

Doylestown Water Supply

Drinking Water Consumer Confidence Report

2019

The Doylestown Water Department is pleased to present this year's Annual Water Quality Report (Consumer Confidence Report) as required by the Safe Drinking Water Act (SDWA). This report is designed to provide you the consumer, details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. This report is a snapshot of last year's water quality. Included within this report is general health information, water quality test results, how to participate in decisions concerning your drinking water and water system contacts. We are committed to providing you with information because informed customers are our best allies.

The Doylestown Water Supply receives its drinking water from a groundwater source. We have two wells on our well field located on Galehouse Rd.

Description of Water Treatment Process

Your water is treated by filtration and disinfection. Filtration removes particles suspended in the source water. Particles typically include clays and silts, natural organic matter, iron and manganese, and microorganisms. Your water is also treated by disinfection. Disinfection involves the addition of chlorine to kill bacteria and other microorganisms (viruses, cysts, etc.) that may be in the water. Disinfection is considered to be one of the major public health advances of the 20th century.

Source Water Assessment

The Ohio EPA completed a study of the Village of Doylestown's source drinking water, to identify potential contamination sources and provide guidance on protecting the drinking water source. According to this study, the aquifer (water rich zone) that supplies water to the Village of Doylestown has a moderate susceptibility to contamination.

This determination is based on the following:

- Presence of a moderately thick protective layer of shale overlying the aquifer, no evidence to suggest that groundwater has been impacted by any significant levels of chemical contaminants from human activities.
- Presence of significant potential contaminant sources in the protection area.

This susceptibility means that under currently existing conditions, the likelihood of the aquifer becoming contaminated is moderate. The likelihood can be minimized by implementing appropriate protective measures. More information about the source water assessment or what consumers can do to help protect the aquifer is available on page 4 of this report or by contacting Mick Stebelton at (330)658-2181 ext. 1141.

What are sources of contamination to drinking water?

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 land surface 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: (A) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plant, septic systems, agricultural livestock operation, and wildlife; (B) 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; (C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses; (D) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban Stormwater runoff, and septic systems; (E) radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

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 for 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 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 (1-800-426-4791).

Who needs to take special precautions?

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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 infection. These people should seek advice about drinking water from their healthcare 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 (1-800-426-4791).

About your drinking water

The EPA requires regular sampling to ensure drinking water safety. The Village of Doylestown Water Department conducted sampling for bacteria, arsenic, inorganics, radiologicals, volatile organic chemicals, lead and copper, nitrate, and disinfection byproducts during 2019.

Violations

The Village of Doylestown Public Water System was found in violation in 2019 of Ohio Administrative Code (OAC) rule 3745-9-07 for failure to properly abandon six drinking water supply wells. The wells were properly abandoned in 2019 and adequately resolved the violation.

The Village of Doylestown Public Water System was found in violation in 2019 of Ohio Administrative Code (OAC) rule 3745-95-06 for failure to inspect and test all backflow prevention devices annually. All backflow prevention devices were properly inspected/tested in 2019 to adequately resolve the violation.

The Village of Doylestown Public Water System was found in violation in 2019 of Ohio Administrative Code (OAC) rule 3745-91-10 for failure to develop a drinking water source protection plan for Well #12. The Village is currently pursuing the development of creating the drinking water source protection plan, but is currently still in violation.

The Village of Doylestown Public Water System was found in violation in 2019 of Ohio Administrative Code (OAC) rule 3745-85-01 for failure to comply with the contingency plan in terms of allocating a portion of the budget for emergency expenditures. A budget line has been created and funds are being allocated to said line, adequately resolving this violation.

The Village of Doylestown has a current, unconditioned license to operate our water system.

Listed below is information on those contaminants that were found in the Village of Doylestown drinking water.

Contaminants (Units)	MCLG	MCL	Your Water	Range		Sample Date	Violation	Typical Source
				Low	High			
Disinfection By-Products								
(There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants)								
Haloacetic Acids (HAA5) (ppb)	NA	60	8.17	2.32	8.17	2019	No	By-product of drinking water chlorination
TTHMs [Total Trihalomethanes] (ppb)	NA	80	8.76	5.45	8.76	2019	No	By-product of drinking water disinfection
Residual Disinfectants								
Total Chlorine (ppm)	4	4	1.57	1.04	1.72	2019	No	Water additive used to control microbes
Inorganic Contaminants								
Arsenic (ppb)	10	0	1.63	<1	1.63	2019	No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
Barium (ppm)	2	2	.014	NA	NA	2019	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Chromium (ppb)	100	100	1.53	NA	NA	2019	No	Discharge from steel and pulp mills; Erosion of natural deposits
Radiologicals								
Alpha Emitters (pCi/L)	0	15	.376	NA	NA	2019	No	Erosion of natural deposits
Combined Radium (pCi/l)	0	5	.731	NA	NA	2019	No	Erosion of natural deposits

