

Richmond Water Department

WSID # 5084

Water Quality Report 2004

Our goal is to provide you with a safe and dependable supply of drinking water. This report is a snapshot of the quality of water that we provided for January 1 through December 31, 2003. It also includes the date and results of any contaminants that we detected within the past five years tested less than once a year. Any contaminants detected within the past five years are listed along with the date of detection and concentration. This report is designed to inform you about the quality water and services we deliver to you every day.

Water Source Information

The source of your drinking water is:

Vermont Source Type: **Gravel Screened well**
EPA Source Type: **Groundwater, non-purchased**
Source Name: **WELL**
Location: **Bridge Street**

Source Protection Plan: We have a source protection plan available from our office that provides more information such as potential sources of contamination. The Water Supply Division approved our source protection plan on: 10/11/95

Our System's susceptibility to potential sources of contamination is: Highway contaminants, stormwater from fields and roadways and agricultural / residential activities misusing potentially harmful contaminants such as fertilizers and gasoline. The water supply source is not under direct influence of surface water.

Sources of Drinking Water and Contaminants

The sources of drinking water (both tap water and bottled water) include surface water (streams, lakes) and ground water (wells, springs). As water travels over the land's surface or through the ground, it dissolves naturally-occurring minerals. It also picks up substances resulting from the presence of animals and human activity. Some "contaminants" may be harmful. Others, such as iron and sulfur, are not harmful. Public water systems treat water to remove contaminants, if any are present.

In order to ensure that your water is safe to drink, we test it regularly according to regulations established by the U.S. Environmental Protection Agency and the State of Vermont. These regulations limit the amount of various contaminants:

- **Microbial organisms** (viruses and bacteria) may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- **Inorganic chemicals** (salts and metals) can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, or farming.
- **Synthetic Organic chemicals** (pesticides and herbicides) may come from agriculture, urban stormwater runoff, residential uses, and careless disposal of household chemicals.
- **Volatile Organic chemicals** (gasoline and solvents) may come from gas stations, urban stormwater runoff, septic systems, industrial process, and careless disposal of household chemicals.
- **Naturally occurring radioactivity**

WATER QUALITY DATA

The table below lists all the drinking water contaminants that we detected during the 2003 calendar year. It also includes the date and results of any contaminants that we detected within the past five years tested less than once a year. The presence of these contaminants in the water does not necessarily show that the water poses a health risk.

Terms and abbreviations - In this table you may find terms you might not be familiar with. To help you better understand these terms we have provided the following definitions:

- **90th Percentile:** Ninety percent of the samples are below the action level. (Nine often sites sampled were at or

below this level).

- **Action Level:** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- **Maximum Contamination 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.
- **Maximum Contamination Level Goal (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 (MRDL):** The highest level of a disinfectant allowed in drinking water. Addition a disinfectant may help control microbial contaminants.
- **Maximum Residual Disinfectant Level 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 disinfectants in controlling microbial contaminants.
- **N/A:** Not applicable
- **Parts per billion (ppb) or Micrograms per liter (ug/l):** (one penny in ten million dollars)
- **Parts per million (ppm) or Milligrams per liter (mg/l):** (one penny in ten thousand dollars)
- **Picocuries per liter (pCi/L):** a measure of radioactivity in water
- **Treatment Technique (TT):** A process aimed to reduce the level of a contaminant in drinking water.

Level of Detected Contaminants

Contaminant Detected	Level Detected Units	MCL	MCLG	Sample Date	Violation Y or No	Likely source of detected contaminant
Barium	0.010 ppm	2.000	2.000	6/26/01	NO	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
Copper	15.200 ppm	1.300	1.300	5/31/00	NO	Corrosion of household plumbing systems; erosion of natural deposits.
Fluoride	0.900 ppm	4.000	4.000	6/26/01	NO	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer an aluminum factories.
Lead	19.000 ppb	15.000	0.000	10/05/01	NO	Corrosion of household plumbing systems; erosion of natural deposits.
Lead	660.000ppb	15.000	0.000	9/20/01	NO	
Lead	20.000ppb	15.000	0.000	9/20/01	NO	
Nitrate	1.200 ppm	10.000	10.000	3/07/03	NO	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Radium-226	0.070 pci/L	N/A	N/A	7/15/03	NO	Erosion of natural deposits.
Radium-228	0.200 pci/L	N/A	N/A	7/15/03	NO	Erosion of natural deposits.

Lead and Copper Action Levels						
Contaminant Detected	Action Level	90 th Percentile	Sampling Date	# of sites that exceeded the Action Level	Total # of sites sampled	Likely source of detected contaminant
Copper	1.3 mg/L	0.78	2003	0	20	Corrosion of household plumbing systems; erosion of natural deposits.
Lead	15 ppb	3.000	2003	0	20	Corrosion of household plumbing systems; erosion of natural deposits.

Violation(s) that occurred during the year

We had no violations occur during the year

Additional information

We add fluoride to our water supply to promote public health through the prevention of tooth decay.

Health information regarding drinking water

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 microbiological contaminants are available from EPA's Safe Drinking Water Hotline (1-800-426-4791).

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 the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Safe Drinking Water Hotline.

Owner/Operator and Public Participation Opportunities

If you have any questions about this report or concerning your water quality utility, please contact the person(s) listed below. We want our customers to be informed about their water quality. If you want to learn more, please attend any of our regularly scheduled meetings.

Owner: Town of Richmond
 260 Esplanade, Box 285
 Richmond VT 05477-0000
 Phone Number: (802)-434-2221

Permit Contact:
 Ron Rodjenski, Town Administrator
 rrodjenski@gmavt.net
 434-5170

Operators

Erik B Bailey, 24 Sky View Drive, Jericho VT 05465 Phone Number: (802) 899-1113
 Kendall Chamberlin, 98 Old Pump Road, Essex Jct., VT 05452, Phone Number: (802) 899-6830

Regularly scheduled meetings are held on

Date: First Monday of each Month

Time: 7:00 p.m.

Location: Richmond Town Center Meeting Room, 203 Bridge Street