



Derry Municipal Center  
14 Manning Street  
Derry, NH 03038

Phone: 603-432-6147  
Fax: 603-432-6130

**Derry on the Web:**  
[www.derry-nh.org](http://www.derry-nh.org)

### How can I get involved?

The Town of Derry invites its customers to become more involved with the Town's water quality efforts. The Derry Town Council, who act as the Water Commission, meet periodically to discuss issues that concern our customers. Council meetings are usually held on the first and third Tuesdays of each month at the Derry Municipal Center at 14 Manning Street. For more information you can call the Municipal Center or visit our website.

### National Drinking Water Compliance

This report was prepared using technical guidance provided by the American Water Works Association and the NH Department of Environmental Services and in the strict compliance with consumer confidence reporting guidelines adopted by the US Environmental Protection Agency.

## HEALTH EFFECTS INFORMATION

**Health Information:** To ensure tap water is safe to drink, the EPA prescribes limits on the amount of certain contaminants in water provided by public water systems. FDA regulations establishes limits for contaminants in bottled 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 mean that the water poses a health risk. More information about contaminants and their potential health effects can be obtained by calling EPA's safe drinking water hotline at 1-800-426-4791.

The sources of drinking water (both tap 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 radioactive material and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present include:

**Biological Contaminants** such as viruses and bacteria which may come from sewage treatment plants, private septic systems, agricultural livestock operations and wildlife.

**Inorganic Contaminants** such as salt and metals which can be naturally occurring or result from urban run-off, 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, stormwater run-off, and residential uses.

**Organic chemicals** including synthetic and volatile organics which are byproducts of industrial processes and petroleum production and can also come from gas stations, urban stormwater run-off and septic systems.

**Radioactive materials** which may be naturally occurring or be the result of oil and gas production and mining activities.

**Lead**—Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than other homes in the community as a result of materials used in your homes plumbing. If you are concerned about lead levels in your home's 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)

**Do I need to take special precautions?** Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons undergoing chemotherapy, persons who have undergone organ transplants, persons with HIV/AIDS or other immune disorders, some elderly, and infants can be particularly at risk for infections. These people should seek advice about drinking water from their health provider. EPA/Center for Disease Control guidelines on appropriate means to lessen risk of infection by cryptosporidium are available from the Safe Drinking Water hotline at 1800-426-4791.

# 2009 Water Quality Report Rand-Shepherd Hill Community Water System

*What you should know about your drinking water...*

## Is your drinking water safe to drink? Absolutely!

Dear Water Customer,

The Town of Derry is committed to providing water customers with high quality drinking water that meets or exceeds state and federal standards for quality and safety. We are pleased to report the results of our 2008 water testing to inform you about your drinking water.

Each year we report information about your drinking water quality specifically noting any contaminants detected in the water which exceeded state or federal water quality standards, their probable

source, and their potential health effects.

If you have any questions regarding this report or your drinking water in general, please contact the Department of Public Works at the Derry Municipal Center, 14 Manning Street, Derry, NH in person or by calling 603-432-6147.

### Drinking Water Assessment Reports:

The NH Department of Environmental Services has prepared a source assessment report for wells servicing public water systems in NH. The complete assessment report for the Rand-Shepherd Hill Community Water System is also available at the Derry Department of Public Works. These assessments note potential sources of contamination in the areas around your system's water sources.

### Tips to Conserve Water:

- *Water in the early morning or evening on your scheduled day. If you sprinkle your lawn under the hot midday sun, you'll lose as much as 30% of your water to evaporation.*
- *Several short watering sessions are better than a single long one. Lawns can only absorb water so fast. It's better to water your lawn for three ten minute sessions with each session an hour and a half apart than it is to water steadily for 30 minutes and cause run-off.*
- *Better yet...Xeriscape®. Xeriscaping is water wise landscaping that stresses proper soil preparation, efficient irrigation, and the use of water stingy plants. For homeowners, it means less maintenance, lower water bills and a colorful decorative look. Contact your local greenhouse for more information.*

## The Rand-Shepherd Hill Community Water System

The Derry Rand-Shepherd Hill Community Water System is serviced by three groundwater supply bedrock wells located off Londonderry Road, a storage tank, a water booster station, and 5,800 feet of ductile iron water lines. Chlorine is injected prior to distribution in order to maintain adequate disinfection. The system provides drinking water to 63 single family residential homes on Faith Dr., Twilight Path and Heather Lane. Please remember to restrict outdoor watering activities to the early morning or evening hours on your even or odd scheduled day.

RAND-SHEPHERD HILL COMMUNITY WATER SYSTEM  
WATER QUALITY SUMMARY

KEY TO TABLE

**Maximum Contaminant Level or MCL:** The highest level of a contaminant that is allowed in drinking water. MCL's are set as close to MCLG's as feasible using the best available technology.

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

**MRDLG:** Maximum residual disinfection level goal: The level of drinking water disinfection below which there is no known or expected risk to health. The MRDLG's do not reflect the benefits of the use of disinfectants to control microbial contaminants.

**MRDL:** Maximum residual disinfectant level: The highest level of a disinfectant allowed in drinking water. There is convincing evidence that the addition of a disinfectant is necessary to control microbial contaminants.

**AL:** Action level above which a treatment technique must be implemented.

**NTU:** Nephelometric Turbidity Units

**pCi/l:** Picocuries per liter (a measure of radioactivity)

**ppm:** parts per million or milligrams per liter (mg/l)

**ppb:** parts per billion or micrograms per liter (ug/l)

**NR:** Not regulated

GENERAL NOTES

1 The maximum allowable limit for lead by EPA standards as measured in stagnant water is 15 ppb. Results represent the 90th percentile.

