

Village of Bailey Lakes

Drinking Water Consumer Confidence Report 2022

The Bailey Lakes water system operating under a current unconditional license, has prepared the following report to provide information to you, the consumer, 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.

Bailey Lakes purchases drinking water through a metered connection with the Rural Lorain Water Authority. The surface water source has a high susceptibility to contamination. This does not mean the water supply will become contaminated; only that conditions are such that it could be impacted by potential contaminate sources. The source water assessment and raw water data is available by calling (419)-929-4091

What are sources of contamination to drinking water?

The sources of drinking water both tap water and bottled water includes 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 Environmental Protection Agency 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. 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).

About your drinking water.

The EPA requires regular sampling to ensure drinking water safety. The Bailey Lakes system conducted sampling for **Bacteria; Total Chlorine; Haloacetic Acid; Total Trihalomethane; Lead and Copper** during 2022 listed in **Table #2**. Samples were collected for a total of 6 different contaminants most of which were not detected in the Bailey Lakes 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, are more than one year old. Information contained in **Table # 1** was provided by the Lorain Rural Water Authority

Listed below is information on those contaminants that were found in the Bailey Lakes drinking water system.

Table # 1 (Data provided by Lorain Rural Water Authority)							
Contaminants (Units)	MCLG	MCL	Level Found	Range of Detection	Violation	Sample Year	Typical Source of Contaminants
Turbidity % samples meeting standard	NA	<u>TT</u>	100%	NA	No	2022	Soil Runoff
Turbidity* (NTU)	NA	<u>TT</u>	0.16	.05-.18	No	2022	Soil Runoff
Total organic carbon (ppm)	NA	<u>TT</u>	1	1.0 – 1.4	NO	2020	Naturally present in the environment
Barium (ppm)	2	<u>2</u>	.0325	NA	NO	2022	Discharge of drilling waste; metal refineries; erosion of natural deposits
Alpha Emitters PCi / l	0	15	5.4	5.4-5.4	NO	2018	Erosion of natural deposits
Combined Radium PCi/l	0	5	1.04	1.04-1.04	NO	2018	Erosion of natural deposits
Fluoride (ppm)	4	4	1.0	.85 – 1.25	NO	2022	Additive to promote strong teeth
Nitrate (ppm)	10	10	.60	.17-.47 (ppm)	No	2022	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits

Table # 2 (Data provided by Bailey Lakes)							
Total Trihalomethanes THM ppb	No Goal for the total	80 ppb	60 ppb	60.4-60.4 ppb	NO	2022	By-product of drinking water disinfection
Haloacetic Acids (HAA5) ppb	No Goal for the total	60 ppb	32 ppb	32.4-32.4 ppb	NO	2022	By-product of drinking water disinfection
Total Chlorine (ppm)	MRDLG 4	MRDL 4	1.14	.64 / 1.35	NO	2022	Water additive to control microbes

Level found is the highest compliance value based on a running annual average. This average includes results from 2021

Lead and Copper	90 th Percentile	# of samples over AL	Units	Action Level	Violation	Sample Year	Likely source of contamination
Copper ppm	.079	0	ppm	1.3 ppm	NO	2022	Corrosion of household plumbing systems
Lead ppb	0	0	ppb	15 ppb	NO	2022	Corrosion of household plumbing systems

How do I participate in decisions concerning my drinking water?

Public participation and comment are encouraged at regular meetings of Village Council, which meets at 7:30 pm the second Monday of each month at Village Hall.

For more information on your drinking water contact Mr. Hickey 419-606-1656

Definitions of some terms contained within this report.

Maximum Contaminant Level Goal or 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 or 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.

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

ppm: milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.

ppb: micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.

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.

Maximum Residual Disinfectant 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

NTU Nephelometric Turbidity Unit

NA not applicable

PCi/l picocuries per liter (a measure of radioactivity)

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

The “<” symbol: A symbol which means less than. A result of <5 means that the lowest level that could be detected was 5 and the contaminant in that sample was not detected.

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 { .3 NTU } in 95% of the daily samples and shall not exceed 5 NTU at any time. As reported above Bailey Lakes highest recorded turbidity result for 2020 was .34 NTU and lowest monthly percentage of samples meeting the turbidity limits was 99.9%

Village of New London Violation Notice:

4196684080

Village Of New London

09:46:35 03-21-2022

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Section 10: Violations

DRINKING WATER NOTICE

Microcystins monitoring requirements not met for NEW LONDON VILLAGE water system

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 week of 1/23/22-2/5/22 we did not monitor for microcystins and therefore cannot be sure of the quality of our drinking water during that time.

What Should I Do?

This notice is to inform you that NEW LONDON VILLAGE public water system did not monitor, and report results for the presence of microcystins in the public drinking water system during the week of 1/23/22-2/5/22 monitoring period, as required by the Ohio Environmental Protection Agency. You do not need to take any action 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 total microcystins according to their current monitoring schedule. The water supplier will take steps to ensure that adequate monitoring will be performed in the future.

