2022 Consumer Confidence Report (CCR) Certification Form

Water System Name: Town of Green Level

Water System No.: NC 0201030 Report Year: 2022 Population Served: 2450

The Community Water System (CWS) named above hereby confirms that all provisions under 40 CFR parts 141 and 142 requiring the development of, distribution of, and notification of a consumer confidence report have been executed. Further, the CWS certifies the information contained in the report is correct and consistent with the compliance monitoring data previously submitted to the primacy agency by their NC certified laboratory. In addition, if this report is being used to meet Tier 3 Public Notification requirements, as denoted by the checked box below, the CWS certifies that public notification has been provided to its consumers in accordance with the requirements of 40 CFR 141.204(d).

<u>Certifie</u>	ed by: Name:	Title:
	Signature:	Phone #:
	Delivery Achieved Date:	Date Reported to State:
	The CCR includes the mandated Tier 3 Publi	c Notice for a monitoring/reporting violation (check box, if yes).
Check	all methods used for distribution (see instruc	ctions on back for delivery requirements and methods):
	Paper copy to all US Mail	☐ Hand Delivery
	Notification of availability of paper copy (Pr	ovide a copy of the notice.)
	Notification Method	(i.e., US Mail, door hanger)
		_):
	Notification Method	(i.e., on bill, bill stuffer, separate mailing, email)
	Direct email delivery of CCR ☐ Atta	
		(i.e., on bill, bill stuffer, separate mailing)
		Date Published:
	Notification Method	(i.e., on bill, bill stuffer, separate mailing, email)
	paying consumers such as industry employed following methods:	he above required methods) were used to reach non-bill ees, apartment tenants, etc. Extra efforts included the
		JRL:
	□ mailing the CCR to postal patrons wi	
	•	R in news media (attach copy of announcement)
	□ publication of the CCR in local news	
		h as: (attach list if needed) pill addresses serving several persons such as: apartments,
	 delivering multiple copies to single to businesses, and large private emplored 	- '
		s such as: (attach list if needed)
	actively to community organization.	Jack de la lactación list il riccaca

<u>Note</u>: Use of social media (e.g., Twitter or Facebook) or automated phone calls DO NOT meet existing CCR distribution methods under the Rule.

INSTRUCTIONS for Water System (Remove this page prior to distribution.)

- 1. Create your 2022 CCR using the template and instructions on the following pages
- <u>Make sure all instructions are removed</u> when report is complete. Instructions are in blue text with ** symbols at the beginning of each paragraph. The **s are included in case the blue color is not visible.
- Systems that have a large proportion of non-English speaking customers must include information in the appropriate language(s) regarding the importance of the report or provide a telephone number or address where such residents may contact the system to obtain a translated copy of the report or assistance in the appropriate language.
- It is best to remove all non-detected contaminants and all contaminants not required to be monitored by the water system from the report. This will make the report shorter, so that it is easier to read and less expensive to print. If you wish to include non-detected contaminants in your report, the CCR Rule requires that all detected and non-detected contaminants be presented in separate tables.
- A detected contaminant stays in the report from year to year until the particular contaminant is tested again, in which case, the result may either be modified, if detected again, or removed, if not detected. No data older than 5 years needs to be included.
- 2. Distribute your 2022 CCR to customers through direct delivery

