



2018 Annual

Water Quality Report

Fort Meade
PWS ID: MD0020012



AMERICAN WATER
Military Services

This report contains important information about your drinking water. If you do not understand it, please have someone explain or translate it for you.

Este informe contiene información muy importante sobre su agua potable. Si no lo comprende, favor acudir a alguien que se lo pueda traducir o explicar.

Continuing Our Commitment

A Message From Military Services Group President Mark K McDonough

American Water's Military Services Group owns and operates water and wastewater utilities under the Utilities Privatization program and proudly provides water and wastewater services to military communities around the country, including yours. Our Company's Vision – "We Keep Life Flowing" drives everything we do for you, our customers. To reinforce our vision and maintain your trust, it's important that we share with you information about our commitment to providing high-quality water service.

I am pleased to provide you with the 2018 Annual Water Quality Report with detailed information about the source and quality of your drinking water. We have prepared this report using the data from water quality testing conducted for your local water system from January through December 2018. You'll find that we supply water that surpasses or meets all federal and state water quality regulations.

With equal importance, we place a strong focus on acting as stewards of our environment. In all of the communities we serve, we work closely with the local directorates of public works, civil engineering squadrons, local environmental departments and state regulatory agencies to protect environmental quality, educate customers on how to use water wisely, and ensure the high quality of your drinking water every day.

At American Water, our values – safety, trust, environmental leadership, teamwork, and high performance – mean more than simply making water available "on-demand". It means every employee working to deliver a key resource for public health, fire protection, the economy and the overall quality of life we enjoy – We Keep Life Flowing. For more information or for additional copies of this report, visit us online at www.amwater.com

Sincerely,

Mark K McDonough

President – American Water's Military Services Group

Special Health Information

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as those with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants may be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC (Centers for Disease Control and Prevention) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791) or by calling our Customer Service Center at (800) 685-8660.

Water Information Sources

The Military Services Group of American Water provides water and wastewater contract services to military installations across the country as part of the federal government's Utility Privatization Program. It operates and maintains the water and/or wastewater assets at Fort A.P. Hill, VA., Fort Sill, OK., Fort Leavenworth, KS., Scott Air Force Base, Ill., Fort Rucker, AL., Fort Meade, MD., Fort Belvoir, VA., Fort Hood, TX, Fort Polk, LA., Picatinny Arsenal, NJ., Hill Air Force Base, UT and Vandenberg Air Force Base, CA., Wright-Patterson Air Force Base, OH and Fort Leonard Wood, MO.

Fort Meade American Water Enterprises Military Services Group provides water service to approximately 62,234 customers at the Fort Meade Military Post located in Anne Arundel County, Maryland. With a history dating back to 1886, American Water is the largest and most geographically diverse U.S. publicly traded water and wastewater utility company. The company employs more than 7,100 dedicated professionals who provide regulated and market-based drinking water, wastewater and other related services to more than 14 million people in 46 states and Ontario, Canada. American Water provides safe, clean, affordable and reliable water services to our customers to make sure we keep their lives flowing. For more information, visit amwater.com and follow American Water on Twitter, Facebook and LinkedIn.

The web sites of US EPA Office of Water, the Centers for Disease Control and Prevention, and Maryland Department of the Environment (MDE) provide a substantial amount of information on many issues relating to water resources, water conservation and public health. You may visit these sites as well as American Water's website at the following addresses:

United States Environmental Protection Agency

www.epa.gov/safewater

Maryland Department of the Environment

www.mde.maryland.gov

American Water

www.amwater.com

American Water Works Association

www.awwa.org

Safe Drinking Water Hotline: (800) 426-4791

What is a Water Quality Report?

To comply with Maryland Department of the Environment (MDE) and the U.S. Environmental Protection Agency (EPA) regulations, American Water issues a report annually describing the quality of your drinking water. The purpose of this report is to provide you an overview of last year's (2017) drinking water quality. It includes details about where your water comes from and what it contains. We hope the report will raise your understanding of drinking water issues and awareness of the need to protect your drinking water sources. For more information, please contact Charlie Cole, 301-289-7035.

