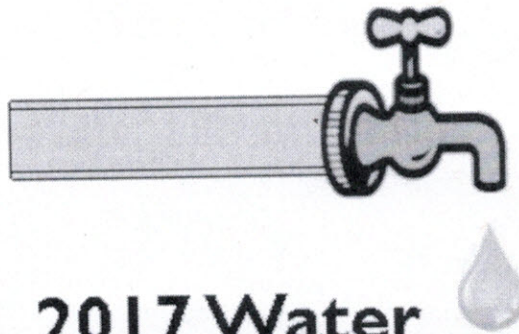


Wetzler/Haynes Water Filtration Plant Byesville, Ohio



2017 Water Quality Report

Commitment to Quality

The Byesville Water Department has prepared the 2017 Water Quality Report. This report is designed to provide information on the quality of our drinking water.

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.

Village of Byesville Water Department
59870 Vocational Road
Byesville, Ohio 43723
Phone: 740-685-0800

www.byesvilleoh.gov

**The Village of Byesville Water
Drinking Water Consumer Confidence Report
For Calendar Year 2017**

Section 1: Introduction

The Village of Byesville Water has prepared the following report to provide information on the quality of our drinking water. Included within this report is general health information, water quality test results, how to the public may participate in decisions concerning drinking water, and water system contacts.

Section 2: Source Water Information

The Village of Byesville Water receives its drinking water from underground mine aquifers.

The Village of Byesville Water also has an emergency connection with the City of Cambridge. This connection was not utilized in 2017. This report does not contain information on the water quality received from the City of Cambridge, but a copy of their consumer confidence report can be obtained by contacting the City of Cambridge Water at 740-439-2130.

The state performed an assessment of our source water in 2003. It was determined that the aquifer supplying drinking water to Byesville, OH has a high susceptibility to contamination. This conclusion is based on the presence of a thin protective layer of clay overlying the aquifer, no evidence to suggest that ground water has been impacted by any significant levels of chemical contaminants from human activities, and the presence of significant potential contaminant sources in the protection area. Please contact the Water Superintendent at 740-685-0800 if you would like more information about the assessment.

Section 3: What are sources of potential 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 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: (A) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife; (B) 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, or farming; (C) Pesticides and herbicides, which may come from a variety of

sources such as agriculture, urban storm water runoff, and residential uses; (D) 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; (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, USEPA 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 Federal Environmental Protection Agency's Safe Drinking Water Hotline (1-800-426-4791).

Section 4: Who needs 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 infection. 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 (1-800-426-4791).

Section 5: About your drinking water.

The EPA requires regular sampling to ensure drinking water safety. The Village of Byesville Water conducted sampling for bacteria; inorganic; radiological; synthetic organic; volatile organic during 2017. Samples were collected for a total of 36 different contaminants most of which were not detected in the Village of Byesville water supply. The Ohio EPA requires us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though accurate, is more than one year old.

Section 6: Table of Detected Contaminants

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

Disinfectant and Disinfection By-Products (Units)	MCLG	MCL	Highest Level found	Range of detections	Violation	Year Sampled	Typical Source of contaminants
Chlorine (ppm)	MRDLG=4	MRDL=4	1.38	.30 - 1.38	No	2017	Water additive used to control microbes.
Total trihalomethanes (ppb)	0	80	111	25.1 - 111	Yes	2017	By-product of drinking water chlorination.
Haloacetic Acid (ppb)	0	60	29.2	6.0 - 29.2	No	2017	
Inorganic Contaminants							
Fluoride (ppm)	4	4	1.72	.775 - 1.72	No	2017	Water additive which promotes strong teeth; erosion of natural deposits. Discharge from fertilizer and aluminum factories.
Barium (ppm)	2	2	0.044	.044 - .044	No	2017	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Lead (ppb)	0	AL=15	0	N/A	No	2015	Corrosion of household plumbing systems; erosion of natural deposits;
Copper (ppm)	1.3	AL=1.3	0.655	N/A	No	2015	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
One out of 20 samples were found to have copper levels in excess of the copper action level of 1.3 ppm							
Microbiological Contaminants							
Turbidity (NTU)	0.3	1	1.11	.030 - 1.11	No	2017	Soil runoff
Turbidity(% meeting standard)	100%	95%	99%	99% - 100%	No	2017	Soil runoff
	Site	Quarter	LRAA	Site	Quarter	LRAA	
TTHM (ppb)	DS201	17-Q4	59.32	DS202	17-Q3	69.07	
HAA5	DS201	17-Q4	13.8	DS202	17-Q4	16.2	