CCR DELIVERY	METHOD DESCRIPTION
METHOD	(Click link: <u>EPA-CCR Rule Delivery Options Memo January 3, 2013</u> . for referenced Appendix Figures below.)
Mail – paper copy	CWS mails a paper copy of the CCR to each bill-paying customer.
Mail – notification that CCR is available on web site via a direct URL	CWS mails to each bill-paying customer a notification that the CCR is available and provides a direct URL to the CCR on a publicly available site on the Internet where it can be viewed. A URL that navigates to a web page that requires a customer to search for the CCR or enter other information does not meet the "directly deliver" requirement. The mail method for the notification may be, but is not limited to, a water bill insert, statement on the water bill or community newsletter. See Figure 1 in the Appendix. A copy of the notice of the direct URL must be submitted to the State with the CCR and Certification Form.
Email – direct URL to CCR	CWS emails to each bill-paying customer a notification that the CCR is available and provides a direct URL to the CCR on a publicly available site on the Internet. A URL that navigates to a web page that requires a customer to search for the CCR or enter other information does not meet the "directly deliver" requirement. This method may only be used for customers when a CWS has a valid email address to deliver the CCR electronically. See Figure 2 in the Appendix. A copy of the email must be submitted to the State with the CCR and Certification Form.
Email – CCR sent as an attachment to email	CWS emails the CCR as an electronic file email attachment [e.g., portable document format (PDF)]. This method may only be used for customers when a CWS has a valid email address to deliver the CCR electronically. See Figure 3 in the Appendix. A copy of the email must be submitted to the State with the CCR and Certification Form.
Email – CCR sent as an embedded image in an email	CWS emails the CCR text and tables inserted into the body of an email (not as an attachment.) This method may only be used for customers when a CWS has a valid email address to deliver the CCR electronically. See Figure 4 in the Appendix. A copy of the email must be submitted to the State with the CCR and Certification Form.
Additional electronic delivery that meets "otherwise directly deliver" requirement	CWS delivers CCR through a method that "otherwise directly delivers" to each bill-paying customer and in coordination with the primacy agency. This category is intended to encompass methods or technologies not included above. CWSs and primacy agencies considering new methods or technologies should consult with the EPA to ensure it meets the intent of "otherwise directly deliver."

- > Systems serving 100,000 or more persons must post the CCR on a publicly accessible Internet site using a direct URL.
- > Systems serving 10,000 or more persons must distribute the CCR using a delivery method in the table above.
- > Systems serving less than 10,000 persons but more than 500 persons must either: (1) distribute the CCR using a delivery method in the table above <u>OR</u> (2) notify their customers that the CCR is not being mailed, but it will be in what newspaper(s) and when (attach copy of notice). The complete CCR should be printed in the local newspaper, and a copy of the CCR must be made available upon request. (The 2nd option is not acceptable if using the CCR for Tier 3 Public Notification!)
- Systems serving 500 or fewer persons must either: (1) distribute the CCR using a delivery method in the table above <u>OR</u> (2) notify their customers that the CCR is not being mailed, and a copy of the CCR must be made available upon request. (The 2nd option is <u>not</u> acceptable if using the CCR for Tier 3 Public Notification!) A copy of the notice must be submitted to the State with the CCR and Certification Form.

Note: Use of social media or automated phone calls DO NOT meet existing CCR distribution methods under the Rule.

3. Submit and certify a copy of the CCR and all supporting documentation (copy of notice, email, or bill example) through our ECERT Online Certification application in one PDF file

ECERT Online Certification and Submittal of CCR: https://pws.ncwater.org/ECERT/pages/default.aspx

The certification form on the previous page is not required for CCRs submitted through ECERT. For assistance with accessing ECERT please email pwss.ccr@ncdenr.gov or go to https://pws.ncwater.org/ECERT/pages/CCRHELP.pdf

If you do not have access to the internet, you can mail your CCR, Certification form, and supporting documentation to: *Public Water Supply Section, 1634 Mail Service Center, Raleigh, NC 27699-1634, Attn: CCR Rule Manager* or FAX your CCR, Certification form, and supporting documentation to (919) 715-6637, *Attn: CCR Rule Manager*

**Special Instructions for Systems that purchase water from another water system

**Water systems that purchase treated water from another water system are required to include information from their wholesalers CCR in their own CCR. If you purchase from multiple systems, then you must include this information for each of the systems that you purchase from.

**Here are a couple options for including this information in your CCR:

- 1. Follow the CCR Template, including the selling systems source and SWAP information in your report, and at the end of the report attach the pages from your sellers CCR that show all their data tables and any violations they received. Make sure that the attached pages are clearly labeled to show which water system they belong to.
- 2. If the selling system posted their CCR on the internet, you can provide the direct URL to their CCR in your report. For example, in the section titled "when you turn on the tap, consider the source," you could add the following: "We purchase treated water from [XYZ Water System], and their annual report can be viewed at [XYZwatersystem.org/CCR]"

**Note: Systems that sell water to another water system, are required to provide a copy of their CCR to the systems that purchase from them by April 1st so that the purchase systems will be able to meet the July 1st CCR deadline. Purchasing and selling systems should coordinate with each other to confirm when the CCR information will be delivered to the purchasing systems.

