST, INC	CO 97-0107 issued Aug 97, RTC 19 Sep 96
0000921	NATCHEZ TRACE YOUTH ACADEMY (formerly Seven Hawks Wilderness Program)	CO 96-0151 issued Jul 96, RTC 28 Feb 95 Bact Mon Violations Nov and Dec 05
0000923	HARBERTHILLS ACADEMY N.H.	10 TCR Mon, Dec 97 - May 2005,
0000952	HERITAGE ACADEMY	6 Rad MCL, July 00 - Mar 03, RTC 8/03
0000954*	COLONIAL HARBOR WS	(9) TCR Feb 00-Sep 05, Pb 7 Cu Jul 04-Dec 06; NONC Mar 06
0000958	BLUEBIRD HILLS MOBILE HOME formerly Wildwood MHP)	DWR-9702 issued Jul 97 and DWR-9906 issued Apr 99
0000961	ACORN VILLAGE MHP (formerly Gabbard's MHP)	Court Injunction (Case 96-0471) and deactivated Mar 01
0000962	DOALNARA RESTORATION SOC USA (formerly Elijah Gospel Mission)	DWR-9901 issued 27 Jan 99, RTC 8 Feb 99 Bact Mon Violation Apr 06
0002024	CLINCH SCHOOL	8 TCR Mon, Apr 99 - Oct 07,
0002109	KELLOGG'S CONVENIENCE FOODS	6 TCR Mon MCL, Oct 99 - Dec 04
0002645	KYLES FORD SCHOOL Deactivated May 01	DWR-9802 in Feb 98 and DWR-0006 in Feb 00, RTC 9 Jan 95,
0002997	SPINKS CLAY CO.	6 TCR Mon, Jan 08 - Oct 01
0003779	E.I. DUPONT, NEW JOHNSONVILLE	11 SWTR/IESWTR Mon, Aug 97 - Feb 05
0004300*	E.I. DUPONT, OLD HICKORY	(7) D/DBP Jan 04-Sep 06
0004441	H & H WHOLESALE, PRO-LINE	CO 96-0148 issued Nov 96, deactivated Aug 96
0004725	LITTLE TYKE'S DAYCARE	Deactivated Oct 00
0004726	COLLINWOOD HEAD START	Deactivated Aug 95
0004737	ANN AND ANDY'S DAY CARE CENTER	8 TCR Mon, Apr 98 - Sep 03
0004800	LITTLE PEOPLE UNIVERSITY	CO 97-0116 issued Jul 97, deactivated Aug 97
0004910	ACCURATE ENERGETIC SYSTEMS	6 TCR Mon, Jan 01 - July 03

0005063	NORTHWEST HEADSTART OF HUMBOLT	3 Lead & Copper, July 02 – Dec 03
0008033	COLD SPRINGS II WS	DWR-0003 issued Jan 01, deactivated Jun 00
0008130	LEWIS TRAILER PARK	7 TCR Mon, Oct 99 – Feb 05
0008233*	WARREN COUNTY UD #2	(6) D/DBP MCL Jan 07-Jun 07; Order May 09
0009940	BEECHVIEW CORPORATION	System Deactivated Mar 06

* Denotes system added for this reporting period.

Total: 92 Public Water Systems

CO – Commissioner’s Order

DWR-### – Director’s Order

DWR – Division of Water Resources

GUDI – Ground Water Under Direct Influence of Surface Water

Mon – Monitoring

PN – Public Notification

PWS – Public Water System

RTC – Return to Compliance

SS – Sanitary Survey

TA – Technical Assistance

Appendix 4

Capacity Development Plan Guidance Document

Pursuant to Tennessee Code Annotated Sections 68-221-706 and 68-221-707 the Department shall exercise general supervision over the construction, operation and maintenance of public water systems throughout the State of Tennessee. As one aspect of such general supervision, all new community public water systems shall submit a **Capacity Development Plan** for review and approval by the Department. Components of the Capacity Development Plan include an **Operation and Maintenance Plan**, an **Emergency Operations Plan**, a **Bacteriological Site Sampling Plan**, a **Business Plan**, etc. Together, these plans when followed assure continuous satisfactory operation of a water system. The submittal should be submitted to the Department's Division of Water Resources (DWR) and shall include, at minimum, the following information:

- Name, address and telephone number of the owner(s) or ultimate responsible party of the facility or public water system. Leaseholders or business owners may be responsible for managing and operating the facility on a day-to-day basis and included in list to obtain correspondence, but they are not the ultimate responsible party. The ultimate responsible party is (are) the **property owners**.
- Agreement to retain the services of a properly certified operator.
- Proof of retention of certified operator (copy of signed Operator Agreement).
- Name, address and telephone number of the **certified operator** in direct charge of the public water system. The certified operator also may be held responsible for violations incurred as a result of his/her oversight.
- An **Operation and Maintenance Plan** must be developed. The plan shall include information on staffing and organizational structure, accountability; and the system's fiscal management and controls. The plan shall identify Environmental Field Office (EFO) contacts, certified labs and lab contacts, the location of all operational component plans and the names and phone numbers of those responsible for implementing those plans, data management systems used, routine activity and facility maintenance schedules, training programs, and safety procedures and guidelines in effect.
- Agreement and statement of understanding indicating that **Plans and Specifications** shall be prepared and submitted for approval for any change, alteration or construction regarding the public water system. These include changes in process that affect water quality, hydraulic conditions, or the function of a process. These must be submitted and approved by the DWR. Projects that are being funded with Drinking Water State Revolving Funds (DWRRF) are submitted to the State Revolving Fund Loan Program (formerly the Division of Community Assistance or DCA). Such approval shall be obtained prior to initiation of the proposed project. "As-Builts" shall be submitted on completion of a project. A long-range system plan, including capital improvements plan is not required by the DWR, but may be desirable to the system.

- A **Source Water Assessment and Protection Plan** and/or **Wellhead Protection Plan** must be developed and submitted to the DWR for approval.
- Prepare and submit for review and approval a **Monitoring Plan** to the Division of Water Resources based on rules, and guidelines provided by the Division. Such plan will identify all parameters to be monitored (including Benzo(a)pyrene and asbestos) and a schedule for conducting that monitoring. Such plan will include all bacteriological contaminants and chemical parameters required by and in accordance with Division rules. One component of the Monitoring Plan will be a **Bacteriological Site Sampling Plan** (Information and guidance material is available upon request). The plan should address the number and location of follow-up sampling, public notification, etc. The Monitoring Plan should include (or execute) a **consolidation agreement** with parent water systems (where applicable) for the monitoring of lead and copper tap water. The Monitoring Plan should also note any parameters waived and when a parameter waiver expires.
- Establish and submit an **Emergency Operations Plan** (and Drought Management Plan if appropriate) for review and approval by the Division. The system may enter into an agreement indicating the intent to cooperate with the parent water system in the event of an emergency that interrupts water service and conveying its willingness to supply alternative potable water during a state of emergency if needed. (information and guidance material available upon request). An Emergency Operations Plan will outline system options, responses, conservation plans and other provisions in case of flooding, power outage, major fire, contamination, major line break, source contamination, drought, chemical release, etc.
- Develop a **Customer Complaint File** regarding water related issues to be maintained on site. Customer complaints with CWSs which relate to financial and/or managerial issues should have a UMRB or **SRF** number assigned. The file must contain customer name and address, date of complaint, nature of complaint, and action(s) taken to resolve the complaint. A Customer Relations plan is not required by the DWR, but may be desirable to the system.
- Agreement and statement of understanding indicating that **Monthly Operation Reports (MORs)** shall be submitted to the Division no later than ten (10) days following the end of the month being reported. The MOR shall accurately reveal the operation and performance of the water system during the reporting period.
- A **Cross Connection Control Program Plan** for the detection and elimination of cross connections must be submitted and approved by the Division of Water Resources (Information and guidance material is available upon request).
- A **Record Keeping Plan** shall be developed and maintained. Records kept shall include storage tank inspection and maintenance reports, Individual facility maintenance records, flushing records with beginning and ending chlorine residuals, chlorine residuals at new taps, facility security records (including vandalism, break-in, theft, and trespass), equipment maintenance and repair records (maintenance, calibrations, dates out-of-service, and repairs of pumps, meters, feeders and alarms), line breaks - maintenance and repair, distribution maps. Other records that must be kept include: bacteriological sample analyses, cross connection plans and inspection records, chemical analysis, sanitary surveys, actions to correct violations, turbidity records, daily worksheets and shift logs used to produce MORs, lead and copper related records, and public notices.

- A **Public Notifications and Public Education File** should be maintained. Efforts to inform customers of violations, Boil Water Advisories, and community education should be kept in a file. Further, Community Water Systems (CWSs) must prepare and submit a Consumer Confidence Report (CCR) annually.
- Agreement to remit annual **Facility Maintenance Fees** to the Division plus any penalties and interest charges which have accrued due to late or non-payment of the annual facility maintenance fee. Public water systems must also submit a **Business Plan**. The plan shall identify source(s) of income or revenue sufficient to meet expenses over a three (3) year period. The business plan will identify costs related to retaining a certified operator, estimated annual infrastructure repair cost, depreciation, facility maintenance fees, estimated annual monitoring costs, estimated costs of providing public notices, estimated administrative costs, and any other operational, treatment, and related costs (e.g. chemicals and other supplies used to treat water, etc.). The business plan must include the re-payment of borrowed and amortized funds.
- Agreement to comply with any and all laws, rules and/or regulations which are necessary or applicable to the public water system.

Appendix 5

Capacity Development - Business Plan (Financial Self-Assessment Manual)

The purpose of a business plan for a water system is to show that the proposed or continued operation of a water system will be viable from a financial standpoint. Business Plans can be/are a means of determining/assuring the viability of water systems from a financial standpoint. Operating a water system is like operating any business, and for any business to be successful, it needs to have a "business plan." The attached worksheet (or Financial Self-Assessment Manual) provides a framework to summarize and evaluate your business. Three columns are provided in order to show anticipated income and expenses over the next three years. "Year One" should cover the system's current business year. Columns are provided for listing "Income" and "Expenses" for the second and third years, if different, otherwise the figures shown in "Year One" will be assumed as intended. The "Total" or bottom line of the plan should combine "Total of all Expenses" and the "Total of all Income." If "Expenses" exceeds "Income" then rates, fees and/or other income must be increased or expenses must decrease in order for the system to be viable. If the cost of operating the water system is unacceptable, the water system may want to consider what alternatives are available. If drinking water, which meets Safe Drinking Water Act requirements is available or can be made available from another public water system at a reasonable cost it may be possible to deactivate the water system. Other options may exist if the water system is extremely small and water use is minimal. Your Environmental Field Office (EFO) must be consulted in this event (1-800-523-4873).

In addition, operating a water system requires two additional plans: a facility and specifications plan (technical), **and** an operation and maintenance plan (technical and managerial capacity), in addition to a business (financial) plan. In summary, a viable water system is "a public water system which has the commitment and the financial, managerial and technical capacity to consistently comply with the Tennessee Safe Drinking Water Act and these regulations." A water system is determined to be "non-viable" if it cannot meet state requirements.

Definitions:

Sales of Water (Conn x Rate x Min Mo Water Use) – The amount of income derived from water revenues. Such revenue typically is based on the number of connections, the rate or cost of water, and the minimum amount an account is allowed to be charged.

Tap Fees, Reconnect Fees and Bad Check Fees – Fees derived from setting new taps; fees collected after service is discontinued and there is a reconnection; and fees related to checks returned due to insufficient funds, etc.

Interest Earned – Revenue derived from interest accrued from system bank accounts, etc.

Other – Monies earned from rental or sale of equipment, services provided to other agencies or businesses, etc.

