

GREEN VALLEY GLENWOOD PSD BULLTAIL WV3302813

Consumer Confidence Report – 2023 Covering Calendar Year – 2022

This brochure is a snapshot of the quality of the water that we provided last year. Included are the details about where your water comes from, what it contains, and how it compares to Environmental Protection Agency (EPA) and state standards. We are committed to providing you with information because informed customers are our best allies. If you would like to observe the decision-making process that affects drinking water quality, please call Marion Scott Clark at 304-325-6832.

Your water comes from :

| Source Name | Source Water Type |
|----------------------------------|-------------------|
| INTAKE-JAMES BAILEY RESERVOIR | Surface Water |

| Buyer Name | Seller Name |
|---|-------------|
| There are no additional purchases to display. | |

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as those 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).

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 EPA's Safe Drinking Water Hotline (800-426-4791).

The sources of drinking water (both tap water and bottled water) included 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 sources water before we treat it include:
Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, 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 or farming.
Pesticides and herbicides, which may come from a variety of sources such as storm water run-off, agriculture, and residential users.
Radioactive contaminants, which can be naturally occurring or the result of mining activity.
Organic contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and also come from gas stations, urban storm water run-off, and septic systems.

In order to ensure that tap water is safe to drink, EPA prescribes regulation which limits the amount of certain contaminants in water provided by public water systems. We treat our water according to EPA's regulations. Food and Drug Administration regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

Our water system has an estimated population of 2130 and is required to test a minimum of 2 samples per month in accordance with the Total Coliform Rule for microbiological contaminants. Coliform bacteria are usually harmless, but their presence in water can be an indication of disease-causing bacteria. When coliform bacteria are found, special follow-up tests are done to determine if harmful bacteria are present in the water supply. If this limit is exceeded, the water supplier must notify the public.

Water Quality Data

The following tables list all of the drinking water contaminants which were detected during the 2022 calendar year. The presence of these contaminants does not necessarily indicate the water poses a health risk. Unless noted, the data presented in this table is from the testing done January 1- December 31, 2022. The state requires 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.

Terms & Abbreviations

Maximum Contaminant Level Goal (MCLG): the "Goal" is the level of a contaminant in drinking water below which there is no known or expected risk to human health. MCLGs allow for a margin of safety.

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.

Secondary Maximum Contaminant Level (SMCL): recommended level for a contaminant that is not regulated and has no MCL.

Action Level (AL): the concentration of a contaminant that, if exceeded, triggers treatment or other requirements.

Treatment Technique (TT): a required process intended to reduce levels of a contaminant in drinking water.

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.

Non-Detects (ND): lab analysis indicates that the contaminant is not present.

Parts per Million (ppm) or milligrams per liter (mg/l)

Parts per Billion (ppb) or micrograms per liter (µg/l)

Picocuries per Liter (pCi/L): a measure of the radioactivity in water.

Millirems per Year (mrem/yr): measure of radiation absorbed by the body.

Monitoring Period Average (MPA): An average of sample results obtained during a defined time frame, common examples of monitoring periods are monthly, quarterly and yearly.

Nephelometric Turbidity Unit (NTU): 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.

Running Annual Average (RAA): an average of sample results obtained over the most current 12 months and used to determine compliance with MCLs.

Locational Running Annual Average (LRAA): Average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters.

Testing Results for: GREEN VALLEY GLENWOOD PSD BULLTAIL WV3302813

| Total Coliform Bacterial Results | Year sampled | MCL | MCLG | Highest Percentage Detected | Compliance Achieved | Typical Source |
|---|--------------|-----|------|-----------------------------|---------------------|---------------------------------------|
| % Positive Samples | 2022 | | | 0% | YES | Bacteria naturally in the environment |
| No Detected Results were Found in the Calendar Year of 2022 | | | | | | |

| Regulated Contaminants | Collection Date | Highest Value | Range (low/high) | Unit | MCL | MCLG | Typical Source |
|------------------------|---------------------|---------------|------------------|------|------|------|---|
| BARIUM | 01-04-2022 | 28.9 | 28.9 | ppm | 2 | 2 | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits |
| CHROMIUM | 01-04-2022 | .44 | .44 | ppb | 100 | 100 | Discharge from steel and pulp mills; Erosion of natural deposits |
| CYANIDE | 01-04-2022 | ND | ND | ppb | 200 | 200 | Discharge from steel/metal factories; Discharge from plastic and fertilizer factories |
| FLUORIDE | 01-04-2022 | .68 | .68 | ppm | 4 | 4 | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories |
| NITRATE | 01-04-2022 | 0.096 | 0.096 | ppm | 10 | 10 | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits |
| NITRITE | 01-04-2022 | 0.32 | 0.32 | ppm | 1 | 1 | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits |
| TURBIDITY | Jan. 2022-Dec. 2022 | .27 | .02 - .27 | NTU | 0.30 | 0.30 | Soil runoff |

| Disinfection Byproducts | Sample Point | Monitoring Period | Highest LRAA | Range (low/high) | Unit | MCL | MCLG | Typical Source |
|-------------------------------|--------------|-------------------|--------------|------------------|------|-----|------|---|
| TOTAL HALOACETIC ACIDS (HAA5) | DUFF HOLLOW | 2022 | 45.2 | 11.0 – 45.2 | ppb | 60 | 0 | By-product of drinking water disinfection |
| TTHM ** | MERCER MALL | 2022 | 95.9 | 3.0 – 95.9 | ppb | 80 | 0 | By-product of drinking water chlorination |

** We did not meet the MCL for the Mercer Mall sample site. Although, we did meet the LRAA for the site for the year 2022.

| Lead and Copper | Monitoring Period | 90 th Percentile | Range (low/high) | Unit | AL | Sites Over AL | Typical Source |
|-----------------|-------------------|-----------------------------|------------------|------|-----|---------------|--|
| COPPER, FREE * | 2022 – 2025 | 0.3670 | 0.035 – 0.448 | ppm | 1.3 | 0 | Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives |
| LEAD * | 2022 - 2025 | 3.8 | 3.1 – 5.3 | ppb | 15 | 0 | Corrosion of household plumbing systems; Erosion of natural deposits |

* Copper and lead samples were collected from 10 area residences on 6/7/2022. 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>.

