

Box Holder / Water Consumer USAYPG Yuma, AZ 85365-9498

2024 Water Quality Report
Consumer Confidence Report
Howard Cantonment Area

For More Information...
This Consumer Confidence Report was prepared by the Environmental Sciences Division, USAG Yuma Proving Ground. For questions, information about drinking water or additional copies of this report please contact Angela Ballinger, Safe Drinking Water Program Manager, at (928) 328-2977, or Mark Schauer of the Yuma Proving Ground Public Affairs Office at (928) 328-6189.



# 2024 Water Quality Report

# Consumer Confidence Report

Howard Cantonment Area
Public Water System (AZ04-14403)

Staff Sergeant Nick Bacon U.S. Army Medal of Honor Recipient

Please Note: This Consumer Confidence Report (CCR) covers only the potable water system servicing the Howard Cantonment Area (HCA) at U.S. Army Garrison (USAG) Yuma Proving Ground (YPG). No other water systems are covered or otherwise referenced in this information.

# Your 2024 Water Quality CONSUMER CONFIDENCE REPORT

U.S. Army Garrison Yuma Proving Ground

This report covers the Howard Cantonment Area AZ04-14403.

**Issued June 2025** 

# Our Continuing Commitment to You

YPG and its trained, certified water quality professionals are committed to:

- Providing high quality, safe drinking water to its residents and workforce
- Monitoring and testing the water we provide to ensure it is always safe to drink
- Providing opportunities for residents and workforce to ask questions and learn during YPG's Safety Week held each year in February, in resident town hall meetings, and via articles in the YPG Outpost



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## Dear Valued Water Consumer,

Thank you for taking the time to read this annual water report. We are here to answer any questions or concerns you may have. Certified laboratory results show our water is well below the federal guidelines for allowable constituents in drinking water. The proof is in the data!

YPG is proactive in providing safe, quality water to its residents and workforce throughout all three cantonment areas supporting the mission. Although this report's data covers the Howard Cantonment Area

(HCA) only, the general information is relevant to drinking water across the United States.

Our water system provided drinking water that met all regulatory requirements during 2024.

If you have any questions about the quality of your water, please contact Angela Ballinger, Safe Drinking Water Program Manager, at 928-328-2977 or angela.m.ballinger.civ@army.mil. We'd be happy to answer any questions you may have. Thank you for taking interest in your drinking water.

Sincerely,

Your Public Works Directorate

### Introduction

This is an annual report for the Howard Cantonment Area on the quality of water delivered by YPG. Under the "Consumer Confidence Reporting Rule" of the Safe Drinking Water Act (SDWA), community water systems are required to report this water quality information to the consuming public. Presented in this report is information on the source of our water, its constituents, and the health

risks associated with any contaminants.

HCA is regulated as a <u>community water system</u> because there are residents living within the service area year-round. This type of system requires additional monitoring of certain contaminants which other systems may not need due to the possibility of sensitive populations



consuming the water (i.e. children and elderly).

For more information on water system classifications, please visit https://www.epa.gov/dwreginfo/information-about-public-water-systems.

## **Vulnerable Population**

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. In order to ensure that tap water is safe to drink, the Environmental Protection Agency (EPA) prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

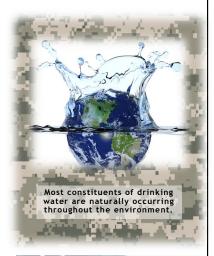
Some people may be more vulnerable to contaminants in drinking water than the

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.

More information about contaminants, their potential health effects, and the appropriate means to lessen the risk can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 800-426-4791 or visiting the website epa.gov/safewater.

**Definitions** 

Abbreviations/Acronyms



#### Primary vs. Secondary Drinking Water Regulations

The EPA sets Current Drinking Water Standards for drinking water. These standards are made up of the National Primary Drinking Water Regulations and the National Secondary Drinking Water Regulations.

The *Primary Standards* set levels of contaminants that may pose a health risk when present in drinking water supplies and are known or anticipated to occur in public water systems. The Primary Standards contaminants are divided into Inorganic Chemicals, Organic Chemicals, Radionuclides, and Microorganisms.

