

Panquitch City

2022 Annual Drinking Water Quality Report

We're pleased to present to you this year's Annual Drinking Water Quality Report. This report is designed to inform you about the quality of the water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water delivery process and protect our water resources. We are committed to ensuring the quality of your water. Our water sources are Delong Creek Springs, Indian Hollow and the Panquitch City Well.

The Drinking Water Source Protection Plan for Panquitch City is available for your review. It contains information about source protection zones, potential contamination sources and management strategies to protect our drinking water. Our sources have a medium susceptibility to potential contamination. We have also developed management strategies to further protect our sources from contamination. Please contact us if you have questions or concerns about our source protection plan.

This report shows our water quality and what it means to you, our customer.

If you have any questions about this report or concerning your water utility, please contact Panquitch City at (435) 676-8585. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings. They are held on the second and fourth Tuesday of each month beginning at 6:30 pm, in the Panquitch City Conference room, 25 South 200 East.

Panguitch City routinely monitors constituents in our drinking water in accordance with the Federal and Utah State laws. The following table shows the results of our monitoring for the period of January 1st to December 31st, 2022. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some constituents. It's important to remember that the presence of these constituents does not necessarily pose a health risk.

Cross Connection Customer Education:

There are many connections to our water distribution system. When connections are properly installed and maintained, the concerns are very minimal. However, unapproved, and improper piping changes or connections can adversely affect not only the availability, but also the quality, of the water. A cross connection may let polluted water or even chemicals mingle into the water supply system when not properly protected. This not only compromises the water quality but can also affect your health. So, what can we do? Do not make or allow improper connections at your homes. Even that unprotected garden hose lying in the puddle next to the driveway is a cross connection. The unprotected lawn sprinkler system after you have fertilized or sprayed is also a cross connection. When the cross connection is allowed to exist at your home it will affect you and your family first. If you'd like to learn more about helping to protect the quality of our water, call us for further information about ways you can help.

In the following table you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

Non-Detects (ND) - laboratory analysis indicates that the constituent is not present.

ND/Low - High - For water systems that have multiple sources of water, the Utah Division of Drinking Water has given water systems the option of listing the test results of the constituents in one table, instead of multiple tables. To accomplish this, the lowest and highest values detected in the multiple sources are recorded in the same space in the report table.

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 (ug/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) or Nanograms per liter (nanograms/l) - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

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 (MCL) - (mandatory language) The "Maximum Allowed" (MCL) is 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.

Date- Because of required sampling time frames i.e. yearly, 3 years, 4 years and 6 years, sampling dates "May" seem out of date.

Waivers (W)- Because some chemicals are not used or stored in areas around drinking water sources, some water systems have been given waivers that exempt them from having to take certain chemical samples, these waivers are also tied to Drinking Water Source Protection Plans.

| TEST RESULTS | | | | | | | |
|--|---------------|----------------------------|------------------|-----------------|--|--------------|---|
| Contaminant | Violation Y/N | Level Detected ND/Low-High | Unit Measurement | MCLG | MCL | Date Sampled | Likely Source of Contamination |
| Microbiological Contaminants | | | | | | | |
| 1. Total Coliform Bacteria | N | 0 | N/A | 0 | Presence of coliform bacteria in 5% of monthly samples | 2022 | Naturally present in the environment |
| 2. Fecal coliform and <i>E.coli</i> | N | 0 | N/A | 0 | If a routine sample and repeat sample are total coliform positive, and one is also fecal coliform or <i>E. coli</i> positive | 2022 | Human and animal fecal waste |
| Turbidity for Ground Water | N | 0.2-2.32 | NTU | N/A | 5 | 2022 | Soil runoff |
| Radioactive Contaminants | | | | | | | |
| Beta/photon emitters | N | 0 - 4.4 | mrem/yr | 0 | 4 | 2013 | Decay of natural and man-made deposits |
| Gross Alpha – excluding radon and uranium | N | 2.1 | pCi/l | 0 | 15 | 2019 | |
| Inorganic Contaminants | | | | | | | |
| Arsenic | N | 1.3-1.6 | ppb | 0 | 10 | 2022 | Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes |
| Barium | N | 0.006-0.008 | ppm | 2 | 2 | 2022 | Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits |
| Copper a. 90% results b. # of sites that exceed the AL | N | a. 0.095 b. 0 | ppm | 0 | AL=1.3 | 2021 | Corrosion of household plumbing systems; erosion of natural deposits |
| Cyanide | N | 2 | ppb | 200 | 200 | 2016 | Discharge from steel/metal factories; discharge from plastic and fertilizer factories |
| Fluoride | N | 0.22 – 0.319 | ppm | 4 | 4 | 2022 | Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories |
| Lead a. 90% results b. # of sites that exceed the AL | N | a. 3.4 b. 0 | ppb | 0 | AL=15 | 2021 | Corrosion of household plumbing systems, erosion of natural deposits |
| Nitrate (as Nitrogen) | N | 0.168 - 1 | ppm | 10 | 10 | 2022 | Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits |
| Selenium | N | 0.8 | ppb | 50 | 50 | 2022 | Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines |
| Sodium | N | 9.393 – 11.162 | ppm | None set by EPA | None set by EPA | 2022 | Erosion of natural deposits; discharge from refineries and factories; runoff from landfills. |
| Sulfate | N | 3.494 – 17.7 | ppm | 1000* | 1000* | 2022 | Erosion of natural deposits; discharge from refineries and factories; runoff from landfills, runoff from cropland |
| TDS (Total Dissolved Solids) | N | 164-192 | ppm | 2000** | 2000** | 2022 | Erosion of natural deposits |
| Haloacetic Acids | N | 4.9 | ppb | 0 | 60 | 2016 | By-product of drinking water disinfection |
| TTHM [Total trihalomethanes] | N | 4.5 | ppb | 0 | 80 | 2022 | By-product of drinking water disinfection |

