

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

2024 Water Quality Report Consumer Confidence Report

Walker Cantonment Area & Kofa Cantonment Area Water Systems

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

Walker Cantonment Area & Kofa Cantonment Area Public Water Systems (AZ04-14363 & AZ04-14367)

MSGT Manuel V. Mendoza Medal of Honor Recipient "The Arizona Kid"

Please Note: This Consumer Confidence Report (CCR) covers only the potable water systems servicing the Walker Cantonment Area (WCA), which also serves the Laguna Army Airfield Cantonment Area (LAAF), and Kofa Cantonment Area (KCA), which also serves Castle Dome Heliport (CDH) and Castle Dome Annex (CDA) Cantonment Areas, 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 two public water systems which serve:
Walker Cantonment Area (WCA) & Laguna Army Airfield (LAAF) (AZO4-14363), and
Kofa Cantonment Area (KCA), Castle Dome Heliport (CDH), & Castle Dome Annex (CDA) (AZO4-14367).
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 water consumers
- Monitoring and testing the water we provide to ensure it is always safe to drink
- Providing opportunities for water consumers 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 water consumers throughout all three cantonment areas supporting the mission. Although this report's data covers the Walker Cantonment Area (WCA) and the Kofa

Cantonment Area (KCA) water systems only, the general information is relevant to drinking water across the United States.

Our water systems 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.

Thank you for taking interest in your drinking water. Sincerely,

Your Public Works Directorate

Introduction

This is the annual report for WCA and KCA water systems on the quality of water delivered by YPG.

Under the "Consumer Confidence Reporting Rule" of the Safe Drinking Water Act (SDWA), only community water systems (Howard Cantonment Area) are required to report this water quality information to the consuming public. However, as part of the ongoing water quality outreach program,

YPG has chosen to provide a CCR for the additional public water systems (PWS) on YPG. Presented in this report is information on the source of our water, its constituents, and the health risks associated with any contaminants.

WCA and KCA are regulated as *Non-Transient*, *Non-Community water systems* because these water systems regularly supply water to at least 25 of the

same people at least six months per year. This type of system requires less frequent monitoring of certain contaminants which other systems may have more often due to the consumers not residing within the water system full-time, therefore lessening the risk.

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

Vulnerable Population

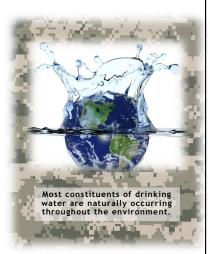
Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. In order to ensure that tap water is safe to drink, the Environmental Protection Agency (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.

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

For any questions relating to YPG drinking water, please contact Angela Ballinger, Safe Drinking Water Program Manager.

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

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 groundwater or may result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

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

<u>Organic chemical contaminants</u>, 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.



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 We Do at YPG

At YPG we monitor our nontransient, non-community water systems 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 WCA and KCA water systems routinely test for the presence of coliform bacteria as an indicator of the sanitary quality of drinking water.

WCA and KCA water systems each analyzed 36 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 microbes 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.



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.



Our water supply for WCA and KCA water systems is derived from groundwater pumped from the Coarse Gravel Aguifer, which lies in the ancient streambed of the Colorado River. The water is pumped from two wells located near each water treatment plant. These wells range in depth from approximately 300 feet to 500 feet. Although the minimum depth to groundwater is about 160 feet at WCA and 250 feet at KCA, our tap water is drawn from approximately 250 to 450 feet below the ground surface, respectively. The pumped water is then treated through an electrodialysis reversal (EDR)



PFAS

unit at both WCA and KCA treatment plants 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

Our water supply for HCA is derived from groundwater pumped from the Coarse Gravel Aguifer, 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.

Protecting Your Water

Protecting the sources of drinking water helps protect our health. İt's everyone's responsibility, and here are a few ways you can help:

- Dispose of chemicals properly
- Take used petroleum wastes and other chemicals to the YPG Hazardous Waste Management Facility (ext. 2828)
- Do not dump anything that may contain hazardous chemicals down a stormwater drain, as it can reach your drinking water source

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 water:

□ 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 Walker Cantonment Area Drinking Water Results