Cost of Water – If purchased from a PWS (Public Water System), royalties due to water rights holders, etc.

O&M – Expenses related to Operations and Maintenance. These would include the cost of chemicals (chlorine, lime, etc.), power, fuel (gas, gasoline and diesel fuel), transportation and communication expenses (vehicles and vehicle maintenance, repair equipment, mobile phones, etc.), monitoring costs (sample collection and lab costs), materials and supplies, normal repairs to lines and filters, and salaries and benefits of employees.

Administrative Costs – Insurance, office supplies, postage, legal, accounting, telephone, salaries and benefits for managers, and clerical workers.

Facility Maintenance Fee – Fee payable to the Division of Water Resources (DWR), Tennessee Department of Environment and Conservation (TDEC) on or about October 1 of each year.

A/E & Professional Services, Fees (including Billing Services) – Architectural and Engineering Fees, Professional Service Fees, including the cost of contracted billing services, etc.

Contracts – Backflow Prevention Testing, Certified Operators (on contract), etc.

Taxes or Payments in Lieu of Taxes – Payments of local, state and/or the federal government.

Debt Repayment – Loan Debt Service

Capital Improvements – The cost of physical improvements made to the facility. Capital improvements specifically related to a water system include the addition of filtration equipment, pumps to improve flows, the extension of the piping system.

Other Expenses - Public Notification (PN), public relations costs, employee training, civil penalties, etc.

Operating Cash Reserves – Funds available to meet expenses from a cash flow standpoint. Invariably there will be times when expenses will exceed anticipated revenues, whose obligations must be met prior to receiving additional income.

Emergency Reserves – Funds which are available to replace, repair, or meet unexpected new additional requirements, etc. which are unexpected due to a variety causes, including thief, fire, flood, vandalism, etc.

Business Plan Worksheet

Category	Specific Budget Items	Amount	Amount	Amount
		Year One	Year Two	Year Three
INCOME				
	Sales of Water (Conn X Rate X Min Mo Water Use)			
	Fees – Tap Fees			
	Fees – Reconnect Fees			
	Fees – Bad Check Fees			
	Interest Earned			
	Other (specify)			
Sub-Total	(Total Of All Income)			
EXPENSES				
	Cost of Water (if purchased from another PWS)			
	Operating and Maintenance Expenses			
	O&M – Chemicals			
	O&M – Electrical Power and other Fuel			
	O&M – Transp and Comm (Vehicle expense)			
	O&M – Monitoring			
	O&M – Materials, Supplies and Parts			
	O&M – Operator Salaries and Benefits			
	Administrative			
	Adm – Insurance			
	Adm – Ofc Supplies, Equipment and Postage			
	Adm – Legal and Accounting			
	Adm – Telephone			
	Adm – Salaries/Benefits - Managerial/Clerical			
	TDEC Facility Maintenance Fee			
	A/E & Prof Services/Fees (incl Billing Service)			
	Contracts (incl Backflow Prevention Testing, etc.)			
	Taxes or Payments in Lieu of Taxes			
	Debt Repayment (Bond/Loan Debt Service) Expense			
	Capital Improvements			
	Depreciation Expense			
	Other Expenses (PN, PR, Employee Training, etc.)			
	Operating Cash Reserves			
	Emergency Reserves			
Sub-Total	(Total Of All Expenses)			
TOTAL ¹	Net Income (or Loss)			

Signature: _____ Date: _____

¹ Note: Subtract "Total of All Expenses" from "Total of All Income." If "Expenses" exceeds "Income" then Rates and Fees must increase and/or Expenses must decrease. If no "Expenses" and "Income" are shown for the second and third years, figures are the same as shown in "Year One."

Appendix 6
DWSRF 2023 Priority Ranking List

Attached as separate document

DRINKING WATER STATE REVOLVING FUND

2023 Priority Ranking List

September 28, 2023

Total DWSRF Requested \$112,181,500

Total Green Requested \$3,239,900

Total FY23 Base Principal Forgiveness Amount \$2,774,000

Total FY23 BIL General Principal Forgiveness Amount \$14,886,080

+ Includes 5 points for having an approved Growth Plan

++ Small Communities serving a population of 20,000 or less

* Disadvantage Community (ATPI of 50 or less)

FY23 BIL funding cannot be combined with any other funding and must include construction.

FY23 Base funding cannot be combined with BIL Funding but can be combined with GPR funding under certain circumstances.

Rank Order	Priority Points+	ATPI	Pop. Served	Funding	Local Government	County	Project Description	Total Project Amount (\$)	GREEN Component Amount (\$)	FY23 Base Principal Forgiveness Amount (\$)	FY23 BIL Principal Forgiveness Amount (\$)	PWSID#	Anticipated Interest Rate (%)	Expected Term (Years)	Expected Loan Award Date (mm/yy)	Const. Start	Const. Completion
1	85	10	3,642	FY23 Base	Mason*	Tipton	Distribution System Improvements (Installation of approximately 22,000 LF of transmission main along Hwy 59; replacement of approximately 1,100 service waterlines; and the installation of 1,100 AMI meters.) Construction	\$ 3,454,000	\$ -	\$ 690,800	\$ -	TN0000440	1.11	5	Jan-24	Mar-25	Mar-26
2	85	10	3,642	FY23 Base	Mason++	Tipton	Distribution System Improvements (Installation of approximately 22,000 LF of transmission main along Hwy 59; replacement of approximately 1,100 service waterlines; and the installation of 1,100 AMI meters.) Planning and	\$ 446,000	\$ -	\$ 223,000	\$ -	TN0000440	1.11	5	Jan-24	NA	NA
3	85	10	6,154	FY23 BIL General	Huntingdon*	Carroll	Waterline Replacement (Replacement of approximately 12,200 LF of 8-inch and 10-inch diameter PVC waterlines along Main Street and Browning Hwy.) Construction	\$ 1,500,000	\$ -	\$ -	\$ 750,000	TN0000316	1.19	20	Apr-23	Jun-23	Jun-24
4	85	80	815	FY23 Base	East Sevier County Utility District++	Sevier	Distribution System Improvements (Evaluation of the water distribution system to include leak detection, GIS mapping, and hydraulic modeling to assess the condition of existing facilities; identify and prioritize leaks, breaks, repairs, and upgrades; and develop a plan to consolidate existing	\$ 500,000	\$ -	\$ 250,000	\$ -	TN0000618	2.78	5	Jul-23	NA	NA
5	65	0	6,164	FY23 BIL General	Decatur*	Meigs	New WTP (Construction of a new WTP and the development of a new water source.) Construction Only	\$ 14,875,000	\$ -	\$ -	\$ 5,000,000	TN0000183	1.30	30	Jan-24	May-24	Aug-26
6	65	10	10,957	FY23 BIL General	Cumberland Utility District*	Morgan/ Roane	WTP Improvements (Rehabilitate the existing raw water intake and filters; pump upgrades; replace actuator; and electrical improvements at the Brushy Mountain and Roane/Morgan County WTPs.) Construction Only	\$ 1,370,000	\$ -	\$ -	\$ 685,000	TN0000531	1.19	20	Jan-24	Jul-24	Jun-25

NOTE: Principal Forgiveness will be utilized from the BIL funding first to eligible entities that are ready-to-proceed and then from the Base Capitalization Grant until funds are expended.

DRINKING WATER STATE REVOLVING FUND

2023 Priority Ranking List

September 28, 2023

Total DWSRF Requested \$112,181,500

Total Green Requested \$3,239,900

Total FY23 Base Principal Forgiveness Amount \$2,774,000

Total FY23 BIL General Principal Forgiveness Amount \$14,886,080

+ Includes 5 points for having an approved Growth Plan

++ Small Communities serving a population of 20,000 or less

* Disadvantage Community (ATPI of 50 or less)

FY23 BIL funding cannot be combined with any other funding and must include construction.

FY23 Base funding cannot be combined with BIL Funding but can be combined with GPR funding under certain circumstances.

7	65	10	10,957	FY23 Base	Cumberland Utility District**	Morgan/ Roane	WTP Improvements (Rehabilitate the existing raw water intake and filters; pump upgrades; replace actuator; and electrical improvements at the Brushy Mountain and Roane/Morgan County WTP.) Planning and Design	\$ 152,500	\$ -	\$ 76,250	\$ -	TN0000531/ TN0000520	1.11	5	Jul-23	NA	NA
8	65	10	26,094	FY23 BIL General	LaFollette*	Campbell/ Claiborne	Waterline Replacement (Replacing approximately 12,000 LF of existing 6-inch diameter waterlines with 12-inch diameter DIP waterlines along SR-63.) Construction Only	\$ 5,500,000	\$ -	\$ -	\$ 2,750,000	TN0000374	1.30	30	Dec-23	Jun-24	Jun-25
9	65	10	26,094	FY23 BIL General	LaFollette*	Campbell/ Claiborne	Waterline Replacement (Replacing approximately 16,000 LF of 6-inch and 12-inch diameter waterlines along SR-63, E Elm Street, and Glade Springs Road.) Planning and Design	\$ 300,000	\$ -	\$ -	\$ -	TN0000374	1.11	5	Aug-23	NA	NA
10	65	30	5,644	FY23 BIL General	Spencer*	Van Buren	WTP Improvements (Replace existing raw water intake and booster pump station.)	\$ 6,000,000	\$ -	\$ -	\$ 3,000,000	TN0000655	1.96	30	Jan-24	Jul-24	Jul-26
11	65	50	3,980	FY23 Base	White Pine*	Jefferson	New Water Storage Tank (Construction of a 250,000 gallon WST.) Construction Only	\$ 1,000,000	\$ -	\$ 200,000	\$ -	TN0000746	2.61	30	Apr-24	Sep-24	Sep-25
12	65	50	3,980	FY23 Base	White Pine**	Jefferson	New Water Storage Tank (Construction of a 250,000 gallon WST.) Planning and Design	\$ 150,000	\$ -	\$ 75,000	\$ -	TN0000746	2.22	5	Apr-24	NA	NA
13	65	60	8,832	FY23 BIL General	Dandridge	Jefferson	Waterline Replacement (Replacement of approximately 8,400 LF of 10-inch diameter asbestos cement waterline with 12-inch diameter PVC waterline along Epco Drive and the Water Street Ave.) Construction Only	\$ 1,500,000	\$ -	\$ -	\$ -	TN0000170	2.61	30	Jan-24	Mar-24	Jun-25
14	65	60	8,832	FY23 Base	Dandridge**	Jefferson	Waterline Replacement (Replacement of approximately 8,400 LF of 10-inch diameter asbestos cement waterline with 12-inch diameter PVC waterline along Epco Drive and the Water Street Ave.) Planning and Design	\$ 225,000	\$ -	\$ 112,500	\$ -	TN0000170	2.22	5	Jan-24	NA	NA
15	65	60	14,915	FY23 BIL General	Harriman Utility Board	Roane	Distribution System Improvements (Construction of three 500 gpm water booster pump stations; and the installation of approximately 68,200 LF of 8-inch and 12-inch diameter DIP waterlines.) Construction Only	\$ 10,600,000	\$ -	\$ -	\$ -	TN0000287	2.61	30	Aug-23	Jul-24	Dec-25

NOTE: Principal Forgiveness will be utilized from the BIL funding first to eligible entities that are ready-to-proceed and then from the Base Capitalization Grant until funds are expended.

DRINKING WATER STATE REVOLVING FUND

2023 Priority Ranking List

September 28, 2023

Total DWSRF Requested \$112,181,500

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Total FY23 Base Principal Forgiveness Amount \$2,774,000

Total FY23 BIL General Principal Forgiveness Amount \$14,886,080

+ Includes 5 points for having an approved Growth Plan

++ Small Communities serving a population of 20,000 or less

* Disadvantage Community (ATPI of 50 or less)

FY23 BIL funding cannot be combined with any other funding and must include construction.

