Lakeshore Water Company (PWSID#: NJ1413001)

51 Lake Trail West, Morristown, NJ 07960

Year 2023 Annual Water Quality Report

What's The Quality of Your Water?

Lakeshore Water Company is proud to supply you with this year's Water Quality Report required by the State of New Jersey Department of Environmental Protection (NJDEP) and the U.S. Environmental Protection Agency (EPA). The tables in this report show the results of our water quality analysis in the year 2023. Every regulated contaminant detected in the water, even in the minutest traces, is listed. The table contains the name of each highest level allowed by regulation (MCL), the ideal goals for public health (MCLG), usual sources of such contamination, definitions that explain what was tested, and a key to the units of measurement. The data tables in this report show only the substances detected in your water; other substances may have been tested and not detected.

Lakeshore Water Company received no violations in 2023. The EPA requires monitoring for over 80 drinking water contaminants. The contaminants listed in the table on the next page reflect only the contaminants detected in your water for the monitoring period January 1 to December 31, 2023. We routinely monitor for contaminants in your drinking water according to federal and state laws. The state allows us to monitor for some contaminants less than once per year because the concentrations of those contaminants do not change frequently. Some of our data, though representative, may be more than one year old.

Sources of Supply

Lakeshore Water Company takes its water from two (2) groundwater wells. Well #1 is located adjacent to the tennis courts across from the Mt. Kemble Lake Association's Club House. Well #4 is located to the left of Well #1 Treatment Plant, next to the tennis court parking lot. The water from both wells is chlorinated and then sent to three storage tanks located at the top of Alpine Drive, and from there distributed throughout the community.

*PLEASE NOTE: Most of the water, for the year 2023, came from Well #4.

Water System Information

Lakeshore Water Company wants our customers to be informed about their drinking water. We welcome you to attend a monthly meeting held the 3rd Monday of each month at 5:30pm at the clubhouse. You may also contact us with any questions at (973) 989-0010.

GENERAL DRINKING WATER INFORMATION:

Water Sources

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:

- Biological may come from human, agricultural, or wildlife sources.
- Inorganic can be natural, from storm run-off, or from industrial or domestic wastewater discharges.
- Pesticides and herbicides may come from agricultural, storm run-off or residential use.
- Organic chemicals may come from industrial or domestic processes, storm run-off, and septic systems.
- Radioactive materials can be naturally occurring or the result of mining or other human activities.

Presence 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 EPA's Safe Drinking Water Hotline (1-800-426-4791). In order to ensure that tap water is safe to drink, the EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems.

Immuno-Compromised Persons

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).

LAKESHORE WATER COMPANY WATER QUALITY TABLE

Contaminant	MCL Violation Y/N	Level Detected via # of Samples	Unit of Measurement	MCL (Highest Level Allowed)	MCLG (Goal)	Potential Source		
Nitrate Test Results Year: 2023	N	1.3 1 Sample	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks; erosion of natura deposits		
Lead Test Results Year: 2021	N	0 (90 th Percentile) Range of Results: ND-ND	ppb	15 (Action Limit)	0	Corrosion of household plumbing		
Copper Test Results Year: 2021	N	0.14 (90 th Percentile) Range of Results: 0.05-0.15	ppm	1.3 (Action Limit)	1.3	Corrosion of household plumbing		
Arsenic Test Results Year: 2023	N	LRAA: 3.0 Range of Results: ND – 3.7	ppb	5	5	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes		
Barium Test Results Year: 2021	N	0.18 1 Sample	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits		
Chromium Test Results Year: 2021	N	0.59 1 Sample	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits		
Fluoride Test Results Year: 2021	N	0.31 1 Sample	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories		
Nickel Test Results Year: 2021	N	0.45 1 Sample	ppb	100	100	Erosion of natural deposits; found in the earth's crust		
PFOA Test Results Year: 2023	N	4.0 1 Sample	ppt	14	N/A	Discharge from industrial, chemical, and manufacturing factories, release of aqueous film forming foam		
Chlorine Residual Test Results Year: 2023	N	Average: 0.8 Range of Results: 0.5 – 1.2	ppm	MRDL 4	MRDLG 4	Water additive used to control microbes		

Radiologicals

Contaminant	MCL Violation Y/N	Average Detected Level via # of Samples	Unit of Measurement	MCL	MCLG	Potential Source
Gross Alpha Test Results Year: 2021	N	2.8 1 Sample	pCi/L	15	0	Erosion of natural deposits
Uranium Test Results Year: 2021	N	1.1 1 Sample	ug/L	30	0	Erosion of natural deposits

