EPA requires us to monitor for over 90 drinking water contaminants and those that were detected are listed in the table below. Test results are from 2023 The State does allow reduced monitoring for certain contaminants since their levels do not change significantly over time. For this reason, some of the test results may be more than one year old.

## Definitions and abbreviations:

- 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 Goal or 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 or 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 or 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.
- Parts per billion or ppb: 1 ppb is equivalent to adding 1 pound of a contaminant to 999,999,999 pounds of water (about 120,000,000 gallons).
- Parts per million or ppm: 1 ppm is equivalent to adding 1 pound of a contaminant to 999,999 pounds of water (about 120,000 gallons).
- Picocuries per liter or pCi/l: A measure of radioactivity.

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- Treatment Technique or TT: A required process intended to reduce the level of a contaminant in drinking water.
- ND: Not Detected
- N/A: Not Applicable
- NTU: Nephelometric Turbidity Units

SOUTHWEST	WATER	AUTHO	ORITY'	S TABLE	OF	DETECTED 1	REGULATED CONTAMINANTS
Contaminant (units)	MCLG	MCL	Level Detected	Detection	Test Date	Exceedance or Violation?	Major Sources in Drinking Water
Total Organic Carbon (TOC) Remo	oval						
Alkalinity (ppm) Source Water	N/A	N/A	171	143 – 171	2023	N/A	Natural erosion, plant activities, and certain industrial waste discharges
Total Organic Carbon (ppm) Source Water	N/A	TT	4.12	3.17 – 4.12	2023	N/A	Naturally present in the environment
Total Organic Carbon (ppm) Finished Water	N/A	TT	2.81	2.05 – 2.81	2023	N/A	Naturally present in the environment
Microbial Contaminants		10.00	7 1				
Turbidity <sup>1</sup> (NTU)	N/A	TT = .3	0.18	N/A	2023	100% of samples met turbidity limit	Soil runoff
Inorganic Contaminants							
Barium (ppm)	2	2	0.0126	N/A	2016	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Copper (ppm)	1.3	AL = 1.3	0.0738	N/A	2022	No sites exceeded the Action Level	Corrosion of household plumbing systems: Erosion of natural
Fluoride (ppm)	4	4	0.92	N/A	2016	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Lead <sup>2</sup> (ppb)	0	AL = 15	ND	N/A	2022	No sites exceeded the Action Level	Corrosion of household plumbing systems; Erosion of natural deposits
Nitrate-Nitrite (ppm)	10	10	0.09	N/A	2023	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Radioactive Contaminants					27.7	1 118 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	prosen of natural deposits
Gross alpha, Including RA, Excluding RN & U (pCi/l)	15	15	.359	N/A	2018	No	Erosion of natural deposits
Disinfectants							
Chloramines (ppm)	MRDLG =	MRDL = 4.0	3.2	2.76 – 3.18	2023	No	Water additive used to control microbes
Disinfection Byproducts		21 21					
Total Haloacetic Acids (ppb)	0	60	18	10.73-28.3	2023	No	By-product of drinking water disinfection
Total Trihalomethanes (ppb)	0	80	11	7.05 - 13.8	2023	No	By-product of drinking water disinfection
SOUTHWEST WA	ATER AU	<b>JTHOR</b>	ITY'S	TABLE O	F DE	TECTED UN	REGULATED CONTAMINANTS <sup>2</sup>
Bicarbonate as HCO3 (ppm)	N/A	N/A	208	174- 208	2023	N/A	N/A
Alkalinity, Carbonate	N/A	N/A	6	ND - 6	2022	1771	IV/A

<sup>&</sup>lt;sup>1</sup> Turbidity is a measure of the cloudiness of the water. It is monitored because it is a good indicator of the effectiveness of our filtration system. 
<sup>2</sup> The EPA requires testing for certain unregulated contaminants, but has not established enforceable drinking water standards for them. They are monitored to determine whether or not future regulation is warranted.

The Perkins County Rural Water public water system purchases 100% of their water from North Dakota

## 2023 Table of Detected Regulated Contaminants For Perkins County Rural Water (EPA ID 2228) Terms and abbreviations used in this table:

- \* 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 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.
- \*Action Level(AL): the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow. For Lead and Copper, 90% of the samples must be below the AL.
  \*Running Annual Average(RAA): Compliance is calculated using the running annual average of samples from designated monitoring locations.
- \*MFL: million fibers per liter
- \*mrem/year: millirems per year/a measure of radiation absorbed by the body)
  \*NTU: Nephelometric Turbidity Units

\*ppm: parts per million, or milligrams per liter(mg/l) \*ppb: parts per billion, or micrograms per liter(ug/l) \*pCi/l: picocuries per liter(a measure of radioactivity)

\*pspm: positive samples per month \*ppq: parts per quadrillion, or picograms per liter \*ppt: parts per trillion, or nanograms per liter

			Lead	11	Copper	Substance			
Highest			_	0.1	0.1	90% Level			
		0		C		Action Level	Test Sites >		
		09/20/22		09/19/22	00/10/20	Tested	Date		
Highest Level		AL=15		AL=1.3	(7.5)	(ΔΙ)	Allowed	Level	Highest
deal		0		0	Codi	Coal	Ideal		
		ppb		ppm	CIIIIS	15:45			
	Polywans, success of natural utility.	Corrosion of household plumbing systems: erasion of natural denosita	wood preservatives.	Corrosion of household plumbing systems; erosion of natural denosits: leaching from	Major Source of Contaminant				

						Diana di	
average of test testilis.							
average of test results							
By-product of drinking water chlorination. Results are reported as a running annual	ppb	C	00	02/14/02			(RAA)
arrings of rest testilis.				09/17/22		17.0	10tal trinalomethanes
average of test regults							T-1-11 1 1
By-product of drinking water chlorination. Results are reported as a running annual	odd	<	0				
		0	60	09/12/23		J. 1	(Trans)
tertilizer and aluminum factories.				0010		22 1	Haloacetic Acids (RAA)
Erosion of natural deposits; water additive which promotes strong teeth; discharge from	ppin	4					
F	mm	<4	4	02/07/23	0.74 - 0.95	0.93	
Walor Source of Contaminant	CIIIC	(111000)	(		021	0.05	Fluoride
	Ilnite	(MCI G)	(MCL)	Tested	Kange	Detected	Animorance
		Coal	Dog of the contract		1		Substance
		Goal	Allowed	Date		Level	
		10001	10.0.	1			
		deal	eve			ngnest	
			Ballfill			Himban	

Please direct questions regarding this information to Mr Eric Newman with the Perkins County Rural Water public water system at (605)244-5608.
\* North Dakota test result.