FY23 Base funding cannot be combined with BIL Funding but can be combined with GPR funding under certain circumstances.

16	65	60	14,915	FY23 Base	Harriman Utility Board**	Roane	Distribution System Improvements (Construction of three 500 gpm water booster pump stations; and the installation of approximately 68,200 LF of 8-inch and 12-inch diameter DIP waterlines.) Planning and Design	\$ 550,000	\$ -	\$ 250,000	\$ -	TN0000287	2.22	5	Aug-23	NA	NA
17	65	70	5,679	FY23 BIL General	New Market Utility District	Jefferson	Waterline Replacement (Installation of approximately 9.6 miles of 12-inch diameter HDPE transmission main.) Construction Only	\$ 2,000,000	\$ -	\$ -	\$ -	TN0000499	3.26	30	Dec-24	Sep-24	Sep-25
18	65	70	5,679	FY23 Base	New Market Utility District**	Jefferson	Waterline Replacement (Installation of approximately 9.6 miles of 12-inch diameter HDPE transmission main.) Planning and Design	\$ 250,000	\$ -	\$ 125,000	\$ -	TN0000499	2.78	5	Jan-24	NA	NA
19	45	10	10,957	FY23 BIL General	Cumberland Utility District*	Morgan/ Roane	Waterline Replacement (Replacement of approximately 32,000 LF of asbestos cement pipe with 6-inch diameter PVC waterlines.) Construction Only	\$ 3,356,200	\$ -	\$ -	\$ 1,678,100	TN0000531	1.19	20	Jul-23	Jul-24	Jun-25
20	45	10	10,957	FY23 Base	Cumberland Utility District**	Morgan/ Roane	Waterline Replacement (Replacement of approximately 32,000 LF of asbestos cement pipe with 6-inch diameter PVC waterlines.) Planning and Design	\$ 268,800	\$ -	\$ 134,400	\$ -	TN0000531	1.11	5	Jul-23	NA	NA
21	45	50	3,980	FY23 Base	White Pine*	Jefferson	Waterline Extension (Installation of approximately 2.5 miles of 6-inch diameter PVC waterlines along Hwy 113 and Champion Lane.) Construction Only	\$ 1,000,000	\$ -	\$ 200,000	\$ -	TN0000746	2.61	30	Apr-24	Sep-24	Sep-25
22	45	50	3,980	FY23 Base	White Pine**	Jefferson	Waterline Extension (Installation of approximately 2.5 miles of 6-inch diameter PVC waterlines along Hwy 113 and Champion Lane.) Planning and Design	\$ 150,000	\$ -	\$ 75,000	\$ -	TN0000746	2.22	5	Apr-24	NA	NA
23	45	50	9,161	FY23 Base	Bean Station Utility District**	Grainger	New Water Storage Tank (Construction of a 500,000 gallon prestressed concrete water storage tank along Lakeshore Road.) Planning and Design	\$ 200,000	\$ -	\$ 100,000	\$ -	TN0000041	2.22	5	Mar-24	NA	NA
24	45	70	23,607	FY23 Base	Shady Grove Utility District	Jefferson/ Sevier	Waterline Extension (Installation of approximately 6 miles of 4-inch through 8-inch diameter PVC waterlines to provide potable water to unserved areas in Sevier and Jefferson Counties.) Construction Only	\$ 3,000,000	\$ -	\$ -	\$ -	TN0000626	3.26	30	Apr-24	Sep-24	Sep-25

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DRINKING WATER STATE REVOLVING FUND

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25	45	70	23,607	FY23 BIL General	Shady Grove Utility District	Jefferson/Sevier	Waterline Extension Waterline Extension (Installation of approximately 6 miles of 4-inch through 8-inch diameter PVC waterlines to provide potable water to unserved areas in Sevier and Jefferson	\$ 300,000	\$ -	\$ -	\$ -	TN0000626	2.78	5	Apr-24	NA	NA
26	45	70	32,983	FY23 BIL General	Jonesborough	Washington	WTP Expansion (Expansion of the existing WTP from 4 MGD to 8 MGD to include replacement of the intake pumps; construction of a new sedimentation basin, flocculation basin, filter building and basin, flash mixer, and clearwell); and the	\$ 22,200,000	\$ -	\$ -	\$ -	TN0000338	3.26	30	Dec-23	Dec-23	Dec-25
27	45	70	40,805	FY23 Base	Lebanon	Wilson	Distribution System Improvements (Construction of a new booster station and backup power facility south of I-40.) Design and Construction	\$ 3,000,000	\$ -	\$ -	\$ -	TN0000393	3.26	30	Aug-23	Mar-24	Dec-24
28	45	70	40,805	FY23 Base	Lebanon	Wilson	New Water Storage Tank (Construction of a 2.0 MG WST.) Design and Construction	\$ 2,500,000	\$ -	\$ -	\$ -	TN0000393	3.26	30	Aug-23	Mar-24	Dec-24
29	25	0	12,962	FY23 Base	Brownsville Energy Authority**	Haywood	Waterline Extension (Installation of 12-inch diameter waterlines from Windrow Road to Anderson Avenue to create a loop and make the system more resilient.) Planning and Design	\$ 250,000	\$ -	\$ 125,000	\$ -	TN0000080	1.11	5	Jun-23	NA	NA
30	25	10	6,154	FY23 BIL General	Huntingdon*	Carroll	GREEN - Water Meter Replacement (Replacement of approximately 2,500 meters with new AMR meters.) Construction - Water Efficiency	\$ 1,250,000	\$ 1,250,000	\$ -	\$ 625,000	TN0000316	1.19	20	Apr-23	Jun-23	Jun-24
31	25	70	5,437	FY23 BIL General	Friendsville	Blount	GREEN - Water Meter Replacement (Installation of approximately 2,100 AMI meters with associated software.) Construction - Water Efficiency	\$ 1,189,900	\$ 1,189,900	\$ -	\$ 237,980	TN0000249	2.98	20	Dec-23	Jan-24	Dec-24
32	25	70	5,437	FY23 Base	Friendsville**	Blount	Water Meter Replacement (Installation of approximately 2,100 AMI meters with associated software.) Planning and Design	\$ 99,100	\$ -	\$ 49,550	\$ -	TN0000249	2.78	5	Jul-23	NA	NA
33	25	70	5,679	FY23 BIL General	New Market Utility District	Jefferson	GREEN - Water Meter Replacement (Replacing existing water meters with AMR meters throughout the service area.) Construction - Water Efficiency	\$ 800,000	\$ 800,000	\$ -	\$ 160,000	TN0000499	3.26	30	Dec-24	Sep-24	Sep-25
34	25	70	5,679	FY23 Base	New Market Utility District**	Jefferson	Water Meter Replacement (Replacement of approximately 2,500 meters with new AMR meters.) Planning and Design	\$ 175,000	\$ -	\$ 87,500	\$ -	TN0000499	2.78	5	Jan-24	NA	NA

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35	25	70	23,607	FY23 BIL General	Shady Grove Utility District	Jefferson/Sevier	Waterline Replacement (Installation of approximately 8.5 miles of 4-inch through 8-inch diameter PVC waterlines in Sevier and Jefferson Counties.) Construction	\$ 3,000,000	\$ -	\$ -	\$ -	TN0000626	3.26	30	Apr-24	Sep-24	Sep-25
36	25	70	23,607	FY23 BIL General	Shady Grove Utility District	Jefferson/Sevier	Waterline Replacement (Installation of approximately 8.5 miles of 4-inch through 8-inch diameter PVC waterlines in Sevier and Jefferson Counties.) Planning and Design	\$ 300,000	\$ -	\$ -	\$ -	TN0000626	2.78	5	Apr-24	NA	NA
37	25	70	32,983	FY23 BIL General	Jonesborough	Washington	New Water Transmission Main (Installation of approximately 33,000 LF of 24-inch diameter DIP transmission main from the Water Treatment Plant to Old Embreeville Road.)	\$ 12,625,000	\$ -	\$ -	\$ -	TN0000338	3.26	30	Dec-23	Dec-23	Dec-25
38	25	70	32,983	FY23 BIL General	Jonesborough	Washington	Waterline Extension (Installation of approximately 18,500 LF of 16-inch diameter DIP waterline on the north side of the town.)	\$ 6,145,000	\$ -	\$ -	\$ -	TN0000338	3.26	30	Jun-24	Dec-24	Dec-26
	80		242,383	FY23 Base or FY23 BIL General	Knoxville Utility Board	Knox	WTP Improvements (Rehabilitation of the rapid mix, flocculation, and sedimentation tanks; and improvements to the influent flow distribution structure and electrical system at the MBW Treatment Facility.)	\$ 1,860,000	\$ -	\$ -	\$ -	TN0000366	2.78	5	Jan-24	NA	NA
	90		12,028	FY23 Base or FY23 BIL General	Tuckaleechee Utility District	Blount	Distribution System Improvements (Replacement of the existing water booster station with a 1,000 GPM water booster station with VFDs.) Planning and Design	\$ 75,000	\$ -	\$ -	\$ -	TN0000714	2.78	5	Apr-24	NA	NA
	80		242,383	FY23 Base or FY23 BIL General	Knoxville Utility Board	Knox	Waterline Replacement (Replacement of approximately 31,000 LF of 4-inch through 24-inch diameter cast iron pipe in the Fort Sanders Area.) Planning and Design	\$ 850,000	\$ -	\$ -	\$ -	TN0000366	2.78	5	Jan-24	NA	NA
	50		9,161	FY23 Base or FY23 BIL General	Bean Station Utility District*	Grainger	New Water Storage Tank (Construction of a 500,000 gallon prestressed concrete water storage tank along Lakeshore Road.) Construction	\$ 1,200,000	\$ -	\$ 240,000	\$ 600,000	TN0000041	2.61	30	Mar-24	Sep-24	Jun-25
	20		9,013	FY23 Base or FY23 BIL General	Big Creek Utility District*	Grundy/Sequatchie/Marion	Waterline Replacement (Installation of approximately 50,000 LF of 6-inch through 12-inch diameter PVC and DIP transmission main.)	\$ 8,200,000	\$ -	\$ 1,640,000	\$ 4,100,000	TN0000122	1.30	30	Jun-24	Jan-25	Jun-26

