

Marine Corps Base Quantico, Va.

2012 Annual Drinking Water Quality Report

Camp Barrett Water System

[TBS / DOJ/WTB]

(PWS System ID # 6153060, 6179100)



Introduction

Marine Corps Base Quantico G-5, Installation and Environment Division, is pleased to present the Base's *Camp Barrett* Annual Water Quality Report for 2012. This report is designed to inform you about the quality of water and services we deliver to you every day.

Our constant goal is to provide you, the consumer, with a safe and dependable supply of drinking water.

We are committed to ensuring the quality of your water. To help us meet this goal, we have established a water quality response team. Personnel from the Base Naval Health Clinic join with our Water Quality Assurance Technician, to respond to customer concerns and water quality questions. Together, they have the resources to test the chemical and bacteriological quality at the consumer's tap.

Camp Barrett (PWSID No. 6153060) water is processed at a water treatment plant in Stafford County, Va. (PWSID No. 6179100). This service area includes The Basic School, the Department of Justice complex and the Weapons Training Battalion.

Summary

Both Stafford County and MCB Quantico Utilities routinely monitor for contaminants in your drinking water according to Federal and State laws. This report shows the results of our monitoring for the period January 1 through December 31, 2012.

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:

- (i) *microbial contaminants*, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- (ii) *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.
- (iii) *pesticides and herbicides*, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

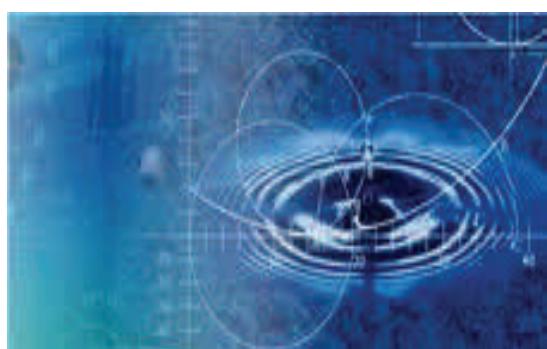
(iv) *organic chemical contaminants*, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

(v) *radioactive contaminants*, which can be naturally occurring or be the result of oil and gas production and mining activities.



Marine Major General Charles Dodson Barrett, the first Commanding General of the 3d Marine Division, was awarded the Distinguished Service Medal posthumously in recognition of his outstanding service during World War II. Born August 16, 1885 in Henderson, Kentucky, he was killed accidentally while on duty at Noumea, New Caledonia in the South Pacific October 8, 1943. Barrett is buried at Arlington National Cemetery.

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 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 <http://water.epa.gov/drink/index.cfm>.



2012 MCB Quantico Annual Drinking Water Quality Report

Camp Barrett Water System (TBS/DOJ/WTB)

The Facts

This report contains information on all regulated contaminants found in your drinking water. Additionally, over 85 water tests are performed for a variety of contaminants not found in the water delivered to the Base. An explanation of the results is included.

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. The USEPA 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.

A Source Water Assessment Report (SWAR) was completed in 2002. It was determined that the source water was highly susceptible to contaminants.



Stafford County's water treatment plants and distribution system were in compliance for microbiological testing for 2012. **Total Coliform:** 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 performed to determine if harmful bacteria are present in the water supply. If the limit is exceeded, the water supplier must notify the public by newspaper, radio or television.

We are pleased to report there were no positive bacteriological samples taken from the Camp Barrett distribution system (TBS/DOJ/WTB) in 2012.

The Distribution System

We encourage our customers to contact us to report their observations. At that time, we will visit the site and determine if we need to run additional tests.

If you have any questions about this report or concerning your water utility, please contact Mr. Larry Weedon, Utility and Energy Manager at (703) 784-2246 or (703) 432-0698.

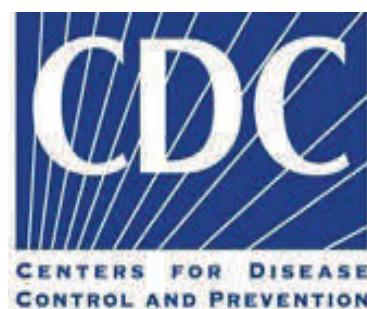
Should Some People Take Special Precautions?

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, 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.

USEPA / Center for Disease Control and Prevention (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 be accumulated 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.

Lead and Copper

The lead levels found in samples taken on base are well below regulatory limits.

The USEPA drinking water hot line can answer your questions about lead contamination. More information about contaminants and potential health effects can be obtained by calling the *USEPA Safe Drinking Water Hotline at 1-800-426-4791*.



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.

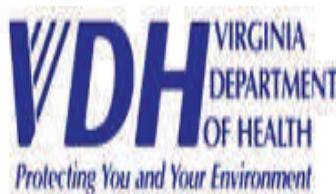
Marine Corps Base Quantico is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. *When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 15 to 30 seconds, 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 *USEPA Safe Drinking Water Hotline at 1-800-426-4791 or visit http://www.epa.gov/safewater/lead*.

2012 MCB Quantico Annual Drinking Water Quality Report

Camp Barrett Water System (TBS/DOJ/WTB)

Additional Monitoring



The Individual Distribution System Evaluation (IDSE)

In March 2010 USEPA and VDH approved the Base IDSE plan. The sampling is scheduled to begin in October 2013. This

evaluation of the distribution system will allow the Base to better monitor disinfection byproducts in the distribution system. Once this information has been obtained and evaluated, the Base will know where to make necessary changes in the distribution system or treatment process.

Conclusion

Thank you for allowing us to continue providing your family with clean, quality water this past year. In order to maintain a safe and dependable water supply we sometimes need to make improvements that will benefit all of our customers.

As announced in the Base newspaper, *The Quantico Sentry*, water mains and fire hydrants are flushed twice a year. This may cause temporary water discoloration. We apologize for any inconvenience. Our goal is to provide water of excellent quality to every customer. We in the Utilities Section, work around the clock to provide top quality water to every tap.

Our customers can help protect themselves and our water system by careful use of this resource, which is the heart of our community, our way of life and our children's future.



Stay Hydrated!

Our energy level is greatly affected by the amount of water we drink. A 5% drop in body fluids will cause a 25-30% loss of energy in the average person.

If you lose 5% of your body's water, you will likely run a fever.

If you lose 10% of your body's water, you will have difficulty moving and may not be able to move at all.

Losing 12% of your body's water can result in death.

Most people can exist for over 30 days without food, but only 4-7 days without water.

Even mild dehydration will slow down metabolism as much as 3%.

One glass of water will reduce midnight hunger pangs for most people.

Water leaves the stomach five minutes after consumption.

Lack of water is one of the primary triggers of daytime fatigue.

Preliminary research indicates that 8-10 glasses of water a day could significantly ease back and joint pain for up to 80% of sufferers.

A mere 2% drop in body water can trigger fuzzy, short-term memory, trouble with basic math, and difficulty focusing on the computer screen or on a printed page.



Quantico Marine Corps Base Water Quality Report Camp Barrett 2012