Section 7: Turbidity

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 in 95% of the daily samples and shall not exceed 5 NTU at any time. As reported in this report, the Village of Byesville's highest recorded turbidity result for 2017 was 1.11 NTU and lowest monthly percentage of samples meeting the turbidity limits was 99%.

Section 8: Violations

The Village of Byesville Water had an exceedance of the MCL for TTHM for the 1,2,3 quarter of 2017. Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems and may have an increased risk of getting cancer. Attached to this report are the public notifications issued.

Byesville Water is taking the following steps to correct this violation and prevent future violations from occurring:

- Maintain a hydrant flushing program in the affected area.
- Assessing long term treatment options for the removal and reduction of the THM contributor Bromide.
- Assessing options for aeration in the affected area of the distribution system.

On December 12, 2017, our water treatment facility registered a .16 mg/l reading for Chlorine (Cl₂) disinfection for a period of 63 minutes. The standard for Cl₂ is .20 mg/l. This reading generated a violation from the OEPA. Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

The water leaving the treatment facility "blended" with other water that has met the .20 mg/l standard, so as indicated in the public notice that was issued, "you do not need to boil your water or take other corrective action".

We have taken the necessary steps to correct the problem and no other concerns have been registered since December 12, 2017.

Section 9: Lead Educational Information

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. Village of Byesville Water 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 at 800-426-4791 or at <http://www.epa.gov/safewater/lead>.

Section 10: License to Operate (LTO) Status Information

In 2017 we had a conditional license to operate our public water system. The conditions require us to address ongoing violations. For more information on these violations, contact the Water Superintendent at 740-685-0800.

Section 11: Public Participation Information

How do I participate in decisions concerning my drinking water?

You can participate in decisions regarding your water by contacting the treatment plant at (740) 685-0800, contacting the Village Administrator at (740) 685-0800 or by attending a Village Council meeting. The Village Council meets on the second and fourth Wednesday of the month at 221 East Main Avenue, Byesville, Ohio at 5:30 p.m. Any questions regarding the meetings contact the Village Clerk at (740) 685-0800.

Section 12: Definitions of some terms contained within this report.

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 Contaminant level (MCL): The highest level of contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Parts per Million (ppm) or Milligrams per Liter (mg/L) are units of measure for concentration of a contaminant. A part per million corresponds to one second in a little over 11.5 days.

Parts per Billion (ppb) or Micrograms per Liter ($\mu\text{g/L}$) are units of measure for concentration of a contaminant. A part per billion corresponds to one second in 31.7 years.

Maximum Residual Disinfectant Level Goal (MRDLG): 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.

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.

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

Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.

LRAA: Locational Running Annual Average. The cumulative annual average of a sample from a particular location

Section 13: Drinking Water Notices

The Ohio Environmental Protection Agency requires all drinking water notices be included as part of this report. The notices from 2017 included in this report are for informational purposes only; they require no current action by the public.

Report Prepared by: Brennan Dudley
Village Administrator
221 E Main Ave
Byesville, OH 43723
740-685-0800

Stan Lucas
Interim Water Superintendent
59870 Vocational Rd.
Byesville, OH 43723
740-685-0800

DRINKING WATER NOTICE

Byesville Has Levels of TTHM above Drinking Water Standards

Our water system recently violated the maximum contaminant level (MCL) for TTHM. The average level of TTHM over the last four quarters was 0.094 mg/L. The standard for TTHM is 0.080 mg/L.

