



TRUCKEE DONNER

Public Utility District

2022 WATER QUALITY REPORT

Truckee Main System PWS# 2910003

Customer Views Are Welcome

The Truckee Donner Public Utility District encourages community participation in the public process. If you are interested in participating in the TDPUD's decision-making process, you are welcome to attend Board Meetings.

The Board of Directors meets at 6:00 PM on the first and third Wednesday of each month in the TDPUD Board room, located at 11570 Donner Pass Road, Truckee, California. Agendas for upcoming meetings may be obtained on our website or from the Deputy District Clerk's office, (530) 582-3980.

For More Information:

- ◇ About this report or the water treatment process, contact Truckee Donner Public Utility District's Senior Water Quality Technician, Clay Walker at (530)582-3926.
- ◇ About water conservation and efficiency, the TDPUD has water conservation programs that will help customers save water and save money. Information can be found on our website or by calling (530) 587-3896.

For more information about us, please visit our website at www.tdpud.org.

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Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien.

Water Quality

Truckee Donner Public Utility District takes pride in delivering the highest quality of water to its customers. The water quality staffs goal is to exceed State and USEPA water quality standards. Staff takes 520 routine bac-t samples annually along with Title 22 monitoring samples. All samples are examined by a certified ELAP laboratory using a methodology required by State and Federal laws. The data in this brochure is a snapshot of the quality of water provided to TDPUD customers for the 2022 calendar year. This report includes details about your local water resources, water quality monitoring data, and how it compares to State and USEPA standards.

Truckee Donner Public Utility District is committed to providing you with information about your water supply because customers who are well informed are key to the collaborative process in identifying improvements that are necessary to maintain the highest drinking water standards.

It is important to note, that while the TDPUD strives to meet all State and Federal drinking water standards, 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, people who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly individuals, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. USEPA/Centers for Disease Control (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 at (800)426-4791 or <https://www.epa.gov/ground-water-and-drinking-water/safe-drinking-water-hotline>.

Lead in Residential Plumbing

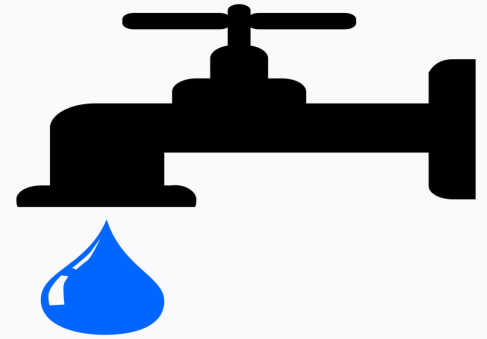
If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. In circumstances where lead is detected in drinking water, it is primarily derived from materials and components associated with service lines and residential plumbing. TDPUD is responsible for providing high quality water, but cannot control the variety of materials used in plumbing components within private property. If your water has been sitting for a prolonged period of time, 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. We conduct routine sampling for lead every three years. The last sampling was performed in 2022, where all sites tested below the Federal action level for lead. The next round of lead sampling is scheduled for the summer of 2025. More information about lead in drinking water, testing methods, and steps you can take to minimize exposure can be found at www.epa.gov/lead.

Where Our Water Comes From

Drinking water served to Truckee Donner Public Utility District customers in the Truckee system is groundwater that comes from 10 deep wells. Because of natural filtration, the groundwater aquifer is protected from surface water contamination, giving us a high quality of drinking water.