The Secondary Standards are non-enforceable guidelines that establish recommendations for contaminants that may cause cosmetic effects such as skin or tooth discoloration and aesthetic effects such as taste, odor, and color. The EPA recommends Secondary Standards for water treatment systems but does not require systems to comply.



# Questions or Concerns?

YPG Resident Town Hall meetings are held quarterly. For a current schedule visit www.desertoasiscommunities.com.

YPG Town Hall meetings are held intermittently during the year. When meetings are scheduled, they are announced via email.

### Substances in Drinking Water

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 are any physical, chemical, biological, or radiological substance or matter in water. Contaminants that may be present in source water include:

<u>Microbial contaminants</u>, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, or wildlife.

<u>Inorganic contaminants</u>, such as salts and metals, which can occur naturally in the soil or <u>groundwater or may result from urban stormwater runoff</u>, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

<u>Pesticides</u> and <u>herbicides</u>, which may come from a variety of sources such as agriculture, urban stormwater runoff, or residential uses.

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

<u>Radioactive contaminants</u>, 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.



## FAQ: Frequently Asked Questions!

What if my water tastes, smells, or looks strange?

While certain things can affect the flavor, odor, and appearance of your tap water, not all of them are necessarily harmful. Chlorine added for safety can sometimes affect taste. Contaminants like sulfur can impact the smell, while iron will cause discoloration and staining. The overall amount of total dissolved solids (TDS) in your tap water will affect the taste, smell, and appearance. While these issues are *not harmful*, they can certainly be a nuisance. The potentially harmful contaminants are monitored regularly and are included in this report.

Is bottled water safer and cleaner than tap water?

More than half of all bottled water comes from tap water that has been lightly treated. Some tap waters may not taste as pleasant as bottled waters; it does not mean the tap water is of poor quality. It may simply be due to chlorination or a higher mineral content. This means you could be wasting your money and creating unnecessary waste by drinking bottled water. Tap water, regulated by the EPA, is tested for contaminants more frequently than bottled water, which is regulated by the FDA.

How can I be sure my water is safe to drink?

The most trustworthy way to find out what's in your water and its safety is to send samples to a state-certified lab and have it tested. You can trust that YPG does this and follows all state, federal, and Army regulations for providing safe drinking water. If public water is ever unsafe to drink, the water system is obligated by law to inform its water users. In this case, no news is good news!

Are there filters that I can use?

Due to the complexity of our installation, tap filters are NOT recommended at YPG. The lack of proper upkeep can create an opportunity for harmful bacteria to grow, creating a problem that wasn't there previously. All tap water YPG provides is safe to consume. Please review the data provided if you have concerns. If you choose to install a filter within your home, please follow manufacturer guidelines for replacing filters.

• Who regulates the water we drink and where samples are taken?

The EPA, along with ADEQ, and the U.S. Army are in charge of overseeing the water that comes out of your taps within YPG. The EPA prescribes very specific rules that dictate where we sample for contaminants (both within buildings and at the water treatment plant). These rules seek to protect public health and tell us where to sample according to federal regulations. These selected sample locations are tracked and kept on file with ADEQ.

What are the recent EPA updates to drinking water regulations for PFAS? The EPA's new PFAS rule introduces significant changes to improve the clarity and accessibility of drinking water quality reports. However, these updates will not impact reports for 2024. Previously, the EPA had established health advisories (HAs) for PFAS, with interim levels set at 0.004 parts per trillion (ppt) for PFOA and 0.02 ppt for PFOS, which are non-enforceable guidelines. YPG completed Army-required monitoring in November 2023 and those results are provided in this report. The new Maximum Contaminant Levels (MCLs), which are legally enforceable, are set at 4.0 ppt for both PFOA and PFOS. These MCLs will become enforceable starting in 2029, giving public water systems time to comply with the new standards. Initial monitoring for PFAS must be completed by April 2027, marking the transition to compliance monitoring.

