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Annual Drinking Water Quality Report 2024
Covering Calendar Year 2023
Reedy Water Service Town of
118 Main Street, Reedy, WV 25270
PWSID# 3304408
June 24, 2024

Why am I receiving this report?

In compliance with the Safe Drinking Water Act Amendments, **Reedy Water Service** is providing their customers with this annual water quality report. This report explains where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. The information in this report shows the results of our monitoring for the period of January 1st to December 31st, 2023 or earlier if not on a yearly schedule.

If you have any questions concerning this report, you may contact, **Mayor Richard Martin at 304-927-3222 for those customers being served by Reedy Water Service.** If you have any further questions, comments or suggestions, please attend any of our regularly scheduled board meetings held on the **1st Thursday of every month at 7:00 pm.**

Where does my water come from?

Your water source is **surface** water from the Charles Fork Lake.

Source Water Assessment

A Source Water Assessment was conducted in 2015 by the West Virginia Bureau for Public Health (WVBPB). The intake that supplies drinking water to the town of **Reedy Water Service** has a higher susceptibility to contamination, due to the sensitive nature of surface water supplies and the potential contaminant sources identified within the area. This does not mean that these intakes will become contaminated; only that conditions are such that the surface water could be impacted by a potential contaminant source. Future contamination may be avoided by implementing protective measures. The source water assessment report which contains more information is available for review or a copy will be provided to you at our office during business hours or from the WVBPB 304-558-2981.

Why must water be treated?

All drinking water contains various amounts and kinds of contaminants. Federal and state regulations establish limits, controls, and treatment practices to minimize these contaminants and to reduce any subsequent health effects.

Contaminants in Water

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 of contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of these 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).

The source of drinking water (both tap and bottled water) includes rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of 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 storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, farming.

Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water 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 storm water runoff, and septic systems.

Radioactive contaminants, which can be naturally-occurring or the result of oil and gas production and mining activities. 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 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).

Water Quality Data Table

Definitions of terms and abbreviations used in the table or report:

- **MCLG - Maximum Contaminant Level Goal**, or 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.
- **MCL - Maximum Contaminant Level**, or 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 technique.
- **SMCL - Secondary Maximum Contaminant Level**, recommended level for a contaminant that is not regulated and has no MCL.
- **MRDLG - Maximum Residual Disinfectant Level Goal**, or the level of drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect benefits of use of disinfectants to control microbial contaminants.
- **MRDL - Maximum Residual Disinfectant Level**, or the highest level of disinfectant allowed in drinking water. There is convincing evidence that addition of disinfectant is necessary to control microbial contaminants.
- **AL - Action level**, or the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow.
- **TT - Treatment Technique**, or a required process intended to reduce the level of a contaminant in drinking water.
- **MDL - Maximum Detection Level.**
- **ND - Non-Detects**, lab analysis indicates non-detect at or above Maximum Detection Level.
- **ppm - Parts per Million** or milligrams per liter (mg/l).
- **ppb - Parts per Billion** or micrograms per liter (µg/l).
- **pCi/L - Picocuries per Liter**, a measure of the radioactivity in water.
- **mrem/yr - Millirems per Year**, measure of radiation absorbed by the body.
- **MPA - Monitoring Period Average**, An average of sample results obtained during a defined time frame, common examples of monitoring periods are monthly, quarterly and yearly.
- **NTU - Nephelometric Turbidity Unit**, a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person. Turbidity is not regulated for groundwater systems.
- **RAA - Running Annual Average**, an average of sample results obtained over the most current 12 months and the used to determine compliance with MCLs.
- **LRAA - Location Running Annual Average**, Average of sample analytical Results for samples taken at a particular monitoring location during the previous four calendar quarters.
- **NE** - not established.
- **N/A** - not applicable.

The **Reedy Water Service**, routinely monitor for contaminants in your drinking water according to federal and state laws. The tables below show the results of our monitoring for contaminants.

Table of Test Results - Regulated Contaminants - Reedy Water Service

Contaminant	Violation Y/N	Level Detected	Unit of Measure	MCLG	MCL	Likely Source of Contamination
Inorganic Contaminants						
Copper**	N	0.0943	ppm	1.3	AL=1.3	Corrosion of household plumbing
Lead**	N	<5	ppb	0	AL=15	Corrosion of household plumbing
Volatile Organic Contaminants						
Chlorine	N	0.95 Annual avg. Range 0.20 - 1.94	ppm	4 MRDLG	4 MRDL	Water additive used to control microbes
Haloacetic acids (HAA5)	N	Annual Avg. 34.5 Range 23 - 46	ppb	NA	60	By-product of drinking water disinfection
Total trihalo-methanes (TTHMs)	N	Annual Avg. 89.5 Range 68 - 111	ppb	NA	80	By-product of drinking water chlorination

Copper and lead samples were collected from 10 area residences on 2023. Only the 90th percentile is reported. 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. Your water system 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>. **Reedy Water Service is working towards identifying service line materials throughout the water distribution supply. The service line inventory is required to be submitted to the state by October 16, 2024. The most up to date inventory is located at **Reedy Water Service office**, if you have any questions about our inventory, please contact Mayor Richard Martin at 304-927-3222.

Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.

Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or nervous system, and may have an increased risk of getting cancer.

Unresolved Deficiency Date Identified	Facility	Comments
8/27/2021	Reporting	The system in not conducting all required finished water compliance sampling (RTCR, LCR, DBP, Phase II/V, etc.). (40CFR141.21-141.29)Please ensure all required finished water compliance sampling (RTCR, LCR, DBP, Phs II/V, etc.) is being conducted.
8/27/2021	Reporting	Testing since the last sanitary survey has reflected at least one contaminate above a Primary MCL. (40CFR141.61-141.66)Please commence taking steps necessary to provide customers water with no contaminates above any Primary MCL. (Note: Since Mayor Martin took office in July of 2023, there have been no contaminants above the Primary MCLs)
8/27/2021	Reporting	Sig def not identified during 2024 survey. djm 6.7.24 Monthly operational reports are not being completed/submitted as required. (64CSR3-12.2)Please ensure monthly operational reports are being completed/submitted as required.

Violations
 During the 2023 calendar year, we had the below noted violation(s) of drinking water regulations.

Compliance Period	Analyte	Comments
12/1/2023 to 12/31/2023	CHLORINE	MONITORING, ROUTINE (DBP), MAJOR
12/1/2023 to 12/31/2023	CHLORINE	FAILURE TO COMPLETE OR SUBMIT MOR
12/1/2023 to 12/31/2023	CHLORINE	MONITORING, RTN,RPT MAJOR (SWTR-FILTER)
11/13/2023	PUBLIC NOTICE	PUBLIC NOTICE RULE LINKED TO VIOLATION
11/13/2023	DBP STAGE 1	QUALIFIED OPERATOR FAILURE
11/1/2023 to 11/30/2023	E. COLI	MONITORING, ROUTINE, MAJOR (RTCR)
11/1/2023 to 11/30/2023	CHLORINE	FAILURE TO COMPLETE OR SUBMIT MOR

11/1/2023 to 11/30/2023	CHLORINE	MONITORING, RTN/RPT MAJOR (SWTR-FILTER)
10/1/2023 to 12/31/2023	TOTAL HALOACETIC ACID (HAA5)	MONITORING, ROUTINE (DBP), MAJOR
10/1/2023 to 12/31/2023	TTHM	MONITORING, ROUTINE (DBP), MAJOR
8/1/2023 to 8/31/2023	CHLORINE	FAILURE TO COMPLETE OR SUBMIT MOR
7/1/2023 to 9/30/2023	PUBLIC NOTICE	PUBLIC NOTICE RULE LINKED TO VIOLATION
7/1/2023 to 9/30/2023	TTHM	MCL, LRAA
6/1/2023 to 6/30/2023	E. COLI	MONITORING, ROUTINE, MAJOR (RTCR)
6/1/2023 to 6/30/2023	CHLORINE	MONITORING, ROUTINE (DBP), MAJOR
6/1/2023 to 6/30/2023	CHLORINE	FAILURE TO COMPLETE OR SUBMIT MOR
6/1/2023 to 6/30/2023	CHLORINE	MONITORING, RTN/RPT MAJOR (SWTR-FILTER)
5/1/2023 to 5/31/2023	CHLORINE	FAILURE TO COMPLETE OR SUBMIT MOR
4/1/2023 to 4/30/2023	CHLORINE	FAILURE TO COMPLETE OR SUBMIT MOR
3/1/2023 to 3/31/2023	PUBLIC NOTICE	PUBLIC NOTICE RULE LINKED TO VIOLATION
3/1/2023 to 3/31/2023	PUBLIC NOTICE	PUBLIC NOTICE RULE LINKED TO VIOLATION
3/1/2023 to 3/31/2023	PUBLIC NOTICE	PUBLIC NOTICE RULE LINKED TO VIOLATION
3/1/2023 to 3/31/2023	E. COLI	MONITORING, ROUTINE, MAJOR (RTCR)
3/1/2023 to 3/31/2023	CHLORINE	MONITORING, ROUTINE (DBP), MAJOR
3/1/2023 to 3/31/2023	CHLORINE	MONITORING, RTN/RPT MAJOR (SWTR-FILTER)
3/1/2023 to 3/31/2023	CHLORINE	FAILURE TO COMPLETE OR SUBMIT MOR
2/1/2023 to 2/28/2023	CHLORINE	FAILURE TO COMPLETE OR SUBMIT MOR
1/1/2023 to 3/31/2023	PUBLIC NOTICE	PUBLIC NOTICE RULE LINKED TO VIOLATION
1/1/2023 to 3/31/2023	PUBLIC NOTICE	PUBLIC NOTICE RULE LINKED TO VIOLATION
1/1/2023 to 1/31/2023	PUBLIC NOTICE	PUBLIC NOTICE RULE LINKED TO VIOLATION
1/1/2023 to 3/31/2023	TOTAL HALOACETIC ACID (HAA5)	MONITORING, ROUTINE (DBP), MAJOR
1/1/2023 to 3/31/2023	TTHM	MONITORING, ROUTINE (DBP), MAJOR
1/1/2023 to 1/31/2023	CHLORINE	MONITORING, ROUTINE (DBP), MAJOR
1/1/2023 to 1/31/2023	CHLORINE	FAILURE TO COMPLETE OR SUBMIT MOR
1/1/2023 to 1/31/2023	CHLORINE	MONITORING, RTN/RPT MAJOR (SWTR-FILTER)
12/1/2022 to 12/31/2022	CHLORINE	FAILURE TO COMPLETE OR SUBMIT MOR
11/1/2022 to 11/30/2022	CHLORINE	FAILURE TO COMPLETE OR SUBMIT MOR
1/1/2022 to 12/31/2022	PUBLIC NOTICE	PUBLIC NOTICE RULE LINKED TO VIOLATION

