

# ***2022 Annual Drinking Water Quality Report***

## **Breezy Hill Water District**

*SCDHEC System #SC0220006*

We're pleased to present to you this year's Annual Quality Water Report. This report is designed to inform you about the quality of water and the services we deliver to you every day. 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. Our water source is produced from wells in our service area and a surface water treatment plant that's source is Clearwater Pond. We purchase water from Edgefield County Water and Sewer and the City of North Augusta, both Savannah River surface water sources. If you do not have Internet access, please contact Jeff Lowe, General Manager at 803-663-6455 to make arrangements to review this document.

If you have any questions about this report or concerning your water utility, please contact Jeff Lowe, General Manager at 803-663-6455. We want our 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 6:30 pm, on the 3<sup>rd</sup> Tuesday at the 506 Bettis Academy Road, Graniteville SC.

Breezy Hill Water District routinely monitors constituents in your drinking water according to Federal and State laws. This table shows the results of our monitoring for the period of January 1st to December 31st, 2022. As water travels over the land or underground, it can pick up substances or contaminants such as microbes, inorganic and organic chemicals, and radioactive substances. 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.

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 1-800-426-4791.

If present, elevated lead levels 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. Breezy Hill 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>.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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 1-800-426-4791.

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

***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 (MCL)*** - 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.

***Maximum Contaminant Level Goal (MCLG)*** - 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.

***Running Annual Average (RAA)*** – average of all samples in a year

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| Lead and Copper (2022) |              |      |                   |                             |                 |       |           |   |
|------------------------|--------------|------|-------------------|-----------------------------|-----------------|-------|-----------|---|
|                        | Date Sampled | MCLG | Action Level (AL) | 90 <sup>th</sup> Percentile | # Sites Over AL | Units | Violation | Likely Source of Contamination  |
| Copper                 | 2022         | 1.3  | 1.3               | 1.1                         | 3               | ppm   | N         | Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems. |
| Lead                   | 2022         | 0    | 15                | 1.9                         | 0               | ppb   | N         | Corrosion of household plumbing systems; Erosion of natural deposits.                                   |

| Disinfectants and Disinfection Byproducts (2022) |                 |                        |                          |                       |        |       |           |  |
|--|-----------------|------------------------|--------------------------|-----------------------|--------|-------|-----------|--|
|  | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG                  | MCL    | Units | Violation | Likely Source of Contamination             |
| Chlorine   | 2022            | 1.0                    | 0.65-0.83                | MRDLG=4               | MRDL=4 | ppm   | N         | Water additive used to control microbes.   |
| Haloacetic Acids (HAA5)                          | 2022            | RAA 28                 | 0 – 25.2                 | No goal for the total | 60     | ppb   | N         | By-product of drinking water disinfection. |
| Total Trihalomethanes (TTHM)                     | 2022            | RAA 43                 | 0 – 46.7                 | No goal for the total | 80     | ppb   | N         | By-product of drinking water disinfection. |

| Inorganic Contaminants (2022)  |                 |                        |                          |      |     |       |           |  |
|--------------------------------|-----------------|------------------------|--------------------------|------|-----|-------|-----------|--|
|                                | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source of Contamination   |
| Nitrate [measured as Nitrogen] | 2022            | 6.0                    | 0.27-6.0                 | 10   | 10  | ppm   | N         | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits. |

Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant you should ask advice from your health care provider.

| Radioactive Contaminants (2022)         |                 |                        |                          |      |     |       |           |   |
|---|-----------------|------------------------|--------------------------|------|-----|-------|-----------|---|
|   | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source of Contamination          |
| Gross alpha excluding radon and uranium | 2022            | 1.9                    | 1.9-1.9                  | 0    | 15  | pCi/L | N         | Erosion of natural deposits.            |
| Combined Radium 226/228                 | 2022            | 0.302                  | 0.302-0.302              | 0    | 5   | pCi/L | N         | Erosion of natural deposits.            |
| Beta/photon emitters                    | 2022            | 4.27                   | 4.27-4.27                | 0    | 50* | pCi/L | N         | Decay of natural and man-made deposits. |

\*The MCL for beta particles is 4 mrem/year. EPA considers 50 pCi/L to be the level of concern for beta particles. Because the beta particle results were below 50 pCi/L, no testing for individual beta particle constituents was required.

| Turbidity (2021)               |                             |                |           |                                |
|--------------------------------|-----------------------------|----------------|-----------|--------------------------------|
|                                | 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                     | 100.00%        | N         | Soil runoff.                   |

Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration.

**Total Organic Carbon.** The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set, unless a TOC violation is noted in the violations section.

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| <b>Unregulated Contaminants (2022)</b>   |                 |                        |                          |      |     |       |  |
|--|-----------------|------------------------|--------------------------|------|-----|-------|--|
|  | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG | MCL | Units | Likely Source of Contamination   |
| Methyl tert-butyl ether (MTBE)   | 2022            | 1.045 (average)        | 0.52-1.34                | N/A  | N/A | ppb   | Contamination of drinking water sources can occur from leaking underground and above ground fuel storage tanks, pipelines, refueling spills, automobile accidents damaging the fuel tank, consumer disposal of "old" gasoline", emissions from older marine engines, and to a lesser degree, storm water runoff, and precipitation mixed with MTBE in the air. |
| Sodium   | 2022            | 5.5                    | 5.5-5.5                  | N/A  | N/A | ppm   | Naturally occurring.   |
| Unregulated contaminants are those that don't yet have a drinking water standard set by USEPA. The purpose of monitoring for these contaminants is to help USEPA decide whether the contaminants should have a standard. |                 |                        |                          |      |     |       |  |

| <b>Inorganic Contaminants (2022) – water purchased from Edgefield Co. Water and Sewer (SC1920001)</b> |                 |                        |                          |      |     |       |           |  |
|---|-----------------|------------------------|--------------------------|------|-----|-------|-----------|--|
|   | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source of Contamination   |
| Nitrate [measured as Nitrogen]  | 2022            | 0.17                   | 0.17-0.17                | 10   | 10  | ppm   | N         | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.                               |
| Fluoride  | 2021            | 0.38                   | 0.38 – 0.38              | 4    | 4.0 | ppm   | N         | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories. |
| Sodium  | 2022            | 4.0                    | 4.0 – 4.0                | N/A  | N/A | ppm   | N         | Naturally occurring.   |