### What We Do at YPG

At YPG we monitor our community water system for every federally regulated contaminant. The contaminants listed on pages 6-7 are ones which were detected in your water; there are many additional contaminants that



were monitored for but were not detected in your water and therefore are not listed in this report. Drinking water samples are collected from the treatment plant at the entry point to the distribution system (EPDS) and from water

taps in the service area as required by federal regulations. Samples are sent to an Arizona Department of Health Services (ADHS) and EPA accredited laboratory for analysis. Results for the most recent monitoring through the end of 2024 for each contaminant are provided in this CCR.

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 representative, is more than one year old.

ADEQ has the authority to enforce federal regulations regarding drinking water. The results are reported to ADEQ and also kept on file by the YPG Environmental Sciences Division.



YPG follows all federal regulations under the Safe Drinking Water Act.



### **About Lead and Copper**

Lead and copper are rarely found in source waters; however, both of these metals can enter your water by leaching from household plumbing. Water that sits in your pipes for long periods may dissolve tiny amounts of lead and/or copper into household water.

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.

YPG is responsible for providing high quality drinking water but cannot control the variety of materials used in plumbing components. While HCA monitoring consistently shows levels well below the Action Level (AL), due to the age of some homes it is reasonable to assume there are outdated plumbing materials throughout the distribution

system that could contribute to the levels of lead and/or copper.

Corrosion of pipes, plumbing fittings and fixtures may cause metals, including lead and copper, to enter drinking water. To assess corrosion of lead and copper, HCA conducts tap sampling for lead and copper at selected sites every 3 years as required by the rule. HCA treats water using blended phosphates and soda ash to control corrosion.

Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water.

To address lead in drinking water, public

water systems were required to develop and maintain an inventory of service line materials by Oct 16, 2024. Developing an inventory and identifying the location of lead service lines (LSL) is the first step for beginning LSL replacement and protecting public health. Please contact Angela Ballinger, Safe Drinking Water Program Manager, at 928-328-2977 or angela.m.ballinger.civ@army.mil if you would like to view or obtain more information about the lead service line inventory, more information about your residence/building components, or results for lead sampling that has been done.

If you are concerned about lead in your water, you may choose 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 at www.epa.gov/safewater/lead.



## Facts About Total Coliform Bacteria

Coliform bacteria are naturally present in the environment and are generally not harmful. Coliform bacteria may occur in soil, vegetation, animal waste, sewage, and surface waters.

YPG Howard Cantonment Area routinely tests for the presence of coliform bacteria as an indicator of the sanitary quality of drinking water.

HCA analyzed 48 coliform samples in 2024, <u>zero</u> of which were positive for total coliform bacteria. The maximum allowed by EPA for coliforms is one positive in any month.

A positive coliform test result does not necessarily mean a maximum contaminant level (MCL) has been exceeded, or that there is a problem in the water system.

More information and general guidelines on ways to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the EPA's Safe Drinking Water Hotline at 1(800) 426-4791 or at https:// www.epa.gov/ground-water-and-drinking-water.

# UNITED STATES e informat vur sour vis

For more information on protecting your source water, please visit https://www.epa.gov/ sourcewaterprotection



## Per- and Polyfluoroalkyl Substances (PFAS)

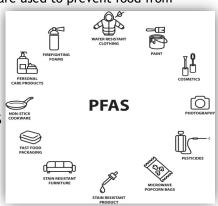
PFAS are man-made chemicals added to many industrial and consumer products to improve their performance because these chemicals increase resistance to heat, stains, water, and grease. Commercial and consumer use of PFAS started in the 1950s. PFAS are used to prevent food from

sticking to cookware, making sofas and carpets resistant to stains, and making clothes and mattresses more waterproof. PFAS are also found in food packaging and firefighting materials.

PFAS can become a contaminant if found in public water systems, drinking water wells, soil, surface and groundwater and outdoor air near industrial sources or areas with frequent PFAS use, and other areas in the environment.

