

CITY OF BROOKVILLE WATER QUALITY REPORT FOR 2020

IS MY WATER SAFE?

We are 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 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. We are committed to providing you with information because informed customers are our best allies.

WHERE DOES MY WATER COME FROM?

Brookville's water comes from the City of Dayton Treatment Plant through the Montgomery County Water Distribution System and is serviced by the Westbrook pump station. Storage is in two elevated tanks, which hold a combined total of 700,000 gallons. The source of this water is the Miami Valley Buried Aquifer. The Aquifer is a large underground area of water bearing sand and gravel deposits. This groundwater is influenced by surface water. The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells.

SOURCE WATER ASSESSMENT AND ITS AVAILABILITY

The Ohio EPA conducted a source water assessment of Dayton's water source. The assessment concluded that the aquifer supplying water to the City of Dayton's well fields has a high susceptibility to contamination. This determination is based on: the influence of surface water recharge to the aquifer; the presence of a relatively thin protective layer of clay overlying the aquifer; the shallow depth of the aquifer; contaminant plumes in Dayton's well field protection area; the presence of significant potential contaminant sources in the protection area; and the presence of contaminants in treated water. More information about the source water assessment or what consumers can do to help protect the aquifer is available by calling the Division of Environmental Management at (937) 333-3725.

WHY ARE THERE CONTAMINANTS IN MY DRINKING WATER?

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 (EPA) Safe Drinking Water Hotline (800-426-4791). 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:

microbial contaminants, such as viruses and bacteria, that 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 by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems; and 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 that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

DO I NEED TO TAKE SPECIAL PRECAUTIONS?

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/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Water Drinking Hotline (800-426-4791).

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 City of Brookville 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 or at <http://www.epa.gov/safewater/lead>.

DRINKING WATER NOTICE

Monitoring requirements not met for Brookville Municipality PWS.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During the 2020 Annual time period we did not monitor for the following contaminants and therefore cannot be sure of the quality of our drinking water during that time: DISINFECTION BY-PRODUCTS.

What Should I Do?

This notice is to inform you that Brookville Municipality PWS did not monitor and report results for the presence of the contaminants listed above in the public drinking water system during the 2020 Annual time period, as required by the Ohio Environmental Protection Agency. You do not need to take any actions in response to this notice.

What is Being Done?

Upon being notified of this violation, the water supply was required to have the drinking water analyzed for the above parameters. The water supplier will take steps to ensure that adequate monitoring will be performed in the future.

A sample was collected on 11/18/2020.

Sample results and additional information may be obtained by contacting Brookville Municipality PWS at:

Chris Homan, Service Department Superintendent

937-833-2135, extension 401

PO Box 10, Brookville, Ohio 45309

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

HOW CAN I GET INVOLVED?

If you would like to participate in decisions that affect drinking water quality, please contact the City of Dayton Water Department for information on Water Board or City/Council Meetings at 937-333-6030.

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.

CROSS CONNECTION CONTROL SURVEY

The purpose of this survey is to determine whether a cross-connection may exist at your home or business. A cross connection is an unprotected or improper connection to a public water distribution system that may cause contamination or pollution to enter the system. We are responsible for enforcing cross-connection control regulations and insuring that no contaminants can, under any flow conditions, enter the distribution system. If you have any of the devices listed below, please contact us so that we can discuss the issue, survey your connection and assist you in isolating it if that is necessary.

- Boiler/ Radiant heater (water heaters not included)
- Underground lawn sprinkler system
- Pool or hot tub (whirlpool tubs not included)
- Additional source(s) of water on the property
- Decorative pond
- Watering trough

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, maintain it to reduce leaching to water sources or consider connecting to a public water 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.

WATER QUALITY DATA TABLE

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of contaminants in water provided by public water systems. The table below lists all of the drinking water contaminants that we detected during the calendar year of this report. Although many more contaminants were tested, only those substances listed below were found in your water. All sources of drinking water contain some naturally occurring contaminants. At low levels, these substances are generally not harmful in our drinking water. Removing all contaminants would be extremely expensive, and in most cases, would not provide increased protection of public health. A few naturally occurring minerals may actually improve the taste of drinking water and have nutritional value at low levels. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. As such, some of our data, though representative, may be more than one year old. In this table you will find terms and abbreviations that might not be familiar to you. To help you better understand these terms, we have provided the definitions below the table.

The City of Brookville Department of Water had a current unconditional license in 2020 to operate our public water system.