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0	12,962	FY23 Base or FY23 BIL General	Brownsville Energy Authority*	Haywood	WTP Expansion (Addition of a new raw water well and high service pump.)	\$ 1,200,000	\$ -	\$ 240,000	\$ 600,000	TN0000080	1.19	20	Jun-23	Jan-24	Jan-25
60	2,945	FY23 Base or FY23 BIL General	Carthage	Smith	Waterline Replacement (Replacing aging waterlines constructed of cast iron, galvanized, and asbestos cement; and associated appurtenances throughout the distribution system.)	\$ 3,150,000	\$ -	\$ -	\$ -	TN0000095	2.61	30	Aug-23	Mar-23	Dec-24
10	31,973	FY23 Base or FY23 BIL General	Crossville	Cumberland	Waterline Extension (Installation of approximately 6,000 LF of 16-inch diameter waterlines along City Lake and Taylor's Chapel Road to Spruce Loop.)	\$ 950,000	\$ -	\$ 190,000	\$ 475,000	TN0000150	1.30	30	Mar-23	Oct-23	Oct-24
80	15,755	FY23 Base or FY23 BIL General	Cunningham Utility District	Montgomery	Waterline Extension (Installation of approximately 52,200 LF of 4-inch and 6-inch diameter PVC waterlines to provide potable water to unserved areas in southwest Montgomery County.)	\$ 1,000,000	\$ -	\$ -	\$ -	TN0000167	3.26	30	Oct-23	Jan-24	Dec-24
40	13,683	FY23 Base or FY23 BIL General	Fayetteville*	Lincoln	WTP Expansion (Expansion of the existing WTP from 4.5 MGD to 8 MGD.)	\$ 25,000,000	\$ -	\$ 2,500,000	\$ 5,000,000	TN0000242	1.79	20	Jun-24	Mar-25	Dec-27
20	1,594	FY23 Base or FY23 BIL General	Gainesboro*	Jackson	WTP Expansion (Expanding the existing WTP from 0.72 MGD to 1.5 MGD.)	\$ 10,500,000	\$ -	\$ 2,100,000	\$ 5,000,000	TN0000251	1.30	30	Sep-24	Mar-25	Feb-27
80	242,383	FY23 Base or FY23 BIL General	Knoxville Utility Board	Knox	Waterline Replacement (Replacement of approximately 31,000 LF of 4-inch through 24-inch diameter cast iron pipe in the Fort Sanders Area.)	\$ 8,500,000	\$ -	\$ -	\$ -	TN0000366	2.98	20	Jan-26	Unknown	Unknown
80	242,383	FY23 Base or FY23 BIL General	Knoxville Utility Board	Knox	WTP Improvements (Rehabilitation of the rapid mix, flocculation, and sedimentation tanks; and improvements to the influent flow distribution structure and electrical system at the MBW Treatment Facility.)	\$ 19,300,000	\$ -	\$ -	\$ -	TN0000366	2.98	20	Jan-26	Unknown	Unknown
10	26,094	FY23 Base or FY23 BIL General	LaFollette	Campbell/ Claiborne	Distribution System Improvements (Phase I - Installation of approximately 21,750 LF of 6-inch diameter waterlines along Shoun Hollow Road, Flat Hollow Road, and Flatwoods Lane; and the construction of a booster pump station	\$ 3,500,000	\$ -	\$ 700,000	\$ 1,750,000	TN0000374	1.30	30	Dec-23	Jun-24	Jun-25

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10	26,094	FY23 Base or FY23 BIL General	LaFollette	Campbell/Claiborne	Waterline Extension (Phase II - Installation of waterlines along Pine Hollow Road, Big 4 Road, Melvin Hollow Road, Reed Lane, Knoxville Hollow Road, Sinking Creek Road, Water Street, Springview Drive, Haven Lane, and Hwy 25W to provide water to unserved homes in the rural service	\$ 3,000,000	\$ -	\$ 600,000	\$ 1,500,000	TN0000374	1.30	30	Dec-23	Jun-24	Jun-25
10	26,094	FY23 Base or FY23 BIL General	LaFollette	Campbell/Claiborne	Waterline Replacement (Replacing approximately 12,000 LF of 6-inch and 8-inch diameter waterlines with 12-inch diameter waterlines.)	\$ 7,000,000	\$ -	\$ 1,400,000	\$ 3,500,000	TN0000374	1.30	30	Aug-23	Jun-24	Jun-25
20	14,491	FY23 Base or FY23 BIL General	Livingston*	Overton	WTP Improvements (Installation of a new raw water pump, screen, and ball valves at the existing WTP.)	\$ 800,000	\$ -	\$ 160,000	\$ 400,000	TN0000405	1.19	20	Jan-24	Jan-24	Dec-24
20	14,491	FY23 Base or FY23 BIL General	Livingston*	Overton	GREEN - Water Meter Replacement (Installation of approximately 5,100 AMI and zone meters in the rural areas.) Water Efficiency	\$ 3,500,000	\$ 3,500,000	\$ 700,000	\$ 1,750,000	TN0000405	1.19	20	Jan-24	Jan-24	Dec-24
30	7,149	FY23 Base or FY23 BIL General	Maynardville*	Union	Distribution System Improvements (Installation of SCADA at two WTPs, five water storage tanks, and eight water booster stations.)	\$ 285,000	\$ -	\$ 57,000	\$ 142,500	TN0000442	1.79	20	Jan-24	Jul-24	Dec-24
30	7,149	FY23 Base or FY23 BIL General	Maynardville*	Union	GREEN - Water Meter Replacement (Installation of approximately 3,000 AMI meters, approximately 40 commercial meters, and 5 district meters.) Water Efficiency	\$ 1,446,382	\$ 1,446,382	\$ 289,276	\$ 723,191	TN0000442	1.79	20	Jan-24	Jul-24	Sep-24
80	2,126	FY23 Base or FY23 BIL General	Norris	Anderson	Distribution System Improvements (Provide an interconnection source for water redundancy.)	\$ 3,000,000	\$ -	\$ -	\$ -	TN0000513	3.26	30	Jun-23	Jan-28	Jan-29
50	14,499	FY23 Base or FY23 BIL General	Pigeon Forge*	Sevier	WTP Improvements (Installation of approximately 13 miles of a 24-inch diameter raw waterline from Douglas Lake to the City of Pigeon Forge; and improvements to the raw water intake and pump station.)	\$ 37,000,000	\$ -	\$ 2,500,000	\$ 5,000,000	TN0000548	2.61	30	Jan-24	Mar-24	Sep-25

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0	7,877	FY23 Base or FY23 BIL General	Ripley*	Lauderdale	Water Line Replacement (Phase 2- Replacement of approximately 6,000 LF of 10-inch diameter asbestos cement waterlines with 12-inch diameter PVC waterlines along Highway 209 from Webb Avenue East to Marvin Drive; and the replacement of approximately 40 service lines, and associated appurtenances.) Construction	\$ 1,420,000	\$ -	\$ 284,000	\$ 710,000	TN0000580	1.19	20	Oct-23	Dec-23	Dec-24
40	10,721	FY23 Base or FY23 BIL General	Rockwood*	Roane	WTP Improvements (Installation of mixers in the flocculating basins, replace valves and actuators in the filter pipe gallery, renovate laboratory and control room, convert existing lighting to LED, and electrical	\$ 6,300,000	\$ -	\$ 1,260,000	\$ 3,150,000	TN0000590	1.96	30	Aug-23	Oct-23	Oct-24
90	12,028	FY23 Base or FY23 BIL General	Tuckaleechee Utility District	Blount	New Water Storage Tank (Construction of a 72,000 gallon WST.)	\$ 600,000	\$ -	\$ -	\$ -	TN0000714	3.26	30	Sep-23	Jun-24	Dec-24
90	12,028	FY23 Base or FY23 BIL General	Tuckaleechee Utility District	Blount	GREEN - Distribution System Improvements (Replacement of the existing water booster station with a 1,000 GPM water booster station with VFDs.) Construction Energy Efficiency	\$ 1,200,000	\$ 1,000,000	\$ 240,000	\$ 240,000	TN0000714	3.26	30	Dec-23	Apr-24	Apr-25
40	27,524	FY23 Base or FY23 BIL General	Warren County Utility District	Warren/ Grundy/ Cannon/ White/ DeKalb/ Van Buren	WTP Improvements (Construction of an additional sedimentation basin and chemical building, replacing equipment in the existing sedimentation basins, installation of a new high service pumping system, modifications to the flash mixing system, and electrical	\$ 6,000,000	\$ -	\$ 1,200,000	\$ 3,000,000	TN0000818	1.96	30	Jun-24	Jul-25	Dec-26
20	14,942	FY23 Base or FY23 BIL General	Watts Bar Utility District*	Roane/ Meigs/ Rhea/ Loudon/ McMinn	WTP Improvements (Replacing existing filters at the WTPs with ceramic membrane filters to remove PFAS.)	\$ 3,400,000	\$ -	\$ 680,000	\$ 1,700,000	TN0000872	1.30	30	Oct-23	May-24	May-26
20	14,942	FY23 Base or FY23 BIL General	Watts Bar Utility District*	Roane/ Meigs/ Rhea/ Loudon/ McMinn	GREEN - Water Meter Replacement (Replacing approximately 5,600 existing meters with AMR meters.) Water Efficiency	\$ 2,000,000	\$ 2,000,000	\$ 400,000	\$ 1,000,000	TN0000872	1.30	30	Oct-23	May-24	May-26
40	18,054	FY23 Base or FY23 BIL General	West Warren-Viola Utility District*	Warren/ Coffee/ Grundy	Distribution System Improvements (Installation of a 1,000 GPM pumping station and the replacement of approximately 50,000 LF of waterlines.)	\$ 8,000,000	\$ -	\$ 1,600,000	\$ 4,000,000	TN0000742	1.96	30	Jun-24	Jan-25	Jul-26

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	40	18,054	FY23 Base or FY23 BIL General	West Warren-Viola Utility District*	Warren/ Coffee/ Grundy	WTP Improvements (Construction of a new raw water intake, installation of new raw water pumps, and electrical system improvements.)	\$ 2,500,000	\$ -	\$ 500,000	\$ 1,250,000	TN0000742	1.96	30	Jul-24	Jul-25	Jun-26
	70	5,411	FY23 Base or FY23 BIL General	Witt Utility District	Hamblen/ Jefferson	Waterline Extension (Installation of approximately 163,500 LF of 2-inch, 6-inch, 8-inch, 10-inch, 12-inch diameter waterlines by method of open cut and/or horizontally directional bore in Jefferson County)	\$ 19,534,300	\$ -	\$ -	\$ -	TN0000650	2.98	20	Jul-23	Jan-24	Dec-25

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Appendix 7
Training Activities
(July 1, 2022-June 30, 2023)

Attached as separate document

COMMUNITIES Unlimited

P.O. Box 396
Waynesboro, TN 38485
W 931-332-6579
Annie.chiodo@communitiesu.org
www.communitiesU.org

	Project Name	City	Population
1	Alamo	Alamo	2461
2	Bell Buckle	Bell Buckle	647
3	Camp Davey Crockett	Whiteville	300
4	Camp Marymount	Fairfield	250
5	Candlewood-Limestone Utilities	Saulsbury	81
6	Cherokee Hills Utility District	Copperhill	258
7	Cumberland Gap	Cumberland Gap	494
8	Deerfield	LaFollette	909
9	Doalnara Restoration	Dover	76
10	Gates	Gates	647
11	Grand Valley Lakes	Saulsbury	745
12	Graysville Town of	Graysville	1667
13	Henning	Henning	1025
14	Henry	Henry	506
15	Hidden Valley	Nunnelly	1018
16	Hornbeak	Hornbeak	1409
17	Hornbeak Utility District	Springville	5155
18	I-40 Hideaway	Waverly	96
19	Indian Creek Youth Camp	Liberty	350
20	Kenton	Kenton	1381
21	Mason	Mason	3642
22	Newport Resort	Athens	130
23	Puryear	Puryear	833
24	Reelfoot Lake Regional Utility	Tiptonville	615
25	Reelfoot Water Association	Hornbeak	651
26	Rives	Rives	246
27	Roane Central Utility	Harriman	7704
28	Rogers Spring Lake	Middleton	401
29	Samburg	Samburg	777
30	Scotts Hill	Scotts Hill	4446
31	Sharon	Sharon	1368
32	Trezevant	Trezevant	751
33	Union Fork-Bakewell Utility District	Sale Creek	5419
34	Victory Ranch	Bolivar	500
35	Wartrace	Wartrace	3667
36	Whiteville	Whiteville	1456
37	Woodland Mills	Woodland Mills	338
38	Woodrun Lakes	Middleton	498
39	Wooten Woods	Only	100
		Total	53,017