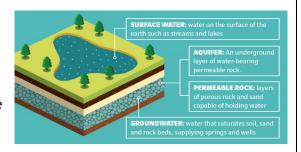
The U.S. Army has required YPG to sample drinking water for PFAS since 2016. The most recent results are provided to you on Page 7. To learn more about this group of chemicals, we encourage you to visit the ADEQ website at https://www.azdeq.gov/pfas-resources. You may also read the ADEQ-provided "PFAS 101 Fact Sheet" or view ADEQ's Introduction to PFAS video on YouTube at https://www.youtube.com/watch?v=t44kSh0uKXE.

If you have any questions, please contact Angela Ballinger, (928) 328-2977, angela.m.ballinger.civ@army.mil.



### The Source of Your Drinking Water

Our water supply for HCA is derived from groundwater pumped from the Coarse Gravel Aquifer, which lies in the ancient streambed of the Colorado River. The water is pumped from two wells that range in depth from 140 feet to 145 feet. Although the minimum depth to groundwater is approximately 29 feet, our tap water is drawn from between 105 feet to 130 feet below the ground surface. The pumped water is then treated through an electrodialysis reversal (EDR) unit to provide quality drinking water. Additionally, our water is chlorinated (treatment technique) to help prevent the growth of disease causing organisms, such as viruses and bacteria.



Arizona Source Water Assessment Program

Making the water safe to drink starts by protecting the place it comes from. We work with state scientists at the Arizona Department of Environmental Quality (ADEQ) to examine water at its source to look for possible pollutants. This is called a Source Water Assessment (SWA). Based on the information available at the time of the assessment on the hydrogeology and land uses around the drinking water source(s) of this public water system, the Arizona Department of Environmental Quality (ADEQ) has given a low vulnerability designation for the degree to which this public water system drinking water source(s) are protected. A low vulnerability designation indicates that most source water protection measures are either already implemented, or the hydrogeology is such that the source water protection measures will have little impact on protection. Further source water assessment information can be found on ADEQ's website: https://azdeq.gov/source-water-protection

### **Protecting Your Water**

Protecting the sources of drinking water helps protect our health. It's everyone's responsibility; here are a



few ways you can help:

- Eliminate excess use of lawn and garden fertilizers and pesticides—they contain hazardous chemicals that can reach your drinking water source
- Pick up after your pets
- Dispose of chemicals properly; take used motor oil to a recycling center

### Low Usage Water Quality

Telework and long weekends can disrupt normal water use of many buildings on Army installations.

Lack of use can cause water quality issues:

- Color, odor and taste changes
- Higher than normal levels of lead and/or copper
- Low levels of disinfectant

#### How Can You Help?

- Flush each faucet point or source for 3-5 minutes
- Flush both hot and cold water at faucets
- For any location with observed discolored or odorous

Flush for an additional 5 minutes or until the water is clear and without odor. If the water does not run clear without odor after 10 minutes of flushing, submit a water quality complaint using the installation water complaint procedure.

For any ongoing issues, please contact Angela Ballinger, Safe Drinking Water Program Manager at (928) 328-2977 or angela.m.ballinger.civ@army.mil

### Information on Detected Contaminants

Many people are concerned about drinking water issues identified by the news media. Elements such as arsenic and mercury, pesticides such as Aldrin and DDT, and bacteria such as E. coli have increased public concerns about the safety of the water they drink.

Our water system provided drinking water that met all regulatory requirements during 2024.