Additional Information:

Turbidity is the measure of cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system.

All other water test results for the reporting year 2023 were all non-detects.

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. **The Reedy Water Service** are 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 drinking 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 at 1-800-426-4791 or at <http://www.epa.gov/safewater/lead> at our offices during business hours.

This report will not be mailed. A copy will be made available for review or your use upon request.

Some or all of our drinking water is supplied from another water system. The table below lists all of the drinking water contaminants, which were detected during the 2023 calendar year from the water systems that we purchase drinking water from.

Table of Test Results - Regulated Contaminants - Spencer Water Department

Contaminant	Violation Y/N	Level Detected	Unit of Measure	MCLG	MCL	Likely Source of Contamination
Microbiological Contaminants						
Turbidity*	N	Yearly High 0.26 100% of monthly samples <0.3	NTU	0	TT	Soil runoff
Total organic carbon	N	Range 1.30 - 2	ppm	NA	TT	Naturally present in the environment
Inorganic Contaminants						
Barium	N	0.021	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; Erosion of natural deposits
Copper**	N	0.153	ppm	1.3	AL=1.3	Corrosion of household plumbing
Lead**	N	0.83	ppb	0	AL=15	Corrosion of household plumbing
Nitrate	N	0.09	ppm	10	10	Erosion of natural deposits
Volatile Organic Contaminants						
Chlorine	N	2.10 Annual avg. Range 0.4 - 3.9	ppm	4 MRDLG	4 MRDL	Water additive used to control microbes
Haloacetic acids (HAA5)	N	Annual Avg. 30.5 Range 25 - 39	ppb	NA	60	By-product of drinking water disinfection
Total trihalo-methanes (TTHMs)	N	Annual Avg. 36 Range 19 - 46	ppb	NA	80	By-product of drinking water chlorination

Copper and lead samples were collected from 10 area residences on 2023. Only the 90th percentile is reported. 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. Your water system 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>. **Spencer Water Department is working towards identifying service line materials throughout the water distribution supply. The service line inventory is required to be submitted to the state by October 16, 2024. The most up to date inventory is located at **Spencer Water Department office**, if you have any questions about our inventory, please contact Chief Operator **Mark Ray** at 304-927-1497.

Radiological Contaminants	Collection Date	Highest Value	Range (low/high)	Unit	MCL	MCLG	Typical Source
GROSS ALPHA, EXCL. RADON & U	4/8/2019	0.034	0.034	pCi/L	15	0	Erosion of natural deposits
RADIUM-228	4/8/2019	0.587	0.072	pCi/L	5	0	Erosion of natural deposits

Secondary Contaminants-Non Health Based Contaminants-No Federal Maximum Contaminant Level (MCL) Established.	Collection Date	Highest Value	Range (low/high)	Unit	SMCL
ALKALINITY, TOTAL	2023	36.9	36.9 - 22.6	MG/L	10000
CARBON, TOTAL	2023	4.60	3.70 - 4.60	ppm	10000
FLUORIDE	2023	0.74	0.30 - 1.06	MG/L	4
SODIUM	5/9/2026	17.2	17.2	MG/L	1000
SULFATE	7/10/2023	33.9	33.8	Ppm	250

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Unresolved Deficiency Date Identified	Facility	Comments
2/28/2023	PUMPS-PROCESS	The system is utilizing a process (non-chemical feed) pump that is not operating properly. Currently the pumping station only has one pump that is working properly and could lead to water outages due to a failure of the only exiting working pump. Please ensure all process (non-chemical feed) pumps being utilized are operating properly. (64CSR77-8.5.a)
2/28/2023	STRG TANK	The storage tank has multiple holes or gaps along the interface of the roof and the sidewall. These holes could allow for insects or even small animals, birds or snakes to enter into the stored water and cause contamination. (64CSR77-9.1.i) The tank also appears to possibly be leaking below ground due to the presence of an excessive wet area near the tank on the end away from the treatment plant.Please ensure the storage tank holes are repaired and any leak repaired.

