

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. The assessment conducted for Lake Massabesic, Derry's water supply source, prepared in September 2002, received four high and four medium vulnerability ratings, while it ranked at low vulnerability for five additional categories.

Note: This information is over 12 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 for the Derry Core Water system is available at the Derry Department of Public Works. For more information you may contact the DPW at 603-432-6144 or visit the DES Drinking Water Source Assessment website at:

<http://des.nh.gov/organization/divisions/water/dwqb/dwspp/dwsap.htm>

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

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.

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 stormwater 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.

IMPORTANT REMINDER ABOUT CHLORAMINES: Chloramines are used to treat our water supply for disinfection. Chloramines make water safer and better tasting. Chloraminated tap water, which has been used in the U.S. for decades, is safe for drinking, cooking, bathing and other daily uses. However, some customers will need to take special precautions.

FISH OWNERS Like chlorine, chloraminated water may cause both fresh and saltwater fish and other aquatic life to die, because water is taken directly into their bloodstream. Recommended precautions include: Treat chloraminated water **BEFORE** it is added to your tank, aquarium, pond or bowl. Carbon filters do not remove chloramines. Customers who use tap water for aquaculture (growing plants in a water tank or pond) are encouraged to get expert advice regarding whether and how to neutralize or remove chloramines. Restaurants and grocery stores with lobster tanks should take special precautions to treat the water. Chloraminating products and equipment for chlorine and ammonia removal can be found at most pet and aquarium retailers.

KIDNEY DIALYSIS PATIENTS Chloramines are harmful when they go directly into the bloodstream, just as chlorine in water would be toxic. They must be removed from water used in either hospital or home dialysis machines. Medical centers that perform dialysis are responsible for the removal of chloramines from water that enters the machines. Any dialysis equipment connected to the Derry water supply will require modifications to eliminate chloramines. Dialysis patients and people with questions or concerns should contact their physician or public health professional.

HOUSEHOLD CONCERNS Chloramines may cause some rubber or synthetic rubber materials in plumbing fixtures to degrade faster than normal. When replacing, ask for chloramines resistant parts at plumbing suppliers and hardware stores. Chloramines may also impact

BREWERIES AND BAKERIES as yeast and enzymes may not survive.

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.

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 www.derry.nh.us.



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Town of Derry, New Hampshire

ANNUAL

CONSUMER CONFIDENCE

REPORT

Drinking water 2015 testing report

For the Autumn Woods Community Water System

PWS ID 0612220



To Our Customers at Autumn Woods,

The Town of Derry's ongoing mission is to provide safe and reliable drinking water to Derry's residents, institutions and businesses complying with Federal and State Regulations. Aging infrastructure presents challenges to drinking water safety, and continuous improvement is needed to maintain the quality of life we desire for today and for the future. Each year the Town budgets for the replacements of older under-sized water pipelines, fire hydrants, and valves throughout our water system as well as repairs and upgrades to our pump stations.

These investments along with on-going operation and maintenance costs are supported by our water rates and fees. When considering the high value we place on water, it is truly a bargain to have water service that protects public health, fights fires, supports businesses and the economy, and provides us with the high-quality of life we enjoy.

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

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.

What is the source of my drinking water?

The Derry Autumn Woods Community Water System is serviced by 2 groundwater supply bedrock wells located off Applewood Drive, a water storage tank, a booster pump station and over 3,000 feet of ductile iron water lines. Chlorine is injected prior to distribution in order to maintain adequate disinfection. The system provides drinking water to 29 single family homes on Applewood Drive, Buttonwood Drive and English Range Road.

Lead in Drinking Water: Many have read in the recent news about lead contamination in the drinking water of other communities (Flint, MI). Our customers should know that Autumn Woods is tested for lead throughout the system every three years and has consistently met EPA's drinking water standards. Please see the inside panel for more information on lead in drinking water. .

Town of Derry, NH Autumn Woods Community Water System Sampling Results for 2015

The Table below lists the contaminants detected in Derry's Autumn Woods Community Water System in 2015. 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 minutest 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.

DETECTED WATER QUALITY RESULTS						
CONTAMINANT (Units)	YEAR SAMPLED ¹	HIGHEST LEVEL DETECTED	MCL	MCLG	VIOLATION YES/NO	LIKELY SOURCE OF CONTAMINANT
Arsenic (ppb)	2015	6.4 RANGE of DETECTED VALUES = 6 to 6.4	10	N/A	NO	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium (ppm)	2014	0.0083	2	N/A	NO	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chlorine (ppm)	2015	0.052 RANGE of DETECTED VALUES = 0.02 to 0.52	MRDL = 4	MRDLG = 4	NO	Water additive used for disinfection; to control microbes
Copper (ppm)	2015	90 th percentile = 0.229 ----- # of samples exceeding AL = 0	AL = 1.3	AL = 1.3	NO	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (ppb)	2015	90 th percentile = 1 ----- # of samples exceeding AL = 0	AL=15	0	NO	Corrosion of household plumbing systems, erosion of natural deposits
DISINFECTION BYPRODUCTS						
Total Trihalomethanes (TTHM) ppb (Bromodichloro-methane Bromoform Dibromomethane Chloroform)	2013	RAA = 2.8	RAA = 80	N/A	NO	By-product of drinking water chlorination
ADDITIONAL TESTING		RANGE OF DETECTED VALUES	AVERAGE VALUE		WHY DO WE TEST FOR THESE CONTAMINANTS?	
Sodium (ppm)	2014	7.36	7.36		The Derry Autumn Woods Community Water System is required by the Safe Drinking water Act (SDWA) to sample its water system for inorganic compounds (IOC's). Derry will sample for these contaminants more frequently as they are in some cases of common interest to consumers.	
Calcium (ppm)	2014	50.3	50.3			
Manganese (ppm)	2014	0.0155	0.0155			
Magnesium (ppm)	2014	3.65	3.65			
Zinc (ppm)	2014	0.0243	0.0243			
Chloride (ppm)	2014	49	49			
Sulfate (ppm)	2014	24	24			
Hardness (calcium)	2014	141	141			

1. 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 do not change frequently. Some of this data, though representative, is more than one year old.

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.

Treatment Technique or TT: A required process intended to reduce the level of a contaminant in drinking water.

Abbreviations

BDL: Below Detection Limit	mg/L: milligrams per Liter
NA: Not Applicable	ND: Not Detectable at testing limits
pCi/L: picoCurie per Liter	ug/L: micrograms per Liter
ppb: parts per billion	ppm: parts per million
RAA: Running Annual Average	

CONTAMINANTS

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 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 or at <http://water.epa.gov/drink/info/lead/index.cfm>

Arsenic: (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.