## 2024 Howard Cantonment Area Drinking Water Results

contaminants in drinkin	Drinking Wat				Average	Standard	Sample Date	Monitoring Frequency	Major Sources in Drinking Water	Health Effects
Division Device Inc.	ng water.			enforceable primary	standards and tre	eatment technic	ues that apply	to public water s	ystems. Primary standards and t	reatment techniques protect public health by limiting the levels of
Disinfection Residuals a	and Disinfec	tion By-Products - T	ested at custom	er taps.						
	ppm (mg/L)	MRDL = 4.0	MRDLG = 4.0	1.64	0.12 - 1.64 Average: 0.67	No	Monthly	Monthly	Water additive used to control microbes	Some people who use water containing chlorine well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chlorine well in excess of the MRDL could experience stomach discomfort.
Total Trihalomethanes p (TTHM)	ppb	80	N/A	15.0	8.9 - 15.0	No	July 2024	Annually	By-product of drinking water disinfection	Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.
Haloacetic Acids (HAA5)	ppb	60	N/A	3.3	2.0 - 3.3	No	July 2024	Annually	By-product of drinking water disinfection	Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.
Metals, As a By-Product	ct of Corrosic	on of Consumer's Plu	umbing - Tested	at customer taps.						
Lead p	ppb	AL = 15	0	Highest Level Detected: 25.0  90th Percentile: 1.1	0.29 - 25.0	No <sup>1</sup>	August 2024	Once every 3 years	Corrosion of household plumbing systems; Erosion of natural deposits	Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.
Copper p	ppm	AL = 1.3	1.3	Highest Level Detected: 0.44 90th Percentile: 0.40	0.15 - 0.44	No	August 2024	Once every 3 years	Corrosion of household plumbing systems; Erosion of natural deposits	Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's disease should consult their personal doctor.
Inorganic Chemicals - T	Tested after	treatment.								
Arsenic <sup>1</sup> p <sub>l</sub>	ppb	10	0	1.2	Single Sample	No	January 2023	Once every 9 years	Erosion of natural deposits, runoff from orchards, runoff from glass and electronics production wastes	Some people who drink water containing arsenic in excess of the MCL over many years could experience skin damage or problems with their circulatory system, and may have an increased risk of getting cancer.
Fluoride p <sub>l</sub>	ppm	4.0	4.0	0.51	Single Sample	No	March 2020	Once every 9 years	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories	Some people who drink water containing fluoride in excess of the MCL over many years could get bone disease, including pain and tenderness of the bones. Fluoride in drinking water at half the MCL or more may cause mottling of children's teeth, usually in children less than nine years old. Mottling, also known as dental fluorosis, may include brown staining and/or pitting of the teeth, and occurs only in developing teeth before they erupt from the gums.
Nitrate <sup>2</sup> pp	ppm	10	10	0.055	Single Sample	No	April 2024	Once every 3 years	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits	Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and bluebaby syndrome.
Radionuclides - Tested after treatment.										
Uranium u	ug/L	30	0	2.3±0.7	Single Sample	No	March 2023	Once every 3 years	Erosion of natural deposits	Increased risk of cancer, kidney toxicity.

The EPA has established an action level, or concentration of lead and copper, that is based on a 90th percentile of all samples during a monitoring period. In other words, at least 90 percent of all samples should be below the action level concentration. While a single building at HCA did show elevated levels of lead, this did not cause an action level exceedance. The individual tap was replaced and resampled to ensure occupant safety.