2022 Annual Drinking Water Quality Report Town of Green Level

Water System Number: NC 0201030

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien.

We are pleased to present to you this year's Annual Drinking Water Quality Report. This report is a snapshot of last year's water quality. Included are details about your source(s) of water, what it contains, and how it compares to standards set by regulatory agencies. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water and to providing you with this information because informed customers are our best allies If you have any questions about this report or concerning your water, please contact Barrett Brown at (336)578-3443. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings. They are held at town hall, 2510 Green Level Church Road Green Level, North Carolina 27217 on the second Thursday of every month at 7:00pm.

What EPA Wants You to Know

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Green Level is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife; inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming; pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses; organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems; and radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

When You Turn on Your Tap, Consider the Source

The water that is used by this system is surface water from Graham-Mebane Lake, treated by and purchased from the City of Graham.

Source Water Assessment Program (SWAP) Results

The North Carolina Department of Environmental Quality (DEQ), Public Water Supply (PWS) Section, Source Water Assessment Program (SWAP) conducted assessments for all drinking water sources across North Carolina. The purpose of the assessments was to determine the susceptibility of each drinking water source (well or surface water intake) to Potential Contaminant Sources (PCSs). The results of the assessment are available in SWAP Assessment Reports that include maps, background information and a relative susceptibility rating of Higher, Moderate or Lower.

The relative susceptibility rating of each source for Graham/ Green Level was determined by combining the contaminant rating (number and location of PCSs within the assessment area) and the inherent vulnerability rating (i.e., characteristics or existing conditions of the well or watershed and its delineated assessment area). The assessment findings are summarized in the table below:

Susceptibility of Sources to Potential Contaminant Sources (PCSs)

Source Name	Susceptibility Rating	SWAP Report Date		
Graham/Mebane Lake	Lower	September 2020		

The complete SWAP Assessment report for Graham/ Green Level may be viewed on the Web at: https://www.ncwater.org/?page=600 Note that because SWAP results and reports are periodically updated by the PWS Section, the results available on this web site may differ from the results that were available at the time this CCR was prepared. If you are unable to access your SWAP report on the web, you may mail a written request for a printed copy to: Source Water Assessment Program – Report Request, 1634 Mail Service Center, Raleigh, NC 27699-1634, or email requests to swap@ncdenr.gov. Please indicate your system name, number, and provide your name, mailing address and phone number. If you have any questions about the SWAP report please contact the Source Water Assessment staff by phone at 919-707-9098.

It is important to understand that a susceptibility rating of "higher" <u>does not</u> imply poor water quality, only the system's potential to become contaminated by PCSs in the assessment area.

Help Protect Your Source Water

Protection of drinking water is everyone's responsibility. You can help protect your community's drinking water source(s) in several ways: (examples: dispose of chemicals properly; take used motor oil to a recycling center, volunteer in your community to participate in group efforts to protect your source, etc.).

Violations that Your Water System Received for the Report Year

During 2022, or during any compliance period that ended in 2022, we received a lead consumer notice violation that covered the time period of Jan 2022-March 2022. We are/have reviewed our sample plan to assure this does not happen again.

Important Drinking Water Definitions:

