



**594 Davisville Road  
Davisville, WV 26142  
PWS # WV3305402**

**June 1, 2020**

## **2019 Annual Drinking Water Quality Report**

### ***What is this report?***

In compliance with the Safe Drinking Water Act Amendments, **Claywood Park Public Service District** 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, 2019 or earlier if not on a yearly schedule.

If you have any questions concerning this report, you may contact Cory Willis, Chief 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 2nd Tuesday of every month at 2:00 PM in the District Office, 594 Davisville Road, Davisville, WV 26142. We are also available on the web at [www.woodpsd.org](http://www.woodpsd.org).

### ***Where does my water come from?***

Your water source is surface water from the Little Kanawha River.

### ***Source Water Assessment***

A Source Water Assessment was conducted in 2010 by the West Virginia Bureau for Public Health (WVBPH). The intake that supplies drinking water to the District 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 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.

Our water system has an estimated population of 8141 and is required to test a minimum of 9 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.

*Contaminants that may be present in source water before we treat it 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 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 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).

### ***Terms and 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.

**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

**Claywood Park PSD** routinely monitors for contaminants in your drinking water according to federal and state laws. The table below shows the results of our monitoring for contaminants.

### Regulated Contaminants – Claywood Park PSD

Contaminant	Collection Date / Mon. Period	Level Detected	Unit of Measure	MCLG	MCL	Likely Source of Contamination
Turbidity	2019	0.29 100% of Monthly samples <0.3	NTU	0	TT	Soil runoff
Total organic carbon	1/10/2019	3.5 Range 1.0 – 3.5	ppm		TT	Naturally present in the environment
Barium	1/17/2019	0.0294	ppm	2	2	Discharge from drilling waste; discharge from metal refineries, erosion of natural deposits.
Fluoride	1/17/2019	0.91	ppm	4	4	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Copper	2019	0.228 Range 0.013 – 0.662	ppm		AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead	2019	1.1 Range 0 – 3.6	ppb		AL=15	Corrosion of household plumbing systems; erosion of natural deposits
Nitrate	1/17/2019	0.28	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits
Chlorine	2019	1.8 RAA	ppm		4 MRDL	Water additive used to control microbes
Haloacetic acids (HAA5) Cedar Grove	2019	45.1 LRAA Range 17.7 – 74.0	ppb	0	60	By-product of drinking water disinfection
Haloacetic acids (HAA5) Mountwood Park	2019	49.4 LRAA Range 22.4 – 78.8	ppb	0	60	By-product of drinking water disinfection
Total Trihalomethanes (TTHM) Cedar Grove	2019	53.1 LRAA Range 15.8 – 94.4	ppb	0	80	By-product of drinking water chlorination
Total Trihalomethanes (TTHM) Mountwood Park	2019	55.5 LRAA Range 20.2 – 97.0	ppb	0	80	By-product of drinking water chlorination
Gross Alpha, excl. Radon & U	1/17/2019	0.60	pCi/L	0	15	Erosion of natural deposits

**Secondary Contaminants – Claywood Park PSD**

Contaminant	Collection Date	Highest Value	Unit	SMCL
Carbon, Dissolved Organic (DOC)	11/13/2019	3.6	mg/L	
Carbon, Total	1/10/2019	3.5 Range 1.02 – 3.5	ppm	10000
Sodium	1/17/2019	12	mg/L	1000
Sulfate	1/17/2019	12.8	mg/L	250
SUVA (Specific Ultraviolet Absorbance)	8/19/2019	1.37 Range 0.37 – 1.37	L/MG-M	
UV Absorbance @ 254 NM	12/12/2019	0.03 Range 0 – 0.03	CM-1	

During the 2019 calendar year, we had the below noted violation of drinking water regulations.

Compliance Period	Analyte	Comments
1/1/2019 – 12/31/2019	Lead & Copper Rule	Lead Consumer Notice (LCR) – Required Lead & Copper Sample Results Not Submitted The required number of samples were taken within the sampling period and all samples were below the MCL. A sample testing site was changed due to a property being vacant. The change in location was not approved prior to the sample being taken, causing this violation. The sample site has been changed in the approved sampling plan.

**Additional Information**

All other water test results for the reporting year 2019 were non-detects.

Turbidity is a measure of the cloudiness in the water. We monitor it because it is a good indicator of the effectiveness of our filtration system, 100% of monthly samples were less than 0.3 NTU.

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 haloacetic 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.

Copper and lead samples were collected from 20 area residences on 9/4/2019 – 9/9/2019. Only the 90<sup>th</sup> percentile is reported. None of the samples exceeded the action level.

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. Claywood Park Public Service 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 who drink water containing haloacetic acids in excess of the MCL over many years may have 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 nervous system, and may have an increased risk of getting cancer.

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 web site at [www.woodpsd.org](http://www.woodpsd.org).