How is Your Water Treated?

Your water is treated to remove contaminants and a disinfectant is added to protect you against microbial contaminants. The Safe Drinking Water Act (SDWA) required states to develop a Source Water Assessment (SWA) for each public water supply that treats and distributes water in order to identify potential contamination sources. The state has completed an assessment of our source water. For results of the assessment, please contact us at 301-289-7035 to request a copy.

Share This Report

You are encouraged to share this important information with water users who are not customers of Fort Meade American Water and therefore do not receive this report directly.

Water Conservation Tips

Conservation measures you can use inside your home include:

- Fix leaking faucets, pipes, toilets, etc.
- Replace old fixtures; install water-saving devices in faucets, toilets and appliances.
- Wash only full loads of laundry.
- Do not use the toilet for trash disposal.
- Take shorter showers.
- Do not let the water run while shaving or brushing teeth.
- Soak dishes before washing.
- Run the dishwasher only when full.

You can conserve outdoors as well:

- Water the lawn and garden in the early morning or evening.
- Use mulch around plants and shrubs.
- Repair leaks in faucets and hoses.
- Use water-saving nozzles.
- Use water from a bucket to wash your car, and save the hose for rinsing.

Where Does My Water Come From?

The source of water supply for Fort Meade consists of (6) groundwater wells located on Ft Meade. The wells pump water from the Patuxent Aquifer.

Substances Expected to be in Drinking Water

To ensure that tap water is of high quality, U.S. Environmental Protection Agency prescribes regulations limiting the amount of certain substances in water provided by public water systems. U.S. Food and Drug Administration regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

Our water system tested a minimum of 70 samples per month in accordance with the Total Coliform Rule for microbiological contaminants. Coliform bacteria are usually harmless, but their presence in water can be an indication of disease-causing bacteria. When coliform bacteria are found, special follow-up tests are done to determine if harmful bacteria are present in the water supply. If this limit is exceeded, the water supplier must notify the public.

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 Fort Meade water treatment processes are designed to reduce any such substances to levels well below any health concern. The source of drinking water (both tap water and bottled water) includes 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:

Microbial Contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, or wildlife.

Inorganic Contaminants, such as salts and metals, which can be naturally occurring or may 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 by-products of industrial processes and petroleum production, and may also come from gas stations, urban storm water runoff, and septic systems.

Radioactive Contaminants, which can be naturally occurring or may be the result of oil and gas production and mining activities.

For more information about contaminants and potential health effects, call the U.S. EPA's Safe Drinking Water Hotline at (800) 426-4791.

Information About Lead

Is there lead in my water?

Although we regularly test lead levels in your drinking water, it is possible that lead and/or copper levels at your home are higher because of materials used in your plumbing. If present, elevated levels of lead can cause serious 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. Fort Meade American Water is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. American Water takes steps to reduce the potential for lead to leach from your pipes into the water. This is accomplished by adding a corrosion inhibitor to the water leaving our treatment facilities. There are steps that you can take to reduce your household's exposure to lead in drinking water. When your water has been sitting for several hours, you can minimize the potential for lead and copper 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 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 1-800-426-4791 or <http://www.epa.gov/safewater/lead>.

How to Read the Data Tables

American Water conducts extensive monitoring to ensure that your water meets all water quality standards. The results of our monitoring are reported in the following tables. While monitoring was conducted in 2017, MDE requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than one year old. For help with interpreting this table, see the "Table Definitions" section.

Starting with a **Substance**, read across. **Year Sampled** is usually in 2017 or year prior. **MCL** shows the highest level of substance (contaminant) allowed. **MCLG** is the goal level for that substance (this may be lower than what is allowed). **Average Amount Detected** represents the measured amount (less is better). **Range** tells the highest and lowest amounts measured. A **Yes** under **Compliance Achieved** means the amount of the substance met government requirements. **Typical Source** tells where the substance usually originates. Unregulated substances are measured, but maximum allowed contaminant levels have not been established by the government.