Cryptosporidium and Giardia

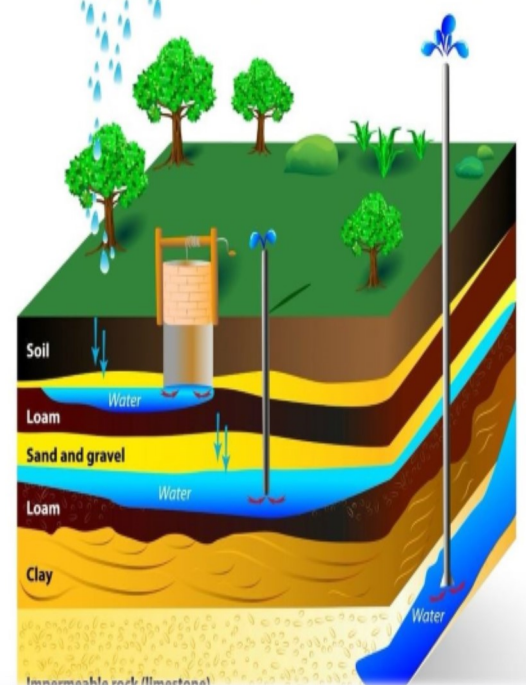
Recognizing that our potable water sources are exclusively deep groundwater wells, the presence of microscopic organisms such as Cryptosporidium and Giardia in our water is highly unlikely. If ingested, Cryptosporidium and Giardia can cause diarrhea, fever, and other gastrointestinal symptoms.



Source Water Assessment

A source water assessment was prepared in 2002 for the wells serving the Truckee area. The wells are located throughout the town of Truckee and Glenshire. The District owns and operates 10 wells varying in depth from 120ft to 500ft. The complete source water assessment and known vulnerabilities may be viewed at the Truckee Donner Public Utility District office, located at 11570 Donner Pass Road, Truckee, California, or by calling Chad Reed at (530)582-3984.

What is Ground Water?



Arsenic

In 2001 the United States Environmental Protection Agency (USEPA) adopted new standards for arsenic in drinking water. They lowered the maximum contaminant level from 50 parts per billion (ppb), down to 10 ppb. Since most people are not familiar with ppb, One part per billion would be equivalent to 1 second in 32 years so this an extremely small number. With this being considered, the drinking water from Truckee Donner Public Utility District meets the current Federal and State standards for arsenic. The USEPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans with prolonged exposures at elevated concentrations and has potential links to other health effects such as skin damage and circulatory problems.

Water Source Blending: The TDPUD operates the Glenshire Drive Well, Prosser Village Well and Old Greenwood Well under a SWRCB approved blending permit. The blending permit ensures lower detectable concentrations of arsenic in drinking water prior to being conveyed into the distribution system. The arsenic monitoring sample results from the blending point ranged from a low of 0.0 ppb to a high of 10.0 ppb with an average of 4.7 ppb. The MCL for arsenic is 10 ppb.

Radon

Radon is a radioactive gas that you cannot see, taste, or smell. It is found throughout the United States. Radon can move up through the ground and into a home through cracks and holes in structural foundations. Radon can accumulate in all types of homes. Radon can also get into indoor air when released from tap water from showering, washing dishes, and other household activities. Compared to radon entering the home through ground sources, radon exposure through water sources are typically far less common and much smaller in magnitude. Radon is a known human carcinogen. Exposure to air containing radon has been known to lead to lung cancer. Drinking water containing radon may also cause increased risk of stomach cancer. If you are concerned about radon levels in your home, testing is recommended. Testing can be relatively inexpensive and easy. Radon mitigation and removal for your home is recommended for detectable concentrations in excess of 4 picocuries per liter of air (pCi/L). There are often simple ways to fix a radon problem that are not too costly. For additional information, call your State radon program (1-800-745-7236), the USEPA Safe Drinking Water Hotline (1-800-426-4791), or the National Safety Council Radon Hotline (1-800-SOS-RADON).



Water Hardness

Occasionally, a water user will need to adjust an appliance, such as a dishwasher or water softener, to a particular setting based upon the hardness of the water served to their home or business.

Please use the information provided below to help with water hardness questions.

Water Softener / Appliance Setting

In 2022 testing, TDPUD had an average hardness result of 71.0 mg/L. That translates to an average of 4.1 grains per gallon. One grain per gallon equals 17.1 mg/L.

Degree of Hardness	Grains per Gallon (gpg)	ppm (or mg/L)
Soft	< 1.0	< 17.0
Slightly Hard	1.0 - 3.5	17.1 - 60
Moderately Hard	3.5 - 7.0	60 - 120
Hard	7.0 - 10.5	120 - 180
Very Hard	> 10.5	> 180

Substances That Could Be In Water

The sources of drinking water (both tap 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 dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.