Contaminants	Action Level	Individual Results	90% of test levels were less than	Sample Year	Violation	Typical Source
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	(AL)	over AL				
Inorganic Contaminants						
Lead - action level at consumer taps (ppb)	15	NA	<1	2019	No	Corrosion of household plumbing systems
	Zero out of 20 samples was found to have lead levels in excess of the Action level of 15 ppb.					
Copper - action level at consumer taps (ppm)	1.3	NA	0.671	2019	No	Corrosion of household plumbing systems
	Zero out of 10 samples was found to have copper levels in excess of the Action Level of 1.3 ppm.					

Additional Information for Lead

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 Village of Doylestown 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 (1-800-426-4791) or at <http://www.epa.gov/safewater/lead>.

Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the Safe Drinking Water Hotline (1-800-426-4791) or at <http://www.epa.gov/safewater/lead>.

Unit Descriptions	
Term	Definition
ppm	ppm: parts per million, or milligrams per liter (mg/L)
ppb	ppb: parts per billion, or micrograms per liter (ug/L)
pCi/L	pCi/L: picocuries per liter (pCi/L)
NA	NA: not applicable
ND	ND: Not detected
The "<"symbol	A symbol which means 'less than'. A result of "<5" means that the lowest level detected was 5 and the contaminant in that sample was not detected.

Important Drinking Water Definitions	
Term	Definition
MCLG	MCLG: Maximum Contaminant Level Goal: 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.
MCL	MCL: Maximum Contaminant Level: 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.
AL	AL: Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

How do I participate in decisions concerning my drinking water?

Public participation and comment are encouraged at regular meetings of the Doylestown Board of Public Affairs. The Board of Public Affairs meets on the 2nd and 4th Mondays of each month at 7:00 PM at the Village Hall located at 24 S Portage St. Doylestown.

For more information on your drinking water, contact Mick Stebelton, Water Operator at (330) 658-2181 ext 1141.

Water Conservation Tips

Did you know that the average U.S. household uses approximately 400 gallons of water per day or 100 gallons per person per day? Luckily, there are many low-cost and no-cost ways to conserve water. Small changes can make a big difference - try one today and soon it will become second nature.

- Take short showers - a 5 minute shower uses 4 to 5 gallons of water compared to up to 50 gallons for a bath.
- Shut off water while brushing your teeth, washing your hair and shaving and save up to 500 gallons a month.
- Use a water-efficient showerhead. They're inexpensive, easy to install, and can save you up to 750 gallons a month.
- Run your clothes washer and dishwasher only when they are full. You can save up to 1,000 gallons a month.
- Water plants only when necessary.
- Fix leaky toilets and faucets. Faucet washers are inexpensive and take only a few minutes to replace. To check your toilet for a leak, place a few drops of food coloring in the tank and wait. If it seeps into the toilet bowl without flushing, you have a leak. Fixing it or replacing it with a new, more efficient model can save up to 1,000 gallons a month.
- Adjust sprinklers so only your lawn is watered. Apply water only as fast as the soil can absorb it and during the cooler parts of the day to reduce evaporation.
- Teach your kids about water conservation to ensure a future generation that uses water wisely. Make it a family effort to reduce next month's water bill!
- Visit www.epa.gov/watersense for more information.

Source Water Protection Tips

Protection of drinking water is everyone's responsibility. You can help protect your community's drinking water source in several ways:

- Eliminate excess use of lawn and garden fertilizers and pesticides - they contain hazardous chemicals that can reach your drinking water source.
- Pick up after your pets.
- If you have your own septic system, properly maintain your system to reduce leaching to water sources or consider connecting to a public sewer system.
- Dispose of chemicals properly; take used motor oil to a recycling center.
- Volunteer in your community. Find a watershed or wellhead protection organization in your community and volunteer to help. If there are no active groups, consider starting one. Use EPA's Adopt Your Watershed to locate groups in your community, or visit the Watershed Information Network's How to Start a Watershed Team.
- Organize a storm drain stenciling project with your local government or water supplier. Stencil a message next to the street drain reminding people "Dump No Waste - Drains to River" or "Protect Your Water." Produce and distribute a flyer for households to remind residents that storm drains dump directly into your local water body.