Table Definitions and Abbreviations

- **Action Level:** The concentration of a contaminant that, if exceeded, triggers treatment or other requirements that a water system must follow.
- **MCL (Maximum Contaminant Level):** 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.
- **MCLG (Maximum Contaminant Level Goal):** 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.
- **MRDL (Maximum Residual Disinfectant Level):** The highest level of disinfectant routinely allowed in drinking water. Addition of a disinfectant is necessary for control of microbial contaminants.
- **MRDLG (Maximum Residual Disinfectant Level Goal):** The level of 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 contamination.
- **mrem/year (millirems per year):** a measure of radiation absorbed by the body.
- **MFL (Million Fibers per Liter):** a measure of the presence of asbestos fibers that are longer than 10 micrometers.
- **NA:** Not applicable
- **ND:** Not detected.
- **NTU (Nephelometric Turbidity Units):** Measurement of the clarity, or turbidity, of water.
- **pCi/L (picocuries per liter):** Measurement of the natural rate of disintegration of radioactive contaminants in water (also beta particles).
- **pH:** A measurement of acidity, 7.0 being neutral.
- **ppm (parts per million):** One part substance per million parts water, or milligrams per liter.
- **ppb (parts per billion):** One part substance per billion parts water, or micrograms per liter.
- **ppt (parts per trillion):** One part substance per trillion parts water, or nanograms per liter.
- **RAA (Running Annual Average):** average results for the most recent four quarters.
- **SMCL (Secondary Maximum Contaminant Level):** recommended level for a contaminant that is not regulated and has no MCL.
- **TT (Treatment Technique):** A required process intended to reduce the level of a contaminant in drinking water.

Water Quality Statement

The staff and management of the Fort Meade American Water O&M water utility are pleased to report that the water provided to you during the past year met all the State and Federal standards set for drinking water. The 1996 amendments to the Federal Safe Drinking Water Act require that Fort Meade deliver a brief annual water quality report to all customers. Fort Meade treats water from 6 ground water wells and provides safe drinking water to your residence through the Ft. Meade distribution system which includes pump stations, elevated ground storage tanks, and water pipes.

REGULATED PARAMETERS

Substance (units)	Year Sampled	MCL	MCLG	Average Amount Detected	Range	Compliance Achieved	Typical Source
Inorganic Compounds							
Arsenic (ppb)	2018	10	0	<2	<2	Yes	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
Barium (ppm)	2018	2	2	0.00536	0.00536	Yes	Discharge of drilling waters; Discharge from metal refineries; Erosion of natural deposits
Beryllium (ppb)	2018	4	4	< 2	< 2	Yes	Discharge from metal refineries and coal-burning factories; Discharge from electrical, aerospace, and defense industries
Cadmium (ppb)	2018	5	5	< 2	< 2	Yes	Corrosion of galvanized pipes; Erosion of natural deposits; Metal refineries discharge; Waste batteries and paint runoff
Chromium (ppb)	2018	100	100	<2	<2	Yes	Discharge from steel and pulp mills
Fluoride (ppm)	2016	4	4	0.64	0.64	Yes	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Mercury (ppb)	2018	2	2	<5	<5	Yes	Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills and cropland
Nitrate (ppm)	2018	10	10	<2.0	<2.0	Yes	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Selenium (ppb)	2018	50	50	<5	<5	Yes	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines
Thallium (ppb)	2018	2	0.5	<1	<1	Yes	Leaching from ore processing sites; Discharge from electronics, glass and drug factories
Radiological Contaminants							
Combined Radium 226-228 (pCi/L)	2014	5	0	2	2	Yes	Erosion of natural deposits
Gross Alpha (pCi/L)	2014	15	0	2.6	2.6	Yes	Erosion of natural deposits
Synthetic Organic Chemicals							
Atrazine (ppb)	2017	3	3	ND	ND	Yes	Runoff from herbicide used on row crops
Alachlor (ppb)	2017	2	0	ND	ND	Yes	Runoff from herbicide used on row crops
Disinfectant By Products (Stage 2)							
Haloacetic Acids (HAA5) (ppb)	2018	60	NA	.64	0 - 4.0	Yes	By-product of drinking water disinfection
	2018	Highest Locational Running Annual Average		1.4			
Total Trihalomethanes (TTHMs) (ppb)	2018	80	NA	6.15	1.8 - 16.8	Yes	By-product of drinking water disinfection
	2018	Highest Locational Running Annual Average		8.6			
Chlorine (ppm)	2018	MRDL = 4	MRDLG = 4	1.6	1.2 - 1.8	Yes	Disinfectant water additive used to control microbes

