Annual Drinking Water Quality Report

Monroe Hall Neighborhood

INTRODUCTION
This Annual Drinking Water Quality Report for calendar year 2021 is designed to inform you about your drinking water quality. Our goal is to provide 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 must meet state and federal requirements administered by the Virginia Department of Health (VDH).

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:
Mr. Norm Risavi, County Administrator @ (804) 493-0130

The times and location of regularly scheduled board meetings are as follows:
Board of Supervisors meetings on the 2nd Monday of each month at 6:00 P.M. at the George D. English, Sr. Memorial Building, located at 111 Polk Street in Montross.

GENERAL INFORMATION
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).

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).

The sources of drinking water (both tap water and bottled water) include rivers, lakes, stream, 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. 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 agricultural, urban stormwater runoff, and residential uses. (4) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems. (5) Radioactive contaminants, which can be naturally occurring or be the results of oil and gas production and mining activities. In order to ensure that tap water is safe to drink, EPA prescribes regulations, which limit the amount of certain contaminants in water provided in water 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.
SOURCE and TREATMENT OF YOUR DRINKING WATER

The source of your drinking water is groundwater as described below:

The well is located off Route 632 (New Monrovia Road) and behind the residence at 227 New Monrovia Road. The only treatment provided is chlorination, which is to prevent bacteriological growth in the distribution system.

The Virginia Department of Health conducted a source water assessment of our system during 2019. Well No. 2 received a low rating of susceptibility to contamination, using criteria developed by the State in its EPA-approved Source Water Assessment Program. The assessment report consists of maps showing the source water assessment area, an inventory of known land use activities of concern, and documentation of any known contamination within the last 5 years from the date of the assessment. The report is available by contacting Mr. Risavi at the phone number or address given elsewhere in this drinking water quality report.

DEFINITIONS

Contaminants in your drinking water are routinely monitored according to Federal and State regulations. The tables on the next page show the results of our monitoring. In the tables and elsewhere in this report you will find many terms and abbreviations you might not be familiar with. 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.

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

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

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. MCLGs 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 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 the use of disinfectants to control microbial contaminants.

Miliirems per year (mrem/year) - The measure of radiation absorbed by the body.
WATER QUALITY RESULTS

I. Lead and Copper Contaminants

<table>
<thead>
<tr>
<th>Contaminant</th>
<th>Units of Measurement</th>
<th>Action level</th>
<th>MCL</th>
<th>Results of samples for the 90th Percentile Value</th>
<th>Action Level Exceedance (Y/N)</th>
<th>Month of Sampling</th>
<th># of Sampling Sites Exceeding Action level</th>
<th>Typical Source of Contamination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper</td>
<td>ppm</td>
<td>1.3</td>
<td>1.3</td>
<td>0.034</td>
<td>N</td>
<td>9/2020</td>
<td>0</td>
<td>Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives.</td>
</tr>
<tr>
<td>Lead</td>
<td>ppb</td>
<td>15</td>
<td>0</td>
<td>&lt; 2</td>
<td>N</td>
<td>9/2020</td>
<td>0</td>
<td>Corrosion of household plumbing systems; Erosion of natural deposits</td>
</tr>
</tbody>
</table>

Lead Education Statement:
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. Monroe Hall Neighborhood is 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 15 to 30 seconds or until it becomes cold or reaches a steady temperature before using water for cooking or drinking. 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 at [http://www.epa.gov/safewater/lead](http://www.epa.gov/safewater/lead).

II. Chemical and Radiological Contaminants

<table>
<thead>
<tr>
<th>Contaminant</th>
<th>Units of Measurement</th>
<th>MCL</th>
<th>MCL Level Detected</th>
<th>Violation (Y/N)</th>
<th>Range of Detection at Sampling Points</th>
<th>Month of Sampling</th>
<th>Typical Source of Contamination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluoride</td>
<td>ppm</td>
<td>4</td>
<td>4</td>
<td>1.16</td>
<td>N</td>
<td>N/A</td>
<td>Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories</td>
</tr>
<tr>
<td>Haloacetic Acids (HAA5)</td>
<td>ppb</td>
<td>N/A</td>
<td>60</td>
<td>ND</td>
<td>N</td>
<td>N/A</td>
<td>By-product of drinking water chlorination.</td>
</tr>
<tr>
<td>Total Trihalomethanes (THM)</td>
<td>ppb</td>
<td>N/A</td>
<td>80</td>
<td>1</td>
<td>N</td>
<td>N/A</td>
<td>By-product of drinking water chlorination.</td>
</tr>
<tr>
<td>Gross Alpha</td>
<td>pCi/L</td>
<td>0</td>
<td>15</td>
<td>0.6</td>
<td>N</td>
<td>N/A</td>
<td>Erosion of natural deposits.</td>
</tr>
<tr>
<td>Gross Beta (1)</td>
<td>pCi/l</td>
<td>0</td>
<td>50</td>
<td>2.5</td>
<td>N</td>
<td>N/A</td>
<td>Decay of natural and man-made deposits</td>
</tr>
<tr>
<td>Combined Radium</td>
<td>pCi/l</td>
<td>0</td>
<td>5</td>
<td>&lt; 0.53</td>
<td>N</td>
<td>N/A</td>
<td>Erosion of natural deposits</td>
</tr>
</tbody>
</table>

(1) The MCL for beta particles is 4 mrem/year. EPA considers 50 pCi/l to be the level of concern for beta particles.
### III. Disinfectants

<table>
<thead>
<tr>
<th>Disinfectant</th>
<th>Units of Measurement</th>
<th>MRDLG</th>
<th>MRDL</th>
<th>Level Detected (Annual Average)</th>
<th>Violation (Y/N)</th>
<th>Range of Detection at Sampling Points</th>
<th>Sampling Year</th>
<th>Typical Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorine</td>
<td>ppm</td>
<td>4</td>
<td>4</td>
<td>0.55</td>
<td>N</td>
<td>0.3 – 1.4</td>
<td>2021</td>
<td>Water additive used to control microbes</td>
</tr>
</tbody>
</table>

We constantly monitor for various contaminants in the water supply to meet all regulatory requirements. The tables list 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.

Some of the water quality results reported in the tables are from testing done prior to this calendar year. Because the concentrations of these contaminants do not change frequently, the state allows us to monitor for some contaminants less than once per year. Some of our data, though accurate, is more than one year old.

The sodium concentration in a sample collected in 2019 was 82 mg/l. This concentration exceeds the recommended maximum contaminant level of 20 mg/l for persons on a "strict" sodium diet.

MCL’s 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**
Your water system did not have any violations during this calendar year.

This Drinking Water Quality Report was prepared by:

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