TDEC DWR Training: July 1, 2022 - June 30, 2023

DATE	NUMBER	SUBJECT	LOCATION
9/7/2022	25	Fleming Training Center (FTC) Lab QA Seminar	Murfreesboro, TN
9/20/2022	75	TWWA Training - SDWA Update	Athens, TN
10/6/2022	45	TN Backflow Prevention Association Annual Conference	Gatlinburg, TN
12/6/2022	NA	R4 AWOP Meeting/CCT Workshop	MS Teams
12/6/2022	50	TWWA - Lower East Region	Charleston, TN
1/4/2023	17	TAUD Drinking Water Update	Lawrenceburg, TN
2/22/2023	60	TAUD Safe Drinking Water Act Update	Chattanooga, TN
3/2/2023	50	TAUD Technology Conference	Knoxville, TN
3/8/2023	30	TAUD Region 2 Meeting	Knoxville, TN
3/9/2023	25	TAUD Region 3 Meeting	Norris, TN
4/18/2023	NA	R4 AWOP Meeting/Membrance Treatment/Data Integrity Workshop	Muscle Shoals, AL
5/18/2023	100	TAUD Operator Expo	Lebanon, TN
6/7/2023	15	FTC Trouble Shooting Forum	Murfreesboro, TN
6/20/2023	45	Lenoir City Operator Training	Lenoir City, TN

MTAS Utility Training: July 2022 - June 2023

Session	Date	# of Participants
Elected Officials Academy Level II	8/12/2022, 8/13/2022	51
Effective Governance	8/13/2022, 8/14/2022	193
Effective Governance	9/22/2022	15
Financial Oversight	10/12/2022	21
Elected Officials Academy Level I-Foundations, Charters	10/11/2022	51
Elected Officials Academy Level I-Ethics, Open Meetings, Public Records	10/13/2022	55
Elected Officials Academy Level I-Effective Meetings, Finance	10/18/2022	47
Elected Officials Academy Level I-HR, Risk, Strategic Planning	10/20/2022	51
Water/Wastewater Systems Overview	11/2/2022	27
Ethics	11/9/2022	54
Elected Officials Academy Municipal Foundations: Foundations, Charters	1/24/2023	117
Elected Officials Academy Municipal Foundations: Ethics, Open Meetings, Public Records	1/25/2023	124
Elected Officials Academy Municipal Foundations: Effective Meetings, Finance	1/26/2023	120
Utility Boards 101 - Training and Reporting Requirements	1/31/2023	64
PEP Risk Management Series - Building Culture of Safety	2/28/2023, 3/8/2023	55
Local Government Fraud	5/4/2023	42
Cybersecurity	5/11/2023	45
PEP Risk Management Series - Property Conservation	5/16/2023	32
Robert's Rules of Order: Get the Best from Your Meetings	6/1/2023	71
Asset Management	6/6/2023	25
2023 Municipal Legislative Update	6/14/2023, 6/15/2023	254
**approved for utility training by TN Comptroller's Office		

Fleming Training Center

Class Number	Class Name	Begin Date	End Date	Total Enrollments	Location
1009	1009 - Math Fundamentals for Operators-in-Training	8/9/2022	8/11/2022	11	Fleming Training Center
1009	1009 - Math Fundamentals for Operators-in-Training	2/22/2023	2/24/2023	10	Fleming Training Center
1009-V	1009-V - Math Fundamentals for Operators-in-Training	8/9/2022	8/11/2022	1	Online
1009-V	1009-V - Math Fundamentals for Operators-in-Training	2/22/2023	2/24/2023	7	Online
1014	1014 - Basic Math for All Certifications	9/6/2022	9/9/2022	25	Fleming Training Center
1014	1014 - Applied Math for All Certifications (Week 1)	4/3/2023	4/6/2023	50	Fleming Training Center
1014-V	1014-V - Basic Math for All Certifications	9/6/2022	9/9/2022	6	Online
1014-V	1014-V - Applied Math for All Certifications (Week 1)	4/3/2023	4/6/2023	28	Online
1100	1100 - Distribution Systems Tutoring	5/8/2023	5/8/2023	3	Fleming Training Center
1100	1100 - Distribution Systems Tutoring	5/15/2023	5/15/2023	1	Fleming Training Center
1100	1100 - Distribution Systems Tutoring	5/22/2023	5/22/2023	2	Fleming Training Center
1101	1101 - Applied Math for Water Treatment (Week 2)	10/24/2022	10/28/2022	14	Fleming Training Center
1101	1101 - Applied Math for Water Treatment (Week 2)	4/17/2023	4/21/2023	18	Fleming Training Center
1101-V	1101-V - Applied Math for Water Treatment (Week 2)	10/24/2022	10/28/2022	4	Online

1101-V	1101-V - Applied Math for Water Treatment (Week 2)	4/17/2023	4/21/2023	6	Online
1102	1102 - Applied Math for Distribution Systems	10/17/2022	10/21/2022	28	Fleming Training Center
1102	1102 - Applied Math for Distribution Systems (Week 2)	5/16/2023	5/20/2023	18	Fleming Training Center
1102-V	1102-V - Applied Math for Distribution Systems	10/17/2022	10/21/2022	17	Online
1103	1103 - Distribution Systems Grades 1 & 2	8/22/2022	8/26/2022	32	Fleming Training Center
1103	1103 - Introduction to Distribution Systems	5/1/2023	5/5/2023	34	Fleming Training Center
1103-V	1103-V - Distribution Systems Grades 1 & 2	8/22/2022	8/26/2022	16	Online
1104	1104 - Distribution System Board Sanctioned Training	1/18/2023	1/20/2023	4	Fleming Training Center
1105	1105 - Water Treatment Board Sanctioned Training	1/30/2023	2/3/2023	6	Fleming Training Center
1200	1200 - Collection Systems Tutoring	5/22/2023	5/22/2023	0	Fleming Training Center
1201	1201 - Applied Math for Wastewater Treatment	10/24/2022	10/28/2022	20	Fleming Training Center
1201	1201 - Applied Math for Wastewater Treatment (Week 2)	4/17/2023	4/21/2023	9	Fleming Training Center
1201-V	1201-V - Applied Math for Wastewater Treatment	10/24/2022	10/28/2022	12	Online
1201-V	1201-V - Applied Math for Wastewater Treatment (Week 2)	4/17/2023	4/21/2023	3	Online
1202	1202 - Applied Math for Collection Systems	10/17/2022	10/20/2022	14	Fleming Training Center

1202	1202 - Applied Math for Collection Systems (Week 2)	5/2/2023	5/5/2023	8	Fleming Training Center
1202-V	1202-V - Applied Math for Collection Systems	10/17/2022	10/20/2022	10	Online
1202-V	1202-V - Applied Math for Collection Systems (Week 2)	5/2/2023	5/5/2023	1	Online
1203	1203 - Collections Systems Grades 1 & 2	8/22/2022	8/26/2022	27	Fleming Training Center
1203	1203 - Introduction to Collection Systems	3/20/2023	3/24/2023	31	Fleming Training Center
1204	1204 - Collection System Board Sanctioned Training	1/18/2023	1/20/2023	7	Fleming Training Center
1205	1205 - Wastewater Board Sanctioned Training	1/30/2023	2/3/2023	8	Fleming Training Center
1207	1207 - Biological/Natural Systems	10/4/2022	10/7/2022	4	Fleming Training Center
1207	1207 - Biological/Natural Systems	5/30/2023	6/2/2023	7	Fleming Training Center
2001	2001 - Small Water Systems	10/4/2022	10/6/2022	3	Fleming Training Center
2001	2001 - Small Water Systems	5/23/2023	5/25/2023	3	Fleming Training Center
2001-V	2001-V - Small Water Systems	10/4/2022	10/6/2022	3	Online
2001-V	2001-V - Small Water Systems	5/23/2023	5/25/2023	7	Online
2010	2010 - Introduction to Laboratory Methods	8/1/2022	8/5/2022	8	Fleming Training Center
2103	2103 - Cross Connection Control Basic Workshop	7/20/2022	7/22/2022	10	Fleming Training Center
2103	2103 - Cross Connection Control Basic Workshop	7/27/2022	7/29/2022	7	Fleming Training Center
2103	2103 - Cross Connection Control Basic Workshop	8/31/2022	9/2/2022	13	Fleming Training Center

2103	2103 - Cross Connection Control Basic Workshop	9/14/2022	9/16/2022	8	Fleming Training Center
2103	2103 - Cross Connection Control Basic Workshop	9/28/2022	9/30/2022	10	City of Alcoa Service
2103	2103 - Cross Connection Control Basic Workshop	10/11/2022	10/13/2022	2	Fleming Training Center
2103	2103 - Cross Connection Control Basic Workshop	11/2/2022	11/4/2022	13	Fleming Training Center
2103	2103 - Cross Connection Control Basic Workshop	11/30/2022	12/2/2022	16	Fleming Training Center
2103	2103 - Cross Connection Control Basic Workshop	12/7/2022	12/9/2022	14	Fleming Training Center
2103	2103 - Cross Connection Control Basic Workshop	12/14/2022	12/16/2022	13	Fleming Training Center
2103	2103 - Cross Connection Control Basic Workshop	1/10/2023	1/12/2023	11	Fleming Training Center
2103	2103 - Cross Connection Control Basic Workshop	1/24/2023	1/26/2023	14	Fleming Training Center
2103	2103 - Cross Connection Control Basic Workshop	2/14/2023	2/16/2023	14	Fleming Training Center
2103	2103 - Cross Connection Control Basic Workshop	2/28/2023	3/2/2023	16	Fleming Training Center
2103	2103 - Cross Connection Control Basic Workshop	3/14/2023	3/16/2023	15	Fleming Training Center
2103	2103 - Cross Connection Control Basic Workshop	4/11/2023	4/13/2023	13	Fleming Training Center
2103	2103 - Cross Connection Control Basic Workshop	4/25/2023	4/27/2023	11	City of Alcoa Service
2103	2103 - Cross Connection Control Basic Workshop	5/9/2023	5/11/2023	13	Fleming Training Center
2103	2103 - Cross Connection Control Basic Workshop	5/23/2023	5/25/2023	16	Fleming Training Center

2103	2103 - Cross Connection Control Basic Workshop	6/20/2023	6/22/2023	16	Fleming Training Center
2112	2112 - Water Treatment Lab - Week 1	8/15/2022	8/19/2022	6	Fleming Training Center
2112	2112 - Water Treatment Lab - Week 1	3/20/2023	3/24/2023	9	Fleming Training Center
2121	2121 - Wastewater Treatment Tutoring	5/8/2023	5/8/2023	5	Fleming Training Center
2121	2121 - Wastewater Treatment Tutoring	5/15/2023	5/15/2023	1	Fleming Training Center
2122	2122 - Water Treatment Lab - Week 2	8/29/2022	9/2/2022	6	Fleming Training Center
2122	2122 - Water Treatment Lab - Week 2	4/10/2023	4/14/2023	9	Fleming Training Center
2201	2201 - Introduction to Wastewater Treatment All Grades	7/11/2022	7/29/2022	22	Fleming Training Center
2201	2201 - Introduction to Wastewater Treatment All Grades	1/9/2023	1/27/2023	17	Fleming Training Center
2201	2201 - Introduction to Wastewater Treatment All Grades	6/12/2023	6/30/2023	27	Fleming Training Center
2205	2205 - Intermediate Activated Sludge	3/29/2023	3/31/2023	10	Fleming Training Center
2212	2212 - Wastewater Treatment Lab - Week 1	9/12/2022	9/16/2022	17	Fleming Training Center
2212	2212 - Wastewater Treatment Lab - Week 1	2/27/2023	3/3/2023	9	Fleming Training Center
2222	2222 - Wastewater Treatment Lab - Week 2	9/26/2022	9/30/2022	17	Fleming Training Center

