



2018 WATER QUALITY REPORT

Draper City

What's Inside?

- Protecting our Sources
- How You Can Help
- 2018 Water Quality Test Results
- Cross Connection

Water Quality

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.



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Draper City 2018 ANNUAL WATER QUALITY REPORT

CUSTOMER SERVICE

We want you to understand the efforts we make to continually improve the water distribution process and protect our water resources. We are committed to ensuring the quality of your water.

JOIN US

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 first and third Tuesday of each month at 7:00 PM.

CONTACT

Chris Saylor
Water Manager
(801) 576 - 6385



Your Drinking Water

We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. Our water source has been determined to be from groundwater and surface water sources. We purchase water from Jordan Valley Water Conservancy District (#18027).

I'm pleased to report that our drinking water meets federal and state requirements. We at Draper City Water System 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.

Source Protection

The Drinking Water Source Protection Plan for Draper City Water System 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 been determined to have a low level of susceptibility from potential contamination. Please contact Jordan Valley Water Conservancy District if you have questions or concerns about their source protection plan.

Cross Connection

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 you 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.

Potential Health Risks Related to Drinking Water

All sources of drinking water are subject to potential contamination by constituents that are naturally occurring or manmade. 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.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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 from their health care providers about drinking water. 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).

SAMPLE TABLE

Draper City Water System routinely monitors for 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, 2018. 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. 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.

Contaminant	Violation Y/N	Level Detected ND/High-Low	Unit Measurement	MCLG	MCL	Date Sampled	Likely Source of Contamination
Microbiological Contaminants							
Total Coliform Bacteria	N	0	N/A	0	Presence of coliform bacteria in 5% of monthly samples	2018	Naturally present in the environment
Fecal Coliform and E. Coli	N	0	N/A	N/A	5	2018	Human and animal fecal waste
Turbidity for Ground Water	N	0.02-0.59	NTU	N/A	5	2018	Soil runoff
Turbidity for Surface Water	N	0.01-0.15	NTU	N/A	0.5 in at least 95% of the samples and must never exceed 5.0.	2018	Soil runoff (highest single measurement & the lowest monthly percentage of samples meeting the turbidity limits)
Inorganic Contaminants							
Arsenic	N	2.7	ppb	0	10	2018	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium	N	ND -116	ppb	2000	2000	2018	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Carbon, Total Organic (TOC)	N	0.580-3.1	ppm	NA	TT	2018	Naturally present in the environment
Chromium	N	15.6	ppb	100	100	2018	Discharge from steel and pulp mills; erosion of natural deposits
Copper a. 90% results b. # of sites that exceed the AL	N	a. 0.35 b. 0	ppm	1.3	AL= 1.3	2016	Corrosion of household plumbing systems; erosion of natural deposits
Fluoride	N	0.2-0.8	ppm	4	4	2018	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. 1.2 b. 0	ppb	0	AL=15	2016	Corrosion of household plumbing systems, erosion of natural deposits.
Nitrate (as Nitrogen)	N	0.10-2.9	ppm	10	10	2018	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits.
Selenium	N	ND-1.7	ppb	50	50	2018	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Sodium	N	9.5-21.2	ppm	None set by EPA	None set by EPA	2018	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills.
Sulfate	N	3-56	ppm	1000	1000	2018	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills, runoff from cropland
TDS (Total Dissolved Solids)	N	22-326	ppm	2000	2000	2018	Erosion of natural deposits
Inorganic Contaminants							
TTHM [Total Trihalomethanes]	N	33.9-68.3	ppb	0	80	2018	By-product of drinking water disinfection
Haloacetic Acids	N	8.36-40.5	ppb	0	60	22018	By-product of drinking water disinfection
Radioactive Contaminants							
Alpha Emitters	N	ND-9.4	pCi/L	0	15	2018	Erosion of natural deposits
Combined	N	ND-3.11	pCi/L	0	5	2018	Erosion of natural deposits
Radium 226	N	ND-1.30	pCi/L	0	5	2018	Erosion of natural deposits
Radium 228	N	ND-3.00	pCi/L	0	5	2018	Erosion of natural deposits
Volatile Organic Contaminants (VOCs)							
Chloroform	N	ND-28.0	Ug/L	UR	NE	2018	By-product of drinking water disinfection
Dibromochloromethane	N	ND-2.0	Ug/L	UR	NE	2018	By-product of drinking water disinfection
Bromodichloromethane	N	ND-7.9	Ug/L	UR	NE	2018	By-product of drinking water disinfection
All Other Parameters	N	ND	Ug/L	Various	Various	2018	Various Sources



