Columbia/Adair Utilities



Water Quality Report for January 1-December 31, 2020

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Water - Essential for Life

Meeting Dates and Time: Second Thursday of each month, at 6:00 PM

This report is designed to inform the public about the quality of water and services provided on a daily basis. Our commitment is to provide our customers with a safe, clean, and reliable supply of drinking water. We want to assure that we will continue to monitor, improve, and protect the water system and deliver a high quality product. Water is the most indispensable product in every home and we ask everyone to be conservative and help us in our efforts to protect the water source and the water system.

The report is to inform you about the excellent water and services that we deliver each day. Our constant goal is to provide you with safe and dependable supply of drinking water. We are committed to ensuring the highest quality water at the lowest prices as we meet the needs of our community. The source for your drinking water are the Green River Lake Adair County, which is a surface water source. The intake for the Green River lake source is located south of Ramp 1. The area around the water shed is mostly argicultural with very little residential density. The final source water assesment plans are complete. Copies of the plan are available at our office. The plan indicates that the source water has a low susceptibility rating to some contiminants caused by agricultural activities in the area. Public meetings and literature are being developed to address this issue. In an effort to keep your water costs at a minimum, report any water leaks immediately. We also purchase water from Campbellsville Water and Sewer System and Jamestown Municipal Water Works. Campbellsville's source water comes from the Green River Reservoir located in Southern Taylor County. Intake is located on Smith Ridge at the end of West Martin Road. When necessary able to use water on a short term emergency basis from the City Lake located on Lebanon Avenue across from the water treatment plant. Both Green River Reservoir and City Lake are surface water sources. Jamestown Municipal Water Works treats surface water withdrawn from Greasy Creek Cove of nearby Lake Cumberland.

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 ndicate that water poses a health risk. More information about contaminants and potential health effects may be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

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 may 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, (sewage plants, septic systems, livestock operations, or wildlife). Inorganic contaminants, such as salts and metals, (naturally occurring or from stormwater runoff, wastewater discharges, oil and gas production, mining, or farming). Pesticides and herbicides, (stormwater runoff, agriculture or residential uses). Organic chemical contaminants, including synthetic and volatile organic chemicals, (by-products of industrial processes and petroleum production, or from gas stations, stormwater runoff, or septic systems). Radioactive contaminants, (naturally occurring or from oil and gas production or mining activities).

In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water to 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. 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).

Some or all of these definitions may be found in this report:

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.

Below Detection Levels (BDL) - Laboratory analysis indicates that the contaminant is not present.

Not Applicable (N/A) - Does not apply.

Parts per million (ppm) or milligrams per liter (mg/l) - One part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (ppb) or micrograms per liter (µg/L) - One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Parts per trillion (ppt) - One part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

Parts per quadrillion (ppq) - One part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.

Picocuries per liter (pCi/L) - A measure of the radioactivity in water.

Millirems per year (mrem/yr) - Measure of radiation absorbed by the body.

Million Fibers per Liter (MFL) - A measure of the presence of asbestos fibers that are longer than 10 micrometers.

Nephelometric Turbidity Unit (NTU) - A measure of the clarity of water. Turbidity has no health effects. However, turbidity can provide a medium for microbial growth. Turbidity is monitored because it is a good indicator of the effectiveness of the filtration system.

Variances & Exemptions (V&E) - State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

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

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

Level 1 Assessment - A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in

Level 2 Assessment - A Level 2 assessment is 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 have been found in our water system on multiple occasions.

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. Your local public water system 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.

To understand the possible health effects described for many regulated contaminants, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

The data presented in this report are from the most recent testing done in accordance with administrative regulations in 401 KAR Chapter 8. As authorized and approved by EPA, the State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data in this table, though representative, may be more than one year old. Copies of this report are available upon request by contacting our office during business hours.