2222	2222 - Wastewater Treatment Lab - Week 2	3/13/2023	3/17/2023	10	Fleming Training Center
3101	3101 - Introduction to Water Treatment for All Grades	7/11/2022	7/29/2022	26	Fleming Training Center
3101	3101 - Introduction to Water Treatment for All Grades	1/9/2023	1/27/2023	19	Fleming Training Center
3101	3101 - Introduction to Water Treatment for All Grades	6/12/2023	6/30/2023	21	Fleming Training Center
3102	3102 - Cross Connection Renewal Workshop	7/19/2022	7/19/2022	15	Fleming Training Center
3102	3102 - Cross Connection Renewal Workshop	8/9/2022	8/9/2022	15	Fleming Training Center
3102	3102 - Cross Connection Renewal Workshop	9/13/2022	9/13/2022	10	Fleming Training Center
3102	3102 - Cross Connection Renewal Workshop	9/27/2022	9/27/2022	6	City of Alcoa Service
3102	3102 - Cross Connection Renewal Workshop	10/14/2022	10/14/2022	10	Fleming Training Center
3102	3102 - Cross Connection Renewal Workshop	11/29/2022	11/29/2022	16	Fleming Training Center
3102	3102 - Cross Connection Renewal Workshop	12/13/2022	12/13/2022	17	Fleming Training Center
3102	3102 - Cross Connection Renewal Workshop	1/27/2023	1/27/2023	15	Fleming Training Center
3102	3102 - Cross Connection Renewal Workshop	2/10/2023	2/10/2023	18	Fleming Training Center
3102	3102 - Cross Connection Renewal Workshop	3/17/2023	3/17/2023	17	Fleming Training Center
3102	3102 - Cross Connection Renewal Workshop	4/14/2023	4/14/2023	13	Fleming Training Center
3102	3102 - Cross Connection Renewal Workshop	4/28/2023	4/28/2023	5	City of Alcoa Service

3102	3102 - Cross Connection Renewal Workshop	5/26/2023	5/26/2023	17	Fleming Training Center
3102	3102 - Cross Connection Renewal Workshop	6/23/2023	6/23/2023	14	Fleming Training Center
3103	3103 - Coagulation / Flocculation Workshop	2/22/2023	2/24/2023	13	Fleming Training Center
3110	3110 - Advanced Water Treatment	9/19/2022	9/23/2022	16	Fleming Training Center
3110	3110 - Advanced Water Treatment	2/6/2023	2/10/2023	18	Fleming Training Center
3120	3120 - Water Treatment Review	10/11/2022	10/13/2022	6	Fleming Training Center
3120	3120 - Water Treatment Review	4/24/2023	4/28/2023	17	Fleming Training Center
3121	3121 - Water Treatment Tutoring	5/15/2023	5/15/2023	1	Fleming Training Center
3121	3121 - Water Treatment Tutoring	5/22/2023	5/22/2023	2	Fleming Training Center
3201	3201 - Advanced Wastewater Treatment	8/29/2022	9/2/2022	23	Fleming Training Center
3201	3201 - Advanced Wastewater Treatment	2/6/2023	2/10/2023	11	Fleming Training Center
3225	3225 - Advanced Activated Sludge	6/6/2023	6/7/2023	17	Fleming Training Center
3300	3300 - Backflow Repair Class	9/9/2022	9/9/2022	6	Fleming Training Center
3300	3300 - Backflow Repair Class	11/18/2022	11/18/2022	8	Fleming Training Center
3300	3300 - Backflow Repair Class	2/17/2023	2/17/2023	8	Fleming Training Center
3300	3300 - Backflow Repair Class	5/12/2023	5/12/2023	16	Fleming Training Center
4101	4101 - Wastewater Treatment CE Seminar - Day 1	9/20/2022	9/20/2022	2	Fleming Training Center
4101	4101 - Wastewater Treatment CE Seminar - Day 1	4/3/2023	4/3/2023	9	Fleming Training Center

4104	4104 - Wastewater/Collection Systems CE Seminar	4/5/2023	4/5/2023	27	Fleming Training Center
4191	4191 - Wastewater Treatment CE Seminar - Online	9/20/2022	9/20/2022	11	Online
4191	4191 - Wastewater Treatment CE Seminar - Online	4/3/2023	4/3/2023	10	Online
4194	4194 - Wastewater/Collection Systems CE Seminar	4/5/2023	4/5/2023	38	Online
4204	4204 - Water Treatment/Distribution Systems CE Seminar	6/7/2023	6/7/2023	8	Fleming Training Center
4301	4301 - All Certs CE Seminar - Day 1	8/10/2022	8/10/2022	15	Fleming Training Center
4302	4302 - All Certs CE Seminar - Day 2	8/11/2022	8/11/2022	8	Fleming Training Center
4304	4304 - Wastewater and Water Treatment CE Seminar	8/2/2022	8/2/2022	0	Fleming Training Center
4304	4304 - Wastewater and Water Treatment CE Seminar	8/9/2022	8/9/2022	6	Fleming Training Center
4330	4330 - Wastewater Lab CE Seminar	7/7/2022	7/7/2022	9	Fleming Training Center
4391	4391 - All Certifications CE Seminar - Online	8/10/2022	8/10/2022	33	Online
4392	4392 - All Certs CE Seminar - Day 2	8/11/2022	8/11/2022	19	Online
4394	4394 - Wastewater and Water Treatment CE Seminar-Online	8/9/2022	8/9/2022	33	Online
4400	4400 - Water and Wastewater CE Seminar	9/7/2022	9/8/2022	20	Fleming Training Center
5000	5000 - FTC TEST 1	12/1/2022	12/1/2022	1	Fleming Training Center
5002	5002 - DWR Wastewater & Collection Inspector Training	5/9/2023	5/12/2023	16	Fleming Training Center

TAUD Training Activities

Activity	Format	Start Date
Work Zone Safety	Classroom	7/6/2022
Flagger Certification Course	Classroom	7/7/2022
Cross Connection Renewal (See max# in description)	Classroom	7/12/2022
Practical Math for Wastewater Operators	Hybrid	7/12/2022
TOSHA Basic Safety For Utilities	Classroom	7/12/2022
Cross Connection Basic	Classroom	7/13/2022
Work Zone Safety	Classroom	7/20/2022
Flagger Certification Course	Classroom	7/21/2022
Fundamentals of Collection Systems	Hybrid	7/18/2022
Fundamentals of Water Treatment	Hybrid	7/25/2022
Practical Math for Distribution Operators	Classroom	7/26/2022
Practical Math for Distribution Operators	Classroom	7/26/2022
Fundamentals of Water Treatment	Classroom	8/1/2022
Crane Safety/Qualified Rigger & Signal Person	Classroom	8/2/2022
Business of Running A Utility Conference		8/10/2022
Emergency Operations	Classroom	8/16/2022
Introduction to Pumps and Motors	Hybrid	8/16/2022
Emergency Operations	Classroom	8/17/2022
Pump & Motor Use and Valve Maintenance in WT & WW	Hybrid	8/17/2022
Emergency Operations	Classroom	8/18/2022
Emergency Pumps and Motors	Hybrid	8/18/2022
Fundamentals of Wastewater Treatment Systems	Hybrid	8/22/2022
Cross Connection Renewal	Classroom	8/23/2022
Cross Connection Basic	Classroom	8/24/2022
Fundamentals of Water Distribution	Hybrid	8/29/2022

Fundamentals of Water Treatment	Classroom	8/29/2022
Practical Math for Water Treatment Plant Operators	Classroom	8/30/2022
Cross Connection Renewal	Classroom	9/6/2022
Cross Connection Basic	Classroom	9/7/2022
TOSHA Basic Safety For Utilities	Classroom	9/7/2022
Work Zone Safety	Classroom	9/26/2022
Membrane Water Treatment Class	Classroom	9/13/2022
Confined Space	Classroom	9/14/2022
Flagger Certification Course	Classroom	9/14/2022
Arc Flash/Electrical Safety Training	Classroom	9/15/2022
Trench Excavation Competent Person	Classroom	9/15/2022
Confined Space Advanced (MOST)	Classroom	9/20/2022
Lead and Copper Rule Webinar A	Webinar	9/21/2022
Water Quality After the Meter and Customer Complaints	Hybrid	9/22/2022
Lead and Copper Rule Webinar B	Webinar	9/23/2022
Cross Connection Renewal	Classroom	9/26/2022
Cross Connection Basic	Classroom	9/27/2022
TOSHA Basic Safety For Utilities	Hybrid	9/27/2022
TOSHA Health Hazards For Industry	Hybrid	9/28/2022
Cross Connection Renewal	Classroom	10/3/2022
Cross Connection Basic	Classroom	10/4/2022
Practical Math for Distribution Operators	Hybrid	10/4/2022
Water Loss Workshop	Classroom	10/11/2022
Cross Connection Renewal	Classroom	10/17/2022
Surface Water Treatment	Hybrid	10/18/2022
Cross Connection Basic	Classroom	10/18/2022
Knoxville Collection Systems Cram	Classroom	10/31/2022

Knoxville Distribution System Cram	Classroom	10/31/2022
Knoxville Wastewater Treatment Cram	Classroom	10/31/2022
Knoxville Water Treatment Cram	Classroom	10/31/2022
Murfreesboro Collection System Cram	Hybrid	10/31/2022
Murfreesboro Distribution System Cram	Hybrid	10/31/2022
Murfreesboro Wastewater Treatment Cram	Hybrid	10/31/2022
Murfreesboro Water Treatment Cram	Hybrid	10/31/2022
Cross Connection Renewal	Classroom	11/14/2022
Bacteriological Compliance	Classroom	11/15/2022
Bacteriological Sampling	Classroom	11/15/2022
Cross Connection Basic	Classroom	11/15/2022
Flagger Certification Course-Private	Classroom	11/16/2022
Bacteriological Monitoring and Reporting	Classroom	11/16/2022
Bacteriological Compliance	Classroom	11/29/2022
Bacteriological Sampling	Classroom	11/29/2022
Bacteriological Monitoring and Reporting	Classroom	11/30/2022
Cross Connection Renewal (Classroom)	Classroom	1/10/2023
Cross Connection Basic (Classroom)	Classroom	1/11/2023
Safe Drinking Water Act Update (H)	Hybrid	1/17/2023
Wastewater Issues and Regulation Update (H)	Hybrid	1/18/2023
Collection Systems Issues and Update (H)	Hybrid	1/19/2023
Fundamentals of Collection Systems (H)	Hybrid	1/23/2023
Practical Math for Distribution Operators (Classroom)	Classroom	1/31/2023
Practical Math for Wastewater Operators (H)	Hybrid	1/31/2023
Fundamentals of Water Treatment (H)	Hybrid	2/13/2023
Cross Connection Renewal (Classroom)	Classroom	2/14/2023
Cross Connection Basic (Classroom)	Classroom	2/15/2023
Wastewater Issues and Regulation Update (Classroom)	Classroom	2/15/2023
Collection Systems Issues and Update (Classroom)	Classroom	2/16/2023
ORNL 2023 Quarterly Operator Training (Classroom)	Classroom	2/21/2023
Cross Connection Program Administration (Classroom)	Classroom	2/22/2023
Cross Connection Program Administration (Classroom)- CA	Classroom	2/23/2023
Cross Connection Basic (Classroom)	Classroom	2/28/2023
TECHNOLOGY CONFERENCE		3/1/2023
Fundamentals of Water Distribution (H)	Hybrid	3/6/2023