Secondary Contaminants

Contaminant	Average Level	Range of	Unit of	RUL	Potential Source	
	Detected	Detections	Measurement			
Chloride (2021)	28	1 sample	ppm	250	Naturally Occurring	
Hardness (2021)	60	1 sample	ppm	250	Naturally Occurring	
Sodium (2021)	64	1 sample	ppm	50	Naturally Occurring	
Sulfate (2021)	15	1 sample	ppm	250	Naturally Occurring	
Total Dissolved Solids (2021)	247	1 sample	ppm	500	Naturally Occurring	

Special note regarding Sodium: For healthy individuals, the sodium intake from water is not important, because a much greater intake of sodium takes place from salt in the diet. However, sodium levels above the recommended limit may be a concern to individuals on a sodium restricted diet.

Waivers

The Safe Drinking Water Act regulations allow monitoring waivers to reduce or eliminate the monitoring requirements for asbestos, volatile organics, and synthetic organic chemicals (SOCs). Lakeshore Water Company has received monitoring waivers for asbestos and synthetic organic chemicals (2022).

How to read this report:

Word, Acronym,	Definition						
Symbol or Note							
Y/N	Yes/No						
AL	Action Level. The concentration of a contaminant, which, if exceeded, triggers a						
	treatment or other requirements, which a water system must follow.						
CDC	Centers for Disease Control						
EPA	United States Environmental Protection Agency.						
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.						
MRDL	Maximum Residual Disinfectant Level – The highest level of a disinfectant allowed in						
	drinking water.						
MRDLG	Maximum Residual Disinfectant 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.						
N/A	Not applicable						
NJDEP	New Jersey Department of Environmental Protection						
ND	Not detected						
ppb	Parts per billion. Means 1 part per 1,000,000,000 (same as micrograms per liter) and						
	correspond to 1 penny in \$10 million.						
ppm	Parts per million. Means 1 part per 1,000,000 parts (same as milligrams per liter) and						
	corresponds to 1 penny in \$10,000.						
ppt	Parts per trillion. Means 1 part per 1,000,000,000,000 parts (same as nanograms per						
	liter) and corresponds to 1 penny in \$10 billion.						
RAA/LRAA	Running Annual Average/Locational Running Annual Average						
RUL	Recommended Upper Limit						

Health Effects of Detected Contaminants:

<u>Arsenic:</u> Arsenic is an element that occurs naturally in rocks and soil, water, air, plants, and animals. Some health effects caused by chronic exposure in excess of the MCL may result in skin, bladder, lung, kidney, nasal passages, liver and prostate cancer; or cardiovascular, pulmonary, immunological, neurological and endocrine (*e.g.*, diabetes) effects.

<u>Barium:</u> Barium is a naturally occurring ore used in a variety of manufactured goods. The EPA has found that in some people, short exposure to Barium in exceedance of the MCL can cause gastrointestinal disturbances and muscle weakness. Long term exposure to barium at levels above the MCL may cause high blood pressure.

<u>Chloride</u>: Chloride occurs naturally in water and is monitored as a secondary contaminant. Secondary contaminants are aesthetic (taste and odor) rather than health risks; however, in high concentrations sulfate can cause Diarrhea in some people.

<u>Chlorine:</u> Some people who use water containing chlorine well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chlorine well in excess of the MRDL could experience stomach discomfort.

<u>Chromium:</u> Some people who use water containing chromium well in excess of the MCL over many years could experience allergic dermatitis.

<u>Copper:</u> Copper is an essential nutrient, but some people who drink water that contains copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water that contains copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilsons Disease should consult their personal doctor.

<u>Fluoride:</u> Infants and children: Delays in physical or mental development; children could show slight deficits in attention span and learning abilities. Adults: Kidney problems; high blood pressure.

<u>Gross Alpha (48 Hour):</u> Certain minerals are radioactive and may emit a form of radiation known 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.

<u>Hardness</u>: Water hardness is the traditional measure of the capacity of water to react with soap and producing lather. Hard water often produces a noticeable deposit of precipitate (e.g. insoluble metals, soaps or salts) in containers, including "bathtub ring".

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. Lakeshore Water Company 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 is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

<u>Nickel:</u> Some people who drink water containing nickel in excess of the MCL over many years may experience liver effects.

<u>Nitrate:</u> Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should ask for advice from your health care provider.

