

2023 Annual Drinking Water Quality Report

Eastern Armstrong County Municipal Authority

Public Water Supply ID Number 5030004

Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, ó hable con alguien que lo entienda. (This report contains important information about your drinking water. Have someone translate it for you, or speak with someone who understands it.)

WATER SYSTEM INFORMATION:

This report shows our water quality and what it means. If you have any questions about this report or concerning your water utility, please contact William Ferrier at 724-354-2540. We want you to be informed about your water supply. If you want to learn more, please attend any of our regularly scheduled meetings. They are held on the third Tuesday of each month at 11:00 a.m. at the Authority office building located at the end of Windy Ridge Lane, next to the sewage treatment plant. For more information regarding the Authority, you may visit the Authority's web page on the PA Rural Water Association website at: <https://www.goh2o.net/eacma>

SOURCE(S) OF WATER:

Our water source is from groundwater from Wells #5, #6, #7, and #8.

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. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the *Safe Drinking Water Hotline* (800-426-4791).

Glossary of Terms Used in This Report

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

Maximum Contaminant Level (MCL) - 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.

Maximum Contaminant Level Goal (MCLG) - 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.

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

Maximum Residual Disinfectant Level Goal (MRDLG) - 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.

Minimum Residual Disinfectant Level (MinRDL) - The minimum level of residual disinfectant required at the entry point to the distribution system.

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

ppb = parts per billion, or micrograms per liter ($\mu\text{g/L}$) **ppm** = parts per million, or milligrams per liter (mg/L)

DEP – Department of Environmental Protection

MONITORING YOUR WATER:

We routinely monitor for contaminants in your drinking water according to federal and state laws. The following tables show the results of our monitoring for the period of January 1 to December 31, 2023. 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 is from prior years in accordance with the Safe Drinking Water Act. The date has been noted on the sampling results table.

DETECTED SAMPLE RESULTS:

Chemical Contaminants						
Contaminant	MCL in CCR Units	Level Detected	Units	Sample Date	Violation Y/N	Sources of Contamination
Fluoride	2	0.323	ppm	12-13-2021	N	Water additive which promotes strong teeth.
Barium	2	0.571	ppm	12-13-2021	N	Discharge of drilling wastes; Discharge from metal refineries, erosion of natural deposits.
HAA5	.060	.00874	ppb	08-25-2023	N	By-product of drinking water disinfection.
Trihalomethanes	.080	.0186	ppm	08-25-2023	N	By-product of drinking water chlorination.

*EPA's MCL for fluoride is 4 ppm. However, Pennsylvania has set a lower MCL to better protect human health.

Entry Point Disinfectant Residual							
Contaminant	Minimum Disinfectant Residual	Lowest Level Detected	Range of Detections	Units	Sample Date	Violation Y/N	Sources of Contamination
Chlorine	0.80	1.7	1.7 – 3.9	ppm	08-07-2023	N	Water additive used to control microbes.

Distribution Disinfectant Residuals						
Contaminant	Month of Highest Result	Highest Average Result	MRDL	Over MRDL	Lowest Average Result	Unit of Measure
Chlorine	January	1.9	4.0	No	1.36	MG/L

Lead and Copper							
Contaminant	Action Level (AL)	MCLG	90 th Percentile Value	Units	# of Sites Above AL of Total Sites	Violation Y/N	Sources of Contamination
Lead	15	0	0	ppb	1 out of 10	N	Corrosion of household plumbing.
Copper	1.3	1.3	.026	ppm	1 out of 10	N	Corrosion of household plumbing.

VIOLATIONS:

Contaminant	Contaminant ID	Violation Type	Violation ID	Entry Point Location	Period Begin Date	Fiscal Year
HALOACETIC ACIDS (HAA5)	2456	M/R FAIL TO MONITOR OR PLAN - 27	38184		07/01/2023	2023
TRIHALOMETHANES (TTHM)	2950	M/R FAIL TO MONITOR OR PLAN - 27	38185		07/01/2023	2023
CHLORINE	0999	DRR M/R FAIL DIST WEEKLY OR VL - R3	38186		09/01/2023	2023
CHLORINE	0999	M/R FAIL TO MONITOR OR PLAN - 27	38183		09/01/2023	2023
HALOACETIC ACIDS (HAA5)	2456	PUBLIC NOTIFICATION TIER 3 - N3	01659		10/11/2023	2024
TRIHALOMETHANES (TTHM)	2950	PUBLIC NOTIFICATION TIER 3 - N3	01660		10/11/2023	2024
NITRATE	1040	MONITORING -REPORTING - 03	07452	101	01/01/2023	2024
NITRITE	1041	MONITORING -REPORTING - 03	07453	101	01/01/2023	2024
COMBINED URANIUM	4006	PUBLIC NOTIFICATION TIER 3 - N3	15222	101	01/11/2023	2023
GROUNDWATER RULE	0700	GWR FAIL TO MONITOR/REPORT - 31	38187	101	09/01/2023	2023

Failure to Report/Monitor Chlorine in the Distribution System. EACMA failed to submit chlorine monitoring data on time. Notice of violation was issued on 10-18-23. No danger was posed to public health since the reported chlorine levels were within acceptable ranges.

Failure to Report/Monitor HHA5 and TTHM. EACMA failed to collect sample on time. Sample was collected on 8-23-23 and should have been collected on 08-12-23. Notice of violation was issued on 10-18-23.

Failure to Report/Monitor Nitrate and Nitrite. EACMA failed to collect samples on time. Samples were missed being taken during 2023. Notice of violation was issued on 01-23-2024. These violations have no public health risks.

EDUCATIONAL INFORMATION:

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 that may be present in source water include:

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

- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban stormwater run-off, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA and DEP prescribe, regulations which limit the number of certain contaminants in water provided by public water systems. FDA and DEP regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's *Safe Drinking Water Hotline* (800-426-4791).

Information about Lead

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. Eastern Armstrong County Municipal Authority is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the *Safe Drinking Water Hotline* or at <http://www.epa.gov/safewater/lead>.

OTHER INFORMATION:

Thank you for allowing us to continue providing your family with clean, quality water this year. In order to maintain a dependable water supply, we sometimes need to make improvements that will benefit all of our customers. These improvements are sometimes reflected as rate structure adjustments. Thank you for understanding. The board members and employees of EACMA strive to provide top quality water to every tap. We ask that all of our customers help us protect our water sources which are the heart of our community, our way of life, and our children's future.



Certainly! Water conservation is crucial for our environment and can help you save money on utility bills. Here are some practical tips to reduce water usage both indoors and outdoors:

1. Toilets:

- Don't use the toilet as an ashtray or wastebasket. Flushing small trash items wastes gallons of water.
- Place plastic bottles filled with water in your toilet tank to reduce the amount of water used per flush.
- [Consider installing an adjustable toilet flapper or a low-flow toilet to save water¹.](#)

2. Fix Leaks:

- Promptly repair any leaks in and around taps. [A single leak can waste several thousand liters of water per year².](#)

3. Showers and Faucets:

- Install low-flow showerheads and faucet aerators to reduce water usage.
- Turn off taps tightly to prevent dripping.
- [When hand-washing dishes, avoid running water continuously³.](#)

4. Outdoor Watering:

- Choose native plants and grasses that thrive on natural rainfall for landscaping.
- [Utilize rain barrels to collect rainwater for garden irrigation⁴.](#)

Remember, every drop counts! By implementing these simple changes, you'll contribute to a more sustainable and eco-friendly living environment. 🌿 💧

