

Annual Drinking Water Quality Report

Glen Canyon SSD of Big Water

2018

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 treatment process and protect our water resources. We are committed to ensuring the quality of your water. Our water sources have been determined to be from groundwater sources. Our water sources are Well 1 and Well 2.

The Drinking Water Source Protection Plan for Glen Canyon SSD of Big Water 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 from sources such as roads. 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.

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.

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 **David Schmuker at 435-660-1777**. 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 quarterly. Please contact the clerk for dates and times.

Glen Canyon SSD of Big Water 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.

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.

Picocuries per liter (pCi/L) - picocuries per liter is a measure of the radioactivity in water.

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.

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

TEST RESULTS							
Contaminant	Violation Y/N	Level Detected ND/Low-High	Unit Measurement	MCLG	MCL	Date Sampled	Likely Source of Contamination
Microbiological Contaminants							
Total Coliform Bacteria	N	1	N/A	0	Presence of coliform bacteria in 5% of monthly samples	2018	Naturally present in the environment
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	2018	Human and animal fecal waste

Turbidity for Ground Water	N	0.21	NTU	N/A	0.3	2017	Soil runoff
Inorganic Contaminants							
Arsenic	N	2.6	ppb	0	10	2017	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium	N	0.014	ppm	2	2	2017	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.0.1 b.0	ppm	1.3	AL=1.3	2018	Corrosion of household plumbing systems; erosion of natural deposits
Fluoride	N	0.2	ppm	4	4	2017	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. 0 b. 0	ppb	0	AL=15	2018	Corrosion of household plumbing systems, erosion of natural deposits
Nitrate (as Nitrogen)	N	ND	ppm	10	10	2018	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium	N	1.6	ppb	50	50	2017	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Sodium	N	49.6	ppm	None set by EPA	None set by EPA	2017	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills.
Sulfate	N	24.5	ppm	1000	1000	2017	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills, runoff from cropland
TDS (Total Dissolved solids)	N	572	ppm	2000	2000	2017	Erosion of natural deposits
Radioactive Contaminants							
Alpha emitters	N	1.6	pCi/l	0	15	2017	Erosion of natural deposits
Beta/Photon	N	3	Mrem/yr	0	5	2017	Some people who drink water containing beta and photon emitters in excess of the MCL over many years may have an increased risk of getting cancer.
Gross alpha excluding Radon and uranium	N	11.7	pCi/l	0	15	2011	Erosion of natural deposits
Radium 228	N	0.29	pCi/l	0	5	2017	Erosion of natural deposits

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. Glen Canyon SSD of Big Water 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>.

SIGNIFICANT PHYSICAL DEFICIENCY (SIG)

Quote SIG from IPS	Survey Date	Action Plan
Storage facility shows evidence of leakage	09/24/2014	The storage tank is inactive, repairs have been made and waiting for approval to put in service. The project should have been completed by 01/22/2018.

TCR QUALITY VIOLATIONS

Routine Major (Code 23)

We constantly monitor for various constituents in the water supply to meet all regulatory requirements. In July 2018 we failed to test for coliform bacteria. Water quality may change without any visible indication due to unanticipated environmental factors. For this reason, we are required to sample for coliform bacteria on a monthly basis. This violation does not necessarily pose a health risk. We have reviewed why we failed to take our routine coliform bacteria tests and have taken steps to ensure that it will not happen again.

Chlorine Residual Monitoring (Code 27)

We periodically monitor for a Chlorine Residual in the distribution system to meet all regulatory requirements. In the 3rd quarter 2017 we failed to take the required samples. Testing for a Chlorine Residual is used to ensure that the public is provided with safe drinking water. This violation does not necessarily pose a health risk. We have reviewed why we failed to take the required samples and will take steps to ensure that it will not happen again.

Public Notice Violation (Code 71)

Owners or operators of a public water system are required to provide public notice for violations of drinking water standards or monitoring requirements. In 2016 we failed to provide the public with the Consumer Confidence Report as required and we are late with 2018. We have reviewed why we failed to provide public notice as required and will take steps to ensure that it will not happen again.

Disinfection By-Products Monitoring (Code) (DBP)

We periodically monitor for a Disinfection By-Products in the distribution system to meet all regulatory requirements. In the 2017 we failed to take the required samples. Testing for a Chlorine Residual is used to ensure that the public is provided with safe drinking water. This violation does not necessarily pose a health risk. We have reviewed why we failed to take the

required samples and will take steps to ensure that it will not happen again.

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.

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.

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. 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).

We at Glen Canyon SSD of Big Water 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.

Glen Canyon SSD of Big Water
P.O.Box 410037
Big Water, Utah 84741

10/7/2019

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

Dear Ms. Smith:

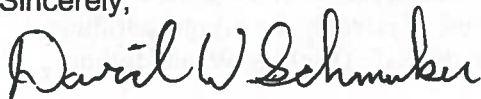
Subject: Consumer Confidence Report for Glen Canyon SSD of Big Water # 13003.

Enclosed is a copy of Glen Canyon SSD of Big Water Consumer Confidence Report. It contains the water quality information for our water system for the calendar year 2018 or the most recent sample data.

- We have delivered this report to our customers by: Putting a notice of the availability of the report on our water bills, then mailing a report to those who request it.
- Making copies of the report available at the water office.

If you have any questions, please contact me at 435-660-1777.

Sincerely,



David Schmucker
Glen Canyon SSD of Big Water

It is the Water System's responsibility to report accurate data to their customers! Please review your consumer confidence report before publishing or providing copies to your customers. RWAU cannot track or guarantee the accuracy of any data pulled from the DDW website or other sources. Please check your records with what the DDW has on file for you on their website to ensure it is accurate.