Contaminants	MCLG or MRDLG	MCL, TT, or MRDL	Detect In Your Water	Range		Sample Date	Violation	Typical Source
				Low	High			
Disinfectants & Disinfection By-Products								
(There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants)								
Chlorine (as Cl ₂) (ppm)	4	4	.72	.62	.72	2020	No	Water additive used to control microbes
Haloacetic Acids (HAA5) (ppb)	NA	60	7.8	7.5	7.8	2020	No	By-product of drinking water chlorination
TTHMs [Total Trihalomethanes] (ppb)	NA	80	31.8	31.7	31.8	2020	No	By-product of drinking water disinfection
Contaminants	MCLG	AL	Your Water	Sample Date	# Samples Exceeding AL	Exceeds AL	Typical Source	
Inorganic Contaminants								
Lead - action level at consumer taps (ppb)	0	15	.77	2020	0	No	Corrosion of household plumbing systems; Erosion of natural deposits	
Copper – action level at consumer taps (ppb)	1.3	1.3	.045	2020	0	No	Corrosion of household plumbing systems; Erosion of natural deposits	

Unit Descriptions	
Term	Definition
ppm	ppm: parts per million, or milligrams per liter (mg/L)
ppb	ppb: parts per billion, or micrograms per liter ($\mu\text{g/L}$)
NA	NA: not applicable
ND	ND: Not detected
NR	NR: Monitoring not required, but recommended.

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.

Important Drinking Water Definitions	
TT	TT: Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.
AL	AL: Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
Variations and Exemptions	Variations and Exemptions: State or EPA permission not to meet an MCL or a treatment technique under certain conditions.
MRDLG	MRDLG: Maximum residual disinfection level goal. The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
MRDL	MRDL: Maximum residual disinfectant level. 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.
MNR	MNR: Monitored Not Regulated
MPL	MPL: State Assigned Maximum Permissible Level

For more information please contact:

Contact Name: Chris Homan
Address: 301 Sycamore Street
Brookville, OH 45309
Phone: 937-833-2135, ext. 401

City of Dayton Department of Water **2020** Water Quality Report

We are proud to report that the City of Dayton complied with all MCL standards for drinking water during 2020.*

2020 Report			Miami Plant				Ottawa Plant				
Substance (Unit)	Maximum Allowed (MCL*)	Ideal Goals (MCLG)	Highest Level Detected	Range of Detection	Violation	Year Sampled	Highest Level Detected	Range of Detection	Violation	Year Sampled	
Regulated at the Treatment Plant											
Fluoride (ppm)	4	4	1.02	0.81-1.07	No	2020	0.99	0.81-1.05	No	2020	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate (ppm)	10	10	0.926	0.194-0.926	No	2020	2.12	0.574-2.12	No	2020	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Turbidity (NTU)	TT = 1	N/A	0.12	0.01-0.12	No	2020	0.04	0.01-0.04	No	2020	Lime softening residuals; Soil runoff.
		TT: > 95% must be < 0.3	100% < 0.3 ¹				100% < 0.3 ¹				
Total Organic Carbon (TOC) (ppm)	TT	N/A	0.67 ²	0.56-0.79	No	2020	0.55 ²	0.48-0.63	No	2020	Naturally present in the environment.
Barium (ppm)	2	2	0.038	N/A	No	2020	0.060	N/A	No	2020	Discharge from metal refineries; Erosion of natural deposits.

- Dayton complied with requirements for every month in 2020. Turbidity is a measure of the cloudiness of water and is an indication of the effectiveness of our filtration system. The turbidity limit set by the EPA is 0.3 NTU in 95% of the daily samples and shall not exceed 1 NTU at any time. As reported above, the City of Dayton's highest recorded turbidity result for 2020 at **Miami Plant** was 0.12 NTU and lowest monthly percentage of samples meeting the turbidity limits was **100%**, and at **Ottawa Treatment Plant** was 0.04 NTU and lowest monthly percentage of samples meeting the turbidity limits was **100%**.
- Dayton complied with alternate compliance criteria for TOC regulations under the D/DBP Rule. The level reported is "average".
- Highest running annual average.
- Highest running quarterly average
- In 2020 there were 0 distribution samples were positive for coliform bacteria. There were 1,504 samples analyzed.

Definitions

- *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.
- 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.
- NTU = Nephelometric Turbidity Units** (measure of "cloudiness")
- MRDL = Maximum Residual Disinfectant Level** – 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.
- MRDLG = Maximum Residual Disinfectant Level Goal** – The level of drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
- TT = Treatment Technique** – A required process intended to reduce the level of a contaminant in drinking water.
- AL = Action Level** – The concentration of a contaminant which, if exceeded, triggers treatment or other requirements for a water system.
- picocuries per liter (pCi/L)** are units of measure of radioactivity
- N/A = Not applicable** > greater than < less than **ND = Not detected**
- Parts per Million (ppm)** are units of measure for concentration of a contaminant. A part per million corresponds to one second in 11.5 days.
- Parts per Billion (ppb)** are units of measure for concentration of a contaminant. A part per billion corresponds to one second in 31.7 years.
- Parts per Trillion (ppt)** are units of measure for concentration of a contaminant. A part per trillion corresponds to one second in 31,710 years.

City of Dayton Department of Water had a current unconditioned license in 2020 to operate our public water system.