

2025 Annual Drinking Water Quality Report

Town of Alta

We are pleased to present to you this year's Annual Water Quality Report. This report is designed to inform you about the water quality and services we deliver to you every day. Our goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we take to continually improve the water treatment process and protect our water resources.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it can dissolve naturally occurring minerals and, in some cases, radioactive materials, and can pick up substances resulting from the presence of animals or human activity.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can naturally occur or result from urban storm water runoff, industrial or domestic wastewater discharge, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.
- Radioactive contaminants, which can naturally occur or be the result of oil and gas production and mining activities.

To ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in the water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide protection for human health.

BACKGROUND

The Town of Alta (TOA) operates a water system at the headwaters of Little Cottonwood Canyon at an elevation of approximately 8,600 feet. Our population is 228 residents, but our customer base in the winter can exceed 5,000. Our partner in the water business and in protecting the watershed in the canyon is Salt Lake County Service Area #3 (Service Area) at Snowbird, with whom we contract for operation and maintenance of our system. The Service Area has a full-time staff of three as well as a two-person part-time staff of night operators. The Service Area can also supply us with water from their system in an emergency.

WATER SOURCE

Our only source of culinary water is the deep-shaft workings of the Bay City Tunnel (drainage tunnel to the famous Emma Mine) located across the street from The Snowpine Lodge. Ground water is pumped from a 300-foot-deep vertical shaft located 1,800 feet from the portal of the mine. This water is pumped to a storage reservoir above the tunnel that stores 350,000 gallons of water. We also have a pumping station west of the Alta Lodge to boost water from the Service Area in an emergency and approximately 3 miles of distribution piping. All our contract system operators are continually trained and are State certified in water treatment and distribution, at levels above those required by law.

The mines that store our are part of a vast silver mining complex that dates back to 1868. There are over 100 miles of mine tunnels on the mountains above Alta that help supply our ground water needs. Surface water is very sparse at this altitude, especially in the winter.

SOURCE PROTECTION

TOA has a Drinking Water Source Protection Plan that is available for your review. It contains information about our source protection zones, potential contamination sources, and management strategies to protect our drinking water. The Bay City Tunnel has been determined to have a **medium susceptibility level** to potential sources of contamination. The potential contamination sources that could affect the tunnel include roads, residential areas, and holding tanks. We have also developed management strategies to further protect our source from contamination. If you have any questions or concerns about source protection you may contact the TOA to review our 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, contact us about ways you can help.

The Town of Alta is very pleased to report to our customers that our drinking water meets federal and state requirements.

QUESTIONS

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 Town Council meetings at the Alta Post Office Building; meeting details are on our website. For questions about this report or concerns about your water utility, please contact the General Manager or Town Clerk at the numbers listed at the end of this report.

MONITORING PERIOD

TOA routinely monitors for constituents in your drinking water according to Federal and State laws. The table enclosed shows the results of our monitoring for the period of January 1st to December 31st, 2025. 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.

DEFINITIONS

In the table provided are many terms and abbreviations you might not be familiar with. To help you better understand these terms we have 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 out-dated.

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 SUMMARY

Our system had no water quality violations, and your drinking water meets or exceeds all Federal and State requirements. We have learned through monitoring and testing that some constituents have been detected. **The EPA has determined that your water IS SAFE at these levels.**

MONITORING AND REPORTING VIOLATIONS

The TOA water system failed to complete a full round of testing in 2025 for Pesticides in the water source. This is due to a sample scheduling oversight. Multiple samples need to be collected in separate quarters of the year; we did not realize this and began sampling in November. We are resampling for these contaminants in 2026 to get back on track with the schedule mandated by the Division of Drinking Water. Please reach out if you have any questions or concerns.

