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PWS# WV3305401

## Consumer Confidence Report – 2022

### Covering Calendar Year – 2021

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 have any questions concerning this report, you may contact Cory Willis, Chief Water Operator at 304-422-1675. If you have any further questions, comments or suggestions, please attend any of our regularly scheduled water board meetings held on the 3rd Tuesday of every month at 4:00 p.m. in the Vacuum Station, 908 Old River Road, Boaz WV.

Our drinking water is supplied from another water system through a Consecutive Connection (CC). To find out more about our drinking water sources and additional chemical sampling results, please contact our office at the number provided above. Your water comes from:

Buyer Name	Seller Name
CENTRAL BOAZ PSD	VIENNA

The well field that supplies drinking water to the City of Vienna has a higher susceptibility to contamination, due to the sensitive nature of the aquifer in which the drinking water well is located and the existing potential contaminant sources identified within the area. This does not mean that the well field will become contaminated; only that conditions are such that the ground 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 WVBPH at 304-558-2981.

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) include 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 1,418 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 2021 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, 2021. 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: CENTRAL BOAZ PSD

Disinfection Byproducts	Sample Point	Monitoring Period	Highest LRAA	Range (low/high)	Unit	MCL	MCLG	Typical Source
Total Haloacetic Acids (HAA5)	Boaz Vacuum Station	2021	ND	ND - ND	ppb	60	0	By-product of drinking water chlorination
Total Trihalomethanes (TTHM)	Boaz Vacuum Station	2021	3	3-3	ppb	80	0	By-product of drinking water chlorination

Lead and Copper	Monitoring Period	90 <sup>th</sup> Percentile	Range (low/high)	Unit	AL	Sites Over AL	Typical Source
Copper, Free	2019 - 2021	0.276	0.0281 – 0.277	ppm	1.3	0	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Lead	2019 - 2021	9.2	0.65 – 9.7	ppb	15	0	Corrosion of household plumbing systems; Erosion of natural deposits

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>.

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).

Chlorine/Chloramines Maximum Disinfection Level	MPA	MPA Units	RAA	RAA Units
12/01/2021 - 12/31/2021	1	MG/L	1.1	MG/L

All other water test results for the reporting year 2021 were non-detects. Central Boaz PSD had no violations of drinking water regulations during the 2021 calendar year.

Our drinking water is supplied from the City of Vienna. The table below lists all of the drinking water contaminants which were detected during the 2021 calendar year from the water system that we purchase drinking water from.

Testing Results for: CITY OF VIENNA

Regulated Contaminants	Collection Date	Water System	Highest Value	Range (low/high)	Unit	MCL	MCLG	Typical Source
Antimony	3/15/2021	VIENNA	0.022	0.022	ppb	6	6	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Barium	3/15/2021	VIENNA	0.089	0.089	ppm	2	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Chromium	3/15/2021	VIENNA	3.8	3.8	ppb	100	100	Discharge from steel and pulp mills; Erosion of natural deposits
Fluoride	3/15/2021	VIENNA	0.62	0.62	ppm	4	4	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Gross Alpha, excl. Radon & U	3/5/2019	VIENNA	4.04	0.441 - 4.04	pCi/L	15	0	Erosion of natural deposits
Nitrate	3/16/2021	VIENNA	6.6	3.5 – 6.6	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Nitrate-Nitrite	3/16/2021	VIENNA	6.6	3.5 – 6.6	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Selenium	3/15/2021	VIENNA	0.33	0.33	ppb	50	50	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines

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 for advice from your health care provider.

Certain minerals are radioactive and may emit a form of radiation known as alpha radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer.

Secondary Contaminants	Collection Date	Water System	Highest Value	Range (low/high)	Unit	SMCL
Nickel	3/15/2021	VIENNA	0.0006	0.0006	MG/L	0.1
Sodium	3/15/2021	VIENNA	30.5	30.5	MG/L	1000
Sulfate	3/15/2021	VIENNA	33.5	33.5	MG/L	250

**Please Note:** Because of sampling schedules, results may be older than 1 year.

During the 2021 calendar year, the water system that we purchase water from had the below noted violation of drinking water regulations.

Water System	Type	Category	Analyte	Compliance Period
VIENNA	FOLLOW-UP OR ROUTINE TAP M/R (LCR)	MON	LEAD & COPPER RULE	5/1/2021
VIENNA	PUBLIC NOTICE RILE LINKED TO VIOLATION	PN	PUBLIC NOTICE	6/16/2021

This report will not automatically be mailed to each customer. A copy will be provided to you upon request during regular business hours or on our website at [www.woodpsd.org/central-boaz-psd.html](http://www.woodpsd.org/central-boaz-psd.html). This report can also be directly accessed by visiting [tinyurl.com/ypp2dnrj](http://tinyurl.com/ypp2dnrj).