

# Consumer Confidence Report

## Locke Lake Water System

EPA # 0142010

2020

### 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 all detected primary and secondary drinking water parameters, and compares them to their respective standards known as Maximum Contaminant Levels (MCLs).

NOW IT COMES WITH A LIST OF INGREDIENTS.



**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.

**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.

**Pesticides and herbicides**, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential use.

**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**, the EPA prescribes regulations which limit the amounts of certain contaminants in water provided by public water systems. The

US Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

**What is the source of my drinking water?** Locke Lake Water System is seven bed rock wells. Well 3 is located 195 feet southeast of pump station 1 Golf Course. Well 9 is located 265 feet south of pump station 1 Golf Course. Well 10 is located 2500 feet north northwest of pump station 2 Airstrip. Well 11 is located 475 feet south southwest of pump station 1 Golf Course. Well 14 is located 300 feet south of Peacham Rd. Well 15 is located 563 feet southwest of Peacham Rd. Pump House. Treatment consists of arsenic removal at the Airstrip pump station. The Peacham Road pump station currently has arsenic removal, ferric chloride (for co-precipitation of arsenic) and chlorine to kill bacteria.

**Why are contaminants in my 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 Safe Drinking Water Hotline at 1-800-426-4791.

**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 at 1-800-426-4791.

**Source Water Assessment Summary** DES prepared drinking water source assessment reports for all public water systems between 2000 and 2003 in an effort to assess the vulnerability of each of the state's public water supply sources. Included in the report is a map of each source water protection area, a list of potential and known contamination sources, and a summary of available protection options.

Source Name	Date	Low	Med	High
Bed Rock Well # 3	1/15/03	9	1	2
Bed Rock Well # 9	1/15/03	9	1	2
Bed Rock Well # 10	1/15/03	8	1	3
Bed Rock Well # 11	1/15/03	9	1	2
Bed Rock Well # 13	1/15/03	9	2	1
Bed Rock Well # 14	1/15/03	9	2	1
Bed Rock Well # 15	No Information available at this time			

Note: This information is over 15 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, DES has no plans to update this data.

The complete Assessment Report is available for review. For more information, call *Matt Day* at 800-553-5191 or visit the DES Drinking Water Source Assessment website at <http://des.nh.gov/organization/divisions/water/dwgb/dwspp/dwsap.htm>.

### How can I get involved?

For more information about your drinking water, please call our laboratory at 800-553-5191 or send an email to [customer-service@pennichuck.com](mailto:customer-service@pennichuck.com). Although we do not have specific dates for public participation events or meetings, feel free to contact us with any questions you may have.

### Health Effect

**Arsenic:** 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.

**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. This water system is responsible for high quality drinking water but, cannot control the variety of materials used in your 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 to 2 minutes 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 at 800-426-4791 or at <http://water.epa.gov/drink/info/lead>.

**Radon:** Radon is a radioactive gas that you cannot see, taste or smell. It can move up through the ground and into a home through cracks and holes in the foundation. Radon can also get into indoor air when released from tap water from showering, washing dishes, and other household activities. It is a known human carcinogen. Breathing radon can lead to lung cancer. Drinking water containing radon may cause an increased risk of stomach cancer.

## Definitions

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

**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.

**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 Residual Disinfectant Level or 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.

### Maximum Residual Disinfectant Level Goal or MRDLG:

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.

**Level II Assessment:** A very detailed study of the water system to identify potential problems and determine, if possible, why total coliform bacteria have been found in our water system on multiple occasions.

## Abbreviations

**NA:** Not Applicable

**ND:** Not Detectable at testing limits

**pCi/L:** picoCurie per Liter

**ppt:** parts per trillion

**ppb:** parts per billion

**ppm:** parts per million

**RAA:** Running Annual Average

## 2019 Results

Inorganic Contaminants	Year Collected	Highest Detect	Range Detected	MCL	MCLG	Violation Yes/No	Typical Source of Contaminant
Arsenic (ppb)	2019	RAA 3.68	ND – 3.68	10	0	No	Erosion of natural geological deposits; pesticide residue, industrial waste.
Barium (ppm)	2017	0.0264	0.0165-0.0264	2	2	No	Geological; oil/gas drilling, painting, industrial waste
Chromium (ppb)	2017	1.4	ND - 1.4	100	100	No	Discharge from steel and pulp mills; erosion of natural deposits
Fluoride (ppm)	2017	0.81	0.42 – 0.81	4	4	No	Geological; additive to drinking water, toothpaste
Sodium (ppm)	2017	18.6	16.6 – 18.6	Not Regulated	100-250	NA	Road salts, septic systems (salt from water softeners)
Disinfectants and Disinfection By-Products							
Chlorine (ppm)	Monthly 2019	Average 0.51	ND – 1.29	4 - MRDL	4 - MRDLG	No	Water additive used to control microbes
Total Trihalomethanes (ppb)	2019	2.2	ND – 2.2	80	0	No	By-product of drinking water chlorination
Radiological Contaminants							
Radium 226 & 228 (pCi/L)	2017	1	ND - 1	5	0	No	Erosion of natural deposits
Radon (pCi/L)	2019	3,954	2,267 - 3954	Not Regulated	Advisory 2000	NA	Erosion of natural deposits and radioactive materials

	Year Collected	90th Percentile	Action Level	MCLG	# of Sites Sampled	# Sites Above Action Level	Violation Yes/No	Typical Source of Contaminant
Lead (ppb)	2018	1	5	0	10	0	No	Corrosion of household plumbing system
Copper (ppm)	2018	0.266	1.3	1.3	10	0	No	Corrosion of household plumbing system

## ASSESSMENTS

During the past year we were required to conduct Assessments	Number of assessments required in the reporting year	Number of assessments completed in the reporting year	Number of corrective actions required	Number of corrective actions completed	Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliforms indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments.
Level II	1	1	0	0	

**BULK WATER DELIVERIES FOR 2019**

<b>Bulk Water Source</b>	<b>Dates of delivery</b>	<b>Gallons delivered</b>	<b>Reason for delivery</b>
Pittsfield	7/06/2019	51,000	Low storage tank and high usage
Pittsfield	7/07/2019	25,500	Low storage tank and high usage
Pittsfield	7/08/2019	17,000	Low storage tank and high usage
Pittsfield	7/09/2019	25,500	Low storage tank and high usage
Pittsfield	8/28/2019	25,500	Low storage tank and high usage
Pittsfield	8/29/2019	34,000	Low storage tank and high usage
Pittsfield	9/04/2019	42,500	Low storage tank and high usage
Pittsfield	9/05/2019	42,500	Low storage tank and high usage