What should I do?

- You do not need to use an alternative (e.g., bottled) water supply. However, if you have specific health concerns, consult your doctor.

What does this mean?

The levels detected do not pose an immediate risk to your health. However, some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

What is being done?

We are investigating and taking the necessary steps to correct the problem as soon as possible.

Additional information may be obtained by contacting:

Contact Person: Kendal Weisend

Phone Number: 740-685-0800

Mailing Address: 59870 Vocational Rd. Byesville, OH 43723

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.

Date Distributed: 4/14/2017

PWSID: OH3001212 Facility ID: DS1

Monitoring Period: First Quarter of 2017

DRINKING WATER NOTICE

Byesville Has Levels of TTHM above Drinking Water Standards

Our water system recently violated the maximum contaminant level (MCL) for TTHM. The average level of TTHM over the last four quarters was 0.088 mg/L. The standard for TTHM is 0.080 mg/L.

What should I do?

- You do not need to use an alternative (e.g., bottled) water supply. However, if you have specific health concerns, consult your doctor.

What does this mean?

The levels detected do not pose an immediate risk to your health. However, some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

What is being done?

We are investigating and taking the necessary steps to correct the problem as soon as possible.

Additional information may be obtained by contacting:

Contact Person: Kendal Weisend
Phone Number: 740-685-0800
Mailing Address: 59870 Vocational Rd. Byesville, OH 43723

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.

Date Distributed: 8/1/2017

PWSID: OH3001212 Facility ID: DS1

Monitoring Period: Second Quarter of 2017

DRINKING WATER NOTICE

Byesville Has Levels of TTHM above Drinking Water Standards

Our water system recently violated the maximum contaminant level (MCL) for TTHM. The average level of TTHM over the last four quarters was 0.105 mg/L. The standard for TTHM is 0.080 mg/L.

What should I do?

- You do not need to use an alternative (e.g., bottled) water supply. However, if you have specific health concerns, consult your doctor.

What does this mean?

The levels detected do not pose an immediate risk to your health. However, some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

What is being done?

We are investigating and taking the necessary steps to correct the problem as soon as possible.

Additional information may be obtained by contacting:

Contact Person: Kendal Weisend

Phone Number: 740-685-0800

Mailing Address: 59870 Vocational Rd Byesville, OH 43723

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.

Date Distributed: 10/20/2017

PWSID: OH3001212 Facility ID: DS1

Monitoring Period: Third Quarter of 2017

DRINKING WATER NOTICE

VILLAGE OF BYESVILLE DID NOT MEET TREATMENT REQUIREMENTS

In order to ensure proper disinfection, water in the treatment plant must be in contact with chlorine or a similar disinfectant for a minimum amount of time. On December 12, 2017, this did not occur.

Although chlorine quickly kills most bacteria, it is less effective against organisms such as viruses and parasites. For this reason, water needs to mix with chlorine for a longer time period to kill such organisms. The amount of time necessary, or the contact time, depends on the amount of disinfectant in the water, and the pH and temperature of the water.

What should I do?

- You do not need to boil your water or take other corrective actions. However, if you have specific health concerns, consult your doctor.
- People with severely compromised immune systems, infants, and some elderly people may be at increased risk. These people should seek advice about drinking water from their health care providers.

What does this mean?

This situation does not require that you take immediate action. If it had been, you would have been notified immediately.

Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses, and parasites which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

These symptoms, however, are not caused only by organisms in drinking water, but also by other factors. If you experience any of these symptoms and they persist, you may want to seek medical advice.

What happened? What is being done?

We are investigating and taking the necessary steps to correct the problem as soon as possible.

For more information, please contact Jim Bennett at 740-685-0800 or 59870 Vocational Rd. Byesville Oh 43723
name of contact phone number mailing address

General guidelines on ways to lessen the risk of infection by microbes are available from the EPA Safe Drinking Water Hotline at 1(800) 426-4791.

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.

PWSID#: OH3001212 Date distributed: 2/21/18