

## WATER QUALITY DATA

The table below lists all the drinking water contaminants that we detected during the 2007 calendar year. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing performed between January 1, 2007 and December 31, 2007. The State of New Jersey requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Therefore, some of the data, though representative of the water quality, is more than one year old.

**Terms & abbreviations used below:**

**Maximum Contaminant Level (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 (MCLG):** the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLG's allow for a margin of safety.

**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.

**Maximum Residual Disinfectant Goal (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 contamination

**Recommended Upper Limit (RUL):** recommended maximum concentration of secondary contaminants. These reflect aesthetic qualities such as odor, taste or appearance. RUL's are recommendations, not mandates.

**Primary Contaminants:** substances that are health-related. Water suppliers must meet all primary drinking water standards.

**Secondary Contaminants:** substances that do not have an impact on health. Secondary contaminants affect aesthetic qualities such as odor, taste or appearance. Secondary standards are recommendations, not mandates.

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

**Treatment Technique (TT):** a required process intended to reduce the level of a contaminant.

**n/a:** not applicable; **nd:** not detectable at testing limit; **ppb** parts per billion or micrograms per liter; **ppm:** parts per million or milligrams per liter; **pCi/l:** picocuries per liter (a measure of radiation).

Contaminants (units)	MCL	MCLG	Mountain Lakes Water	Range of Detections	Sample Date	Violation Y or N	Typical Source of Contaminant
<b>Microbiological Contaminants</b>							
Total Coliform Bacteria	1	0	0	0	2007	N	Naturally present in the environment
Fecal coliform and E. coli	0	0	0	0	2007	N	Human and animal fecal waste
<b>Secondary Contaminants</b>							
ABS/L.A.S. (ppb)	500	500	0	nd	08-26-05	N	Synthetic detergents
Aluminum (ppb)	200	200	0	nd	08-26-05	N	Naturally occurring element
Chloride (ppm)	250	250	56	21 - 93	08-26-05	N	Erosion from natural deposits; Discharge of human and animal wastes; Discharge from industry
Color (Color Units)	10	10	5	5	08-26-05	N	Physical characteristic
Corrosivity	+/- 1.0	+/- 1.0	-0.53	-1.7 to 0.44	08-26-05	N	Physical characteristic
Hardness (ppm)	250	250	168	89 - 217	08-26-05	N	Naturally occurring minerals
Iron (ppb)	300	300	30	30	02-20-07	N	Naturally occurring element
Manganese (ppb)	50	50	nd	nd	02-20-07	N	Naturally occurring element
Odor (Threshold Number)	3	3	0	nd	08-26-05	N	Physical characteristic
pH (Standard Units)	6.5 - 8.5	6.5 - 8.5	7.49	6.8 - 8.18	08-26-05	N	Physical characteristic
Silver (ppb)	100	100	0	nd	08-26-05	N	Naturally occurring element
Sulfate (ppm)	250	250	23.7	20 - 28	08-26-05	N	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines
Total Dissolved Solids (ppm)	500	500	260	182 - 326	08-26-05	N	Erosion of natural mineral deposits
Zinc (ppm)	5	5	0	nd	08-26-05	N	Naturally occurring element

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<b>Lead and Copper</b>							
Lead (ppb)	AL=15	15	6	1 to 119	07-17-07	N	Corrosion of household plumbing systems; Erosion of natural deposits
Copper (ppm)	AL=1.3	1.3	0.41	.10 to .58	07-17-07	N	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
<b>Inorganic Contaminants</b>							
Antimony (ppb)	6	6	0	nd	08-26-05	N	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic (ppb)	50	n/a	0	nd	03-14-07	N	Erosion from natural deposits; Runoff from orchards; Runoff from glass and electronics productions wastes
Barium (ppm)	2	2	0	nd	08-26-05	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Beryllium (ppb)	4	4	0	nd	08-26-05	N	Discharge of metal refineries and coal-burning factories; Discharge from electrical, aerospace, and defense industries
Cadmium (ppb)	5	5	0	nd	08-26-05	N	Corrosion of galvanized pipes; Erosion of natural deposits; Discharge from metal refineries; Runoff from waste batteries and paints
Chromium (ppb)	100	100	0	nd	08-26-05	N	Discharge from steel and pulp mills; Erosion of natural deposits
Cyanide (ppb)	200	200	0	nd	08-26-05	N	Discharge from steel /metal factories; Discharge from plastic and fertilizer factories
Fluoride (ppm)	4	4	0.11	0.06 - 0.20	08-26-05	N	Erosion from natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Mercury (ppb)	2	2	0	nd	08-26-05	N	Discharge from steel /metal factories; Discharge from plastic and fertilizer factories
Nickle (ppb)	100	100	0	nd	08-26-05	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Nitrate (ppm)	10	10	see note below	see note below	see note below	Y	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Selenium (ppb)	50	50	0	nd	08-26-05	N	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines
Thallium (ppb)	2	0.5	0	nd	08-26-05	N	Leaching from ore-processing sites; Discharge from electronics, glass, and drug factories
Sodium (ppm)	50	50	11.90	9.2 - 16.5	08-26-05	N	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines
<b>Unregulated Contaminants</b>							
Bromoform (ppb)	-	-	0.23	0.23	02-20-07	-	No MCL's for Unreg. Contaminants