A sample was (will be) collected on FEBRUARY 8, 2022.

Sample results and additional information may be obtained by contacting NEW LONDON VILLAGE at:

Contact Person: JOHN CHAPIN

Phone Number: 419-929-4091

Mailing Address: 115 E. MAIN ST. NEW LONDON, OH 14851

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: 01-13902611 Facility ID: 3955242

Date Distributed: _____

Tier 3: Monitoring Violation Notice

DRINKING WATER NOTICE

Monitoring requirements were not met for RURAL LORAIN CO. WATER A

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 your drinking water meets health standards. During June 2022, we "did not monitor or test" or "did not complete all monitoring or testing" for total coliform bacteria, and therefore, cannot be sure of the quality of your drinking water during that time.

What should I do?

- There is nothing you need to do at this time. **You do not need to boil your water or take other corrective actions.**
- This notice is to inform you that RURAL LORAIN CO. WATER A did not monitor and report results for the presence of total coliform bacteria in the public drinking water system during the June 2022 time period, as required by the Ohio Environmental Protection Agency.

What is being done?

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

For more information, please contact Joseph Waldecker at 440-355-5121 or at 42401 State Route 303, Lagrange, OH 44050.

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#: OH4701803

Date distributed: Included on CCR

Violation ID: 6959511

Tier 3: Routine Monitoring Community (Type 3A)

A Word about 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. Bailey Lakes 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>.”

How do I schedule a Cross-Connection Control Inspection or report a potential water system problem?

Any resident wishing to have Bailey Lakes water department conduct an onsite inspection for Backflow and Cross-Connection control may do so by calling Village Hall at 419-922-4063.

What is a cross-connection?

Any physical connection created between a possible source of contamination and any drinking water system piping.

What is backflow?

It is the flow through a cross-connection from a possible source of contamination back into the drinking water system. It occurs when a cross-connection is created and a pressure reversal, either as backsiphonage or backpressure, occurs in the water supply piping.

Why be concerned?

- ALL cross-connections pose a potential health risk.
- Backflow can be a health hazard for your family or other consumers if contaminated water enters your water supply plumbing system and is used for drinking, cooking or bathing. Chemical burns, fires, explosions, poisonings, illness and death have all been caused by backflow through cross-connections.
- Backflow occurs more often than you think.
- You are legally responsible for protecting your water supply plumbing from backflow that may contaminate drinking water, either your own or someone else's. This includes complying with the plumbing code and not creating cross-connections.

What causes backsiphonage?

Backsiphonage occurs when there is a loss of pressure in a piping system. This can occur if the water supply pressure is lost or falls to a level lower than the source of contamination. This condition, which is similar to drinking from a glass with a straw, allows liquids to be siphoned back into the distribution system.

What causes backpressure?

Backpressure occurs when a higher opposing pressure is applied against the public water system's pressure. This condition allows undesirable gases or liquids from another system to enter the drinking water supply. Any pumping system (such as a well pump) or pressurized system (such as steam or hot water boilers) can exert backpressure when cross-connected with the public water system.

What can I do?

- Be aware of and eliminate cross-connections.
- Maintain air gaps. Do not submerge hoses or place them where they could become submerged.
- Use hose bib vacuum breakers on fixtures (hose connections in the basement, laundry room and outside).
- Install approved, testable backflow preventers on lawn irrigation systems.
- Do not create a connection between an auxiliary water system (well, cistern, body of water) and the water supply plumbing.

What must be done to protect the public water system?

The public water supplier must determine potential and actual hazards. If a hazard exists at a customer's public water supply service connection, the customer will be required to install and maintain an appropriate backflow preventer* at the meter and/or at the source of the hazard.

*Check with your water supplier to verify which backflow preventer is required before purchase or installation.

Who is responsible?

In Ohio, the responsibility for preventing backflow is divided. In general, state and local plumbing inspectors have authority over plumbing systems within buildings while Ohio EPA and water suppliers regulate protection of the distribution system at each service connection.

Water customers have the ultimate responsibility for properly maintaining their plumbing systems. It is the homeowner's or other customer's responsibility to ensure that cross-connections are not created and that any required backflow preventers are tested yearly and are in operable condition.

What is the law?

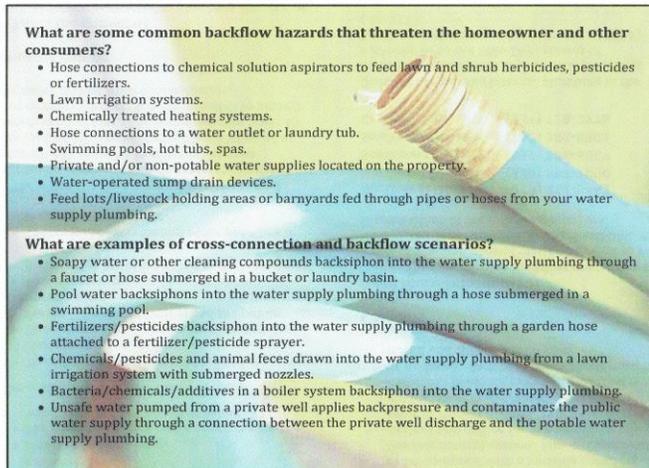
Ohio Administrative Code Chapter 3745-95 requires the public water supplier to protect the public water system from cross-connections and prevent backflow situations. The public water supplier must conduct cross-connection control inspections of their water customers' property to evaluate hazards. Local ordinances or water department regulations may also exist and must be followed in addition to state regulations.