- o *Not-Applicable (N/A)* Information not applicable/not required for that particular water system or for that particular rule.
- o *Non-Detects (ND)* Laboratory analysis indicates that the contaminant is not present at the level of detection set for the particular methodology used.
- o **Parts per million (ppm) or Milligrams per liter (mg/L)** One part per million corresponds to one minute in two years or a single penny in \$10,000.
- Parts per billion (ppb) or Micrograms per liter (ug/L) One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.
- o *Parts per trillion (ppt) or Nanograms per liter (nanograms/L)* One part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.
- o **Parts per quadrillion (ppq) or Picograms per liter (picograms/L)** One part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000.
- o **Picocuries per liter (pCi/L)** Picocuries per liter is a measure of the radioactivity in water.
- Nephelometric Turbidity Unit (NTU) Nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.
- Variances and Exceptions State or EPA permission not to meet an MCL or Treatment Technique under certain conditions.
- Action Level (AL) The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- Treatment Technique (TT) A required process intended to reduce the level of a contaminant in drinking water.
- *Maximum Residual Disinfection Level (MRDL)* The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- *Maximum Residual Disinfection Level Goal (MRDLG)* The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
- Locational Running Annual Average (LRAA) The average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters under the Stage 2 Disinfectants and Disinfection Byproducts Rule.
- Running Annual Average (RAA) The average of sample analytical results for samples taken during the previous four calendar quarters.
- Level 1 Assessment A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.
- Level 2 Assessment A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.
- > Maximum Contaminant Level (MCL) The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- Maximum Contaminant Level Goal (MCLG) The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Water Quality Data Tables of Detected Contaminants

We routinely monitor for over 150 contaminants in your drinking water according to Federal and State laws. The tables below list all the drinking water contaminants that we <u>detected</u> in the last round of sampling for each particular contaminant group. The presence of contaminants does <u>not</u> necessarily indicate that water poses a health risk. **Unless otherwise noted, the data presented in this table is from testing done January 1 through December 31, 2022.** The EPA and the State allow us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than one year old.

Green Level

REVISED TOTAL COLIFORM RULE:

Microbiological Contaminants in the Distribution System

inci obiologicai Contamina	nes in the i	Jisti is acton Sys	tem		
Contaminant (units)	MCL Violation Y/N	Number of Positive/Present Samples	MCLG	MCL	Likely Source of Contamination
Total Coliform Bacteria (presence or absence)	N/A	N/A	N/A	TT*	Naturally present in the environment
E. coli (presence or absence)	N	0/ Absent	0	Routine and repeat samples are total coliform- positive and either is <i>E. coli</i> -positive or system fails to take repeat samples following <i>E. coli</i> - positive routine sample or system fails to analyze total coliform-positive repeat sample for <i>E. coli</i> Note: If either an original routine sample and/or its repeat samples(s) are <i>E. coli</i> positive, a Tier 1 violation exists.	Human and animal fecal waste

^{*} If a system collecting fewer than 40 samples per month has two or more positive samples in one month, an assessment is required.

Lead and Copper Contaminants

Contaminant (units)	Sample Date	Your Water (90 th Percentile)	Number of sites found above the AL	MCLG	AL	Likely Source of Contamination
Copper (ppm) (90 th percentile)	8/30/21	0.1 ppm	0	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits
Lead (ppb) (90 th percentile)	8/30/21	0	1	0	AL=15	Corrosion of household plumbing systems; erosion of natural deposits

Disinfectant Residuals Summary

	Simple in the state of the stat											
	MRDL Violation Y/N	Your Water (highest RAA)	Range Low High	MRDLG	MRDL	Likely Source of Contamination						
Chlorine (ppm)	N	2.3 ppm	1.4 – 2.8 ppm	4	4.0	Water additive used to control microbes						
Chloramines (ppm)	N	2.16 ppm	1.2 – 3 ppm	- 3 ppm 4 4.0 Water additive used to control micro		Water additive used to control microbes						

Stage 2 Disinfection Byproduct Compliance - Based upon Locational Running Annual Average (LRAA)

Disinfection Byproduct	Year Sampled	MCL Violation Y/N	Your Water (highest LRAA)	Range Low High	MCLG	MCL	Likely Source of Contamination
TTHM (ppb)	2022	N			N/A	80	Byproduct of drinking water disinfection
Location B01			32 ppb	26 – 35 ppb			
HAA5 (ppb)	2022	N			N/A	60	Byproduct of drinking water disinfection
Location B02			16 ppb	1 – 30 ppb			

