

2010 Annual Drinking Water Quality Report

Rivermont Heights

INTRODUCTION

This Annual Drinking Water Quality Report for calendar year 2010 is designed to provide you with valuable information about your drinking water quality. The Rockbridge County Public Service Authority is committed to providing you with a safe and dependable supply of drinking water, and we want you to understand the efforts we make to protect your water supply. The quality of your drinking water meets all state and federal requirements administered by the Virginia Department of Health (VDH), Office of Drinking Water.

If you have questions about this report, want additional information about any aspect of your drinking water, or want to know how to participate in decisions that may affect the quality of your drinking water, please contact:

Ms. Karen Austin, Executive Director at (540) 463-4329
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GENERAL INFORMATION

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 can pick up substances resulting from the presence of animal activity, including human. Contaminants that may be present in source water include: (1) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife; (2) Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming; (3) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses; (4) Organic chemical contaminants, including synthetic and volatile organic chemicals and pharmaceuticals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, sewage treatment plants and septic systems; (5) Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities. 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. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Water from surface sources is treated to make it drinkable while groundwater may or may not have any treatment. 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 the Safe Drinking Water Hotline (800-426-4791).

All drinking water, including bottled drinking 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 can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

SOURCES AND TREATMENT OF YOUR DRINKING WATER

Your drinking water is treated groundwater obtained from three wells owned by City of Buena Vista. The City of Buena Vista provides disinfection and fluoridation of the water before it is distributed to Rivermont Heights. This is a consecutive system with the design based on the capacity of the City of Buena Vista.

SOURCE WATER ASSESSMENTS

A detailed source water assessment was conducted June 5, 2002. The purpose of the assessment is to find ways to protect better our water sources. Should you have additional questions please contact our office.

QUALITY OF YOUR DRINKING WATER

Your drinking water is routinely monitored according to Federal and State Regulations for a variety of contaminants. The tables that follow show the results of our monitoring for the period of January 1st through December 31st, 2010.

DEFINITIONS

In the table and elsewhere in this report you will find many terms and abbreviations with which you might not be familiar. The following definitions are provided to help you better understand these terms:

Non-detects (ND) - lab analysis indicates that the contaminant is not present

Parts per million (ppm) or Milligrams per liter (mg/l) - one part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (ppb) or Micrograms per liter - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Parts per trillion (ppt) or Nanograms per liter (nanograms/l) - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

Picocuries per liter (pCi/L) - picocuries per liter is a measure of the radioactivity in water.

Nephelometric Turbidity Unit (NTU) - nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Action Level - the concentration of a contaminant which, if 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 in drinking water.

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.

Variances and exemptions - state or EPA permission not to meet an MCL or a treatment technique under certain conditions

Lead Contaminants

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. We are 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, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

WATER QUALITY RESULTS

Inorganic Contaminants – Information obtained from City of Buena Vista						
Contaminant / Unit of Measurement	MCLG	MCL	Level Found / Range	Violation	Frequency	Typical Source of Contamination
Nitrate ppm	10	10	Highest: 0.74 Range: ND to 0.74	No	April, June & August 2010	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Fluoride ppm	4	4	Range: 0.46 to 1.40	No	Daily 2010	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Barium ppm	2	2	Highest: 0.029 Range: 0.014 to 0.029	No	April, June & August 2010	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Radiological Contaminants - Information obtained from City of Buena Vista						
Contaminant / Unit of Measurement	MCLG	MCL	Level Found / Range	Violation	Date of Sample	Typical Source of Contamination
Combined Radium pCi/L	0	5	Highest: 0.9 Range: ND to 0.9	No	September 2010	Erosion of Natural deposits
Gross Alpha pCi/L	0	15	Highest: 1.3 Range: ND to 1.3	No	September 2010	Erosion of natural deposits
Gross Beta pCi/L	0	50	Highest: 4.5 Range: ND to 4.5	No	September 2010	Decay of natural and man-made deposits
Disinfection By-Products						
Contaminant/Unit of Measurement	MCLG	MCL	Level Found	Violation	Date of Sample	Typical Source of Contamination
TTHM's (Total Trihalomethanes) ppb	0	80	3.5	No	August 2009	By-product of drinking water chlorination
(HAA) Haloacetic acids ppb	NA	60	1.4	No	August 2009	By-product of drinking water chlorination
Lead & Copper						
Contaminant / Unit of Measurement	MCLG	MCL	Level Found / Range	Exceedance	Date of Sample	Typical Source of Contamination
Copper ppm	1.3	AL=1.3	0.059 (90 th percentile) Range: ND to 0.061 None of the five samples collected exceeded the AL.	No	September 2009	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Lead ppb	0	AL=15	1 (90 th percentile) Range: ND to 2 None of the five samples collected exceeded the AL.	No	September 2009	Corrosion of household plumbing systems; Erosion of natural deposits

The results in the table are from testing done in 2009 and 2010. However, the state allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though accurate, is more than one year old.

We monitor frequently for various contaminants in the water supply to meet all regulatory requirements. The table lists only those contaminants that had some level of detection. Many other contaminants have been analyzed but were not present or were below the detection limits of the lab equipment.

Maximum Contaminant Levels (MCLs) are set at very stringent levels by the U.S. Environmental Protection Agency. In developing the standards, EPA assumes that the average adult drinks 2 liters of water each day throughout a 70-year life span. EPA generally sets MCLs at levels that will result in no adverse health effects for some contaminants or a one-in-ten-thousand to one-in-a-million chance of having the described health effect for other contaminants.

VIOLATION INFORMATION

We did not have any violations during the year 2010.

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