

**CITY OF MARTINSBURG  
P.O. BOX 828  
232 NORTH QUEEN STREET  
MARTINSBURG, WV 25401  
PWSID # 3300212  
February 6, 2018**

**DRINKING WATER QUALITY REPORT FOR THE YEAR 2017**

In compliance with the Safe Drinking Water Acts Amendments, **The City of Martinsburg** 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 1 to December 31, 2017 or earlier if not on a yearly schedule.

If you have any questions concerning this report or other matters concerning your water utility, you may contact **Mr. Sam Blair, City of Martinsburg Water Department at (304) 264-2116**. If you want to learn more, please attend any of our regularly scheduled meetings. They are held at **6:30 PM, the second Thursday of each month at Martinsburg City Hall, 232 North Queen Street, Martinsburg, WV.**

**Where does my water come from?**

Your drinking water is **ground** water that is drawn from the Kilmer Springs WTP and a well and spring at Big Springs WTP.

**Source Water Assessment**

The three (3) sources that supply drinking water to the **City of Martinsburg** facilities have a higher susceptibility to contamination, due to the sensitive nature of the aquifer in which the drinking water wells are located and the existing potential contaminant sources identified within the area. This does not mean that the well fields 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 (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 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 animal or 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).

**Definitions and abbreviations used in the table or report:**

**MCLG – Maximum Contaminant Level Goal**, or the level of contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

**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.

**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.

**MRL – Minimum Reporting Level**, or the lowest level of a contaminant that must be reported.

**MRDL – Maximum Residual Disinfectant Level**, or the highest level of disinfectant allowed in drinking water. There is evidence that the addition of disinfectant is necessary to control microbial contaminants.

**AL – Action Level**, or the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow.

**TT – Treatment Technique** or a required process intended to reduce the level of a contaminant in drinking water.

**ppm – parts per million** or milligrams per liter.

**ppb – parts per billion** or micrograms per liter.

**NA – not applicable**

**Water Quality Data Table**

Contaminant	Violation (Y/N)	Level Detected	Unit of Measure	MCLG	MCL	Likely Source of Contamination
<b>Microbiological Contaminants</b>						
Turbidity	N	0.22 (100% of daily samples < 0.30)	NTU	0	TT	Soil runoff
<b>Inorganic Contaminants</b>						
Barium	N	0.0780	ppm	2	2	Discharge from drilling wastes; discharge from metal refineries; erosion of natural deposits.
Chromium	N	4.2	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits.
Fluoride	N	Annual avg. 0.89 Range = 0.37 – 1.17	ppm	4	4	Erosion of natural deposits; Water additive that promotes strong teeth.
Copper* (2015)	N	0.193	ppm	1.3	AL=1.3	Corrosion of household plumbing
Lead* (2015)	N	3.8	ppb	0	AL=15	Corrosion of household plumbing
Nitrate	N	4.26	ppm	10	10	Runoff from fertilizer; leaching from septic tanks, sewage; erosion of natural deposits
<b>Volatile Organic Contaminants</b>						
Chlorine	N	Annual avg.= 1.1 Range 0.7 – 1.3	ppm	4 MRDLG	4 MRDL	Water additive used to control microbes.
Haloacetic acids (HAA5) (Site 1)	N	Annual avg.= 2.2 Range 0 – 3.9	ppb	NA	60	By-product of drinking water disinfection
Total trihalomethanes (TTHMs) (Site 1)	N	Annual avg. 3.8 Range 2.4 – 5.0	ppb	NA	80	By-product of drinking water disinfection
Haloacetic acids (HAA5) (Site 2)	N	Annual avg.= 1.7 Range 0 – 4.1	ppb	NA	60	By-product of drinking water disinfection
Total trihalomethanes (TTHMs) (Site 2)	N	Annual avg. 7.5 Range 0 – 17.1	ppb	NA	80	By-product of drinking water disinfection
<b>Unregulated Contaminants</b>						
Sodium*	N	15.7	ppm	0	20	Erosion of natural deposits
Nickel	N	6.8	ppb	100	100	Erosion of natural deposits
Sulfate	N	28.3	ppm	250	250	Erosion of natural deposits

\*Copper and lead samples were collected from 31 area residences between August 12, 2015 and August 26, 2015. Only the 90<sup>th</sup> percentile is reported. None of the samples exceeded the MCL. The next lead and copper sampling will be taking place June 1, 2018 through September 30, 2018.

\* Sodium is an unregulated contaminant. Anyone having concern over sodium should contact their primary health care provider.

All other water test results for reporting year 2017 were non-detects.

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 City of Martinsburg 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 (800-426-4791) or at <http://epa.gov/safewater/lead>.