

System Name: Beebe River PWS ID: 0342010

## 2023 Report (2022 data)

### ASSESSMENTS

During the past year we were required to conduct Assessment(s)	Number of assessments required in the reporting year	Number of assessments completed in the reporting year	Number of corrective actions required	Number of corrective actions completed	Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliforms indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments.
Level I	3	3	0	0	
Level II	3	3	1	1	

### LEAD AND COPPER

Contaminant (Units)	Action Level	90 <sup>th</sup> percentile sample value	Date	# of sites above AL	Violation Yes/No	Likely Source of Contamination	Health Effects of Contaminant
Copper (ppm)	1.3	.766	10/22/20	0	No	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives	Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor.

### DETECTED WATER QUALITY RESULTS

Contaminant (Units)	Level Detected	MCL	MCLG	Violation YES/NO	Likely Source of Contamination	Health Effects of Contaminant
<b>Radioactive Contaminants</b>						
Combined Radium 226 + 228 (pCi/L)	.5 11/26/2018	5	0	No	Erosion of natural deposits	Some people who drink water containing radium 226 or 228 in excess of the MCL over many years may have an increased risk of getting cancer.

<b>Inorganic Contaminants</b>						
Nitrate (as Nitrogen) (ppm)	.12 12/28/22	10	10	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits	(5 ppm through 10ppm) 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, you should ask for advice from your health care provider. (Above 10 ppm) Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome.

## SECONDARY CONTAMINANTS

<b>Secondary MCLs (SMCL)</b>	<b>Level Detected</b>	<b>Date</b>	<b>Treatment technique (if any)</b>	<b>AL (Action Level), SMCL or AGQS (Ambient groundwater quality standard)</b>	<b>Specific contaminant criteria and reason for monitoring</b>
Chloride (ppm)	20	12/15/21	N/A	250	Wastewater, road salt, water softeners, corrosion
Fluoride (ppm)	0	12/15/21	N/A	2	Some people who drink water containing fluoride in excess of the MCL over many years could get bone disease, including pain and tenderness of the bones. Fluoride in drinking water at half the MCL or more may cause mottling of children's teeth, usually in children less than nine years old. Mottling also known as dental fluorosis, may include brown staining and/or pitting of the teeth, and occurs only in developing teeth before they erupt from the gums.
Iron (ppm)	.138	12/15/21	N/A	0.3	Geological
Manganese (ppm)	0	12/15/21	N/A	0.05	Geological
Nickel	0	12/15/21	N/A	N/A	Geological; electroplating, battery production, ceramics
PH (ppm)	6.33	12/15/21	N/A	6.5-8.5	Precipitation and geology
Sodium (ppm)	9.41	12/15/21	N/A	100-250	We are required to regularly sample for sodium
Sulfate (ppm)	5.2	12/15/21	N/A	250	Naturally occurring
Zinc (ppm)	0	12/15/21	N/A	5	Galvanized pipes