

Annual Drinking Water Quality Report

CENTRAL GARAGE WATER SYSTEM

INTRODUCTION

This Annual Drinking Water Quality Report for calendar year **2019** 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:

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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, 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. 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. 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.

SOURCE(S) and TREATMENT OF YOUR DRINKING WATER

The source(s) of your drinking water is/are () surface water (X) groundwater as described below:

This waterworks system is serviced by two groundwater wells located in the McCauley Park and Kennington Subdivisions.

Is there any treatment of your drinking water supply? (X) Yes () No If yes, it is described below:

The water is treated with chlorine to prevent bacteriological growth in the distribution system.

The Virginia Department of Health conducted a source water assessment of our system during **2019**. Both wells 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. Purvis 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 table on the next few pages shows the results of our monitoring for calendar year **2018**. 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:

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, 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 (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.

WATER QUALITY. RESULTS

I. Lead and Copper C

Contaminant	Units of Measurement	Action level	MCLG	Results of samples for the 90 th Percentile Value	Action Level Exceedance (Y/N)	Month of Sampling	# of Sampling Sites Exceeding Action level	Typical Source of Contamination
Lead	ppb	15	0	ND	N	August 2019	0	Corrosion of household plumbing systems; Erosion of natural deposits.
Copper	ppm	1.3	1.3	0.07	N	August 2019	0	Corrosion of household plumbing systems; Erosion of natural deposits.

"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. Central Garage Water System 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 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 at <http://www.epa.gov/safewater/lead>"

II. Other Chemical and Radiological C

Contaminant	Units of Measurement	MCLG	MCL	Level Detected	Violation (Y/N)	Range of Detection	Date of Sample		Typical Source of Contamination
							McCauley Park Well	Kennington Well	
Fluoride	ppm	4	4	0.45	N	NA	3-13-2019	6-14-2017	Erosion of natural deposits; Discharge from fertilizer and aluminum factories.
Total Haloacetic Acids (HAAS)	ppb	60	60	5	N	N/A	9-10-2019		By-product of drinking water chlorination
Total Trihaloniethanes (TTHM)	ppb	80	80	19	N	N/A	9-10-2019		By-product of drinking water chlorination
Gross Alpha, Radon & Uranium	pCi/L	0	15	1.5	N	0.8- 1.5	3,6,8& 12/2016	6-9-2015	Erosion of natural deposits.
Gross Beta (1)	pCi/L	0	50	3.9	N	2.8-3.9	3,6,8& 12/2016	6-9-2015	Decay of natural and man-made deposits.
Combined Radium	pCi/l	0	<6	0.9	N	< 5-0.9	3,6,8& 12/2016	6-9-2015	Erosion of natural deposits

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

IV. Disinfectants

Disinfectant	Units of Measurement	MRDLG	MRDL	Level Detected (Annual Average)	Violation (Y/N)	Range of Detection at Sampling Points	Year	Typical Source
Chlorine	ppm	4	4	0.51	N	0.40-0.80	2019	Water additive used to control microbes

We constantly monitor 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.

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.

Other drinking water constituents you may be interested in are as follows:

The sodium concentration from the Kennington well from a sample collected on June 14, 2017 was 68.6 mg/l. The sodium concentration from the McCauley Park well from a sample collected on March 13, 2019 was 67 mg/l. The recommended maximum contaminant level is 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

We are proud to report this water system did not receive any violations in 2019.

NOTICE: Effective March 1, 2012, owners of community waterworks serving less than 10,000 persons have the option to publish the CCR in the local newspaper and to inform customers that the CCR will not be mailed and that a copy of the CCR is available upon request from the Department of Public Works at the address below:

This Drinking Water Quality Report was prepared by
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