# 2023 Water Quality Report for Marion County Rural Water District

This report contains important information regarding the water quality in our system. The source of our water is ground water. All of the water distributed is purchased from Knoxville Water Works and Pleasantville Water Works. Our water quality testing shows the following results:

Contaminant	MCL	MCLG	Compliance		Date	Violation	Source		
			Type	Value & (Range)					
Total Trihalomethanes (ppb) [TTHM]	80	(N/A)	LRAA	5.00 (4 – 6)	9/30/2022	No	By-products of drinking water chlorination		
Total Haloacetic Acids (ppb) [HAA5]	60	(N/A)	LRAA	9.00 (5 – 12)	9/30/2022	No	By-products of drinking water disinfection		
Copper (ppm)	AL=1.3	1.3	90 <sup>th</sup>	0.0675 (0.0068 – 0.787)	2021	No	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives		
Lead (ppb)	AL=15	0	90 <sup>th</sup>	1.70 (ND – 4)	2021	No	Corrosion of household plumbing systems; Erosion of natural deposits		
950 – DISTRIBUT	ION SYSTEM	– KNOXVILLE			<del>,</del>				
Chlorine (ppm)	MRDL=4.0	MRDLG=4.0	RAA	3.2 (ND - 3.9)	12/31/2023	No	Water additive used to control microbes		
951 – DISTRIBUT	951 – DISTRIBUTION SYSTEM – PLEASANTVILLE								
Chlorine (ppm)	MRDL=4.0	MRDLG=4.0	RAA	1.9 (ND – 2.1)	12/31/23	No	Water additive used to control microbes		

Note: Contaminants with dates indicate results from the most recent testing done in accordance with regulations.

#### **DEFINITIONS**

- Maximum Contaminant Level (MCL) The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLFs 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.
- ppb parts per billion
- ppm parts per million
- pCi/L picocuries per liter
- N/A Not applicable
- ND Not detected
- RAA Running Annual Average
- IDSE Initial Distribution System Evaluation
- Treatment Technique (TT) A required process intended to reduce the level of a contaminant in drinking water.
- Action Level (AL) The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a
  water system must follow.
- Maximum Residual Disinfectant 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.
- Maximum Residual Disinfectant 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.
- SGL Single Sample Result
- RTCR Revised Total Coliform Rule
- NTU Nephelometric Turbidity Units

## **GENERAL INFORMATION**

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 or 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. Marion County Rural Water District 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.

#### SOURCE WATER ASSESSMENT INFORMATION

This water supply obtains some or all of its water from another public water supply. It is a consecutive water supply, where an originating parent supply provides drinking water to one or more downstream supplies.

SystemOriginal Supply IDKnoxville Water WorksIA6342036Pleasantville Water WorksIA6377046

## **CONTACT INFORMATION**

For questions regarding this information or how you can get involved in decisions regarding the water system, please contact Marion County Rural Water District at 641-842-3304.

### PURCHASED WATER INFORMATION

Our water system purchases water from the systems shown below. Their water quality is as follows:

# 6342036 - KNOXVILLE WATER WORKS

CONTAMINANT	MCL	MCLG	COMPLIANCE		DATE	VIOLATION	SOURCE
			Туре	Value & (Range)		Yes/No	
01 FINISHED WATE	R AFTER TRI	EATMENT					
Gross Alpha, inc (pCi/L)	15	0	SGL	2.14	7/12/2023	No	Erosion of natural deposits
Selenium	50	50	SGL	1.20	1/4/2022	No	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines
Flouride (ppm)	4	4	SGL	1.3	1/4/2022	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Barium	2	2	SGL	0.0139	1/4/2022	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natura deposits
Sodium (ppm)	NA	NA	SGL	154	1/4/2022	No	Erosion of natural deposits; Added to water during treatment process
6377046 — F 01 WELL #3 ('68) OF	_		WATER	R WORKS	3		
Gross Alpha, inc (pCi/L)	15	0	SGL	6	4/12/2023	No	Erosion of natural deposits
Combined	5	0	SGL	2	4/12/2023	No	Erosion of natural deposits
Radium (pCi/L)		0	OOL	2	4/12/2023	140	Liosion of natural deposits
Flouride (ppm)	4	4	SGL	1.8	4/21/2021	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
,	4 2						Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum
Flouride (ppm)	· 	4	SGL	1.8	4/21/2021	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories  Discharge of drilling wastes; Discharge from metal refineries; Erosion of natura