

## Columbia/Adair Water Water Quality Report for year 2009

555 Griffin Springs Road

Meeting location: 555 Griffin Springs Road

Meeting Dates and Time: Bi-monthy 2nd Thursday of month 4:00PM

KY0011016

Manager: Phone:

CCR Contact:

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Phone:

270-465-2200

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 assessment 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.

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 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. If present, elevated levels of lead can 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 especially for pregnant women and young 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 plumbing. Your local public water system there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to is responsible for providing high quality 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.

## Information About Lead:

problems, health serious children. Lead in drinking water is primarily from materials and components associated with service lines and home 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 http://www.epa.gov/safewater/lead.

Spanish (Español) Este informe contiene información muy importante sobre la calidad de su agua beber. Tradúzcalo o hable con alguien que lo entienda bien.

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. Unless

ontaminants are not expected									
therwise noted, the report leve	el is the high	est level detecte	d		T.		Violetion		
	Allowable Levels		Highest Single Measurement			Lowest	Violation	Likely Source	
					Mo	onthly %			
	No more than					100	No	Soil runoff	
Representative samples	Less than 0.3 NTU in		0.21		100		140	Jon runer	
I IIItoroa mator		thly samples							
Regulated Contaminan	t Test Re	sults			Range	T	Date of	Violation	Likely Source of
Contaminant			Report	icpo				Violation	Contamination
code] (units)	MCL	MCLG	Level	of I	)etect	10n	Sample	1	Contamination
Radioactive Contamina	ants		1			0.5	A 00	No	
Alpha emitters	15	0	0.20	0	to	0.5	Aug-09	140	Erosion of natural deposits
4000] (pCi/L)							A 00	No	
Combined radium	5	0	0.28	0	to	0.5	Aug-09	NO	Erosion of natural deposits
(pCi/L)									
Inorganic Contaminan	its				- In the same of t			T	
Barium								No	- un tel estimation
[1010] (ppm)	2	2	0.02	0.021	to	0.021	Apr-09	No	Drilling wastes; metal refineries; erosion of natural deposits
, , , ,									erosion of natural deposits
Fluoride		4			to	1.23		No	Water additive which promotes
[1025] (ppm)	4		1.06	0.84			Aug	No	strong teeth
[Tone] (FF)							2009		
								To the second se	Runoff from fertilizer use;
Nitrate	10	10	0.33	0	to	0.742	May-09	No	leaching from septic tanks,
[1040] (ppm)									sewage; erosion of natural depos
Di 1 6 1 1 /D' 1 6	tion Dring	oducts and	Precursor	6			de la constantina della consta		
Disinfectants/Disinfec		ounces and	1.20	T	-		T		
Total Organic Carbon (ppm)		21/4	(lowest	1.00	to	1.62	N/A	No	Naturally present in environmen
(measured as ppm, but	TT*	N/A	,			ratios)			
reported as a ratio)		1 1 1 0/	average)	1 required	Annus	al average of	the monthly	ratios must b	e 1.00 or greater for compliance.
*Monthly ratio is the % TOC		hieved to the %	2.05	Trequired.	7 triricio		T		Living and to control
Chlorine	MRDL	MRDLG	2.05	1.08	to	2.74	N/A	No	Water additive used to control microbes.
(ppm)	= 4	= 4	(highest	1.08	i.O	2.14			inicrobes.
			average)	-			1		0.11.6.1
HAA (ppb) (all sites)			69	22	to	126	N/A	Yes	Byproduct of drinking water
[Haloacetic acids]	60	N/A	(system	32			19/74		disinfection
			average)	(range	OI SYS	stem sites)	+	_	
TTHM (ppb) (all sites)			61			111	N/A	No	Byproduct of drinking water
[total trihalomethanes]	80	N/A	(system	21	to	111	IN/A	110	disinfection.
			average)	(range	of sy	stem sites)			
TTHM (ppb)			73.25					Mic	Byproduct of drinking water
[total trihalomethanes]	80	N/A	(locationa		to	111	N/A	No	disinfection.
(Individal Sites)			average)	(range o	of indi	vidual sites)			

In the 3rd quarter of 2009 we exceeded the MCL for HAA5 (Haloacetic Acids). The MCL is 60 ppb and we had a result of 64 ppb. We have performed public notification and the required certification. We also have requested that the Columbia Utilities flush at regular intervals to insure water quality.

Haloacetic acids, or HAA. Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.