GREEN VALLEY GLENWOOD PSD BULLTAIL 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 [Green Valley-Glenwood PSD Office], if you have any questions about our inventory, please contact MARION S CLARK at 304-325-6832.

| Chlorine: Maximum Disinfection Level | Highest Value | Range(low/High) | Annual Avg. | MCL |
|---|------------------|-----------------|-------------|--------|
| 01/01/2022 - 12/31/2022 | 1.8 | 0.4 – 1.8 | 1.32 | 4 MG/L |

| Unresolved Deficiency Date Identified | Facility | Comments |
|--|---------------------|--|
| 12/12/2022 | DISTRIBUTION SYSTEM | System does not have a cross connection and backflow prevention program (64CSR15-8.2)System needs to adopt and implement a cross connection and backflow prevention program. |
| 12/12/2022 | HILLS TANK | The storage tank is not adequately secured. (64CSR77-9.1.d) The access gate allows for entrance inside the facility and there is not "gate" on the access ladder. Please repair access gate and install gate on ladder access. |
| 12/12/2022 | MALL TANK | The storage tank has a leak. (64CSR77-9.1.i) A significant leak is present at intersection of one of the seams and a bolt. This leak requires immediate attention and repair. |
| 12/12/2022 | MALL TANK | The storage tank overflow is not properly screened. (64CSR77-9.1.f.2) The overflow screen is greater than 24 mesh. Please ensure proper screening is in place for the storage tank overflow. |

| Total Organic Carbon Lowest Month for Removal | Collection Date | Highest Value | Range(low/High) | Unit | TT | Typical Source |
|--|--------------------|------------------|-----------------|------|----|--------------------------------------|
| CARBON, TOTAL | 4/5/2022 | 2.7 | 1.4 – 2.7 | MG/L | 0 | Naturally present in the environment |

| Analyte | Facility | Highest Value | Unit of Measure | Month Occurred |
|---|----------|---------------|-----------------|----------------|
| No Detected Results were Found in the Calendar Year of 2022 | | | | |

| Radiological Contaminants | Collection Date | Highest Value | Range (low/high) | Unit | MCL | MCLG | Typical Source |
|---|--------------------|------------------|---------------------|------|-----|------|----------------|
| No Detected Results were Found in the Calendar Year of 2019 | | | | | | | |

| Secondary Contaminants-Non Health Based Contaminants-No Federal Maximum Contaminant Level (MCL) Established. | Collection Yearly Date | Highest Value | Range (low/high) | Unit | SMCL |
|--|---------------------------|---------------|---------------------|--------|-------|
| ALKALINITY,TOTAL | 12-6-2022 | 62 | 40-62 | MG/L | 10000 |
| CARBON, TOTAL | 1/1/2022- 12/31/2022 | 3.9 | 2.1-3.9 | MG/L | 10000 |
| NICKEL | 01-04-2022 | 0.45 | 0.45 | MG/L | 0.1 |
| SODIUM *** | 01-04-2022 | 7.71 | 7.71 | MG/L | 20 |
| SULFATE | 01-04-2022 | 16.9 | 16.9 | MG/L | 250 |
| SUVA (SPECIFIC ULTRAVIOLET ABSORBANCE) | 1/1/2022- 12/31/2022 | 1.6 | .160 – 1.6 | L/MG-M | |
| UV ABSORBANCE @254 NM | 1/1/2022- 12/31/2022 | 0.030 | .014 - .030 | CM-1 | |

***Sodium is an unregulated contaminant. Our sodium level does not exceed the guidance MCL. Anyone having a concern over sodium should contact their primary health care provider.

During the 2022 calendar year, we had the below noted violation(s) of drinking water regulations.

| Compliance Period | Analyte | Comments |
|---|---------|----------|
| No Violations Occurred in the Calendar Year of 2022 | | |

Additional Required Health Effects Language:

Infants and children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the Safe Drinking Water Hotline (800-426-4761).

Total organic carbon (TOC) has no health effects. However, total organic carbon provides a medium for the formation of disinfection byproducts. These byproducts include trihalomethanes (THMs) and halo acetic acids (HAAs). Drinking water containing these byproducts in excess of the MCL may lead to adverse health effects, liver or kidney problems, or nervous system effects, and may lead to 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 central nervous systems, and may have an increased risk of getting cancer.

There are no additional required health effects violation notices.

| Water System | Type | Category | Analyte | Compliance Period |
|---|------|----------|---------|-------------------|
| No Violations Occurred in the Calendar Year of 2022 | | | | |

There are no additional required health effects violation notices.

There are no additional required health effects notices.

Additional Information:

All other water test results for the reporting year 2022 were all non-detects.

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

This report will not be mailed. A copy will be provided to you upon request at our office during regular business hours. Also Our Annual Drinking Water Quality Report is available by electronic delivery using the following website or URL address: www.citlink.net/~gvgwpsd/ccr