Cross Connection Renewal (Classroom)	Classroom	3/7/2023
Post Storm Response Safety Class (Classroom)- CANCELED	Classroom	3/7/2023
Confined Space (Classroom)- CANCELED	Classroom	3/8/2023
Cross Connection Basic (Classroom)	Classroom	3/8/2023
Trench Excavation Competent Person (Classroom)	Classroom	3/9/2023
Fundamentals of Water Distribution (Classroom)	Classroom	3/13/2023
Fundamentals of Water Treatment (Classroom)	Classroom	3/13/2023
Fundamentals of Wastewater Treatment Systems (H)	Hybrid	3/13/2023
Sustainability Workshop (Classroom)	Classroom	3/20/2023
CPR/AED/Basic First Aid Class (Classroom)	Classroom	3/21/2023
Cross Connection Renewal (Classroom)	Classroom	3/21/2023
Membrane Water Treatment Class (Classroom)	Classroom	3/21/2023
Safe Drinking Water Act Update (Classroom)	Classroom	3/21/2023
Cross Connection Basic (Classroom)- CANCELED	Classroom	3/22/2023
Safe Drinking Water Act Update (Classroom)	Classroom	3/22/2023
Wastewater Issues and Regulation Update (Classroom)	Classroom	3/22/2023
Collection Systems Issues and Update (Classroom)- CANCEL	Classroom	3/23/2023
Safe Drinking Water Act Update (Classroom)	Classroom	3/23/2023
Cross Connection Program Administration (H)	Hybrid	3/28/2023
Practical Math for Distribution Operators (H)	Hybrid	3/28/2023
Cross Connection Program Administration (Classroom)- CA	Classroom	3/29/2023
Cross Connection Renewal (Classroom)	Classroom	4/3/2023
Cross Connection Basic (Classroom)	Classroom	4/4/2023
ORNL 2023 Quarterly Operator Training (Classroom)	Classroom	4/4/2023
Practical Math for Water Treatment Plant Operators (H)	Hybrid	4/4/2023
Safe Drinking Water Act Update (Classroom)- rescheduled f	Classroom	4/5/2023
Cross Connection Renewal (Classroom)	Classroom	4/11/2023
Cross Connection Basic (Classroom)	Classroom	4/12/2023
Fundamentals of Water Distribution (Classroom)	Classroom	4/17/2023
Surface Water Treatment (H)- CANCELED	Hybrid	4/18/2023
Safe Drinking Water Act Update (Classroom)	Classroom	4/19/2023
Safe Drinking Water Act Update (Classroom)	Classroom	4/20/2023
Sustainability Workshop (Classroom)	Classroom	4/21/2023
Cross Connection Renewal (Classroom)	Classroom	4/25/2023
Cross Connection Basic (Classroom)	Classroom	4/26/2023
Wastewater Emerging Contaminants -Day 1 (H)	Hybrid	4/26/2023
Wastewater Emerging Contaminants -Day 2 (H)	Hybrid	4/27/2023
Knoxville Collection Cram (Classroom)	Classroom	5/1/2023
Knoxville Distribution Cram (Classroom)	Classroom	5/1/2023
Knoxville Wastewater Cram (Classroom)	Classroom	5/1/2023
Knoxville Water Cram (Classroom)	Classroom	5/1/2023
Murfreesboro Collection System Cram (H)	Hybrid	5/1/2023
Murfreesboro Distribution System Cram (H)	Hybrid	5/1/2023
Murfreesboro Wastewater Treatment Cram (H)	Hybrid	5/1/2023
Murfreesboro Water Treatment Cram (H)	Hybrid	5/1/2023
Post Storm Response Safety Class (Classroom)	Classroom	5/9/2023
Lead and Copper Rule Webinar A (W)	Webinar	5/9/2023

Appendix 8
FY23 TN Board of Utility Regulation Financial Distressed Cases

Attached as separate document

Entity Number	Entity Name	Assignee
1580	Adamsville	West
1590	Atoka	West
1591	Atwood	West
1601	Benton	East
9910	Benton-Decatur Special Sewer District	West
1603	Bethel Springs	West
2900	Blountville Utility District	East
1611	Brighton	West
2902	Bristol-Bluff City Utility District	East
1624	Celina	Middle
9032	Cheatham County Water and Wastewater Authority	Middle
1631	Clarksburg	West
2908	Clearfork Utility District	East
1634	Clifton	West
3316	Cold Springs Utility District	East
1639	Collinwood	West
1440	Crockett Mills Utility District	West
1651	Cumberland Gap	East
1656	Decherd	Middle
1664	Dyer	West
1673	Erin	West
1684	Friendship	West
2665	Gallaway	West
1691	Gates	West
1694	Gibson	West
1696	Gleason	West
1698	Gordonsville	Middle
1699	Grand Junction	West
1700	Graysville	East
1702	Greenbrier	Middle
1476	Grundy County	Middle
1708	Harriman	East
1975	Harrogate	East
1712	Henning	West
1716	Hollow Rock	West
1718	Hornsby	West
2936	Intermont Utility District	East
2622	Iron City Utility District	West
2623	Leoma Utility District	West
1497	Lincoln County	Middle
1752	Linden	West
6845	Lone Oak Utility District	East
1758	Luttrell	East
1760	Lynnville	Middle
1766	Maury City	West
2940	Mooresburg Utility District	East

1809 Obion	West
1272 Oliver Springs	East
1811 Oneida	East
1817 Parrottsville	East
1820 Petersburg	Middle
2839 Quebeck-Walling Utility District	Middle
1804 Red Boiling Springs	Middle
2946 Roan Mountain Utility District	East
1841 Rogersville	East
1843 Rutherford	West
1844 Rutledge	East
1853 Sharon	West
1861 Sneedville	East
13747 South Fork Utility District	East
1865 South Fulton	West
4047 South Side Utility District	Middle
1868 Spencer	Middle
2632 Spring Creek Utility District of Hardeman County	West
1871 St. Joseph	West
1872 Stanton	West
2687 Sunbright	East
1877 Tellico Plains	East
1878 Tennessee Ridge	West
1879 Tiptonville	West
1880 Toone	West
1884 Trezevant	West
1885 Trimble	West
13382 Tullahoma Utilities Authority	Middle
1891 Vanleer	Middle
1895 Wartburg	East
10892 Water & Wastewater Treatment Authority of Coffee Coun	Middle
1898 Watertown	Middle
1535 Wayne County	West
2505 Woodlawn Utility District	West

Appendix 9
TN Capacity Development Plan Asset Management Addendum

Attached as separate document

Tennessee Capacity Development Plan Asset Management Addendum

The America's Water Infrastructure Act of 2018 requires, in part, that states incorporate into their capacity development strategies approaches to encourage the development of Asset Management Plans (AMP) at public water systems (PWS) and assist in training appropriate personnel in implementing such plans. To fulfill this requirement, the Tennessee Department of Environmental and Conservation (TDEC) has prepared this addendum to its Capacity Development Plan Strategy approved by EPA in 2000. The strategy consists of short-term temporary efforts and includes long-term permanent efforts to ensure future PWS asset management plan development and implementation. TDEC utilized a contract with the Tennessee Association of Utility Districts (TAUD) to develop a framework for Asset Management Plans and to conduct training sessions, specifically for small and disadvantaged systems, in different regions of the state during 2022. Training included sessions on requirements of the five core elements and resources available to water systems to develop an Asset Management Plan. TAUD will also be providing training for the Tennessee Infrastructure Scorecard ver. 2.0 which is designed to benchmark technical, operational, managerial, and financial performance of utility systems. The Infrastructure Scorecard contains an AMP module for systems to self-assess any AMP gaps or needs.

To create the AMP guidance document, TDEC gathered small working groups from TDEC programs along with TAUD (rural water) and brought in drinking water, engineering services wastewater program as well as the State Revolving Fund (SRF) program to lay out the various AMP requirements across TDEC's Division of Water Resources (DWR) programs. In addition, we sought input and feedback from private industry. TDEC also referenced EPA resources and pulled from state programs around the nation. This approach took best practices from both the public and private sector to build a comprehensive AMP standard. TDEC's goal was to establish a unified AMP framework that could satisfy the drinking water program, wastewater program, and State Revolving Fund program while acknowledging the importance of a scalable standard for systems large and small. TDEC looked at Indiana, North Carolina (asset inventory and assessment protocol) and Southwest Environmental Center for AMP examples.

Our first step in creating a cross program standard was to solicit feedback from the AMP working group on the Infrastructure Scorecard module. This approach gave the state flexibility to incorporate the 5 AMP categories outlined by EPA while developing water system specific questions in each category. TDEC then rolled up the AMP module into a prioritized list of critical AMP needs. When a system completes the module, the Scorecard Summary will red flag any deficiencies with their AMP.

ASSET MANAGEMENT		
Asset Mangement Plan	No	In
GIS Mapping	0-25%	M G:
Inventory and Condition Assessment	Yes	Tr
Planned O&M and Work Order System	No	
Meter Testing & Changeouts	No	
Capital Improvement Plan & Budget	No	
IT Infrastructure	No	

Figure 1: Example AMP summary from Infrastructure Scorecard

The second step is to have the system follow the AMP guidance framework. The framework is a combination of a guidance document and an excel spreadsheet. The spreadsheet consists of asset inventory and condition assessments as well as assets criticality based on probability and consequence of failure. This information rolls up to a final spreadsheet in the workbook that lists capital needs in order of critical, risk of failure importance. TDEC worked with a third-party consulting group specializing in AMP (Blue Cyprus) to complete the recommended changes in the final AMP guidance framework, which included adding a section one the “Level of Service” component.

Short Term efforts

To assist in deployment of American Rescue Plan (ARP) funding, the Division of Water Resources (DWR) has established a contract with the Tennessee Association of Utility Districts (TAUD) who built a customizable framework for Integrated (using a common framework) Asset Management Plans (IAMP). IAMPs will assist entities with developing a long-term funding plan for the management and upkeep of assets. IAMP's will include drinking water and another water infrastructure (i.e., stormwater, wastewater). AMP's will include a single water structure type.

In support of IAMPs, TAUD will provide the following to entities eligible for ARP grant dollars, as approved by the State.

1. Direct technical assistance and support to aid in completion and review of IAMPs to ensure, among other goals, that entities' IAMPs will comply with ARP grant requirements;
2. Webinar series on multiple topics related to IAMPs as approved by the State. The Contractor (TAUD) will provide at least fifteen webinars over the Term of this Contract. In 2022, TDEC focused on ARP grants and developing the AMP framework. TDEC with TAUD delivered 2 classes in 2022 and TAUD will perform webinars in 2023;
3. Assistance in developing up to fifty long-term funding plans for small or disadvantaged communities by completing for each community:
 - A businessaction plan;
 - A capital improvement plan;
 - A financial strategy plan;and
 - Updates and maintenance to IAMPs and long-term funding plans as needed; and Direct and indirect technical assistance as needed.

Members of the stakeholders' group such as the Tennessee Association of Utility Districts and Communities Unlimited conducted training sessions in different regions of the state during 2022. Training included sessions on requirements of the five core elements and resources available to water systems to develop an Asset Management Plan. TAUD also provided training for the [Tennessee Infrastructure Scorecard](#) ver. 2.0 which is designed to benchmark technical, operational, managerial, and financial performance of utility systems. These scorecards identify critical needs in several areas including asset management summarizing of what is reflective of TMF. The Tennessee Infrastructure Scorecard ver. 2.0 was complete on November 1, 2021. Hundreds of public drinking water systems have completed their Scorecard and submitted it to TDEC for review. Systems are using the Scorecard to support requests for Water Infrastructure Investment Plan grants issued through the State Water Infrastructure Grants program. The Scorecard identifies (5) areas of critical needs for drinking water systems. These critical areas include asset management plans, significant non-compliance, water loss, aging infrastructure passed its useful life, and failing infrastructure (including capacity issues).