| Radioactive Contaminants | | | | | | | |
|--------------------------|---|-----------|-------|---|----|------|-----------------------------|
| Alpha emitters | N | 0.81-2.9 | pCi/l | 0 | 15 | 2021 | Erosion of natural deposits |
| Combined | N | 0.43 | pCi/l | 0 | 5 | 2020 | Erosion of natural deposits |
| Radium 226 | N | 0.3 | pCi/l | 0 | 5 | 2020 | Erosion of natural deposits |
| Radium 228 | N | -0.23-1.1 | pCi/l | 0 | 5 | 2021 | Erosion of natural deposits |

Total Coliform. Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.

Fecal coliform/E.Coli. Fecal coliforms and E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal waste. Microbes in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, and people with severely.

Copper. 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.

Lead. Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.

Nitrate. 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.

Sodium. Sodium is an essential nutrient. However, some people who drink water containing sodium in excess of the MCL may experience health problems.

As you can see by the table, 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 water IS SAFE at these levels.

All sources of drinking water are subject to potential contamination by constituents that are naturally occurring or are man made. Those constituents can be microbes, organic or inorganic chemicals, or radioactive materials. All 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 the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

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. Panguitch City 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>.

MCL's are set at very stringent levels. To understand the possible health effects described for many regulated constituents, 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.

Total Coliform: The Total Coliform Rule requires water systems to meet a stricter limit for coliform bacteria. Coliform bacteria are usually harmless, but their presence in water can be an indication of disease-causing bacteria. When coliform bacteria are found, special follow-up tests are done to determine if harmful bacteria are present in the water supply. If this limit is exceeded, the water supplier must notify the public by newspaper, television or radio. To comply with the stricter regulation, we have increased the average amount of chlorine in the distribution system.

Nitrates: As a precaution we always notify physicians and health care providers in this area if there is ever a higher than normal level of nitrates in the water supply.

Lead: Lead in drinking water is rarely the sole cause of lead poisoning, but it can add to a person's total lead exposure. All potential sources of lead in the household should be identified and removed, replaced or reduced.

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 microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

We at Panguitch City work around the clock to provide top quality water to every tap. We ask that all our customers help us protect our water sources, which are the heart of our community, our way of life and our children's future.

In addition to the samples outline above, we have sampled for many other substances that were not detected. If you would like a list of the specific substances sampled for, please contact Dave Owens or Lori Talbot at (435) 676-8585.

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April 13, 2023

Brandi Smith
CCR Compliance
Division of Drinking Water
P.O. Box 144830
Salt Lake City, Utah 84114-4830
ddwreports@utah.gov
brandismith@utah.gov

Dear Ms. Smith,

Subject: Consumer Confidence Report for Panquitch City- # 09007

Enclosed is a copy of Panquitch City's Consumer Confidence Report. It contains the water quality information for our water system for the calendar year 2022 or the most recent sample data.

We have delivered this report to our customers by:

Publishing the entire report in Panquitch City website, notice on our water bill and sending a copy to those that request a copy. We also allow inspection of the report at the water system office.

If you have any questions, please contact me at (435) 676-8585.

Sincerely,



David Owens
Panquitch City