2 The maximum allowable limit for copper by EPA standards in stagnant water is 1.3 ppm. Results represent the 90th percentile.

3 The State of NH and EPA allow for water systems to monitor for contaminants noted less than once per year because the concentrations for these contaminants does not change frequently. Some of this data, though representative, is more than one year old.

HEALTH EFFECTS INFORMATION

**No Contaminants exceeded the Maximum contaminant level (MCL).**

**For general health information refer to the back page of this report.**

**<sup>4</sup>Radon Gas:** Presently the US Environmental Protection Agency is determining a standard for radon gas which is inhaled and has been linked to cancer. However, it is not clear at what level in your drinking water contributes to this health effect.

**<sup>5</sup>Arsenic:** The US Environmental Protection Agency has set an MCL of 10 ppb effective January of 2006. While your drinking water does contain arsenic it currently does not exceed this standard. USEPA's current standard balances the current understanding of arsenic's possible health effects against the cost of removing arsenic from drinking water. USEPA 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

**<sup>6</sup> Combined Radium (pCi/L):** 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.

**Total Trihalomethanes (TTHM) and Haloacetic Acids** are by-products of disinfection process. They are created when chlorine and naturally occurring organic compounds come together. Some of these compounds are known or suspected carcinogens.

**The Table** below lists the contaminants detected in Derry's Rand-Shepherd Hill Community Water System in 2008. In Addition to those detected the Town tests your drinking water for over 100 additional contaminants such as pesticides, herbicides, radionuclides, MTBE etc. using both Town resources and local laboratories.

**How to read this table:** This table shows the results of our water quality analyses. Every regulated contaminant that we detected in your water, even in the most minute traces, is listed here. The **table** contains the names of each contaminant, the highest level allowed by State and EPA regulations (MCL), the ideal goals for public health (MCLG), the amount detected, and the most common sources of the contaminant. Footnotes explaining our findings and a key to the units of measure are also included in this **table**. Definitions of MCL and MCLG are important.

Regulated Contaminants

Contaminant	Unit	MCL	MCLG	Range of Detected Levels	Highest Detected Level	Major Sources	Violation
<i>Inorganic Contaminants</i>							
Lead (2006) <sup>3</sup>	ppb	AL=15 <sup>1</sup>	0	<5	<5 <sup>1</sup> (90th percentile)	Corrosion of household plumbing systems; Erosion of Natural Deposits.	No
Copper (2006) <sup>3</sup>	ppm	AL=1.3 <sup>2</sup>	1.3	0.120 to 0.50	0.447 <sup>2</sup> (90th percentile)	Corrosion of household plumbing systems; Erosion of Natural Deposits; leaching from wood preservatives	No
Chlorine	ppm	4.0- MRDL	n/a	0.10 to 0.40	0.40	Drinking water disinfection	No

Microbiological Contaminants

Total Coliform	P	<5%	0%	0%	0%	Naturally present in the environment	No
----------------	---	-----	----	----	----	--------------------------------------	----

Volatile Organic Contaminants

Total Trihalomethanes	ppb	80	n/a	No Range	3.3	Byproduct of drinking water chlorination	No
Total Haloacetic Acids (2007) <sup>3</sup>	ppb	60	n/a	No Range	1.5	Byproduct of drinking water disinfection	No

Radiological Contaminants

Gross Alpha (comp) (2006) <sup>3</sup>	pCi/l	15	15	0.0+/-0.4	0.0+/-0.4	Decay of natural and manmade deposits	No
Radium 226 (2006) <sup>3,6</sup>	pCi/l	5	0	0.2+/-0.2-0.5+/-0.1	0.5+/-0.1	Decay of natural and manmade deposits	No
Radium 228 (2006) <sup>3,6</sup>	pCi/l	5	0	0.0+/-0.3-0.9+/-0.6	0.9+/-0.6	Decay of natural and manmade deposits	No
Uranium (2006) <sup>3,6</sup>	pCi/l	20	0	0.0+/-0.2	0.0+/-0.2	Decay of natural and manmade deposits	No

Unregulated Contaminants

Inorganic Contaminants

Calcium	ppm	NR	NR	No Range	42.8	Soils and Rocks containing limestone, dolomite and gypsum. Small amounts from igneous and metamorphic rocks.	No
Sodium	ppm	NR	NR	No Range	17.2	Road Salt. Seawater trapped in sediments at time of deposition. Also may occur in freshwater as a result of exchange of dissolved calcium and magnesium for sodium in aquifer materials.	No
Manganese	ppm	NR	NR	No Range	0.132	Naturally present in the environment	No
Chloride	ppm	NR	NR	No Range	42	Road salt. Seawater trapped in sediments at time of deposition.	No
Magnesium	ppm	NR	NR	No range	6.5	Naturally present in the environment	No
Iron	ppm	NR	NR	No Range	0.022	Present in most soils and rocks	No
Sulfate	ppm	NR	NR	No Range	27	Naturally present in the environment	No
Sulfide	ppm	NR	NR	No Range	1.4	Naturally present in the environment	No

Radiological Contaminants

Radon Gas (2006) <sup>3</sup>	pCi/l	NR	NR	2000 - 3290	3290 <sup>4</sup>	Decomposition of Natural deposits	No
-------------------------------	-------	----	----	-------------	-------------------	-----------------------------------	----

2008 Water Quality Results