

2023 Annual Drinking Water Quality Report

Sampson County District II - Plainview

Water System Number: NC 50-82-022

Detected Contaminants Results: 1/1/23 through 8/31/23

As of 9/1/23, Plainview is now consolidated under Sampson Co. Water District II 03-82-070

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 Sampson County Public Works at (910) 592-0188. 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 Sampson County Auditorium at 7:00 pm on the first Monday of the month.**

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 **Sampson County - Plainview** 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 purchased from the City of Dunn.

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 **Sampson County - Plainview** 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
Cape Fear River	Higher	September 10, 2020

The complete SWAP Assessment report for **Sampson County - Plainview** 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” does not 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. We have implemented the following source water protection actions: 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.).

Important Drinking Water Definitions:

- **Not-Applicable (N/A)** – Information not applicable/not required for that particular water system or for that particular rule.
 - **Non-Detects (ND)** - Laboratory analysis indicates that the contaminant is not present at the level of detection set for the particular methodology used.
 - **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.
 - **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.
 - **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 \$10,000,000,000,000.
 - **Picocuries per liter (pCi/L)** - Picocuries per liter is a measure of the radioactivity in water.
 - **Million Fibers per Liter (MFL)** - Million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.
 - **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.
 - **Variations 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.
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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 detected in the last round of sampling for each particular contaminant group. The presence of contaminants does not 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, 2023.** 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.

Disinfectant Residuals Summary - Plainview 50-82-022 / Results from 1/1/23 through 8/31/23

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	MRDL Violation Y/N	Your Water (highest RAA)	Range		MRDLG	MRDL	Likely Source of Contamination
			Low	High			
Chlorine (ppm)	N	1.71 (ppm)	1.59 (ppm) - 1.90 (ppm)		4	4.0	Water additive used to control microbes
Chloramines (ppm)	N	1.60 (ppm)	1.47 (ppm) - 1.81 (ppm)		4	4.0	Water additive used to control microbes

Stage 2 Disinfection Byproduct Compliance - Plainview 50-82-022 / Results from 1/1/23 through 8/31/23

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Based upon Locational Running Annual Average (LRAA)

Disinfection Byproduct	Year Sampled	MCL Violation Y/N	Your Water (highest LRAA)	Range		MCLG	MCL	Likely Source of Contamination
				Low	High			
TTHM (ppb)	2023	N				N/A	80	Byproduct of drinking water disinfection
Location								
B01			37.4 (ppb)	0.0 (ppb) - 37.4 (ppb)				
B02			33.9 (ppb)	0.0 (ppb) - 33.9 (ppb)				
HAA5 (ppb)	2023	N				N/A	60	Byproduct of drinking water disinfection
Location								
B01			25.4 (ppb)	1.0 (ppb) - 25.4 (ppb)				
B02			21.8 (ppb)	0.0 (ppb) - 21.8 (ppb)				

2023 Annual Drinking Water Quality Report

City of Dunn

Water System Number: NC 03-43-010

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

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Violations that Your Water System Received for the Report Year: None

During 2023, or during any compliance period that ended in 2023, we received No Violations.

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REVISED TOTAL COLIFORM RULE:

Microbiological Contaminants in the Distribution System

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
<i>E. coli</i> (presence or absence)	N	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> <u>Note:</u> 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

Turbidity*

Contaminant (units)	Treatment Technique (TT) Violation Y/N	Your Water	MCLG	Treatment Technique (TT) Violation if:	Likely Source of Contamination
Turbidity (NTU) - Highest single turbidity measurement	N	0.22 NTU	N/A	Turbidity > 1 NTU	Soil runoff
Turbidity (%) - Lowest monthly percentage (%) of samples meeting turbidity limits	N	100 %	N/A	Less than 95% of monthly turbidity measurements are ≤ 0.3 NTU	

* 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. The turbidity rule requires that 95% or more of the monthly samples must be less than or equal to 0.3 NTU.

