

****REVISED 3/19/2022****

**Annual Drinking Water Quality Report 2020
Pleasant Valley PSD
2361 Lazzelle Union Road
Maidsville, WV 26541
PWS# WV3303112-Maidsville
PWS# WV3303130-Cassville**

Why am I receiving this report?

In compliance with the Safe Drinking Water Act Amendments, the **Pleasant Valley PSD** is providing its 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, 2020 or earlier if not on a yearly schedule.

If you have any questions concerning this report, you may contact **Jim Obrad, Chief Operator, at 304-328-5847 Monday-Friday, 7:00AM-3:00PM**. If you have any further questions, comments or suggestions, please attend any of our **regularly scheduled water board meetings held on the 2nd Tuesday of every month at 4:30pm in the Pleasant Valley PSD office located at 2361 Lazzelle Union Road, Maidsville, WV 26541**.

Where does my water come from?

Your drinking water source is purchased from Morgantown Utility Board, which is **surface** water from the Monongahela River and Cobun Reservoir.

Source Water Assessment

A Source Water Assessment or Protection Plan was updated in 2019. The intake that supplies drinking water to the **Morgantown Utility Board** 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 this intake 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 at MUB.ORG or a copy will be provided to you at our office during business hours or from the WVBPH 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:

- **AL - Action Level**, or the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow.
- **LRAA - Locational Running Annual Average** is an average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters.
- **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.
- **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.
- **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.
- **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.
- **N/A** - not applicable
- **ND** - Not Detectable, no contaminants were detected in the sample(s) taken.
- **NE** - not established
- **NTU** - Nephelometric Turbidity Unit, used to measure cloudiness in water
- **ppb** - parts per billion or micrograms per liter ($\mu\text{g/l}$)

Inorganics -Cassville- Copper and Lead samples were collected from 5 area residences on September 21 st , 2020							
Contaminant/ System	Monitoring Period	90 th Percentile	Range	Unit of Measure	AL	Sites Over AL	Likely Source of Contamination
Copper, Free	2020	0.0104	0.00086 - 0.0106	ppm	1.3	0	Corrosion of household plumbing systems; erosion of natural deposits.
Lead	2020	0.205	0.0 – 0.25	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. **The Pleasant Valley PSD** 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 at 1-800-426-4791 or at <http://www.epa.gov/safewater/lead>.

Disinfection Byproducts -Maidsville-							
Contaminant & Sample Site	Violation Y/N	Highest LRAA	Range (low/high)	Unit of measure	MCLG	MCL	Likely source of Contamination
Haloacetic acids (HAA5) PVPSD Office	N	26.675	21.2 / 38.8	ppb	NA	60	By-product of drinking water disinfection
*Total trihalomethanes (TTHMs) PVPSD Office	N	53.925	22.6 / 96.9	ppb	NA	80	By-product of drinking water disinfection
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Disinfection Byproducts -Cassville-							
Contaminant & Sample Site	Violation Y/N	Highest LRAA	Range (low/high)	Unit of measure	MCLG	MCL	Likely source of Contamination
Haloacetic acids (HAA5) Smokey Drain EOL	N	24.75	17.3 / 41.1	ppb	NA	60	By-product of drinking water disinfection
*Total trihalomethanes (TTHMs) Smokey Drain EOL	N	60.375	24.6 / 110	ppb	NA	80	By-product of drinking water disinfection

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

The Pleasant Valley PSD had 6 moderate deficiencies reported on the last Sanitary Survey conducted by the WV Bureau of Public Health on February 4, 2019.

1. The four storage tanks DO NOT have required perimeter fencing. (An engineering firm has been hired to work on a project to obtain the required perimeter fencing)
2. Fort Martin and Madsville tanks require maintenance. (An engineering firm has been hired to work on a project to obtain the required maintenance)
3. Mon Power/Fort Martin Station has not installed a BF/XC assembly. (Mon Power will keep PVPSD informed of the progress of the installation)
4. Kapnick Booster Station has no water meter. (An engineering firm has been hired to work on a project to obtain the required meter)
5. Water meters in the system are out of compliance due to the lack of testing as per the primacy agency rules. (More personnel have been certified to test meters and a plan has been put into place to return to compliance as soon as possible)
6. Madsville has no pump runtime or meter at the booster station. (Companies have been contacted to remedy the problems at Madsville booster station)

The Pleasant Valley PSD has made every effort and taken every precaution to return to compliance. The PSD hopes to have these projects complete by the next sanitary survey.

Some or all of our drinking water is supplied from another water system. The table below lists some of the drinking water contaminants which were detected in 2020. The entire list can be found at www.mub.org/

Table of Test Results - Regulated Contaminants –Morgantown Utility Board PWS#WV3303111

Contaminant	Violation Y/N	Level Detected	Unit of Measure	MCLG	MCL	Likely Source of Contamination
Microbiological Contaminants						
Turbidity	N	0.013 100% of monthly samples <.3	NTU	0	TT	Soil runoff
Inorganic Contaminants						
Antimony, Total	N	0.6	ppb	6	6	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Barium	N	0.0364	ppm	2	2	Discharge from drilling wastes, discharge from metal refineries, erosion of natural deposits.
Chromium	N	0.0020	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits

Fluoride	N	0.61	ppm	4	4	Erosion of natural deposits; water additive that promotes strong teeth; discharge from aluminum and fertilizer plants
Nitrate	N	0.37	ppm	10	10	Runoff from fertilizer use; erosion of natural deposits
Nitrate-Nitrite	N	0.46	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Radium-228	N	0.609	pCi/l	0	0	Erosion of natural deposits
Volatile Organic Contaminants						
Chlorine	N	1.23 Annual Avg. Range 0.6-1.6	ppm	4 MRDLG	4 MRDL	Water additive used to control microbes
Haloacetic acids (HAA5)	N	19.6 Annual Avg. Range 6.44-39.9	ppb	NA	60	By-product of drinking water disinfection
Total trihalomethanes (TTHMs)	N	41.1 Annual Avg. Range 10.7-103	ppb	NA	80	By-product of drinking water chlorination

Table of Test Results - Unregulated Contaminants

Contaminant	Violation Y/N	Level Detected	Unit of Measure	MCLG	MCL	Likely Source of Contamination
Sodium	N	21.8	ppm	NE	20	Erosion of natural deposits
Sulfate	N	172	ppm	250	250	Erosion of deposits

Additional Information

All other water test results for the reporting year 2020 were all non-detects.

Turbidity is a measure of the cloudiness in drinking water. Morgantown Utility Board monitors turbidity because it is a good indicator of the effectiveness of its filtration system.

This report will not be mailed. A copy will be provided to you upon request at our office during regular business hours.