RADON

We constantly monitor the water supply for various constituents. We have detected radon in the water supply of the Bay City Tunnel in 1 out of 1 samples tested. There is no federal regulation for radon levels in drinking water. Exposure to air transmitted radon over a long period of time may cause adverse health effects. Radon is a radioactive gas, which is naturally occurring in some ground water. It poses a lung cancer risk when the gas is released from your water into the air (as occurs during showering, bathing, or washing dishes or clothes), and a stomach cancer risk when you drink water containing radon. Radon gas released from drinking water is a relatively small part of the total radon in air. Other sources are radon gas from soil, which enter homes through foundations, and radon inhaled directly while smoking cigarettes. Experts are not sure exactly what the cancer risk is from a given level of radon in your drinking water. If you are concerned about radon in your home, tests are available to determine the total exposure level. For additional information on how to have your home tested contact Project Environment Radon Hotline 800-458-0145.

PFAs

Perfluoroalkyls and Polyfluoroalkyls are manufactured chemicals that have been used in various products since the 1940s. They are primarily used in stain and water-resistant materials, cleaning products, paints, and firefighting foams. These substances, which make up a very diverse group of thousands of different chemicals have been shown to cause severe effects in various ecosystems and the health of humans. Due to these impacts the EPA is implementing new drinking water treatment requirements for this chemical group. Nationwide testing for these forever chemicals is ongoing and will provide better data on the extent to which PFAS has contaminated surface and groundwater reservoirs. Little Cottonwood Canyon and the state of Utah are predicted to be low on the scale of contamination when compared to eastern states and more industrial regions of the country. **We sampled twice for PFAs in our water source during 2025 and both results came back as non-detectable.**

CRYPTOSPORIDIUM

We are required to test our sources of drinking water and our treated tap water for the presence of Cryptosporidium. Cryptosporidium is a microbial parasite found in surface water throughout the United States. When ingested, it can cause gastrointestinal distress for otherwise healthy people and more serious illness or death for people with weak immune systems. We did not find any Cryptosporidium in our source (untreated) water or finished (treated) water. We don't believe you need to worry about these results. We have a modern and effective filtration plant, and as far as we know, filtration is the single best protection against Cryptosporidium.

TURBIDITY

Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea and associated headaches.

LEAD

Sixteen lead and copper samples were collected during 2025. Sampling results can be obtained by [reaching](#) out to the TOA.

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. TOA is responsible for providing high quality drinking water and removing lead pipes but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact TOA at 801-742-3522. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <http://www.epa.gov/safewater/lead>.

SERVICE LINE INVENTORY

TOA has completed an initial lead service line inventory. This inventory includes information on the service line material that connects water mains to buildings/houses. This inventory can be accessed at <https://ddwlead-hub.maps.arcgis.com/apps/dashboards/690020443e57445783a050c410affd78>

IS BOTTLED WATER BETTER?

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 through the EPA's Safe Drinking Water Hotline at 1-800-426-4791 or www.epa.gov/safewater

SPECIAL HEALTH ALERT

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised people such as people with cancer undergoing chemotherapy, people 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) or www.epa.gov/safewater

WHAT DETERMINES THE MCL LEVEL?

Maximum Contaminant Levels (MCLs) are set to very stringent standards. 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.

VALUE OUR WATERSHED

The TOA receives ground water that is recently recharged by the snowmelt and surface water systems high in Little Cottonwood Canyon. Any type of pollution in these high alpine watersheds can cause long-lasting or even permanent damage to our valuable drinking water sources and fragile ecosystems. The canyon is also a major water resource to the Salt Lake Valley. We are all stewards of this watershed and must play an active role in the protection of it. Prevention is much cheaper than water treatment. Please keep a watchful eye and

report any watershed violations or suspicious activity to the TOA, Service Area, or SLC Department of Public Utilities. Please observe the following best practices:

- Do not play in or near the bank of any stream, lake, reservoir, or wetlands area.
- Do not bring dogs or other pets into the canyon watersheds that are not specifically licensed to be in the canyon.
- Do not empty or drain any oil, gasoline, solvents, paints, grease, or other hazardous household or commercial contaminants into the canyon environment – regardless of quantity.
- Do not play on or tamper with any of our water storage reservoirs or facilities on the mountain.
- Stay away from high erosion areas and do your best to plant water efficient native vegetation in areas of your property that are susceptible to soil erosion.
- Do not remove any native vegetation or tamper with any erosion control devices.
- Use public restrooms when skiing or recreating in the canyon.
- Use only a minimal amount of salt on your driveways in the winter.
- Do not litter and keep all your solid waste contained in animal-proof and weather-resistant enclosures or areas.