## 2024 Howard Cantonment Area Drinking Water Results

2024 Howard Cantonment Area Drinking Water Results											
Parameter	Units	Highest Level Allowed (EPA's MCL)	Ideal Goal (EPA's MCLG)	HCA Highest Result	Range/ Average	Exceeded Standard	Sample Date	Monitoring Frequency	Major Sources in Drinking Water	Health Effects	
		atory Health-Related S e Primary Standards w		ored for, hov	wever were N	OT detected in y	our water. Reporti	ng non-detected con	taminants is not required, but YPG is rep	oorting for your knowledge and awa	ireness.
Microbiological -	- Tested at cus	tomer taps.									
Total Coliform Bacteria	# positive coliforms	One positive coliform sample per month	0	0	0	No	Monthly	Monthly	Naturally present in the environment	Coliforms are bacteria that indicate bacteria may be present.	ate that other, potentially harmful
Fecal Coliform Bacteria (E. coli)	# positive E. coli	0				ts during 2024 w or Fecal Coliforn		Monthly, if required	Human and animal fecal waste	Fecal coliforms and E. coli are ba that the water may be contamina Microbes in these wastes can caudiarrhea, cramps, nausea, headar may pose a special health risk for the elderly, and people with seve systems.	ted with human or animal wastes. se short-term effects, such as thes, or other symptoms. They infants, young children, some of
Synthetic Organ	nic Compound	s (Last tested March/A	April 2024): 2,4	-D, 2,4,5-TP	(a.k.a. Silvex	(), Acrylamide, A	lachlor, Atrazine, E	Benzo (a) pyrene (PA	H), Carbofuran, Chlordane, Dalapon, Di or, Heptachlor epoxide, Hexachlorobenz	(2-ethylhexyl) adipate, Di (2-ethylh	exyl) phthalate,
(a.k.a. Vydate),	PCBs (Polychl	orinated biphenyls), Pe	entachloropheno	ol, Picloram,	Simazine, To	xaphene					
Dichloromethane	e, 1,2-Dichloro	( <u>Last tested March 20</u> propane, Ethylbenzen ted March 2020): Anti	e, Styrene, Tetr	rachloroethyl	lene, 1,2,4-Ti	richlorobenzene,	1,1,1-Trichloroeth	ane, 1,1,2-Trichloro	-Dichloroethane, 1,1-Dichloroethylene, c ethane, Trichloroethylene, Toluene, Vin elenium, Thallium	cis-1,2 Dichloroethylene, trans-1,2-l yl Chloride, Xylenes	Dichloroethylene,
Parameter	Units	Secondary Stand (EPA's Recomme Highest Level)		nest Kar	nge/ Sprage	xceeded econdary tandard	Sample Date	Monitoring Frequency	Major Sources in Drinking Wate	er	Noticeable Effects Above the Secondary MCL
SECONDARY STAI			on-enforceable	guidelines re	egarding cont	aminants that m	av cause cosmetic e	offects (such as skin	or tooth discoloration) or aesthetic effe	cts (such as taste odor or color) in	drinking water FPA recommends
		systems but does not re								cts (such as taste, odor, or cotor) in	drinking water. Er A recommends
рН	NA	6.5-8.5	7.63		2 - 7.63 Rage: 7.43	o	Monthly	Monthly in conjunction with Total Coliform	The pH level of your drinking water is stands for "potential of hydrogen," is hydrogen found in a substance (in the on a scale that runs from 0 to 14. Se a balance between acid and alkalinit	referring to the amount of is case, water). pH is measured ven is neutral, meaning there is	Low pH: bitter metallic taste; corrosion. High pH: slippery feel; soda taste; deposits.
Total Dissolved Solids (TDS)	mg/L	500	297		- 297 N rage: 225	0	Intermittent throughout each month	Averaged monthly	TDS represents the total concentrati water. TDS is made up of inorganic s of organic matter. Common inorgani water include calcium, magnesium, all cations, and carbonates, nitrates sulfates, which are all anions. Catior and anions are negatively charged io	alts, as well as a small amount c salts that can be found in potassium and sodium, which are , bicarbonates, chlorides and as are positively charged ions	Hardness; deposits; colored water; staining; salty taste.
Unregulated Contaminants											
Sodium	ppm	N/A	44	Sing Sam		/A	March 2023	Once every 3 years	Sodium is the sixth most abundant el distributed in soils, plants, water, ar significant deposits of sodium-contai typically contains higher concentrati surface waters.	nd foods. Most of the world has ining minerals. Groundwater	Sodium is not currently a regulated substance in drinking water; however, it is of interest to some people due to individual health concerns.
Parameter	Units	EPA's Recommended Highest Level	HCA High Leve	est Kar	nge/ erage R	xceeded ecommended evel	Sample Date	Monitoring Frequency	Major Sources in Drinking Water	. Notice Recon	eable Effects Above the nmended Level
Unregulated Contaminants											
Per- and Polyfluoroalkyl Substances (PFA:	ppt S)	70 (Lifetime Health Advisory; for PFO PFOS only)	1.8	ND-	−1.8 N	0	November 2023	Once every 2 years	There are a variety of ways that peopl these chemicals and at different levels water can be a source of exposure in these chemicals have contaminated we contamination is typically localized, for industrial facility where PFAS were prooil refinery, airfield or other location a used for firefighting.	s of exposure. Drinking Scientis communities where atter supplies. Such exposur or example, an cartain oduced or used, or an	ists are still learning about the al health effects from PFAS re. Some studies have shown that PFAS may increase the risk of affect the immune system and children's development.