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<b>Regulated Disinfectants</b>							
TTHMs [Total trihalomethanes] (ppb)	80	n/a	4	1.80 - 6.60	08-27-07	N	By-product of drinking water chlorination
HAA5 [Five Haloacetic Acids] (ppb)	60	n/a	3	1.85 - 4.91	08-27-07	N	By-product of drinking water chlorination
Chlorine (ppm) 2007	<b>Levels Detected - Average &amp; Highest</b>			<b>MRLD</b>		<b>MRDLG</b>	
	0.20		0.24		4.0 ppm		4.0 ppm
<b>Radioactive Contaminants</b>							
Total Alpha (pCi/l)	15	0	1.47	0.59 - 1.90	05-24-05	N	Erosion of natural deposits
Radium 226/228 (pCi/l)	5	0	0.11	.02 - .27	05-24-05	N	Erosion of natural deposits
Uranium (ppb)	30	0	0.46	.12 - 1.0	05-24-05	N	Erosion of natural deposits

### Water Standards Information

**Regarding Nitrate Compliance.** A violation of the required testing frequency for nitrate occurred in November of 2007 due to a clerical error in the sampling forms and chain of custody paperwork. Instead of testing for nitrate (NO<sub>3</sub>), the test was performed for ammonia (NH<sub>3</sub>). This type of violation is referred to as an administrative violation since water quality is not impacted. Nitrate levels in Mountain Lakes water have historically been in the range of 1ppm to 2 ppm, which is well below the maximum of 10 ppm as set by NJDEP. Follow-up testing in February 2008 showed average nitrate levels at 3.11 ppm.

**Regarding chemical contaminants and health related standards.** Mountain Lakes is proud of the fact that our water complies with all drinking water standards for chemical contaminants as set by the State of New Jersey and the U.S. EPA.

**Regarding New Standards for Arsenic.** Mountain Lake's water meets EPA's standard for arsenic, in fact the level is considered zero since it is less than the laboratory testing methods can detect. EPA's standard for arsenic is 5 parts per billion.

**Regarding Asbestos, Nitrite and Synthetic Organic Compounds.** As permitted under the Safe Drinking Water Act, the State of New Jersey has issued waivers to Mountain Lakes for testing of asbestos, nitrite and synthetic organic compounds. These waivers were given after careful review of prior negative testing and consideration of factors which indicate low susceptibility to these types of contaminants.

### Special Considerations Regarding Children, Pregnant Women, Nursing Mothers, and Others

Children may receive a slightly higher amount of a contaminant present in the water than do adults, on a body weight basis, because they may drink a greater amount of water per pound of body weight than do adults. For this reason, reproductive or developmental effects are used for calculating a drinking water standard if these effects occur at lower levels than other health effects of concern. If there is insufficient toxicity information for a chemical (for example, lack of data on reproduction or developmental effects), an extra uncertainty factor may be incorporated into the calculation of the drinking water standard, thus making the standard more stringent, to account for additional uncertainties regarding these effects. In the cases of lead and nitrate, effects on infants and children are the health endpoints upon which the standards are based.

**Nitrate:** 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 advise from your health care provider.

**Lead:** Infants and young children are typically vulnerable to lead in drinking water than the general population. It is possible that lead levels at our home may be higher than at other homes in your community as a result of materials used in your home plumbing. If you are concerned about elevated levels in your home water, you may wish to have your water tested and flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the Safe Drinking water Hotline (1-800-426-4791).