

2021 Water Quality Report

Silver Springs Rural Community Water District

System # 3820002

We're pleased to provide you with this year's Water Quality Report. We want to keep you informed about the water and services we have delivered to you over the past year. Our goal is to provide to you a safe and dependable supply of drinking water. We are committed to ensuring the quality of your water. The source of our water is Ground Water and sometimes Surface Water purchased from the Orangeburg DPU System #SC3810001.

A Source Water Assessment Plan has been prepared for our system. If you have any questions about this report or concerning your water utility, or if you do not have internet access, please contact Adam Livingston at (803) 682-4812. We want you, our neighbors and valued customers, to be informed about your water utility. Feel free to attend any of our regularly scheduled meetings on the second Tuesday of every month at 6:00 pm at the Water Department office.

This report shows our water quality and what it means. Silver Springs W/D routinely monitors for constituents in your drinking water according to Federal and State laws. As water travels over the land or underground, it can pick up substances or contaminants such as microbes and chemicals. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some constituents. It's important to remember that the presence of these constituents does not necessarily pose a health risk.

The table below shows the results of our monitoring for the period of January 1st to December 31st, 2021. In this table you will find the following terms and abbreviations:

Action Level (AL) - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.

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 - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Maximum Contaminant Level - The "Maximum Allowed" (MCL) is 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. MCL's are set at very stringent levels. To understand the possible health effects described for many regulated constituents, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

Maximum Contaminant Level Goal - The "Goal"(MCLG) is 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.

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.

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.

Non-Detects (ND) - laboratory analysis indicates that the constituent is not present.

WATER QUALITY DATA TABLES

LEAD and COPPER TEST RESULTS							
Contaminant	Violation Y/N	90 th percentile	Unit Measurement	ALG	Action Level	Sites over action level	Likely Source of Contamination
Copper 2020	N	0.54	ppm	1.3	1.3	0	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead 2020	N	0.84	ppb	0	15	0	Corrosion of household plumbing systems; Erosion of natural deposits.

REGULATED CONTAMINANTS								
Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation (Y/N)	Likely Source of Contamination
Chlorine	2021	RAA 2.0	0.61-2.07	MRDLG 4	MRDL 4	ppm	N	Water additive used to control microbes
Haloacetic Acids (HAA5)	2021	4 LRAA	0 – 3.8	No goal for the total	60	ppb	N	By-product of drinking water disinfection
Total Trihalomethanes (TTHM)	2021	11 LRAA	0 – 3.64	No goal for the total	80	ppb	N	By-product of drinking water disinfection

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation Y/N	Likely Source of Contamination
Fluoride	2020	0.14	0.12 – 0.14	4	4.0	ppm	N	Erosion of natural deposits; water additive which promotes strong teeth, discharge from fertilizer and aluminum
Nitrate (measured as Nitrogen)	2021	0.12	0.12-0.12	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks; sewage; Erosion of natural deposits
Sodium [unregulated]	2020	1.55 (average)	1.4 – 1.7	NA	NA	ppm	N	Naturally occurring

Radioactive Contaminants	Collection Dates	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Combined Radium 226/228	2020	0.48	0.0-0.48	0	5	pCi/L	N	Erosion of natural deposits
Gross alpha excluding radon and uranium	2020	0.372	0.0-0.372	0	15	pCi/L	N	Erosion of natural deposits

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Violations Table - E. coli			
Fecal coliforms and E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause short term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, and people with severely compromised immune systems.			
Violation Type	Violation Begin	Violation End	Violation Explanation
MONITOR GWR TRIGGERED/ADDITIONAL, MAJOR	07/26/17	2021	We failed to collect follow-up samples within 24 hours of learning of the total coliform-positive sample. These needed to be tested for fecal indicators for all sources that were being used at the time the positive sample was collected.

Orangeburg DPU #SC3810001								
Purchased surface water from North Edisto River								
Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation Y/N	Likely Source of Contamination
Fluoride	2021	0.70	0.66 – 0.66	4	4.0	ppm	N	Erosion of natural deposits; water additive which promotes strong teeth, discharge from fertilizer and aluminum
Nitrate	2021	0.42	0.42 - 0.42	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks; sewage; Erosion of natural deposits
Sodium (unregulated)	2021	2.7	2.7 – 2.7	NA	NA	ppm	N	Naturally occurring
Combined Radium 226/228	2020	0.428	0.428 – 0.428	0	5	pCi/L	N	Erosion of natural deposits

Orangeburg DPU #SC3810001 - Turbidity				
	Limit (Treatment Technique)	Level Detected	Violation	Likely Source of Contamination
Highest single measurement	1 NTU	0.100 NTU	N	Soil Runoff
Lowest monthly % meeting limit	0.3 NTU	100.000%	N	Soil Runoff
Information Statement: Turbidity is a measurement of the cloudiness of the water caused by suspended particles. Turbidity is a good indicator of water quality and the effectiveness of filtration.				

Silver Springs W/D #3820002

All sources of drinking water are subject to potential contamination by substances that are naturally occurring, or man-made. These substances can be microbes, inorganic or organic chemicals and radioactive substances. All 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 the 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 at 1-800-4264791.

If you have special health needs—

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 microbiological 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. The Silver Springs Rural Community 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 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 or at <http://www.epa.gov/safewater/lead>.