

Annual Drinking Water Quality Report 2018

Unionville Borough Water Association Public Water System ID# 4140079

Este informe contiene información muy importante sobre su agua de beber. Tradúzcalo ó hable con alguien que lo entienda bien. (This report contains very important information about your drinking water. Translate it, or speak with someone who understands it.)

We're pleased to present to you this year's annual drinking water quality report. This report is designed to inform you about the quality water and services we deliver to you every day. Our goal is to provide a safe and dependable supply of drinking water. We want you to understand the efforts we make to protect our water resources. If you have any questions about this report or your water utility, please contact **Allen Runkle, Water Committee Chairman at 355-0289.**

We are committed to ensuring the quality of your water. Your source for water is **a well located along the Bald Eagle Mountain approximately 200 yards east of Unionville Pike. The well is located and constructed so that it is protected from any potential contamination.**

We want to inform you that 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 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 microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

The drinking water in Unionville meets all federal and state requirements.

Unionville Borough Water routinely monitors for constituents in your drinking water according to Federal and State laws. The table below shows the results of our monitoring for the period of **January 1st to December 31st, 2018.** All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some constituents. It's important to remember that the presence of these constituents does not necessarily pose a health risk.

The Table below lists the contaminants we tested your drinking water for in 2018 and what, if anything, was detected. In this table you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

Non-Detects (ND) - laboratory analysis indicates that the contaminant is not present at a detectable level.

Parts per million (ppm) or Milligrams per liter (mg/l) - one part per million or milligrams per liter (corresponds to one minute in two years or a single penny in \$10,000).

Parts per billion (ppb) or Micrograms per liter - one part per billion or micrograms per liter (corresponds to one minute in 2,000 years, or a single penny in \$10,000,000).

Picocuries per liter (pCi/L) - picocuries per liter is a measure of the radioactivity in water.

Action Level (AL) - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Treatment Technique (TT) - A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

Maximum Contaminant Level (MCL) - 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.

Maximum Contaminant Level Goal (MCLG) - 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.

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.

EPA Lead Statement:

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. Unionville 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 (800-426-4791) or at <http://www.epa.gov/safewater/lead>

UNIONVILLE DRINKING WATER TEST RESULTS FOR 2018

TEST RESULTS

Microbiological Contaminants						
Contaminant (Unit of measurement)	Violation Y/N	Level Detected	Range	MCLG	MCL	Likely Source of Contamination
Total Coliform Bacteria	N	0	0	0	presence of coliform bacteria in 5% of monthly samples	Naturally present in the environment
Fecal coliform and <i>E. coli</i>	N	0	0	0	a routine sample and repeat sample are total coliform positive, and one is also fecal coliform or <i>E. coli</i> positive	Human and animal fecal waste

Lead & Copper Contaminants						
Contaminant (Unit of measurement)	Violation Y/N	Highest Level Detected	Range	MCLG	MCL	Likely Source of Contamination
Copper (ppm) (2016)	N	0.694ppm	0.023-0.694	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.
Lead (2016)	N	0	0	0	AL=15	
Chemical Contaminants						
Contaminant (Unit of measurement)	Violation Y/N	Level Detected	Range	MCLG	MCL	Likely Source of Contamination
Chlorine (ppm)	N	0.85	0.23 – 0.85	4	4	Water additive to control microbes
Nitrates (ppm)	N	0	N/A	10	10	Runoff from fertilizer use; Leaching from septic tanks; Erosion of natural deposits.
Disinfection By-products Haloacetic Acids (HAA5) (ppm)	N	0.002	N/A	0.06	0.06	By-product of drinking water disinfection
Disinfection By-products Total Tri-Halomethanes (TTHM)	N	0.005	N/A	0.08	0.08	By-product of drinking water disinfection
Barium (ppm) 03/06/2018	N	0.08	N/A	2	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Flouride (ppm) 03/06/2018	N	0.38	N/A	2	2	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Entry Point Disinfectant Residual						
Contaminant (Unit of measurement)	Minimum Disinfectant Residual	Lowest Level Detected	Range of Detections	Sample Date lowest level	Violation Y/N	Likely Source of Contamination
Chlorine (ppm)	0.4 ppm	0.42ppm	0.42 – 0.64	05/27/2018	N	Water additive to control microbes

The results listed in the above table show that Unionville did not exceed the allowed limits for any of the constituents detected last year. Also see Other Testing Completed below.

Violations -- One Violation was noted in 2018 where the annual Water Quality Newsletter (CCR Report) was not submitted to PA DEP by the required deadline.

Other Unionville Water Testing

There are many other naturally occurring contaminants in the environment that may be present in drinking water that we are required by PA DEP to monitor for on a rotating basis. In 2018 we tested for In-Organic Chemicals, Volatile Organic Chemicals, and Disinfection By-Products. We are pleased to report that all results were below detection limits. In 2019 we will be testing for the presence of Lead & Copper. The results of any water tests are available to residents of Unionville upon request.

OTHER INFORMATION

All sources of drinking water are subject to potential contaminants that are naturally occurring or man made. Those contaminants can be microbes, organic or inorganic chemicals, or radioactive materials. 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 the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Hotline. 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 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 stormwater 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 agriculture, urban stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial process and petroleum production and mining activities.

We are required to continually monitor for these contaminants on varying schedules as required by the US EPA and the PA DEP.

The officers of your water system work hard to provide a safe and dependable supply of water to all of our neighbors at a reasonable cost. We ask that all our customers help us to protect our water sources, which are the heart of our community, our way of life and our children's future. Please recognize that water is a valuable resource and even though our water supply is abundant, we should all use water wisely, and not unnecessarily waste it. If you have any questions about this report or your water utility, **please feel free to attend the Unionville Borough meetings which are held in the Borough Building on the 1st Monday of each month unless otherwise advertised.**