Inorganic Contaminants

Contaminant (units)	Sample Date	MCL Violation Y/N	Your Water	Range		MCLG	MCL	Likely Source of Contamination
				Low	High			
Fluoride (ppm)	1/10/23	N	0.49 ppm	N/A	N/A	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories

Nitrate/Nitrite Contaminants

Contaminant (units)	Sample Date	MCL Violation Y/N	Your Water	Range		MCLG	MCL	Likely Source of Contamination
				Low	High			
Nitrate (as Nitrogen) (ppm)	1/10/2023	N	ND	N/A	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits

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)	7/19-8/29/2022	0.14 ppm	0	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits
Lead (ppb) (90 th percentile)	7/18-8/29/2022	ND	0	0	AL=15	Corrosion of household plumbing systems; erosion of natural deposits

Radiological Contaminants

Contaminant (units)	Sample Date	MCL Violation Y/N	Your Water	Range		MCLG	MCL	Likely Source of Contamination
				Low	High			
Beta/photon emitters (pCi/L)	10/01/18	N	4.4pCi/L	4.4	4.4	0	50 *	Decay of natural and man-made 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	1.15	0.90 - 1.59	N/A	Removal Ration RAA <1.00 and alternative compliance criteria was not met	Naturally present in the environment

Disinfectant Residuals Summary

	MRDL Violation Y/N	Your Water (highest RAA)	Range Low High	MRDLG	MRDL	Likely Source of Contamination
Chlorine (ppm)	2023	0.42 ppm	0.1 - 1.7 ppm	4	4.0	Water additive used to control microbes
Chloramines (ppm)	2023	2.3 ppm	1.0 - 3.4 ppm	4	4.0	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)	2023	N			N/A	80	Byproduct of drinking water disinfection
Location (Ex. B01)							
B01			46 ppb	30 - 48 ppb			
B02			47 ppb	17 - 51 ppb			
B03			42 ppb	17 - 45 ppb			
B04			38 ppb	16 - 47 ppb			
HAA5 (ppb)	2023	N			N/A	60	Byproduct of drinking water disinfection
Location (Ex. B01)							
B01			32 ppb	15 - 34 ppb			
B02			30 ppb	15 - 39 ppb			
B03			35 ppb	15 - 35 ppb			
B04			32 ppb	16 - 39 ppb			

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		SMCL
			Low	High	
Iron (ppm)	1/10/23	ND	N/A		0.3 mg/L
Manganese (ppm)	1/10/23	ND	N/A		0.05 mg/L
Sodium (ppm)	1/10/23	23.4 ppm	N/A		N/A
Sulfate (ppm)	1/10/23	34.2 ppm	N/A		250 mg/L
pH	1/10/23	7.3	N/A		6.5 to 8.5

Cryptosporidium: Untreated Source Water

Our system monitored for *Cryptosporidium* and found levels of 0.011 Oocyst.per liter.

Sample Date	Your Water (average)	Range	
		Low	High
2018	0.011 Oocyst/L	0.00	.286

Cryptosporidium is a microbial pathogen found in surface water throughout the U.S. Although filtration removes *Cryptosporidium*, the most commonly-used filtration methods cannot guarantee 100 percent removal. Our monitoring indicates the presence of these organisms in our source water and/or finished water. Current test methods do not allow us to determine if the organisms are dead or if they are capable of causing disease. Ingestion of *Cryptosporidium* may cause cryptosporidiosis, an abdominal infection. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, immuno-compromised people, infants and small children, and the elderly are at greater risk of developing life-threatening illness. We encourage immuno-compromised individuals to consult their doctor regarding appropriate precautions to take to avoid infection. *Cryptosporidium* must be ingested to cause disease, and it may be spread through means other than drinking water.

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.

Unregulated Contaminants :

UCMR4 sampling 2019

Entry Point 1

Contaminant (units)	Sample Date	Your Water	Range	
			Low	High
Micocystins (ug/L)	2019	ND	N/A	

Sample Point 50

Contaminant (units) ppb	Sample Date	Your Water	Range	
			Low	High
Bromochloroacetic Acid	2019	8.36 ppb	6.62 - 12 ppb	
Bromodichloroacetic Acid	2019	6.58 ppb	4.46 - 10.3 ppb	
Chlorodibromoacetic Acid	2019	2.28 ppb	1.64 - 2.67 ppb	
Dibromoacetic Acid	2019	2.67 ppb	1.13 - 5.14 ppb	
Dichloroacetic Acid	2019	13.03 ppb	7.04 - 16.7 ppb	
Monobromoacetic Acid	2019	0.136 ppb	0.00 - 0.545 ppb	
Monochloroacetic Acid	2019	ND	N/A	
Tribromoacetic Acid	2019	0.625 ppb	0.0 - 2.50	
Trichloroacetic Acid	2019	8.92 ppb	3.57 - 21.5 ppb	

