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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| C:\Users\Judy\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\IR4IKBUT\MP900448623[1].jpg  The Talatha Rural Community Water District routinely monitors for constituents in your drinking water according to federal and state laws. The table in this report shows the results of our monitoring for the period of January 1st to December 31st 2018.  **DEFINITIONS**  In the ‘Test Results’ table to the right, you may find unfamiliar terms and abbreviations. To help you better understand these terms, the following definitions are provided:  ***Action Level (AL)*** – the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.  ***Action Level Goal (ALG)*** – the level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.  ***Avg***  – Regulatory compliance with some MCLs are based on running annual average of monthly samples.  ***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.  ***n/a***  – Not applicable  ***N/D***  – Non-detect  ***Parts per million (ppm) or Milligrams per liter*** – or one ounce in 7,350 gallons of water  ***Parts per billion (ppb) or Micrograms per liter*** **(ug/l)** – or one ounce in 7,350,000 gallons of water  ***Pico curies per liter(pCi/L)*** – Pico curies per liter is a measure of the radioactivity in water.  As you can see below, our system had no violations. We’re proud that your drinking water meets or exceeds all federal and state requirements. We have learned through our monitoring and testing that some constituents have been detected. The EPA has determined that your drinking water **IS SAFE** at these levels. | | | | | | | | |
| **TEST RESULTS** | | | | | | | | |
| **RADIOACTIVE CONTAMINANTS** | | | | | | | | |
| **Contaminant** | Collection  Date | Highest  Level  Detected | Range of Levels  Detected | MCLG | MCL | Units | Violation | Likely Source of Contamination |
| Gross Alpha emitters  Excluding radon and uranium | 2018 | 3.5 | 1.9-3.5 | 0 | 15 | pCi/L | N | Erosion of natural deposits |
| Combined Radium  226/228 | 2018 | 3.8 | 2.5-3.8 | 0 | 5 | pCi/L | N | Erosion of natural deposits |
| **INORGANIC CONTAMINANTS** | | | | | | | | |
| **Contaminant** | Collection  Date | Highest  Level  Detected | Range of Levels  Detected | MCLG | MCL | Units | Violation | Likely Source of Contamination |
| Nitrate (measured as Nitrogen) | 2019 | 2.6 | 0.81– 2.6 | 10 | 10 | ppm | N | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits |
| **LEAD AND COPPER** | | | | | | | | |
| **Contaminant** | Collection Date | MCLG | Action Level (AL) | 90th Percentile | # Sites over AL | Units | Violation | Likely Source of Contamination |
| Copper | 2018 | 1.3 | 1.3 | 0.006 | 0 | ppm | N | Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems |
| Lead | 2018 | 0 | 15 | .48 | 0 | ppb | N | Corrosion of household plumbing systems; Erosion of natural deposits |
| **DISINFECTANTS AND DISINFECTION BY-PRODUCTS** | | | | | | | | |
| **Contaminant** | Collection  Date | Highest  Level  Detected | Range of Levels  Detected | MRDLG | MRDL/MCL | Units | Violation | Likely Source of Contamination |
| Chlorine | 2019 | .7 | .54-.84 | 4 | MRDL=4 | ppm | N | Water additive used to control microbes |
| Trihalomethanes  (TTHMs) | 2019 | 4.5 | 4.5 – 4.5 | n/a | MCL= 80 | ppb | N | By-product of drinking water disinfectant |