<u>PFOA (Perfluorooctanoic Acid)</u>: Some people who drink water containing perfluorooctanoic acid in excess of the MCL over many years could experience problems with their blood serum cholesterol levels, liver, kidney, immune system, or, in males, reproductive system. Drinking water containing perfluorooctanoic acid in excess of the MCL over many years may also increase the risk of testicular and kidney cancer. For females, drinking water containing perfluorooctanoic acid in excess of the MCL over many years may cause developmental delays in a fetus and/or an infant.

<u>Secondary Contaminant:</u> These parameters do not have an impact on health. Secondary Contaminants affect aesthetic qualities such as odor, taste or appearance. Secondary standards are recommendations, not mandates.

<u>Sodium (Na):</u> Naturally occurring mineral. Sodium is essential for good health. Certain medical conditions, however, require sodium intake monitoring. Excessive sodium can adversely affect high blood pressure, heart disease or diabetes. Contact your physician for further information.

<u>Sulfate</u>: Sulfate occurs naturally in water and is monitored as a secondary contaminant. Secondary contaminants are aesthetic (taste and odor) rather than health risks; however, in high concentrations sulfate can cause Diarrhea in some people.

<u>Total Dissolved Solids:</u> (TDS) in drinking water is not a health hazard. The recommended upper limit has been established based on the aesthetic properties of water. Water high in TDS may taste salty or brackish. High TDS may also indicate that other ions naturally present in water may be above established regulatory levels.

<u>Uranium:</u> 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.

Source Water Assessment

The New Jersey Department of Environmental Protection (NJDEP) has completed and issued the Source Water Protection Report and Summary for this public water system, which is available at www.nj.gov/dep/watersupply/swap/creport.htm or by contacting the NJDEP, Bureau of Safe Drinking Water at 609-292-5550.

The table below illustrates the susceptibility rating for each individual source for each of the contaminant categories at this water system. For susceptibility ratings of purchased water, refer to the specific water system's source water assessment report. NJDEP considered all surface water highly susceptible to pathogens. For the purpose of the Source Water Assessment Program, radionuclides are more of a concern for ground water than surface water. If the system is rated highly susceptible for a contaminant category, it does not mean that a customer is or will be consuming contaminated drinking water. The rating reflects the potential for contamination of source water, not the existence of contamination. Public water systems are required to monitor for regulated contaminants and to install treatment if any contaminants are detected at frequencies and concentrations above allowable levels. As a result of the assessments, NJDEP may customize (change existing) monitoring schedules based on the susceptibility ratings. If you have questions regarding the source water assessment report or summary, please contact the Bureau of Safe Drinking Water at 609-252-5550.

Facility Code	Source Name	<u>Pathogens</u>	<u>Nutrients</u>	<u>Pesticides</u>	<u>VOCs</u>	Inorganics	Radionuclides	<u>Radon</u>	<u>DBPs</u>
		Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating
TP001002	Well 1	Н	Н	L	L	М	М	Н	М

Susceptibility ratings for a public water system are based on the potential for a contaminant to be:

- At or above 50% of the Drinking Water Standard (MCL) = (H) High
- Between 10 and 50% of the Drinking Water Standard (MCL) = (M) Medium
- Less than 10% of the Drinking Water Standard (MCL) = (L) Low

Pathogens: Disease-causing organisms such as bacteria and viruses. Common sources are animal and human fecal wastes.

Nutrients: Compounds, minerals and elements that aid growth, and are both naturally occurring and man-made. Examples include nitrogen and phosphorus.

Volatile Organic Compounds (VOCs): Man-made chemicals used as solvents, degreasers, and gasoline components. Examples include benzene, methyl tertiary butyl ether (MTBE), and vinyl chloride.

Pesticides: Man-made chemicals used to control pests, weeds and fungus. Common sources include land application and manufacturing centers of pesticides. Examples include herbicides such as atrazine, and insecticides such as chlordane.

Inorganics: Mineral-based compounds that are both naturally occurring and man-made. Examples include arsenic, asbestos, copper, lead, and nitrate.

Radionuclides: Radioactive substances that are both naturally occurring and man-made. Examples include radium and uranium.

Radon: Colorless, odorless, cancer-causing gas that occurs naturally in the environment. For more information go to http://www.nj.gov/dep/rpp/radon/index.htm or call 800-648-0394.

(DBPs) Disinfectant Byproduct Precursors: A common source is naturally occurring organic matter in surface water. Disinfection byproducts are formed when other disinfectants (usually chlorine) used to kill pathogens react with dissolved organic material (for example leaves) present in surface water.

This Water Quality Report was prepared for Lakeshore Water Company by:



90 1/2 West Blackwell Street

Dover, NJ 07801

P: (973) 989-0010

F: (973) 989-0156