What are some common backflow hazards that threaten the homeowner and other consumers?

- Hose connections to chemical solution aspirators to feed lawn and shrub herbicides, pesticides or fertilizers.
- Lawn irrigation systems.
- Chemically treated heating systems.
- Hose connections to a water outlet or laundry tub.
- Swimming pools, hot tubs, spas.
- Private and/or non-potable water supplies located on the property.
- Water-operated sump drain devices.
- Feed lots/livestock holding areas or barnyards fed through pipes or hoses from your water supply plumbing.

What are examples of cross-connection and backflow scenarios?

- Soapy water or other cleaning compounds backsiphon into the water supply plumbing through a faucet or hose submerged in a bucket or laundry basin.
- Pool water backsiphons into the water supply plumbing through a hose submerged in a swimming pool.
- Fertilizers/pesticides backsiphon into the water supply plumbing through a garden hose attached to a fertilizer/pesticide sprayer.
- Chemicals/pesticides and animal feces drawn into the water supply plumbing from a lawn irrigation system with submerged nozzles.
- Bacteria/chemicals/additives in a boiler system backsiphon into the water supply plumbing.
- Unsafe water pumped from a private well applies backpressure and contaminates the public water supply through a connection between the private well discharge and the potable water supply plumbing.



If a potential or actual cross-connection contamination hazard is identified, the customer will be required to eliminate the hazard and/or install an appropriate backflow preventer at the service connection and/or at the hazard.

Special Conditions

Auxiliary Water Systems

What is an auxiliary water system?

It is any water system on or available to your property other than the public water system. Used water or water from wells, cisterns or open reservoirs that are equipped with pumps or other sources of pressure, including gravity are examples.

What protection is required?

- The auxiliary water system must be completely separated from water supply plumbing served by a public water system; and
- An approved backflow preventer must be installed at the service connection (where the public water system connects to the customer's plumbing system).

OR

- The auxiliary water system must be eliminated.

Are there exceptions?

At their discretion, the water supplier may waive the requirement for a backflow preventer at the service connection if all the following conditions are met:

- All components of the auxiliary water system, including pumps, pressure tanks and piping, are removed from the premises, which are defined as all buildings, dwellings, structures or areas with water supply plumbing connected to the public water system.

- The possibility of connecting the auxiliary water system to the water supply plumbing is determined by the water supplier to be extremely low.
- No other hazards exist.
- The customer enters into a contract with the water supplier, as described below.

The contract will require the customer:

- To understand the potential hazard of a cross-connection.
- To never create a cross-connection between the auxiliary water system and the public water system.
- To allow an inspector to survey their property for hazards as long as the contract is in effect.
- To face loss of service and other penalties if the contract is violated.

The water supplier must perform an annual inspection of the customer's contract-regulated property to verify the conditions have not changed, which would warrant installation of a backflow preventer. The water supplier must, by law, do everything reasonably possible to protect the water system from contamination.

Booster Pumps

What is the concern?

Booster pumps connected to plumbing systems or water mains can cause backsiphonage by reducing the water mains. The following requirements are in place to help prevent backsiphonage:

- Booster pumps, not used for fire suppression, must be equipped with a low suction cut-off switch that is tested and certified every year;
- Alternately, when a booster pump is necessary for one-, two- and three-family dwellings, it is preferred that the booster pump draw from a surge tank filled through an air gap; and

- Booster pumps, used in a fire suppression system, must be equipped with either a low suction throttling valve on the discharge side or be equipped with a variable speed suction limiting control system. Low-pressure cut-off devices will suffice for fire pumps installed prior to August 8, 2008, until a significant modification is warranted, at which point the minimum pressure sustaining method must be updated. Each of these methods must be tested and certified each year.

Contacts

Need more information?

Questions concerning backflow prevention and cross-connection control may be directed to your local water department or to your local Ohio EPA District Office at the following numbers:

Northwest District	(419) 352-8461
Northeast District	(330) 963-1200
Southwest District	(937) 285-6357
Southeast District	(740) 385-0501
Central District	(614) 728-3778

Questions regarding internal plumbing in the home may be directed to your local plumbing authority or to the Ohio Department of Commerce, Plumbing Administrator, at (614) 644-3153.

John Kasich, Governor
Craig W. Butler, Director

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Backflow Prevention and Cross-Connection Control

Protecting our
Public Water System

August 2015



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