In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (USEPA) and the State Water Resources Control Board (State Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Board regulations also establish limits for contaminants in bottled water that provide the same protection for public health. 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 water poses a health risk.

Contaminants that may be present in source water include:

Microbial Contaminants, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife;

Inorganic Contaminants, such as salts and metals, that can be naturally occurring or can result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming;

Pesticides and Herbicides, that may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses;

Organic Chemical Contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and which can also come from gas stations, urban stormwater runoff, agricultural applications, and septic systems;

Radioactive Contaminants, that can be naturally occurring or can be the result of oil and gas production and mining activities.

More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline at (800) 426-4791.

Table Key

N/A: not applicable

N/D: not detectable at testing limit

ppm: parts per million or milligrams per liter (mg/L)

ppb: parts per billion or micrograms per liter (µg/l)

ppt: parts per trillion or nanograms per liter (ng/L)

pCi/L: picocuries per liter (a measure of radiation)

(µS/cm): micro Siemens per centimeter

Definitions

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

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 are set by the U.S. Environmental Protection Agency (USEPA).

Public Health Goal (PHG): The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

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.

Primary Drinking Water Standards (PDWS): MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

Secondary Drinking Water Standards (SDWS): MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL levels.

Regulatory Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.



The data in the following tables is from the most recent monitoring done in compliance with Federal and California drinking water regulations. Some data may be more than one year old. Based upon Federal and State requirements, the monitoring interval for each constituent varies, and can be any one of the following: weekly, monthly, semi-annually, annually, biennially, or once every three, six, or nine years, or as deemed necessary by regulatory agencies.

TABLE 1 – SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA

Microbiological Contaminants	Highest No. of Detections	No. of months in violation	MCL	MCLG	Typical Source of Bacteria
Total Coliform Bacteria	0	0	More than 5% of samples in a month with a detection	0	Naturally present in the environment

TABLE 2 – DISINFECTION BYPRODUCTS

Contaminant	# Samples, Frequency	Average Level	Range	MCL (MDRL)	MCLG (MDRLG)	Typical Source of Contaminant
Chlorine Residual (ppm)	40-50 per month	0.38	.36-.41	4	4	Drinking water disinfectant added for treatment
Haloacetic Acids (ppb)	2 on 9/14/22	1.70	0-3.5	60	N/A	By-product of drinking water disinfection
Total Trihalomethanes (ppb)	2 on 9/14/22	10.5	10.1-11	80	N/A	By-product of drinking water disinfection

TABLE 3 – DISTRIBUTION CUSTOMER TAP SAMPLING FOR LEAD AND COPPER

Lead and Copper	Date Last Sampled	No. of samples collected	90th percentile level detected	No. sites exceeding AL	AL	PHG	Typical Source of Contaminant
Lead (ppb)	August 2022	32	7.0	0	15	0.2	Internal corrosion of household plumbing systems; discharges from industrial manufactures, erosion of natural deposits
Copper (ppm)	August 2022	32	0.180	0	1.3	0.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

TABLE 4- LEAD SAMPLING FOR SCHOOL DISTRICT

Contaminant	Date sampled	No. of Schools Re-questing Lead Sam-pling	Range	No. sites exceeding AL	AL	PHG	Typical Source of Contami-nant
Lead (ppb)	Dec-18	8	< 0.2	0	15.0	0.2	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

TABLE 5- UNREGULATED COMPOUNDS

Chemical or Constituent (reporting units)	Date Last Sampled	Average Level Detected	Range of Detec-tions	MCL	PHG (MCLG)	Typical Source of Contami-nant
Alkalinity (as CaCO ₃) (ppm)	2022	77	69-88	N/A	N/A	Naturally present in water
Bicarbonate Alkalinity (as HCO ₃) (ppm)	2022	77	69-88	N/A	N/A	Naturally present in water
Calcium (ppm)	2022	15	11-33	N/A	N/A	Natually occurring
Potassium (ppm)	2022	3.3	2.1-8.3	N/A	N/A	Leaching of natural deposits