### **Definitions**

90th Percentile The value in a data set in which 90 percent of the set is less than or equal to this value.

<u>Action Level (AL)</u> The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Contaminant Any physical, chemical, biological, or radiological substance or matter in water.

<u>Electrodialysis Reversal (EDR)</u> An electrodialysis reversal water desalination membrane process that has been commercially used since the early 1960s. An electric current migrates dissolved salt ions, including fluorides, nitrates and sulfates, through an electrodialysis stack consisting of alternating layers of cationic and anionic ion exchange membranes. Periodically, the direction of ion flow is reversed by reversing the polarity of the applied electric current.

<u>Maximum Contaminant Level (MCL)</u> 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. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

<u>Maximum Contaminant Level Goal (MCLG)</u> 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.

<u>Maximum Residual Disinfectant Level (MRDL)</u> The highest level of a disinfectant allowed in drinking water. There is convincing evidence that the addition of a disinfectant is necessary for control of microbial contaminants.

<u>Maximum Residual Disinfectant Level Goal (MRDLG)</u> 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.

<u>Treatment Technique (TT)</u> A required process intended to reduce the level of a contaminant in drinking water.

### Abbreviations/Acronyms

•		. v ia cioii <i>5/ /</i> (ci oiiy iii				
	<	Indicates the contaminant was not detected or was less than the laboratory reporting limit	N/A	Not Applicable: no State or Federal standards are established		
	ADEQ	Arizona Department of Environmental Quality	ND	Not Detected: sample was taken and chemical was not detected		
	ADHS	Arizona Department of Health Services	NPDWR	National Primary Drinking Water Regulation		
	AL	Action Level	pCi/L	picocuries per Liter; a measure of		
CCR		Consumer Confidence Report; annual water		radioactivity in water		
		quality report	PFAS	Per- and Polyfluoroalkyl Substances		
	CDC	Center for Disease Control	PFOA	Perfluorooctanoic acid		
	EDR	Electrodialysis reversal	PFOS	Perfluorooctane sulfonate		
	EPA	United States Environmental Protection Agency	ppb	Parts per billion		
	EPDS	Entry point to the distribution system	ppm	Parts per million		
	FDA	U.S. Food and Drug Administration	ppt	Parts per trillion		
	НА	Health advisory	PWS	Public water system		
	HCA	Howard Cantonment Area	SDWA	Safe Drinking Water Act; federal law that sets forth drinking water regulations		
	LSL	Lead Service Line	SWAP	Source Water Assessment Program		
	MCL	Maximum Contaminant Level	TDS	Total dissolved solids		
	MRDL	Maximum Residual Disinfectant Level	USAG	United States Army Garrison		
MRDLG		Maximum Residual Disinfectant Level Goal	YPG	•		
			TPG	Yuma Proving Ground		



Please share this information with anyone who drinks this water (or their guardians), especially those who may not have received this report directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this report in a public place or distributing copies by hand, mail, email, or another method.



Would you like an electronic copy of this report?

Please visit
https://ypgenvironmental.com/files/
HCA\_2024\_CCR.pdf



For more information on anything relating to YPG drinking water, please contact Angela Ballinger, Safe Drinking Water Program Manager.

(928) 328-2977 angela.m.ballinger.civ@army.mil

### ONE PART PER MILLION (PPM) IS LIKE...

- 1 second in 11.6 days
- 1 teaspoon in 1,302 gallons
- 1 drop in 13.6 gallons
- 1 milligram per liter (mg/L)

### ONE PART PER BILLION (PPB) IS LIKE...

- 1 second in 31.7 years
- 1 teaspoon in 1.3 million gallons
- 1 drop in 13,563 gallons
- 1 microgram per liter (µg/L)

### ONE PART PER TRILLION (PPT) IS LIKE...

- 1 second in 31,710 years
- 1 teaspoon in 1.3 billion gallons
- 1 drop in 13,563,368 gallons
- 1 nanogram per liter (ng/L)