Attached is a PDF sample of the Infrastructure Scorecard. PWSs are required to submit a summary as part of the application to demonstrate critical needs and justify spending decisions. An additional deliverable of a Capital Improvement Needs Inventory from their AMP is also required prior to grant close out. These self-assessment materials assist systems identify where best to spend grant and loan dollars. The State Water Infrastructure Grant (SWIG) program, Community Development Block Grant (CDBG), and SRF will continue to use this tool into the future to support funding awards. In addition, the Bureau of Environment (BOE) and Tennessee Emergency Management (TEMA) are interested in using the reported Risk and Resiliency module for funding priorities to help systems improve their emergency preparedness.

The development and modification of the TN Infrastructure Scorecard was executed using a project management plan style of development.

- **Goal:** Assist small and/or disadvantaged public drinking water systems improve technical, managerial, and financial capacity.
- **Objective:** Develop tools
- **Pre-Development:** Gathered stakeholder group (Technical Assistance Advisory Committee) of drinking water leaders from the drinking water program, engineering services at TDEC, TDEC policy leaders, management from the Drinking Water State Revolving Fund, TN Comptroller's Office, Community Block Development Grant, USDA Rural Development, TN's Rural Water Association (TAUD) and select technical staff from DWR. We connected with approximately 25 individuals from 10 different agencies/organizations (public and private) for pre-development. TDEC received feedback from stakeholders. TDEC conducted 2 rounds of comments on draft AMP framework and completed comments from the independent consulting firms KCI and Blue Cypress.
 - Establish a list of chronic issues and technical assistance needs
- **Tool Development:** Work with Advisory Committee
 - Assigned small working group of experts for each of the critical needs category
 - Created a timeline for small task execution; develop a simple, quick, quantitative suite of questions or an equation focused on critical need
 - Brought all working group results together to draft an initial tool based on best practices methods used from previously developed stream morphology condition assessment.
 - Draft TN Infrastructure Tool was tested and edited by Advisory Committee members and technical staff at DWR.
 - Final tool completed by TAUD
- **Launch TN Infrastructure Scorecard ver. 1.0:** Selected 30 small and disadvantaged communities with systems that are struggling. The Opportunities List sorted data from small and disadvantaged systems to prioritize assistance for those systems with significant TMF issues, including non-compliance. TAUD worked with the 30 systems to complete the excel based, multi-worksheet self-assessment tool. Systems review their financial status over the past three years, population served, rates, age of treatment and distribution systems, water treated, purchased, and sold, source water, treatment type, unaccounted water loss, failing elements of treatment and distribution, energy and water conservation practices, status of asset management plans, and risk and resilience for emergencies.

- **Evaluate:** TDEC evaluated the impact and benefits the TN Infrastructure Scorecard may have for the systems and the agencies. Systems were given full reports and spreadsheets on the data. The state aggregated the data from the Scorecards to determine if there was a need and pattern to small system issues. TDEC found asset management plans, aging and failing infrastructure, and water loss were issues for the majority of the systems.
 - Feedback loop-DWR gave presentations on the process and results to many local, state, and national groups looking for feedback.
- **Improve:** TDEC regathered the Technical Advisory group to discuss the results of the yearlong beta-testing. All agencies and members agreed the data was valuable. But to improve the usability for systems we needed to create a Summary module.
 - Correct all issues and bugs found in version 1.0.
 - Improve questions and quantitative assessment of questions
 - Structure a summary based on most relevant components and connect needs to a plan to improve utility systems over time
 - Establish a framework to guide systems on how to create a comprehensive asset management plan that meet SRF requirements and Drinking Water Program requirements as it applies to the SDWA expectations
 - Improve the user interface and ability to aggregated data and evaluate results on a local and statewide scale.
- **Re-launch TN Infrastructure Scorecard ver. 2.0:** TDEC was set to relaunch the Scorecard through the SRF's Small and Disadvantaged Community Technical Assistance program funded through the PWSS set-aside dollars in fall of 2021. Simultaneously, TDEC secured \$1.35 billion in ARPA stimulus funds for drinking water and wastewater infrastructure. DWR, with the support of the drinking water program and SRF, offered the use of the TN Infrastructure Scorecard as a self-assessment tool for all systems to identify critical needs for water infrastructure projects. Use of the Scorecard was supported by TDEC and the Governor's team to ensure best use of funds as well as maximize return on investment.
 - **Pivot:** Quickly work to right-size the tool for use by any size system and accessed through a web-based portal.
 - Stakeholder outreach and engagement deployed statewide
 - Training of hundreds of water system officials/operators for use of Scorecard and Evaluation of Summary, incorporate results into planning for ARP non-competitive grant if Summary showed critical needs; education and outreach focusing on small and disadvantaged communities
 - Over 450 systems have completed the Scorecard. At least half of them are drinking water systems.
- TN Scorecard is in use now on every ARP grant application as a decision-making tool for use of funds. The grantees will also be obligated to submit a final Scorecard Summary so the state can quantify any return on investment of ARP dollars for addressing critical needs.
- TDEC will be working with Community Development Business Grant (CDBG) and Bureau of Environment (BOE) as well as former Technical Advisory members to build on lessons learned in version 2.0 for the update to Scorecard version 3.0 in fall of 2023.
- TDEC is still exploring the options to pursue other components of the state's approach to asset management – including regulation updates and incorporating asset management into state regulations, sanitary surveys, and enforcement by looking at other states rules.

- 76% of Public Water Systems did not have a comprehensive AMP based on infrastructure scorecard results.
- In April of 2022 TDEC launched a \$1 billion dollar water and wastewater infrastructure grant with American Rescue Plan funds. The grant contract requires all participating systems to complete an Infrastructure Scorecard to identify critical needs and every system must demonstrate they comply with the AMP guidance template by the end of the grant term, September 30, 2026.
- DWR received approximately 350 applications with \$990M in requests for water, wastewater, and stormwater infrastructure funding to address critical needs. Drinking water systems in all 95 counties are participating in this program.

Long Term efforts

DWR will continue utilizing the infrastructure scorecard to help drive funding assistance for development and implementation of AMP once ARP funding expires.

TN Public Water Systems rule change. TDEC plans to modify rule 0400-45-01-.04(6) to ensure the definition of Capacity Development Plan includes an Asset Management Plan (AMP) component. This would be required of all public water systems. TDEC plans to consider adopting regulatory revisions during the next rule change based on EPA's LCR rule revisions.

[0400-45-01-.04 (6) "Capacity Development Plan" means a document(s) identifying what actions a public water system is taking or shall take to become a "viable water system." Such plan shall include information concerning retention of a Certified Operator in direct charge; system ownership and accountability; staffing and organizational structure; fiscal management and controls, source water assessment and protection plan; "business plan", asset management plan and any and all other information identifying any further action that shall be taken.]

Sanitary Survey Manual Revision. TDEC plans the inclusion of asset management as an item to be addressed in the Sanitary Survey inspections. The existence of an Asset Management Plan would be discussed during the survey and addressed in the narrative section of the report. PWS identified as in need of developing an AMP would be directed to the TDEC/SRF website where resources such as the template would be available. Revisions to the Sanitary Survey Manual are expected within the next 1-3 years.

State Revolving Fund Loan Program. The DWR SRF program will include an Asset Management Plan question to the Capacity Development Review Checklist. This ensures systems receiving SRF funds have a CDP and an AMP that complies with the minimum standard established by TDEC. SRF does not have a point system for AMPs in the ranking criteria. However, in January of 2023, SRF will be meeting with EPA Region 4 to specifically discuss needed improvements to the DWSRF ranking system. We will inquire with Region 4 on the potential to add AMP points to the ranking system. This would encourage PWSs to develop AMPs and ensure that systems receiving SRF funds have evaluated its assets with regard to financial capacity. Priority checklists for SRF will include language that the PWS must have a Capacity Development Plan which includes an Asset Management Plan. TDEC is working with EPA to discuss modifications of the priority ranking list in 2023.

DWR Compliance and Enforcement staff will consider and prescribe the development of asset management plans in enforcement orders when it is determined that the systems lack financial capacity is contributing to the non-compliance issues. It is possible that TDEC will use the list from the Comptroller's WWFB and UMRB financial distress list which is based on annual audits and the boards require asset management plans in orders for those systems. TDEC could also request an AMP with every system on the financial distress list or simply request this document from the Comptroller's Office if they have required it of the system. DWR also checks the financial distress list on all the environmental reviews.

TDEC DWR will develop a web presence for Asset Management Plan information which will include the IAMP developed by TAUD and other resource links for reference. TDEC will include this information under our Capacity Development program once finalized. We should have a dedicated AMP page by summer of 2023.

The implementation strategies, as described above, will ensure that systems in immediate need for AMPs will be identified via the Tennessee Infrastructure Scorecard. The ongoing regulatory activities such as the inclusion of AMP in sanitary surveys, review of finances during audits by the comptroller's office, and inclusion of AMPs in enforcement orders will assist in identifying systems that may need AMP or AMP revisions. Lastly, the inclusion of the AMP as a component of the SRF priority ranking will be a subsequent check and will incentivize PWS who do not have an AMP that is current to do so. All PWSs in TN will be required to maintain AMPs; training will be provided for new PWSs.

The TN Office of the Comptroller requires annual financial audits of local governments, which includes governmental water and wastewater systems. The annual audits are reviewed to ensure the utility is in compliance with applicable state laws and regulations. When a water or wastewater system has a statutory decrease in net position for two consecutive fiscal years, the utility is referred to the Water and Wastewater Financing Board or Utility Management Review Board. Both Boards are tasked with rectifying the financial, technical, and managerial issues of the utility. For these problems to be corrected, a comprehensive financial assessment is necessary to generate a corrective plan moving forward. An important aspect of this assessment is a review of the utility's rates and asset management initiatives. Generally, the Boards order the utility to contract with a third party to complete the assessment needed to ensure the utility is on the best path forward.

Once a comprehensive AMP is developed, the utility should treat the AMP as a "living" document. The AMP should be updated annually as assets age, new assets are added, maintenance is performed, and the level of desired service mandates the replacement of assets. The original AMP and annual updates to the AMP give a utility's management and governing board important and relevant information on the maintenance and replacement of aging water infrastructure. This information can be used in capital budget planning to ensure that the utility's financial resources are used efficiently and effectively to maintain and improve the utility's infrastructure. We will be in touch with our training partners providing ongoing communications.

Education and outreach are always a challenge. The understanding of what an AMP is and how it needs to be a living document is low across the state. To combat this barrier, TDEC will continue to partner with TAUD to provide direct and indirect technical assistance on AMPs. We will also develop a website and host AMP workshops if warranted.

In addition, funding AMP is also a barrier. Recently, TDEC spent 6 months negotiating with the Comptroller of the Treasury on the permissibility of awarding SRF loans for AMP. SRF lost the argument based on the Comptroller's expectation that AMPs are operation and maintenance activities. While this may be true for systems that have an AMP in place, it is not the case for 76% of the systems across the state. In 2023, TDEC intends to release AMP specific grants with SRF money, effectively improving the funding assistance for systems to complete their AMP. Although the state would have preferred a loan product, we are overcoming that barrier by switching to a grant. Those are the two primary barriers to implementing AMP plans statewide. We are working diligently to overcome them.

TDEC will determine the efficacy and progress of asset management efforts by summarizing the number of systems that completed an AMP through the American Rescue Plan grants and have applied for and were awarded a DWSRF loan. These funding programs are supporting this important and developing regulation/requirement for AMPs. Proposed tracking information will be presented in the Triennial Report to the Governor.