C/A = Columbia/Adair Utilities		C = Cam	pbells	sville Wate	r & Sew	er	J = Jamestown Municipal Water Works					
Regulated Contaminant	Test Resi	ults										
Contaminant	MCL	MCLG	Source	Report Level	Range of		Detection	Date of Sample	Violation	Likely Source of Contamination		
[code] (units)				Level				Sample				
Inorganic Contaminants		T		1						T		
Barium			C/A =	0.02	0.02	to	0.02	Jan-20	No	Drilling wastes; metal refineries;		
[1010] (ppm)	2	2	C =	0.02	0.02	to	0.02	Jan-20	No	erosion of natural deposits		
Fluoride			J =	0.023	0.023	to	0.023	Jan-20	No			
	4	4	C/A =	0.51	0.51	to	0.51	Jan-20	No	Water additive which promotes		
[1025] (ppm)	4		C =	0.71	0.71	to	0.71	Jan-20	No	strong teeth		
NY			J=	0.80	0.8	to	0.8	Jan-20	No			
Nitrate			C/A =	1	1	to	1	Jan-20	No	Fertilizer runoff; leaching from		
[1040] (ppm)	10	10	C =	0.7	0.7	to	0.7	Jan-20	No	septic tanks, sewage; erosion of natural deposits		
			J =	0.63	0.63	to	0.63	Jan-20	No	naturar deposits		
Disinfectants/Disinfection	1 Byprod	lucts and P	recu	rsors					•			
Total Organic Carbon (ppm) (report level=lowest avg. range of	TT*	* N/A		1.36	1.16	to	1.65	2020	No	Naturally present in environmen		
monthly ratios)												
*Monthly ratio is the % TOC remo	oval achieve	d to the % TO	C remo	val required.	Annual av	erage	e must be 1.00	or greater for c	ompliance.	-		
Chlorine				2.13	0.52	2 ,	1.27	2020		W 11'.' 1		
(ppm)	MRDL = 4	MRDLG = 4	C/A =	(highest average)	0.53	to	1.37		No	Water additive used to control microbes.		
HAA (ppb) (Stage 2)		N/A	C/A =	42	15.7		47			Byproduct of drinking water		
[Haloacetic acids]	60			(high site	15.7	to	47	2020	No			
				average)	(range o	f ind	ividual sites)			disinfection		
TTHM (ppb) (Stage 2)				52	9	4-	0.5		No	Byproduct of drinking water disinfection.		
[total trihalomethanes]	80 N/A		C/A =	(high site	9	to	85	2020				
				average)	(range of indi		ividual sites)					
				l l								
Household Plumbing Cor	ıtaminan	ts										
Copper [1022] (ppm)				0.11								
	AL = 1.3	1.3	C/A =		0	to	0.16	Jul-20	No	Corrosion of household plumbing		
sites exceeding action level $= 0$				percentile)						systems		
Lead [1030] (ppb)				6								
	AL = 15	0	C/A =		0	to	12	Jul-20	No	Corrosion of household plumbing		
sites exceeding action level = 0				percentile)						systems		
Other Constituents			1	7								
Turbidity (NTU) TT	Allowable Levels		Highest Single				Lowest					
• ` ′			Source	Measurement			Monthly %	Violation	Likely Source of Turbidity			
* Representative samples								3.				
Turbidity is a measure of the	No more than 1 NTU* Less than 0.3 NTU in 95% of monthly samples		C/A =		09		100	No		G 11 M		
clarity of the water and not a contaminant.			C =				99	No	Soil runoff			
Comaminant.			J =				100	No				

Your drinking water has been sampled for a series of unregulated contaminants. Unregulated contaminants are those for which EPA has not established drinking water standards. There are no MCLs and therefore no violations if found. The purpose of monitoring for these contaminants is to help EPA determine where the contaminants occur and whether they should have a standard. As our customers, you have a right to know that these data are available. If you are interested in examining the results, please contact our office during normal business hours.

Unregulated Contaminants (UCMR 4)		Average	Range (ppb)		Date	
Manganese	C =	5.367	1	to	11	Aug-19
HAA5	C =	34.438	23	to	49	Oct-19
HAA6Br	C =	3.219	1.9	to	4.3	Oct-19
НАА9	C =	38	26	to	53	Oct-19