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Parameter	Units	Highest Level Allowed (EPA's MCL)	Ideal Goal (EPA's MCLG)	WCA Hig Result	ghest Range Avera			Monitoring Frequency	Major Sources in Drinking Water	Health Effects	
PRIMARY STANDARDS - Mandatory Health-Related Standards The National Primary Drinking Water Regulations (NPDWR) are legally enforceable primary standards and treatment techniques that apply to public water systems. Primary standards and treatment techniques protect public health by limiting the levels of contaminants in drinking water.											
		infection By-Products- Test			y standards and the	eachiere teeningues th	at apply to public we	icer systems. Frimar	y standards and deadment teeningues	proceed public reactivity timeting the terets of containing	nates in drinking water.
Total Chlorine Residuals	ppm (r		MRDLG = 4.0	1.92	0.05 - Averag	1.92 ee: 1.06	Monthly	Monthly	Water additive used to control microbes	Some people who use water containing chlorine we irritating effects to their eyes and nose. Some peop well in excess of the MRDL could experience stomate	le who drink water containing chlorine
Total Trihalomethanes (TTHM)	ppb	80	N/A	85	18 - 85	No	August & December 2024	Annual, then once every quarter	By-product of drinking water disinfection	Some people who drink water containing trihalomer years may experience problems with their liver, kichave an increased risk of getting cancer.	thanes in excess of the MCL over many neys, or central nervous systems, and may
Haloacetic Acids (HAA5)	ppb	60	N/A	7.0	ND - 7.	0 No	August & December 2024	Annual, then once every quarter	By-product of drinking water disinfection	Some people who drink water containing haloacetic years may have an increased risk of getting cancer.	acids in excess of the MCL over many
Metals - As a By-F	Product of Co	orrosion of Consumer's Plum	nbing- Tested at cu	stomer taps.							
Lead	ppb	AL = 15	0	Highest Le Detected: 90th Percent.8	14 ND - 14	4 No	September 2023	Once every 3 years	Corrosion of household plumbing systems; Erosion of natural deposits	Infants and children who drink water containing lea experience delays in their physical or mental devel deficits in attention span and learning abilities. Ad could develop kidney problems or high blood pressu	opment. Children could show slight ults who drink this water over many years
Copper	ppm	AL = 1.3	1.3	Highest L Detected: 90 th Percer 0.10	0.11 0.0069	- 0.11 No	September 2023	Once every 3 years	Corrosion of household plumbing systems; Erosion of natural deposits	Copper is an essential nutrient, but some people wi of the action level over a relatively short amount o distress. Some people who drink water containing of many years could suffer liver or kidney damage. Pe their personal doctor.	f time could experience gastrointestinal opper in excess of the action level over
Inorganic Chemic	als- Tested a	ifter treatment.									
Antimony	ppb	6	6	0.31	Single	Sample No	March 2020	Once every 9 years	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder	Some people who drink water containing antimony could experience increases in blood cholesterol and	
Arsenic	ppb	10	0	6.0	3.4 - 6	.0 No	Quarterly 2024	Once every quarter	Erosion of natural deposits, runoff from orchards, runoff from glass and electronics production wastes	Some people who drink water containing arsenic in experience skin damage or problems with their circ increased risk of getting cancer.	
Chromium	ppb	100	100	1.5	Single	Sample No	March 2020	Once every 9 years	Discharge from steel and pulp mills; Erosion of natural deposits	Some people who use water containing chromium w could experience allergic dermatitis.	rell in excess of the MCL over many years
Nitrate	ppm	10	10	0.14	Single	Sample No	April 2024	Annually	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits	Infants below the age of six months who drink wate could become seriously ill and, if untreated, may d and blue baby syndrome.	r containing nitrate in excess of the MCL ie. Symptoms include shortness of breath
Synthetic Organic	Chemicals-	Tested after treatment.							·		
Pentachlorophen	ol ppb	1	0	0.04	ND - 0.	04 No	Quarterly 2024	Once every quarter	Discharge from wood preserving factories	Liver or kidney problems; increased cancer risk	
Parameter	Units	Secondary Standard Recommended Highe	(EPA's est Level)	WCA Highest Level	Range/ Average	Exceeded Secondary Standard	Sample Date	Monitoring Frequency	Major Sources in Drinking Wat	ter	Noticeable Effects Above the Secondary MCL
SECONDARY STANDARDS - Aesthetic Standards National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water. EPA recommends secondary standards to water systems but											
does not require		omply. However, some stat	es may choose to a		enforceable standa			Monthly in conjunction	The pH level of your drinking water bydrogen," referring to the amount	reflects how acidic it is. pH stands for "potential of of hydrogen found in a substance (in this case,	Low pH: bitter metallic taste; corrosion.
рН	NA	6.5-8.5		9.18	Average: 8.54	Yes¹	Monthly	with Total Coliform		that runs from 0 to 14. Seven is neutral, meaning there	
Total Dissolved Solids (TDS)	mg/L	500		299	164 - 299 Average: 189	No	Intermittent throughout each month	Averaged monthly	of inorganic salts, as well as a small that can be found in water include c are all cations, and carbonates, nitra	ion of dissolved substances in water. TDS is made up amount of organic matter. Common inorganic salts salts saltin, magnesium, potassium and sodium, which ates, bicarbonates, chlorides and sulfates, which are arged ions and anions are negatively charged ions.	Hardness; deposits; colored water; staining; salty taste.
¹YPG continuously monitors the pH levels within the distribution system. Although it is not harmful to your health, higher pH levels may affect the aesthetics of the water.											
Parameter	Units	EPA's Recomme Highest Level	nded	WCA Highest Level	Range/ Average	Exceeded Recommended Standard	Sample Date	Monitoring Frequency	Major Sources in Drinking W	ater N	oticeable Effects Above the econdary Level
Unregulated Contaminants											
Per- and Polyfluoroalkyl Substances (PFAS	ppt)	70 (Lifetime Health Advis PFOS only)	ory; for PFOA/	ND	ND	No	November 2023	Once every 2 years	at different levels of exposure. Dri communities where these chemica contamination is typically localized	inking water can be a source of exposure in ols have contaminated water supplies. Such of, for example, an industrial facility where oil refinery, airfield or other location at which	ientists are still learning about the tential health effects from PFAS exposure. me studies have shown that certain PFAS ay increase the risk of cancer, affect the mune system and impact children's veelopment.

