

Annual Drinking Water Quality Report 2020
The City of Philippi & Wellington Heights PSD
344 South Main Street
PO Box 460
Philippi, WV 26416
(304) 457-3700
PWSID# 3300104
PWSID# 3300108
April 5, 2021

Why am I receiving this report?

In compliance with the Safe Drinking Water Act Amendments, the **City of Philippi and Wellington Heights 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 **Billy Knight at (304) 457-3700** Monday thru Friday 8:00am-4:00pm. If you have any further questions, comments or suggestions, please attend any of our regularly scheduled city council meetings held on the 1st and 3rd Tuesday of every month at 5:00 pm in the City Council Chambers at 344 South Main Street.

Where does my water come from?

Your drinking water source is **surface** water from the Tygart Valley River.

Source Water Assessment

A Source Water Protection Plan was updated in 2020. The intakes that supply drinking water to the **City of Philippi** have 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 the intakes 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 protection plan 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 WVBPB 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
- **pCi/L** – picocuries per liter (a measure of radioactivity)
- **ppb** - parts per billion or micrograms per liter ($\mu\text{g/l}$)

- **ppm** - parts per million or milligrams per liter (**mg/l**)
- **RAA** - Running Annual Average is an average of sample results obtained over the most current 12 months and used to determine compliance with MCLs.

The **City of Philippi and Wellington Heights** routinely monitor for contaminants in your drinking water according to federal and state laws. The tables below show the results of our monitoring for contaminants.

Table of Test Results - Regulated Contaminants – The City of Philippi and Wellington Heights PSD PWSID # 3300104 and # 3300108

Contaminant	Violation Y/N	Level Detected	Unit of Measure	MCLG	MCL	Likely Source of Contamination
Microbiological Contaminants						
Turbidity	N	0.14 100% of Samples <0.3	NTU	N/A	TT	Soil runoff
Total organic carbon	N	5.6	ppm	N/A	TT	Naturally present in the environment
Inorganic Contaminants						
Barium	N	0.027	ppm	2	2	Discharge from drilling waste; erosion of natural deposits
Copper* Philippi Wellington Heights	N N	0.05825 0.0332	ppm	1.3	AL=1.3	Corrosion of household plumbing; erosion of natural deposits.
Flouride	N	0.65	ppm	4	4	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Lead* Philippi Wellington Heights	N N	0.39 0.38	ppb	15	AL=15	Corrosion of household plumbing; erosion of natural deposits.
Nitrate	N	0.34	ppm	10	10	Runoff from fertilizer use; erosion of natural deposits
Volatile Organic Contaminants						
**Chlorine Philippi Wellington Heights	N	Annual Avg. 1.28 1.02	ppm	4.0 MRLDG	4.0 MRDL	Water additive used to control microbes

*Lead and copper were sampled from 20 area homes in the City of Philippi twice. 1st round was collected June 10, 2020 and the 2nd round on December 9, 2020. 10 samples were collected in Wellington Heights on August 26, 2020. Only the 90th percentile is reported. None of the samples collected exceeded the MCL.

**Only the annual average is reported.

Disinfection Byproducts	Violation Y/N	Highest LRAA	Range (low/high)	Unit of measure	MCLG	MCL	Likely source of Contamination
Haloacetic acids (HAA5) 358 Anchor Rd	N	20.075	10.3 / 29.3	ppb	NA	60	By-product of drinking water disinfection
Total trihalomethanes (TTHMs) 358 Anchor Rd	N	29.425	8.8 / 37.6	ppb	NA	80	By-product of drinking water chlorination
Haloacetic acids (HAA5) 57 1 st Street	N	26.55	8.9 / 41.6	ppb	NA	60	By-product of drinking water disinfection
Total trihalomethanes (TTHMs) 57 1 st Street	N	35.35	8.8 / 77.2	ppb	NA	80	By-product of drinking water chlorination
Haloacetic acids (HAA5) 1439 Mansfield Drive	N	35.025	6.9 / 21.9	ppb	NA	60	By-product of drinking water disinfection
Total trihalomethanes (TTHMs) 1439 Mansfield Drive	N	50.475	5.7 / 33.2	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
Antimony	N	0.000034	ppm	0.006	0.006	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Nickle	N	1.1	ppb	100	100	Erosion of natural deposits
Sodium	N	7.69	ppm	NE	20	Erosion of natural deposits
Sulfate	N	3.6	ppm	250	250	Erosion of natural deposits

The City of Philippi received a violation for CCR certification procedures during the year of 2020. We have made every effort and taken every precaution to return to compliance.

Wellington Heights received 2 notices of violation during the year of 2020. One was for CCR certification procedures and one for Lead and Copper Consumer notifications. We have made every effort and taken every precaution to return to compliance.

Additional Information

All other water test results for the reporting year 2020 were all 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 Philippi and Wellington Heights 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>.

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