



Consumer Confidence Report for Calendar Year 2023

Este informe contiene información muy importante sobre el agua usted bebe.
Tradúscalo ó hable con alguien que lo entienda bien.

Public Water System ID Number		Public Water System Name	
AZ04-03017		PAGE, CITY OF	
Contact Name and Title		Phone Number	E-mail Address
DOUG KING - SUPERVISOR		(928) 645-2419	DOUG@PAGEUTILITY.COM
<p>We want our valued customers to be informed about their water quality. If you would like to learn more about public participation or to attend any of our regularly scheduled meetings, please contact <u>Doug King at (928) 645-2419</u> for additional opportunity and meeting dates and times.</p>			

Drinking Water Sources

The sources of drinking water (both tap 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.

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

Our water source(s): SURFACE WATER – LAKE POWELL/COLORADO RIVER

Drinking Water Contaminants

Microbial Contaminants: Such as viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

Inorganic Contaminants: Such as salts and metals that can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

Pesticides and Herbicides: Such as agriculture, urban storm water runoff, and residential uses that may come from a variety of sources

Organic Chemical Contaminants: Such as 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: That can be naturally occurring or be the result of oil and gas production and mining activities.

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. 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.

For more information about contaminants and potential health effects, or to receive a copy of the U.S. Environmental Protection Agency (EPA) and the U.S. Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and microbiological contaminants call the EPA *Safe Drinking Water Hotline* at 1-800-426-4791.

Source Water Assessment

This PWS did not receive a SWAP because the PWS was either inactive at the time or the PWS did not exist. Further source water assessment documentation can be obtained by contacting ADEQ.

Definitions

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

Level 1 Assessment: A study of the water system to identify potential problems and determine (if possible) why total coliform bacteria was present.

Level 2 Assessment: A very detailed study of the water system to identify potential problems and determine (if possible) why an *E. coli* MCL violation has occurred and/or why total coliform bacteria was present.

Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment, or other requirements

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health.

Maximum Residual Disinfectant Level (MRDL): The level of disinfectant added for water treatment that may not be exceeded at the consumer's tap.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of disinfectant added for treatment at which no known or anticipated adverse effect on health of persons would occur

Minimum Reporting Limit (MRL): The smallest measured concentration of a substance that can be reliably measured by a given analytical method

Millirems per year (MREM): A measure of radiation absorbed by the body.

Not Applicable (NA): Sampling was not completed by regulation or was not required.

Not Detected (ND or <): Not detectable at reporting limit

Nephelometric Turbidity Units (NTU): A measure of water clarity

Million fibers per liter (MFL)

Picocuries per liter (pCi/L): Measure of the radioactivity in water

ppm: Parts per million or Milligrams per liter (mg/L)

ppb: Parts per billion or Micrograms per liter (µg/L)

ppt: Parts per trillion or Nanograms per liter (ng/L)

ppq: Parts per quadrillion or Picograms per liter (pg/L)
ppm x 1000 = ppb

ppb x 1000 = ppt

ppt x 1000 = ppq

Lead Informational Statement:

Lead, in drinking water, is primarily from materials and components associated with service lines and home plumbing. If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. CITY OF PAGE is responsible for providing high quality drinking water but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at www.epa.gov/safewater/lead.

Water Quality Data – Regulated Contaminants

Microbiological (RTCR)	TT Violation Y or N	Number of Positive Samples	Positive Sample(s) Month & Year	MCL	MCLG	Likely Source of Contamination
E. Coli	N	NA	NA	0	0	Human and animal fecal waste
Fecal Indicator (coliphage, enterococci and/or E. coli)	N	NA	NA	0	0	Human and animal fecal waste
Surface Water Treatment Rule	TT Violation Y or N	Highest Level Detected	% Range (Low-High)	TT	Sample Month & Year	Likely Source of Contamination
Total Organic Carbon ¹ (mg/L)	N	2.68		TT	03/2022	Naturally Present in the Environment
Turbidity ² (NTU)	N	.265	.026 - .265	TT	2023	Soil runoff

¹ **Total organic carbon (TOC)** has no health effects. However, total organic carbon provides a medium for the formation of disinfection byproducts. These byproducts include trihalomethanes (THM) and haloacetic acids (HAA). Drinking water containing these byproducts in excess of the MCL may lead to adverse health effects, liver, or kidney problems, or nervous system effects, and may lead to an increased risk of getting cancer.