TABLE CONTINUED...

Contaminant	Violation Y/N	Level Detected ND/High-Low	Unit Measurement	MCLG	MCL	Date Sampled	Likely Source of Contamination
Unregulated Contaminants							
Alkalinity, Bicarbonate	N	99-182	Mg/L	NE	UR	2018	Naturally Occurring
Alkalinity, Carbonate	N	ND-4.0	Mg/L	NE	UR	2018	Naturally Occurring
Alkalinity, CO2	N	77-132	Mg/L	NE	UR	2018	Naturally Occurring
Alkalinity, Hydroxide	N	ND	Mg/L	NE	UR	2018	Naturally Occurring
Alkalinity, Total (CaCO3)	N	20-148	Mg/L	NE	UR	2018	Naturally Occurring
Ammonia	N	ND-0.30	Mg/L	NE	UR	2018	Runoff from fertilizer and naturally occurring
Bromide	N	ND-8.91	Ug/L	NE	UR	2018	Naturally Occurring
Calcium	N	23-52	Mg/L	NE	UR	2018	Erosion of naturally occurring deposits
Conductance	N	49-445	Umhos/cm	NE	UR	2018	Naturally Occurring
Cyanide, Total	N	ND-2.0	Ug/L	NE	UR	2018	Discharge from steel/metal factories; discharge from plastic fertilizer factories
Geosmin	N	ND-4.2	Ng/L	NE	UR	2018	Naturally occurring organic compound associated with musty odor
Hardness, Calcium	N	16-170	Mg/L	NE	UR	2018	Erosion of naturally occurring deposits
Hardness, Total	N	97-1217	Mg/L	NE	UR	2018	Erosion of naturally occurring deposits
Magnesium	N	9.2-13.6	Mg/L	NE	UR	2018	Erosion of naturally occurring deposits
Molybdenum	N	ND-3.4	Ug/L	NE	UR	2018	By-product of copper and tungsten mining
Orthophosphates	N	ND	Ug/L	NE	UR	2018	Erosion of naturally occurring deposits
Potassium	N	ND-2.8	Mg/L	NE	UR	2018	Erosion of naturally occurring deposits
TSS (Total Suspended Solids)	N	ND	Mg/L	NE	UR	2018	Erosion of naturally occurring deposits
Vanadium	N	ND-5.01	Ug/L	NE	UR	2018	Naturally Occurring

TABLE DEFINITIONS

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.
- Parts per quadrillion (ppq) or Picograms per liter (picograms/l) - 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) - picocuries per liter is a measure of the radioactivity in water.
- Millirems per year (mrem/yr) - measure of radiation absorbed by the body.
- Million Fibers per Liter (MFL) - million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.
- Nephelometric Turbidity Unit (NTU) - nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.
- Action Level (AL) - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- Treatment Technique (TT) - A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.
- Maximum Contaminant Level (MCL) - 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.
- Maximum Contaminant Level Goal (MCLG) - The "Goal"(MCLG) is 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.
- Date- Because of required sampling time frames i.e. yearly, 3 years, 4 years and 6 years, sampling dates may seem outdated.
- 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.

Lead

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. Draper City Water System 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>.

Total Coliform Rule

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.

MCLs

MCLs 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.