Sample Point 150

Contaminant (units) ppb	Sample Date	Your Water	Range	
			Low	High
Bromochloroacetic Acid	2019	7.43 ppb	4.78 - 11.5 ppb	
Bromodichloroacetic Acid	2019	5.3 ppb	4.16 - 9.28 ppb	
Chlorodibromoacetic Acid	2019	2.95 ppb	1.44 - 5.33 ppb	
Dibromoacetic Acid	2019	2.68 ppb	1.08 - 5.67 ppb	
Dichloroacetic Acid	2019	10.3 ppb	13.21 - 5.44 ppb	
Monobromoacetic Acid	2019	0.24 ppb	0.00 - 0.627 ppb	
Monochloroacetic Acid	2019	ND	N/A	
Tribromoacetic Acid	2019	1.56 ppb	0.00 - 3.45 ppb	
Trichloroacetic Acid	2019	7.55 ppb	3.67 - 17.1 ppb	

Sample Point L26

Contaminant (units) ppb	Sample Date	Your Water	Range	
			Low	High
Bromochloroacetic Acid	2019	8.29 ppb	5.64	12.2 ppb
Bromodichloroacetic Acid	2019	6.51 ppb	4.30	9.81 ppb
Chlorodibromoacetic Acid	2019	2.32 ppb	2.00	2.79 ppb
Dibromoacetic Acid	2019	2.87 ppb	1.08	5.62 ppb
Dichloroacetic Acid	2019	13.38 ppb	6.92	16.8 ppb
Monobromoacetic Acid	2019	0.222 ppb	0.00	.0545 ppb
Monochloroacetic Acid	2019	ND	N/A	
Tribromoacetic Acid	2019	0.735 ppb	0.00	2.94 ppb
Trichloroacetic Acid	2019	8.68 ppb	3.81	21.5 ppb

Sample Point L24

Contaminant (units) ppb	Sample Date	Your Water	Range	
			Low	High
Bromochloroacetic Acid	2019	8.9 ppb	6.04	13.9 ppb
Bromodichloroacetic Acid	2019	6.85 ppb	4.52	9.92 ppb
Chlorodibromoacetic Acid	2019	2.73 ppb	1.75	4.88 ppb
Dibromoacetic Acid	2019	2.93 ppb	1.13	6.03 ppb
Dichloroacetic Acid	2019	15.09 ppb	7.07	20.6 ppb
Monobromoacetic Acid	2019	.256 ppb	0.00	.541 ppb
Monochloroacetic Acid	2019	.057 ppb	0.00	0.226 ppb
Tribromoacetic Acid	2019	1.23 ppb	0.00	2.88 ppb
Trichloroacetic Acid	2019	9.53 ppb	3.75	22.8 ppb

Sample Point EP1

Contaminant (units) ppb	Sample Date	Your Water	Range	
			Low	High
Manganese	2019	3.45 ppb	1.18	5.73 ppb

Sample Point S01

Contaminant (units) ppb	Sample Date	Your Water	Range	
			Low	High
Bromide	2019	143.4 ppb	93.8	193 ppb
Total Organic Carbon (TOC)	2019	6040 ppb	5780	6300 ppb

UCMR 5 sampling 2023

Entry point (EPI)

Contaminant (units) ppb	Sample Date	Your Water	Range	
			Low	High
perfluorobutanoic acid (PFBA)	2023	0.010 ppb	0.007 - 0.013 ppb	
perfluoropentanoic acid (PFPeA)	2023	0.013 ppb	0.008 - 0.022 ppb	
perfluorohexanoic acid (PFHxA)	2023	0.012 ppb	0.008 – 0.020ppb	
perfluoroheptanoic acid (PFHpA)	2023	0.005 ppb	0.004 – 0.008 ppb	
perfluorooctanoic acid (PFOA)	2023	0.009 ppb	0.006 – 0.012 ppb	
perfluorobutanesulfonic acid (PFBS)	2023	0.008 ppb	0.005 – 0.014 ppb	
perfluorohexanesulfonic acid (PFHxS)	2023	0.004 ppb	0.003 – 0.005 ppb	
perfluorooctanesulfonic acid (PFOS)	2023	0.012 ppb	0.010 – 0.014 ppb	

Additional Monitoring of Other Contaminants

LT2 Monitoring Giardia / 0.127 Cysts per Liter in the Untreated Raw Water

Sample Date	Your Water (average)	Range	
		Low	High
2018	0.027 cyst/L	0.00 - 1.05	

LT2 Monitoring E Coli / 114.2 CFU per Liter in the Untreated Raw Water

Sample Date	Your Water (average)	Range	
		Low	High
2018	114.2 CFU/L	6.3 - 1733	

1,4 Dioxane sampled 6/24/23 – 0.34 ug/L in untreated raw water