TABLE 6 – DETECTION OF CONTAMINANTS PRIMARY DRINKING WATER STANDARD

Chemical or Constituent (reporting units)	Date Last Sampled	Average Level Detected	Range of Detec-tions	MCL	PHG (MCLG)	Typical Source of Contami-nant
Arsenic (ppb)	2022	4.70	N/D - 10	10	0.004	Erosion of natural deposits
Barium (ppb)	2022	17.70	7.1-29	1000	2000	Erosion of natural deposits
Chromium, Total (ppb)	2022	0.50	N/D - 1.4	100	100	Erosion of natural deposits
Chromium, Hexavalent (ppb)	2020/2021	0.90	0.33 - 1.20	0	0	Erosion of natural deposits
*Note	The State of California does not have an MCL for Hexavalent Chromium (ppb). The previous MCL of 0.0010 mg/l was withdrawn On September 11, 2017					
Fluoride (ppm)	2022	0.01	N/D - 0.63	2	1	Erosion of natural deposits
Nitrate as N (ppm)	2022	0.30	N/D - 0.58	10	10	Runoff and leaching from ferti-lizer use; leaching from septic tanks and sewage; erosion of natural deposits
Turbidity (NTU)	2022	0.20	N/D - 0.45	5	5	Soil runoff
Gross Alpha Particle Activity (pCi/L)	2007-2018	0.7	N/D - 4.6	15	0	Erosion of natural deposits
Radon (pCi/L)	2004	90.8	N/D -560	N/A*	N/A*	Erosion of natural deposits
*Note	The State of California does not have an MCL for Radon. The EPA has an advisory MCL of 4000 pCi/L for Radon.					

TABLE 7 – DETECTION OF CONTAMINANTS SECONDARY DRINKING WATER STAND-ARD

Chemical or Constituent (reporting units)	Date Last Sampled	Level Detected	Range of Detec- tions	MCL	PHG (MCLG)	Typical Source of Contami- nant
Chloride (ppm)	2022	11.7	1-62	250	N/A	Leaching of natural deposits
Odor-Threshold (TON)	2022	0.4	N/D - 1	3	N/A	Naturally-occurring organic materials
pH	2022	8.1	8-8.2	6.5 - 8.5	6.5 - 8.5	Leaching of natural deposits
Specific Conductance (μ S/cm)	2019	182	110 - 380	1600	N/A	Substances that form ions when in water.
Total Dissolved Solids (ppm)	2019	122	110 - 230	500	N/A	Leaching of natural deposits

FREQUENTLY ASKED QUESTIONS

Q. Why does my water smell and taste like chlorine?

A. Chlorine is regularly injected into the water at the source as a disinfectant that aids in eliminating potentially harmful bacteria present in water. In high demand summer month's chlorine taste may be more noticeable because the water is "fresh" or "newer" and has not had time to dissipate through the system. Chlorine can also gas off in warm/hot water which produces a smell stronger than normal. Some people are more sensitive than others to the taste and smell of chlorine and may become aware of occasional changes. This is normal and safe. Chlorine levels are continually monitored.

Q. Why does my water taste like metal?

A. The source water is ground water, which has a mineral content that might give off a metal taste some are not used too. Sometimes plumbing can cause a metal taste, especially if water has been sitting in pipes for several hours. It's best to flush the lines for of couple minutes if water has sat in pipes for an extending period of time, however, this does not indicate a higher or lower degree of water quality.

Q. Why is there white crust on my shower head?

A. The minerals in water may leave white spots on glasses, coffeepots, shower heads and shower doors. These spots are calcium deposits and are not harmful to health.

Q. Why is there a black ring around my toilet?

A. This black ring some may find after returning home when water has sat in the bowl for extending period of time is mold. Mold will grow in dark, wet, cool places making the toilet bowl a perfect place for that. If this accrues adding bleach to the bowl and letting it sit works best. To avoid this, leave a small amount of bleach in the bowl before leaving for more than a couple days.

Q. What causes cloudy water?

A. Cloudy or milky water is usually caused by trapped air picked up from an air pocket in the water main or internal plumbing. Sometimes flows or water cascading within the aqueduct can also trap air, similar to a waterfall. If water sits in a glass or pitcher for a few minutes the air will dissipate and become clear.