2024 Kofa Cantonment Area Drinking Water Results

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Parameter	Units	Highest Level Allowed (EPA's MCL)	Ideal Goal (EPA's MCLG)	KCA Higher Result	Average	Exceede Standar	d Date	Monitoring Frequency	Major Sources in Drinking Water	Health Effects	
PRIMARY STANDAR The National Prim	DS - Mandatory H ary Drinking Wate	ealth-Related Standa er Regulations (NPDW	ards 'R) are legally e	enforceable prin	mary standards and	treatment techniques	s that apply to public	water systems. Prim	nary standards and treatment techniques	protect public health by limiting the levels of	contaminants in drinking water.
Disinfection Resid				·							
Total Chlorine Residuals	ppm (mg/L)	MRDL = 4.0	MRDLG = 4.0	2.90	0.33 - 2.90 Average: 1) 1.29 No	Monthly	Monthly	Water additive used to control microbes	Some people who use water containing chl irritating effects to their eyes and nose. So well in excess of the MRDL could experience	orine well in excess of the MRDL could experience ome people who drink water containing chlorine e stomach discomfort.
Total Trihalomethanes (TTHM)	ppb	80	N/A	30	0.33 - 30	No	August 2024	Annually	By-product of drinking water disinfection	Some people who drink water containing to	ihalomethanes in excess of the MCL over many liver, kidneys, or central nervous systems, and may
Haloacetic Acids (HAA5)	ppb	60	N/A	3.0	ND - 3.0	No	August 2024	Annually	By-product of drinking water disinfection	Some people who drink water containing h years may have an increased risk of getting	aloacetic acids in excess of the MCL over many g cancer.
Metals - As a By-Pr	oduct of Corrosio	n of Consumer's Plui	mbing								
Lead	ppb	AL = 15	0	Highest Leve Detected: 25 90 th Percentil 1.8	ND - 25	No	September 2024	Annually	Corrosion of household plumbing systems; Erosion of natural deposits	experience delays in their physical or men	ining lead in excess of the action level could cal development. Children could show slight tites. Adults who drink this water over many years od pressure.
Copper	ppm	AL = 1.3	1.3	Highest Leve Detected: 0. 90 th Percentil 0.026	0.0038 - 0.	.05 No	September 2024	Annually	Corrosion of household plumbing systems; Erosion of natural deposits	of the action level over a relatively short a distress. Some people who drink water con	eople who drink water containing copper in excess mount of time could experience gastrointestinal taining copper in excess of the action level over nage. People with Wilson's disease should consult
Inorganic Chemica	ls								Discharge from petroleum		
Antimony	ppb	6	6	0.74	Single Sam	nple No	March 2023	Once every 3 years	refineries; fire retardants; ceramics; electronics; solder	Some people who drink water containing a could experience increases in blood choles	ntimony well in excess of the MCL over many years terol and decreases in blood sugar.
Arsenic	ppb	10	0	4.3	2.3 - 4.3	No	Quarterly 2024	Once every quarter	Erosion of natural deposits, runoff from orchards, runoff from glass and electronics production wastes	Some people who drink water containing a experience skin damage or problems with increased risk of getting cancer.	rsenic in excess of the MCL over many years could their circulatory system, and may have an
Barium	ppm	2	2	1.8	Single Sam	nple No	March 2023	Once every 3 years	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits	Some people who drink water containing be experience an increase in their blood press	arium in excess of the MCL over many years could ure.
Chromium	ppb	100	100	1.9	Single Sam	nple No	March 2023	Once every 3 years	Discharge from steel and pulp mills; erosion of natural deposits	Some people who use water containing chr could experience allergic dermatitis.	omium well in excess of the MCL over many years
Nitrate	ppm	10	10	0.068	Single Sam	nple No	April 2024	Annually	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits		ink water containing nitrate in excess of the MCL d, may die. Symptoms include shortness of breath
Parameter	Units Seco Rec	ondary Standard ommended Highe	(EPA's est Level)	KCA Highest Level	Range/ Average	Exceeded Secondary Standard	Sample Date	Monitoring Frequency	Major Sources in Drinking Water		Noticeable Effects Above the Secondary MCL