² **Turbidity** is a measure of the cloudiness of water and is an indication of the effectiveness of our filtration system. We monitor it because it is a good indicator of the quality of water. High turbidity can hinder the effectiveness of disinfectants. Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

Disinfectants	MCL Violation Y or N	Running Annual Average (RAA)	Range of All Samples (Low-High)	MRDL	MRDLG	Sample Month & Year	Likely Source of Contamination
Chlorine/Chloramine (ppm)	N	.96	.70 – 1.36	4	4	2023	Water additive used to control microbes

Chlorine dioxide (ppb)	N	NA	NA	800	0	NA	Water additive used to control microbes
Disinfection By-Products	MCL Violation Y or N	Running Annual Average (RAA) OR Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Haloacetic Acids (HAA5) (ppb)	N	32	26 – 35	60	N/A	2023	Byproduct of drinking water disinfection
Total Trihalomethanes (TTHM) (ppb)	N	59.3	52.9 – 66.6	80	N/A	2023	Byproduct of drinking water disinfection
Bromate (ppb)	N	NA	NA	10	0	NA	Byproduct of drinking water disinfection
Chlorite (ppm)	N	1	0-1	1	0.8	NA	Byproduct of drinking water disinfection
Lead & Copper	MCL Violation Y or N	90th Percentile	Number of Samples Exceeds AL	AL	ALG	Sample Month & Year	Likely Source of Contamination
Copper (ppm)	N	1.01	1	1.3	1.3	08/03/2021	Corrosion of household plumbing systems; erosion of natural deposits
Lead (ppb)	N	1.02	0	15	0	08/03/2021	Corrosion of household plumbing systems; erosion of natural deposits
Radionuclides	MCL Violation Y or N	Running Annual Average (RAA) OR Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Beta/Photon Emitters (mrem/yr.)	N	NA	NA	4	0	NA	Decay of natural and man-made deposits
Alpha Emitters (pCi/L)	N	4.2	4.2 – 4.2	15	0	05/24/2021	Erosion of natural deposits
Combined Radium-226 & -228 (pCi/L)	N	NA	NA	5	0	NA	Erosion of natural deposits
Uranium (ug/L)	N	NA	NA	30	0	NA	Erosion of natural deposits
Inorganic Chemicals (IOC)	MCL Violation Y or N	Running Annual Average (RAA) OR Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Antimony (ppb)	N	NA	NA	6	6	NA	Discharge from petroleum refineries; fire retardants; ceramics, electronics, and solder
Arsenic ¹ (ppb)	N	1.5	1.5 – 1.5	10	0	03/28/2018	Erosion of natural deposits, runoff from orchards, runoff from glass and electronics production wastes
Asbestos (MFL)	N	NA	NA	7	7	NA	Decay of asbestos cement water mains; Erosion of natural deposits
Barium (ppm)	N	.072	0.072 - 0.072	2	2	03/28/2018	Discharge of drilling wastes; discharge from metal refineries; Erosion of natural deposits
Beryllium (ppb)	N	NA	NA	4	4	NA	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries
Cadmium (ppb)	N	NA	NA	5	5	NA	Corrosion of galvanized pipes; natural deposits; metal refineries; runoff from waste batteries and paints
Chromium (ppb)	N	NA	NA	100	100	NA	Discharge from steel and pulp mills; Erosion of natural deposits
Cyanide (ppb)	N	NA	NA	200	200	NA	Discharge from steel/metal factories; Discharge from plastic and fertilizer factories
Fluoride (ppm)	N	.29	0.29 – 0.29	4	4	03/28/2018	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Mercury (ppb)	N	NA	NA	2	2	NA	Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills and cropland.
Nitrate ² (ppm)	N	1	0.51 – 0.51	10	10	2023	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Nitrite (ppm)	N	NA	NA	1	1	NA	Runoff from fertilizer use;

							leaching from septic tanks, sewage; erosion of natural deposits
Selenium (ppb)	N	NA	NA	50	50	NA	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Sodium (ppm)	N	82	82	N/A	N/A	04/2022	Erosion of natural deposits
Thallium (ppb)	N	NA	NA	2	0.5	NA	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories

¹ **Arsenic** is a mineral known to cause cancer in humans at high concentration and is linked to other health effects, such as skin damage and circulatory problems. If arsenic is less than or equal to the MCL, your drinking water meets EPA's standards. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water and continues to research the health effects of low levels of arsenic.

² **Nitrate** in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause "blue baby syndrome." Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, and detected nitrate levels are above 5 ppm, you should ask advice from your health care provider.

Synthetic Organic Chemicals (SOC)	MCL Violation Y or N	Running Annual Average (RAA) OR Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
2,4-D (ppb)	N	< 0.0001	< 0.0001	70	70	1/4/24	Runoff from herbicide used on row crops
2,4,5-TP (a.k.a. Silvex) (ppb)	N	< 0.0002	< 0.0002	50	50	1/4/24	Residue of banned herbicide
Acrylamide	NA	NA	NA	TT	0	NA	Added to water during sewage / wastewater treatment
Alachlor (ppb)	N	< 0.0001	< 0.0001	2	0	1/4/24	Runoff from herbicide used on row crops
Atrazine (ppb)	N	< 0.00005	< 0.00005	3	3	1/4/24	Runoff from herbicide used on row crops
Benzo (a) pyrene (PAH) (ppt)	N	< 0.00002	< 0.00002	200	0	1/4/24	Leaching from linings of water storage tanks and distribution lines
Carbofuran (ppb)	N	< 0.0005	< 0.0005	40	40	1/4/24	Leaching of soil fumigant used on rice and alfalfa
Chlordane (ppb)	N	< 0.0001	< 0.0001	2	0	1/4/24	Residue of banned termiticide
Dalapon (ppb)	N	< 0.001	< 0.001	200	200	1/4/24	Runoff from herbicide used on rights of way
Di (2-ethylhexyl) adipate (ppb)	N	< 0.0006	< 0.0006	400	400	1/4/24	Discharge from chemical factories
Di (2-ethylhexyl) phthalate (ppb)	N	< 0.0006	< 0.0006	6	0	1/4/24	Discharge from rubber and chemical factories
Dibromochloropropane (ppt)	N	< 0.00001	< 0.00001	200	0	1/4/24	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards
Dinoseb (ppb)	N	< 0.0002	< 0.0002	7	7	1/4/24	Runoff from herbicide used on soybeans and vegetables
Diquat (ppb)	N	< 0.0004	< 0.0004	20	20	1/4/24	Runoff from herbicide use
Dioxin [a.k.a. 2,3,7,8-TCDD] (ppq)	N	< 5E-9	< 5E-9	30	0	1/4/24	Emissions from waste incineration and other combustion; discharge from chemical factories
Endothall (ppb)	N	< 0.005 M2	< 0.005 M2	100	100	1/4/24	Runoff from herbicide use
Endrin (ppb)	N	< 0.00001	< 0.00001	2	2	1/4/24	Residue of banned insecticide
Epichlorohydrin	NA	NA	NA	TT	0	NA	Discharge from industrial chemical factories; an impurity of some water treatment chemicals
Ethylene dibromide (ppt)	N	< 0.00001	< 0.00001	50	0	1/4/24	Discharge from petroleum refineries
Glyphosate (ppb)	N	< 0.006	< 0.006	700	700	1/4/24	Runoff from herbicide use
Heptachlor (ppt)	N	< 0.00001	< 0.00001	400	0	1/4/24	Residue of banned termiticide
Heptachlor epoxide (ppt)	N	< 0.00001	< 0.00001	200	0	1/4/24	Breakdown of heptachlor
Hexachlorobenzene (ppb)	N	< 0.00005	< 0.00005	1	0	1/4/24	Discharge from metal refineries and agricultural chemical factories
Hexachlorocyclo pentadiene (ppb)	N	< 0.00005	< 0.00005	50	50	1/4/24	Discharge from chemical factories
Lindane (ppt)	N	< 0.00001	< 0.00001	200	200	1/4/24	Runoff/leaching from insecticide used on cattle, lumber, gardens
Methoxychlor (ppb)	N	< 0.00005	< 0.00005	40	40	1/4/24	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa,
Oxamyl (a.k.a. Vydate) (ppb)	N	< 0.00005	< 0.00005	200	200	1/4/24	Runoff/leaching from insecticide used on apples,