Results from Graham's CCR

Turbidity

Contaminant (units)	Treatme nt Techniq ue (TT) Violation Y/N	Your Water	MCLG	Treatment Technique (TT) Violation if:	Likely Source of Contamination
Turbidity (NTU) - Highest single turbidity measurement	N	0.29 NTU	N/A	Turbidity > 1 NTU	
Turbidity (%) - Lowest monthly percentage (%) of samples meeting turbidity limits	N	100 %	N/A	Less than 95% of monthly turbidity measurements are < 0.3 NTU	Soil runoff

Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system. Turbidity is measured at multiple locations throughout the treatment process. The turbidity above represents Combined Filter Effluent (CFE) turbidity. To meet current turbidity requirements, water must be less 0.3 turbidity units 95 % of the time and never allowed to exceed 1.0 turbidity units in the Combined Filter Effluent (CFE). The 2022 average turbidity for our Combined Filter Effluent (CFE) was 0.09 NTU.

Inorganic Contaminants

Contaminant (units)	Sample Date	MCL Violatio n Y/N	Your Water	Range Low High	MCL G	MCL	Likely Source of Contamination
Fluoride (ppm)	7/14/22	N	0.58	N/A	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories

The respective concentration of fluoride reported above is the result of a single sample collected on 7/14/22. However, fluoride analysis is conducted every day for process control at the treatment plant. The average fluoride concentration for 2022 was 0.70 mg/L.

There are a number of organics that are of potential concern in drinking water. This group includes Volatile Organic Chemicals (VOCs) which vaporize easily. It also includes Synthetic Organic Chemicals (SOCs) which are manmade and include substances such as pesticides and herbicides. These organic chemicals may come from various sources like agriculture, urban storm runoff, residential uses, industrial processes and petroleum production, gas stations and septic systems.

Volatile Organic Chemical (VOC) Contaminants

City of Graham is required to test for 21 Volatile Organic Chemicals every year. Volatile Organic Chemicals were analyzed in February of 2022 and there were no detections found for any of the 21 VOCs.

Synthetic Organic Chemical (SOC) Contaminants Including Pesticides and Herbicides

Contaminant (units)	Sample Date	MCL Violatio n	Your Water	Range Low High	MCLG	MCL	Likely Source of Contamination
Atrazine (ppb)	5/19/20	Y/N N	0.1	N/A	3	3	Runoff from herbicide used on row crops
Simazine (ppb)	1/25/22	N	0.11	N/A	4	4	Herbicide runoff

City of Graham is required to test for 26 Pesticides and Synthetic Organic Chemicals in 2 consecutive quarters every three years. Testing was done for these in January, April and May of 2020. There were 24 SOCs that were not detected. City of Graham is required to test for Simazine on an annual basis.

Radiological Contaminants

Radiological contaminants in source water may be naturally occurring or may be the result of oil and gas production and mining activities. Data presented in the table below is from the most recent monitoring event. The City of Graham is required to monitor for radiological contaminants every 9 years.

Contaminant (units)	Sample Date	MCL Violatio n Y/N	Your Water (RAA)	Range Low High	MCL G	MCL	Likely Source of Contamination
Beta/photon emitters (pCi/L)	1/25/17	N	2.8	N/A	0	50 *	Decay of natural and man-made deposits
Combined radium (pCi/L)	1/25/17	N	1.31	N/A	0	5	Erosion of natural deposits

^{*} Note: The MCL for beta/photon emitters is 4 mrem/year. EPA considers 50 pCi/L to be the level of concern for beta particles.

Total Organic Carbon (TOC)

Contaminant (units)	TT Violation Y/N	Your Water (lowest RAA)	Range Monthly Removal Ratio Low - High	MCLG	Treatment Technique (TT) violation if:	Likely Source of Contamination
Total Organic Carbon (TOC) Removal Ratio (no units)	N	1.38	1.32 – 1.61	N/A	Removal Ration RAA <1.00 and alternative compliance criteria was not met	Naturally present in the environment

For 2022 the average raw water TOC was 7.03 mg/L and the average combined filter water TOC was 2.30 mg/L. The average TOC removal rate was 66.84% with removal rates ranging from 59.43% to 72.49% during 2022.

