

## About Drinking Water Contaminants

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 storm water 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 storm water 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 storm water runoff, and septic systems.
- **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. The United States 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/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).

## Lead 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. Lakes Region 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 cold water from your tap for at least 30 seconds before using water for drinking or cooking. Do not use hot water for drinking and 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). You may also visit the EPA website located at: <http://water.epa.gov/drink/info/lead/index.cfm>.

## Are all Contaminants Harmful?

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of 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 US Environmental Protection Agency's Safe Drinking Water Hotline (1-800-426-4791).

## How do I get Involved?

For more information about your drinking water, please call the owner/operator, Thomas Mason at (603) 476-2348. Although Lakes Region does not hold public participation meetings, you are welcome to contact us with questions and concerns. For more info concerning public participation opportunities in your community, contact your Homeowner's Association President for dates & times of Association meetings.

SOURCE ASSESSMENT INFORMATION (PREPARED BY THE NHDES)				
Brake Hill Acres		Summary of Susceptibility Factors		
Source Name	Date	Low	Medium	High
Bedrock Well #1	8/8/00	7	1	4
Bedrock Well #2	8/8/00	7	1	4

The DES prepared such reports for all public water systems from 2000-2003 in an effort to assess the vulnerability of the state's public water supply sources. The information above is 10+ years old and includes information that was current at the time the report was completed. Therefore, some of the ratings might be different if updated to reflect current information. At the present time, the DES has no plans to update this data. The complete Source Assessment Report is available for review at LRWC's office in Moultonborough, NH. For more information contact Thomas Mason at (603) 476-2348 or you may visit the NHDES' website located at: <https://www.des.nh.gov/resource-center/publications?keys=ccr&purpose=&subcategory=Drinking+Water>

# 2022 (2021 results) Consumer Confidence Report

*For Brake Hill Acres  
in Gilford, NH  
EPA ID# 0882050*



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## What is a Consumer Confidence Report?

The consumer confidence Report (CCR) details the quality of your drinking water, where it comes from, and where you can get more information. This annual report documents only detected primary and secondary drinking water parameters, and compares them to their respective standards known as Maximum Contaminant Levels (MCLs). The enclosed sampling results are from the most recent monitoring done in compliance with state/federal regulations through 2021. Results prior to 2021 will include the date the sample was taken. The State of New Hampshire allows water systems to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Thus some of the data present, though representative, may be more than one year old. Lab results may be viewed on the NHDES website located at: <https://www4.des.state.nh.us/DESOnestop/BasicSearch.aspx>. Enter the EPA ID listed on the front cover of this report, click Enter, and then click on the "Public Water System" link to get started.

## Where Does My Water Come From?

Lakes Region Water Company (LRWC) owns & operates two active bedrock wells. Bedrock well #1 is approximately 355 feet deep, yields 18 gallons per minute (GPM) and is located 150 feet west of the pumphouse, across the brook. Bedrock well #2 yields 25 gallons per minute (GPM), is approximately 225 feet deep and is located 5 feet south of the pumphouse.

## Definitions:

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

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

## Abbreviations:

**ppm**: parts per million

**ppb**: parts per billion (µg/L)

**pCi/L**: pico curies per liter

**µg/L**: micrograms per liter

**ND**: not detectable at testing limits

**N/A**: Not Applicable

## Violations, Treatment & Other Info

No treatment process is necessary at this time.

There was 1 violation in Brake Hill Acres in 2021. The 1 violation was issued on 10/7/2021 for Arsenic MCL violation the running annual average was 0.0068 mg/L. The MCL for arsenic is 0.0050 mg/L.

DETECTED WATER QUALITY RESULTS						
Contaminant (Units)	Level Detected	MCL	MCLG	Violation Yes/No	Likely Source of Contamination	Health Effects (Env-DW 811.21)
<b>Inorganic Contaminants</b>						
Arsenic (ppb)	0.0040-0.0490 Average:0.0111 2021 Average includes Quarter 1,2,3 & 4	10	0	Yes	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes	(5 ppb through 10 ppb) While your drinking water meets EPA's standard for arsenic, it does contain low levels of arsenic. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.
Barium (ppm)	0.0050 – 0.0096 2021	2	2	NO	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits	Some people who drink water containing barium in excess of the MCL over many years could experience an increase in their blood pressure.
Copper (ppm)	90 <sup>th</sup> Percentile calculated by NHDES on 1/01/2021 is 0.049  No customer sites exceeded the AL of 1.3	AL=1.3	1.3	NO	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives	Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor.
Fluoride (ppm)	0.0068 – 0.39 2021	4	4	NO	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories	Some people who drink water containing fluoride in excess of the MCL over many years could get bone disease, including pain and tenderness of the bones. Fluoride in drinking water at half the MCL or more may cause mottling of children's teeth, usually in children less than nine years old. Mottling also known as dental fluorosis, may include brown staining and/or pitting of the teeth, and occurs only in developing teeth before they erupt from the gums.
Lead (ppb)	None Detected 1/01/2021 No customer sites exceeded the AL of 15.	AL=15	0	NO	Corrosion of household plumbing systems, erosion of natural deposits	Infants & children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure. 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 & flush your tap for 30 seconds-2 minutes before using tap. Additional info is available from the Safe Drinking Water Hotline (1-800-426-4791).
<b>Radioactive Contaminants</b>						
Compliance Gross Alpha (pCi/L)	1.1 3/09/2020	15	0	NO	Erosion of natural deposits	Certain minerals are radioactive and may emit a form of radiation know as alpha radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer.
Uranium (ug/L)	1.1 3/09/2020	30	0	NO	Erosion of natural deposits	Some people who drink water containing uranium in excess of the MCL over many years may have an increased risk of getting cancer and kidney toxicity.
Combined Radium 226 + 228 (pCi/L)	0.5 3/09/2020	5	0	NO	Erosion of natural deposits	Some people who drink water containing radium 226 or 228 in excess of the MCL over many years may have an increased risk of getting cancer.
Iron (ppm)	0.087 1/22/2021	0.3	0.3	NO	Geological	We are required to regularly test for Iron
Manganese (ppm)	0.042 1/22/2021	0.05	0.05	NO	Geological	We are required to regularly test for Manganese
Chromium (ppm)	0.0015 1/22/2021	0.1	100	NO	Inorganic Contaminants	We are required to regularly test for Chromium
Hydrogen Ion	7.81, 8.41 1/22/2021	6.5	8.5	NO	Precipitation and geology	We are required to regularly test for Hydrogen Ions
Nickel (ppm)	ND – 0.002 2/13/2018	n. e.	n. e.	NO	Geological, electroplating, battery production, ceramics	We are required to regularly test for Nickel
Sodium (ppm)	8.2- 8.9 1/22/2021	250	250	NO	Road salt, septic systems	We are required to regularly test for Sodium
Zinc (ppm)	ND – 0.019 2/13/2018	5	5	ND	Galvanized pipes	We are required to regularly test for Zinc
Sulfate (ppm)	4.7 1/22/2021	250	250	NO	Naturally occurring	We are required to regularly test for Sulfate
Chloride (ppm)	1 2/13/2018	250	250	NO	Wastewater, road salt, water softeners, corrosion	We are required to regularly test for Chloride