Microbiological Contaminants								
Substance (units)	Year Sampled	MCL	MCLG	Tested Positive	Compliance Achieved	Dates of Positives	Typical Source	
Coliform, Total (TCR)	2018	5% of monthly samples are positive	0	0	Yes	N/A	Naturally present in the environment	
Fecal Coliform (E. coli)	2018	5% of monthly samples are positive	0	0	Yes	N/A	Human or Animal fecal waste	
Lead and Copper								
Substance (units)	Year Sampled	AL	MCLG	Range	90th Percentile	Sites Above AL	Compliance Achieved	Typical Source
Lead (ppb)	2017	15	0	<2	<2	0	Yes	Corrosion of household plumbing
Copper (ppm)	2017	1.3	0	<0.002 - 0.111	0.031	0	Yes	Corrosion of household plumbing

UNREGULATED CONTAMINANTS

Substance (units)	Year Sampled	Highest Value	Range
Alkalinity, Total (ppm)	2018	26	17 - 26
Conductivity (µmhos/cm)	2018	85	55 - 85
Hardness, Total (as CaCO ₃ , ppm)	2018	16	5 - 16
Methyl tert-butyl ether (ppb)	2018	ND	ND
Nickel (ppm)	2018	0.00464	0.00464
Phosphorus, Total (ppm)	2017	1.27	0.71 - 1.27
Sodium (ppm)	2018	10.7	10.7
Chloroform (ppb)	2018	11.8	1.0 - 11.8

SECONDARY CONTAMINANTS

Substance (units)	Year Sampled	Highest Value	Range	SMCL
Fluoride (ppm)	2018	0.93	0.49 - 0.93	2.0
Iron (ppm)	2018	0.05	0.00 - 0.05	0.3
pH (std unit)	2018	8.4	7.6 - 8.4	6.5 - 8.5
Sulfate (ppm)	2007	6.9	6.9	250
Zinc (ppm)	2015	0.30	0.00 - 0.30	5

UNREGULATED CONTAMINANTS MONITORING RULE (UCMR)

EPA uses the Unregulated Contaminant Monitoring Rule (UCMR) to collect data for contaminants that are suspected to be present in drinking water and do not have health-based standards set under the Safe Drinking Water Act (SDWA). UCMR monitors no more than 30 contaminants every 5 years. It is important to note that the EPA's selection of contaminants for a particular UCMR cycle is largely based on a review of the Contaminant Candidate List (CCL), meaning that the contaminants monitored can differ each monitoring period. All analytical results are stored in the National Contaminant Occurrence Database (NCOD). Occurrence data are collected through UCMR to support the Administrator's determination of whether to regulate particular contaminants in the interest of protecting public health.

Substance (units)	Year Sampled	Highest Value	Range
Manganese, (ppb)	2018	2.0	1.0 - 2.0
Dichloroacetic Acid, (ppb)	2018	1.3	0.34 - 1.3
Bromochloroacetic Acid, (ppb)	2018	0.61	0.33 - 0.61
Trichloroacetic Acid, (ppb)	2018	0.67	0.67