							potatoes and tomatoes
PCBs [Polychlorinated biphenyls] (ppt)	NA	NA	NA	500	0	NA	Runoff from landfills; discharge of waste chemicals
Pentachlorophenol (ppb)	N	< 0.00004	< 0.00004	1	0	1/4/24	Discharge from wood preserving factories
Picloram (ppb)	N	< 0.00001	< 0.00001	500	500	1/4/24	Herbicide runoff
Simazine (ppb)	N	< 0.00005	< 0.00005	4	4	1/4/24	Herbicide runoff
Toxaphene (ppb)	N	< 0.00005	< 0.00005	3	0	1/4/24	Runoff/leaching from insecticide used on cotton and cattle
Volatile Organic Chemicals (VOC)	MCL Violation Y or N	Running Annual Average (RAA) OR Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Benzene (ppb)	N	< 0.0005	< 0.0005	5	0	10/5/23	Discharge from factories; leaching from gas storage tanks and landfills
Carbon tetrachloride (ppb)	N	< 0.0005	< 0.0005	5	0	10/5/23	Discharge from chemical plants and other industrial activities
Chlorobenzene (ppb)	NA	NA	NA	100	100	NA	Discharge from chemical and agricultural chemical factories
o-Dichlorobenzene (ppb)	N	< 0.0005	< 0.0005	600	600	10/5/23	Discharge from industrial chemical factories
p-Dichlorobenzene (ppb)	N	< 0.0005	< 0.0005	75	75	10/5/23	Discharge from industrial chemical factories
1,2-Dichloroethane (ppb)	N	< 0.0005	< 0.0005	5	0	10/5/23	Discharge from industrial chemical factories
1,1-Dichloroethylene (ppb)	N	< 0.0005	< 0.0005	7	7	10/5/23	Discharge from industrial chemical factories
cis-1,2-Dichloroethylene (ppb)	N	< 0.0005	< 0.0005	70	70	10/5/23	Discharge from industrial chemical factories
trans-1,2-Dichloroethylene (ppb)	N	< 0.0005	< 0.0005	100	100	10/5/23	Discharge from industrial chemical factories
Dichloromethane (ppb)	N	< 0.0005	< 0.0005	5	0	10/5/23	Discharge from pharmaceutical and chemical factories
1,2-Dichloropropane (ppb)	N	< 0.0005	< 0.0005	5	0	10/5/23	Discharge from industrial chemical factories
Ethylbenzene (ppb)	N	< 0.0005	< 0.0005	700	700	10/5/23	Discharge from petroleum refineries
Styrene (ppb)	N	< 0.0005	< 0.0005	100	100	10/5/23	Discharge from rubber and plastic factories; leaching from landfills
Tetrachloroethylene (ppb)	N	< 0.0005	< 0.0005	5	0	10/5/23	Discharge from factories and dry cleaners
1,2,4-Trichlorobenzene (ppb)	N	< 0.0005	< 0.0005	70	70	10/5/23	Discharge from textile-finishing factories
1,1,1-Trichloroethane (ppb)	N	< 0.0005	< 0.0005	200	200	10/5/23	Discharge from metal degreasing sites and other factories
1,1,2-Trichloroethane (ppb)	N	< 0.0005	< 0.0005	5	3	10/5/23	Discharge from industrial chemical factories
Trichloroethylene (ppb)	N	< 0.0005	< 0.0005	5	0	10/5/23	Discharge from metal degreasing sites and other factories
Toluene (ppm)	N	< 0.0005	< 0.0005	1	1	10/5/23	Discharge from petroleum factories
Vinyl Chloride (ppb)	N	< 0.0005	< 0.0005	2	0	10/5/23	Leaching from PVC piping; discharge from chemical factories
Xylenes (ppm)	N	< 0.0005	< 0.0005	10	10	10/5/23	Discharge from petroleum or chemical factories