SECONDARY STANI National Secondar	V Drinking Water	Regulations are non-	enforceable gui	idelines regardi	ing contaminants the	at may cause cosmeti	ic effects (such as skin	or tooth discolorat	ion) or aesthetic effects (such as taste, o	dor, or color) in drinking water. EPA recommo	ends secondary standards to water systems but
	ystems to comply NA 6.5-8	. However, some sta	tes may choose	9.40	8.32 - 9.40 Average: 8.92	Yes 1	Monthly	Monthly in conjunction with Total Coliform	The pH level of your drinking water ref "potential of hydrogen," referring to ti substance (in this case, water). pH is n Seven is neutral, meaning there is a ba	ne amount of hydrogen found in a neasured on a scale that runs from 0 to 14.	Low pH: bitter metallic taste; corrosion. High pH: slippery feel; soda taste; deposits.
Total Dissolved Solids (TDS)	mg/L 500			290	142 - 290 Average: 211	No	Intermittent throughout each month	Averaged monthly	TDS represents the total concentration made up of inorganic salts, as well as a inorganic salts that can be found in wa and sodium, which are all cations, and	of dissolved substances in water. TDS is small amount of organic matter. Common ter include calcium, magnesium, potassium carbonates, nitrates, bicarbonates, ions. Cations are positively charged ions	Hardness; deposits; colored water; staining; salty taste.
PG continuously mo	nitors the pH levels	within the distribution	n system. Althou	gh it is not harmf	ful to your health, hig	her pH levels may affec	t the aesthetics of the v	vater.			
Parameter	linits	PA's Recommei ighest Level	nded	KCA Highest Level	Range/ Average	Exceeded Recommended Standard	Sample Date	Monitoring Frequency	Major Sources in Drinking Wate	r	Noticeable Effects Above the Secondary Level
Unregulated Conta	aminants										
Per- and Polyfluoroalkyl Substances (PFAS)	70 ppt (Li PF	fetime Health Advisc OA/PFOS only)	ory; for	ND	ND	No	November 2023	Once every 2 years	There are a variety of ways that peopl at different levels of exposure. Drinkir communities where these chemicals ha contamination is typically localized, fo PFAS were produced or used, or an oil which PFAS were used for firefighting.	r example, an industrial facility where	Scientists are still learning about the potential health effects from PFAS exposure. Some studies have shown that certain PFAS may increase the risk of cancer, affect the immune system and impact children's development.
-45					-						

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 contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow 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

ADDI	c v lacions Acionymis				
<	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	None 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		
CDA	Castle Dome Annex	PFOA	Perfluorooctanoic acid		
CDC	Center for Disease Control	PFOS	Perfluorooctane sulfonate		
CDH	Castle Dome Heliport	ppb	Parts per billion		
EDR	Electrodialysis reversal	ppm	Parts per million		
EPA	United States Environmental Protection Agency	ppt	Parts per trillion		
EPDS	Entry point to the distribution system	PWS	Public water system		
FDA	U.S. Food and Drug Administration	SDWA	Safe Drinking Water Act; federal law that sets forth drinking water regulations		
HA	Health advisory	SWAP	Source Water Assessment Program		
KCA	Kofa Cantonment Area	TDS	Total dissolved solids		
LAAF	Laguna Army Airfield	USAG	United States Army Garrison		
MCL	Maximum Contaminant Level	WCA	Walker Cantonment Area		
MRDL	Maximum Residual Disinfectant Level	YPG	Yuma Proving Ground		
MRDLG	Maximum Residual Disinfectant Level Goal				



Please share this information with anyone who drinks this water, especially those who may not have received this report directly (for example, people in warehouse buildings or contractor-occupied buildings). You can do this by posting this report in a public place or distributing copies by hand, mail, email, or another method.



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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)