

Marine Corps Base Quantico Camp Upshur Water System (PWSID 6153063)





2021 Annual Drinking Water Consumer Confidence Report











Introduction

The Public Works Branch (PWB) of the Marine Corps Base Quantico G-F, Installation and Environment Division, is pleased to present the Base's Camp Upshur Water System Annual Water Quality Report. This report is designed to inform you of our water quality monitoring results summary for the period January 1 through December 31, 2021.

Our goal is to provide you with a safe and dependable supply of drinking water and we are committed to ensuring the quality of your water. To help us meet this goal, we have established a Water System Working Group (WSWG) Team with personnel from water treatment plant, Utility Shop, Facility Maintenance Section, Engineering Section, Utility Section and Natural Resource & Environmental Affairs Branch to proactively address water quality concerns and issues.

Our water sources for the Camp Upshur distribution system (PWSID No. 6153063) are two deep wells. The well water from each well is chlorinated for disinfection (at each well house) and distributed to the Camp Upshur distribution system.

Regarding This Report

MCB Quantico Utilities routinely monitor for contaminants in your drinking water according to Federal and State laws. This report contains summarized information on all regulated contaminants found in your drinking water based on water quality tests performed for a variety of contaminants. An explanation of the results is included in a data table at the end of this report.

Maximum Contaminant Levels (MCL's) are set at very stringent levels by the USEPA. In developing the standards USEPA assumes that the average adult drinks 2 liters of water each day

throughout a 70-year life span. USEPA generally sets MCL's 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.

We Want To Hear From You

In order to meet increasingly stringent water quality requirements, we are constantly planning and funding projects to address many water-related issues including source water protection, system operation and maintenance improvement, and timely upgrade and replacement of water system infrastructure (pipes, pump stations and tanks) and treatment plant facility. We value your inputs on our water quality and water system related issues. You can call us at 703-432-2466 (PWB Water Commodities Manager) for any water related questions and inputs. To stay informed on important water related public notifications, please visit us on line at

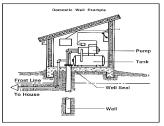
https://www.quantico.marines.mil/water-quality/.



MCB Quantico Camp Upshur Water System — 2021 Consumer Confidence Report

Source Water

Camp Upshur water system receives water from two deep wells located within Camp Upshur facility territory. The VDH conducted a source water assessment in 2002. The purpose was to determine the relative susceptibility of



the source water to activities in the watershed. The source water was calculated to have a high susceptibility to contamination due to ongoing Base activities. There was no evidence of contamination of the water source in any of our testing.

We ask for your help to protect wellhead protection area for our two wells at Camp Upshur. A Wellhead protection area is a surface and subsurface land area regulated to prevent contamination of a well or well-field supplying a public water system. The best way to maintain high quality drinking water at Camp Upshur is to protect wellhead protection area by preventing contaminants from reaching our well water sources.

We ask for your help to properly dispose of trash, waste oil, antifreeze, and other hazardous materials and minimize application of fertilizer and pesticides so that they do not enter into well head protection area. If you witness any illegal activities (e.g.,



illegal dumping) near, around or inside of two wells' fenced area, please report your observations to MCB Quantico Security Battalion at 703-784-2251.

Potential Sources of Water Contaminants

As water travels over the surface and subsurface 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:

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 storm water runoff, and residential uses.
- 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 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

In order to ensure that tap water is safe to drink, USEPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. U.S. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water. Drinking water, including bottled water, may reasonably be expected to contain at least a small amount of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about drinking water contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking water Hotline at 1-800-426-4791 or visiting their website at https://www.epa.gov/ground-water-and-drinking-water.

Should Some People Take Special Precautions?

Some people may be more vulnerable to contaminants in drinking water than the general population. Immune system compromised persons such as persons with cancer undergoing chemotherapy, people who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly and infants can be partially at risk from infections. These people should seek advice about drinking water from their health care providers. USEPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the USEPA Safe Drinking Water Hotline at 1-800-426-4791.

We strongly recommend that our customers not use water from the hot water tap for consumption. Any contaminants found in the water may accumulate in the hot water tank. This would be true anywhere, regardless of the water source. This does not mean that there is anything wrong with our drinking water. All water tests are conducted on water from the cold-water tap. Our concern is that the water quality is unknown when water from the hot-water tap is consumed. We believe you are better served by heating cold-water for this purpose.

Microbial Analysis

Coliforms are bacteria that are present naturally in the environment and are used as an indicator that other, potentially harmful bacteria, may be present. When Coliform bacteria are found, special follow-up tests are done to determine if harmful bacteria are present in the water supply. If the limit is exceeded, the water supplier must notify the public by bulletin boards, emails, social media, newspaper, radio, or television. We are proud to announce that we did not have any samples test present for coliform during the 2021 calendar year.

Lead and Copper

During 2019, we completed all required testing for lead and copper and 90 percentiles of the lead and copper test results were less than their action levels (15 ppb for lead and 1.3 ppm for copper). None of samples exceeded lead action level of 15 ppb or copper action level of 1.3 ppm and the lead and coppers levels found in samples taken at Camp Upshur water system are well below their regulatory limits. Based on our triennial lead and copper sampling schedule, we are scheduled to conduct next lead and copper testing in 2022.

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. Marine Corps Base Quantico 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 30 seconds to 2 minuts, until it becomes cold or reaches a steady temperature before using the 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 USEPA's Safe Drinking water Hotline at 1-800-426-4791 or visit https://www.epa.gov/ground-water-and-drinking-water/basicinformation-about-lead-drinking-water.





Conclusion

Our Public Works Branch Utilities work around the clock to provide top quality water to our families, co-workers and Quantico Community. In order to maintain a safe and dependable water supply we will continue to make improvements to our supply lines and distribution system components that benefits all of our customers. Please help us in our goal of ensuring a safe and sustainable water system by careful use of this resource, which is the heart of our community, our way of life and our children's future.





Learn About Your Drinking Water



To stay informed on important water related public notifications, please visit us on line at https://www.quantico.marines.mil/water-quality/.



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Please visit Virginia Department of Health (VDH)
Office of Drinking Water (ODW) website for VDH
drinking water compliance information.:

https://www.vdh.virginia.gov/drinking-water/



For any questions about our drinking water, call at 703-432-2466 (MCBQ GF-Public Works Branch Utilities, Water Commodities Manager).