Water Quality Table – Unregulated Contaminants

Your drinking water was sampled for the presence and concentration of 29 different per- and polyfluoroalkyl substances, some known by the acronyms PFAS, PFOA, PFNA, PFHxS, PFBS, and GenX, a group of contaminants in the final stages of becoming regulated by the EPA. PFAS are man-made chemicals that are resistant to heat, water, and oil. They have been used since the 1940s to manufacture various consumer products, including fire-fighting foam and stain resistant, water-resistant, and nonstick items. Many PFAS do not break down easily and can build up in people, animals, and the environment over time. Scientific studies have shown that exposure to certain PFAS can be harmful to people and animals, depending on the level and duration of [exposure](#).

To learn more about this group of chemicals, we encourage you to read the ADEQ-provided “PFAS 101 Fact Sheet” and to visit the ADEQ website at <https://www.azdeq.gov/pfas-resources>

Per- and Polyfluoroalkyl Substances	Highest Level Detected	Range of All Samples	Proposed MCL
PFOA (in parts per trillion)	< 0.0013	< 0.0013	4.0 ppt
PFOS (in parts per trillion)	< 0.0013	< 0.0013	4.0 ppt
PFNA (in parts per trillion)	< 0.0013	< 0.0013	N/A*
PFHxS (in parts per trillion)	< 0.001	< 0.001	N/A*
PFBS (in parts per trillion)	< 0.001	< 0.001	N/A*
GenX (in parts per trillion)	< 0.0017	< 0.0017	N/A*
Calculated Hazard Index (HI)	0.00041		1 (no units)

* EPA is proposing a Hazard Index MCL to limit any mixture containing one or more of PFNA, PFHxS, PFBS, and/or GenX Chemicals. The Hazard Index considers the different toxicities of PFNA, GenX Chemicals, PFHxS, and PFBS. For these PFAS, water systems would use a hazard index calculation to determine if the combined levels of these PFAS in the drinking water at that system pose a potential risk and require action (Source: EPA Fact Sheet: Understanding the PFAS National Primary Drinking Water Proposal Hazard Index).

Water Quality Table - Unregulated Contaminant Monitoring Rule (Required Reporting)

One Metal	Detected (Y/N)	Average	Range of All Samples (Low-High)	MRL (ppb)	Analytical Methods
Lithium (ppb)	Y	43.4	50.3 – 32	9 µg/L	EPA 200.7, SM 3120 B, ASTM D1976–20

Violation Summary (for MCL, MRDL, AL, TT, or Monitoring & Reporting Requirement)

Violation Type	Explanation, Health Effects	Time Period	Corrective Actions
MONITORING, ROUTINE (IESWTR/LT1) MAJOR	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.	05/01/2023 - 05/31/2023	We modified our sampling procedures to ensure that contaminant monitoring is performed as scheduled and on time.
MONITORING, ROUTINE (IESWTR/LT1) MAJOR	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.	08/01/2023 - 08/31/2023	We modified our sampling procedures to ensure that contaminant monitoring is performed as scheduled and on time.
MONITORING, ROUTINE, MINOR (RTCR)	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.	04/01/2023 - 04/30/2023	We modified our sampling procedures to ensure that contaminant monitoring is performed as scheduled and on time.
MONITORING, RTN/RPT MAJOR (SWTR-FILTER)	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.	05/01/2023 - 05/31/2023	We modified our sampling procedures to ensure that contaminant monitoring is performed as scheduled and on time.
MONITORING, RTN/RPT MAJOR (SWTR-FILTER)	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.	08/01/2023 - 08/31/2023	We modified our sampling procedures to ensure that contaminant monitoring is performed as scheduled and on time.

Please share this information with other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.