Disinfectant Residuals Summary

Tomostant Roomano Gunniary							
	MRDL Violation Y/N	Your Water (highest RAA)	Range Low High	MRDLG	MRDL	Likely Source of Contamination	
Chlorine (ppm)	N	1.85	0.3 – 2.9	4	4.0	Water additive used to control microbes	
Chloramines (ppm)	N	2.41	0.5 – 2.41	4	4.0	Water additive used to control microbes	

Cryptosporidium sp.

Cryptosporidium sp. is a microscopic organism that, when ingested, may cause diarrhea, fever and other gastrointestinal symptoms. The organism occurs naturally in surface waters and comes from animal wastes. Cryptosporidium sp. Is eliminated by an effective treatment combination of coagulation, sedimentation, filtration and disinfection. The Graham-Mebane Lake, your source water, underwent a 2-year sampling program which was completed in 2018. The average concentration of the sampling event was 0.008 oocysts/L.

The PWS Section requires monitoring for other misc. contaminants, some for which the EPA has set national secondary drinking water standards (SMCLs) because they may cause cosmetic effects or aesthetic effects (such as taste, odor, and/or color) in drinking water. The contaminants with SMCLs normally do not have any health effects and normally do not affect the safety of your water.

Other Miscellaneous Water Characteristics Contaminants

Contaminant (units)	Sample Date	Your Water	Range Low High	SMCL	
Iron (ppm)	7/14/22	0.067 mg/L	N/A	0.3 mg/L	
Manganese (ppm)	7/14/22	0.023 mg/L	N/A	0.05 mg/L	
Sodium (ppm)	7/14/22	35.1 mg/L	N/A	N/A	
Sulfate (ppm)	7/14/22	83 mg/L	N/A	250 mg/L	
pH	7/14/22	8.1	N/A	6.5 to 8.5	

The Unregulated Contaminant Monitoring Rule 4 (UCMR4) required water systems to collect and analyze water samples for 20 chemicals and 10 cyanotoxins for which the EPA has not established drinking water standards, therefore are not regulated. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulations are warranted. The table below only includes data for the UCMR4 parameters that were detected.

Unregulated Contaminants

UCMR4 Parameter	Year Tested	Source Water- Graham- Mebane Lake		Graham-Mebane WTP		Distribution System	
OCMR4 Parameter		Average	Range	Average	Range	Average	Range
Manganese, ug/L	2020	N/A	N/A	11.62	3.66 – 27.6	N/A	N/A
Bromide, ug/L	2020	21.9	21.1 – 22.6	N/A	N/A	N/A	N/A
Total Organic Carbon (TOC) ug/L	2020	6,870	6,090 – 7,870	N/A	N/A	N/A	N/A
Haloacetic Acids- 9, ug/L	2020	N/A	N/A	N/A	N/A	28.63	21.82 – 41.02

Additional Monitoring for Other Unregulated Contaminants

Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulations are warranted. EPA has announced the proposed National Drinking Water Regulation (NPDWR) for six Per- and Polyfluoroalkyl Substances (PFAS). This proposed NPDWR does not require any actions until the regulation is finalized. City of Graham monitored for the six contaminants in 2022:

Compounds	Year Tested	Source Water- Graham-Mebane Lake		е	Graham-Mebane WTP			Proposed MCL
		Average Index	Range	Hazard	Average	Range	Hazard Index	
PFOA, ng/L	2022	5.74	5.13 – 6.45	N/A	5.60	4.94 – 6.4	N/A	4 parts per trillion (ng/L)
PFOS, ng/L	2022	8.46	7.46 – 9.97	N/A	6.96	6.52 – 7.46	N/A	4 parts per trillion (ng/L)
PFNA, ng/L	2022	0.975	0.737 – 1.44		0.729	ND – 1.52		
PFHxS, ng/L	2022	2.84	2.58 – 3.04		2.62	2.11 – 3.77	<1	1.0 (unitless) Hazard Index
PFBS, ng/L	2022	9.28	8.10 – 10.6	<1	8.68	7.89 – 9.93		
HFPO-DA (commonly referred to as GenX), ng/L	2022	ND	ND		ND	ND		

For more information on PFAS please visit www.cityofgraham.com.