WHAT IS IN STORE FOR THE FUTURE?

In our continuing efforts to maintain a safe and dependable water supply it is always necessary to make improvements in your water system. There are portions of the distribution system that are over 50 years old. We will continue to replace or upgrade them as needed. The costs of some of these upgrades or improvements have been reflected in the rate structure. Rate adjustments were made this year to address some of these larger concerns and improvements.

We at the TOA work around the clock to provide top quality water to every tap. We test more often than required for contaminants that concern us and we truly are committed to the preservation and delivery of pure water. We ask again that all our customers help us protect our water sources and the canyon watershed. These assets are irreplaceable, and they are the heart of our community, our way of life and our children's future. We are pleased to keep you informed and educated on all water matters within our service area. We are committed to ensuring the quality of your water and will present you with this report every year. Please reach out if you have questions.

Jen Clancy – Town Clerk (801) 742-3522

Kasey Carpenter – General Manager Salt Lake County Service Area #3 (801) 278-9660

2025 TEST RESULTS							
Contaminant	Violati on Y/N	Level Detected	Unit Measurement	MCLG	MCL	Date Sampled	Likely Source of Contamination
Microbiological Contaminants							
Coliform Bacteria	N	0	N/A	0	5	2025	Naturally present in the environment
Turbidity for Ground Water	N	0.08	NTU	N/A	0.3	2025	Soil runoff
Radioactive Contaminants							
Alpha emitters	N	1.74	pCi/L	0	15	2024	Erosion of natural deposits
Beta/photon emitters	N	1.9	pCi/L	0	5	2012	Erosion of natural deposits
Radium 228	N	0.1	pCi/L	0	5	2018	Erosion of natural deposits
Radon	N	<300	pCi/L	N/A	N/A	1992	Erosion of natural deposits
Inorganic Contaminants							
Antimony - monitored more than once per year and the result is reported as an average for 2025	N	5.30***	ppb	6	6	2025	Erosion of natural deposits; discharge from petroleum refineries; fire retardants; ceramics; electronics; solder.
		3.9 – 7.4					
Arsenic	N	0.6	ppb	0	10	2022	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium	N	0.022	ppm	2	2	2025	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Cadmium	N	0.4	ppb	5	5	2025	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints
Cyanide	N	3.2	ppb	200	200	2022	Discharge from plastic and fertilizer factories; Discharge from steel /metal factories
Fluoride	N	0.13	ppm	4	4	2022	Erosion of natural deposits; Water additives which promote strong teeth; Discharge from fertilizer and aluminum factories
Mercury	N	0.3	ppb	0.2	2	2016	Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills; Runoff from cropland.
Copper a. 90% results b. # of sites that exceed the AL	N	a. 0.186 b. 0	ppm	1.3	AL=1.3	2025	Corrosion of household plumbing systems; erosion of natural deposits; leeching from wood preservatives
Lead a. 90% results b. # of sites that exceed the AL	N	a. 7.5 b. 2	ppb	0	AL=15	2025	Corrosion of household plumbing systems, erosion of natural deposits
Nitrate (as Nitrogen)	N	0.111	ppm	10	10	2025	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium	N	1.3	ppb	50	50	2019	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Sodium	N	1.624	ppm	500	None set by EPA	2025	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills.
Sulfate	N	5.108	ppm	1000	1000	2025	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills, runoff from cropland
TDS (Total Dissolved solids)	N	204	ppm	2000	2000	2025	Erosion of natural deposits
TOC (Total Organic Carbon)	N	0.005	ppm	0	0	2018	Naturally present in the environment
Disinfection By-products							
TTHM [Total trihalomethanes]	N	5.54	ppb	0	80	2025	By-product of drinking water disinfection
Haloacetic Acids	N	2.831	ppb	0	60	2025	By-product of drinking water disinfection
Chlorine	N	0.45	ppm	4	4	2021	Water additive used to control microbes