

Moody 2017 Annual Drinking Water Quality Report

(Consumer Confidence Report)

GA Water System Name: Moody Main Base

GA Water System I.D. Number: 1850125

Is my water safe?

The Bioenvironmental Engineering Flight of the 23d Medical Group is pleased to report that the Moody AFB community drinking water **is safe** for consumption. Your drinking water met safety and quality standards set by the State of Georgia and the Environmental Protection Agency (EPA) during calendar year 2017, however there was one monitoring violation during the month of February (see attachment for details). This annual Consumer Confidence Report provides Moody AFB members with a detailed account of all monitoring and testing results gathered from water quality testing from 1 January through 31 December 2017. You can contact the Bioenvironmental Engineering Flight at (229) 257-4747 if you have any questions regarding this report

In order to ensure that tap water is safe to drink, the EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. The 23d Medical Group is committed to ensuring the Moody AFB community is continually provided safe, dependable drinking water.

Where does my water come from?

The drinking water being delivered to you is pumped from the Floridan Aquifer, a groundwater source, and then processed through a Nano-filtration treatment system. It then travels through a network of underground pipes known as a distribution system.

Description of Water Treatment Process

Your water is treated by filtration and disinfection. Filtration removes particles suspended in the source water. Particles typically include clays and silts, natural organic matter, iron and manganese, and microorganisms. Your water is then treated by disinfection. Disinfection involves the addition of chlorine (in some form) or other disinfectants to kill bacteria and other microorganisms (viruses, cysts, etc.) that may be in the water.

Why might contaminants be in my drinking water?

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 contaminants and potential health effects can be obtained by calling the EPA's 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 materials, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water BEFORE it is treated include:

- (A) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment facilities, septic systems, agricultural livestock operations, and wildlife.
- (B) Inorganic contaminants, such as salts and metals, which can occur naturally or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- (C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- (D) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, can also come from gas stations, urban storm water runoff, and septic systems.
- (E) Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

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Do I need to take special precautions?

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 for infections. These people should seek advice about drinking water from their health care providers. EPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Water Drinking Hotline (800-426-4791).

How can I get involved?

This Consumer Confidence Report includes all of the required elements under the CCR Guidance and Preparation Manual and is legally sufficient. If you would like more information on how the drinking water testing process is conducted or information on any potential meetings in regards to the community drinking water, please contact the Bioenvironmental Engineering Flight at (229) 257-4747.

Additional Information for Lead

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and children. Lead in drinking water comes primarily from materials and components associated with service lines and home plumbing. The Moody AFB Water Plant 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 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may request 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 (1-800-426-4791) or at <http://www.epa.gov/ground-water-and-drinking-water/basic-information-about-lead-drinking-water>.

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Unless otherwise noted, the table below lists all of the drinking water contaminants that were sampled for and analyzed during the calendar year of this report. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not vary significantly from year to year.

<u>Contaminants</u>	<u>MCLG or MRDLG</u>	<u>MCL, AL, or MRDL</u>	<u>Your Water's Range</u>	<u>Sample Date</u>	<u>Violation</u>	<u>Typical Source</u>
Disinfectants & Disinfectant By-Products						
Total Chlorine (ppm)	4	4	0.2 – 2.2	Monthly	No	Water additive used to control microbes
Haloacetic Acids ¹ (HAA5) (ppb)	N/A	60	4.2	August	No	By-product of drinking water disinfection
Total Trihalomethanes ² (TTHMs) (ppb)	N/A	80	8.03	August	No	By-product of drinking water disinfection
(1) Sum of the concentrations of all five haloacetic acids as an annual average						
(2) Sum of the concentrations of all four trihalomethanes as an annual average						
Inorganic Contaminants						
Fluoride (ppm)	2	2	0.7 – 1.1	Monthly	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Nitrate (ppm)	10	10	ND	July	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Nitrite (ppm)	1	1	ND	July	No	
Sodium (ppb)	N/A	MNR	4.3	2015	No	Released naturally into water through mineral deposits in ground water
Lead (ppm) ¹	0	15	ND	2015	No	Corrosion of household plumbing systems; Erosion of natural deposits
Copper (ppm) ¹	1.3	1.3	ND	2015	No	
(1) Lead and copper sampling was performed at 20 different Quiet Pines residences. All samples had NO DETECTABLE LEVELS of lead or copper.						
Organic Contaminants						
In October 2015, we tested for 22 organic chemicals for which the state and EPA have set standards and are pleased to announce that we found NO DETECTABLE LEVELS of those chemicals.						
Radionuclides						
Combined Radium (pCi/L)	0	5	< 1	2015	No	Erosion of natural deposits
Gross Alpha (pCi/L)	0	15	< 3	2015	No	Erosion of natural deposits of certain minerals that are radioactive and may emit a form of radiation known as alpha radiation
Microbiological Contaminants						
Total Coliform	0	0	ND	Monthly	No	Naturally present in the environment
Fecal coliform or <i>E.coli</i> bacteria	0	0	ND	Monthly	No	Human and animal fecal waste
Note: A microbiological violation occurs when a routine sample and a repeat sample, in any given month, are positive for total coliform; or if any one sample is positive for fecal coliform or <i>E. coli</i> .						

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Unit Descriptions

<u>Term</u>	<u>Definition</u>
ppm	Parts per million, or milligrams per liter (mg/L)
ppb	Parts per billion, or micrograms per liter ($\mu\text{g/L}$)
pCi/L	Picocuries per liter, measure of the radioactivity in water
N/A	Not applicable
ND	Not detected
MNR	Monitored, Not Regulated

Important Drinking Water Definitions

<u>Term</u>	<u>Definition</u>
MCLG	Maximum Contaminant Level Goal: <i>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.</i>
MCL	Maximum Contaminant Level: <i>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.</i>
AL	Action Level: <i>The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.</i>
MRDLG	Maximum Residual Disinfection Level Goal: <i>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.</i>
MRDL	Maximum Residual Disinfectant Level: <i>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.</i>

For more information please contact:

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IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Monitoring Requirements Not Met for USAF-Moody Air Force Base-Main

Our water system violated a Georgia Environmental Protection Division drinking water requirement. There is no need to be alarmed or concerned since no health standards were exceeded nor were any operations changed that would affect your drinking water quality. Even though this was not an emergency, as our customers, you have a right to know what happened and what was done to correct this situation.

What happened?

We collected the required samples one day early, and thus did not adequately collect samples during the month of February of 2017. Specifically, we are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During the compliance period of 2/1/2017 to 2/28/2017, we did not complete all monitoring or testing for Total Coliform and therefore cannot be sure of the quality of your drinking water during that time.

Each month, seven samples are required to be analyzed every month for compliance. Of the seven samples submitted for February 2017, four samples were not counted for monthly compliance because they were drawn on 31 January. However, those four samples were still analyzed and met quality standards.

What should I do?

There is nothing you need to do at this time.

What has been done?

The Bioenvironmental Engineering (BE) office has since projected each water sampling day to ensure monthly compliance is met while also ensuring there are no delays in shipment to the lab for analysis.

We will continue to do all we can to ensure you are provided quality drinking water. For more information, please contact the BE office at 229-257-4747 or email us at usaf.moody.23-mdg.mbx.bio-environmental@mail.mil.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly. You can do this by posting this notice in a public place or distributing copies by hand or mail.

This notice is being sent to you by USAF-Moody Air Force Base-Main

State Water System ID#: GA1850125

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