

2022 Consumer Confidence Report

Water System Name: **Stallion Springs CSD** Report Date: **June 2023**

We test the drinking water quality for many constituents as required by State and Federal Regulations. This report shows the results of our monitoring for the period of January 1 - December 31, 2022 and may include earlier monitoring data.

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

Type of water source(s) in use: Groundwater from four (4) wells

Name & location of source(s): CV-2, CV-3, P-17, and Y-23 Wells in Stallion Springs and Cummings Valley.

Drinking Water Source Assessment information: Available at the Stallion Springs CSD office for review.

Time and place of regularly scheduled board meetings for public participation: Meetings are held the third Tuesday of each month at: 27800 Stallion Springs Drive, Tehachapi, CA @ 6:00 p.m.

For more information, contact: Jim Burris - Public Services Phone: 661-822-3269
Supervisor

TERMS USED IN THIS REPORT

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.

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

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

Variances and Exemptions: State Board permission to exceed an MCL or not comply with a treatment technique under certain conditions.

Level 1 Assessment: A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

Level 2 Assessment: A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an *E. coli* MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

ND: 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)

ppq: parts per quadrillion or picogram per liter (pg/L)

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

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 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.

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 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, that are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural application, and septic systems.
- *Radioactive contaminants*, that can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the 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.

Tables 1, 2, 3, 4, 5, and 6 list all of the drinking water contaminants that were detected during the most recent sampling for the constituent. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The State Board allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though representative of the water quality, are more than one year old. Any violation of an AL, MCL, MRDL, or TT is asterisked. Additional information regarding the violation is provided later in this report.

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
<i>E. coli</i>	(In the year) 0	0	(a)	0	Human and animal fecal waste

(a) Routine and repeat samples are total coliform-positive, and either is *E. coli*-positive, or system fails to take repeat samples following *E. coli*-positive routine sample or system fails to analyze total coliform-positive repeat sample for *E. coli*.

TABLE 2 - SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER

Lead and Copper (complete if lead or copper detected in the last sample set)	No. of samples collected	90 th percentile level detected	No. sites exceeding AL	AL	PHG	Typical Source of Contaminant
Lead (ppb) Sample Date: 9/20/2021	10	ND	0	15	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm) Sample Date: 9/20/2021	10	0.310	0	1.3	0.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

TABLE 3 - SAMPLING RESULTS FOR SODIUM AND HARDNESS

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	2021	57.75	30-85	none	none	Salt present in the water and is generally naturally occurring
Hardness (ppm)	2021	124.32	9.3-250	none	none	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring

TABLE 4 - DETECTION OF CONTAMINANTS WITH A PRIMARY DRINKING WATER STANDARD

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
Uranium (pCi/L)	2021	1.0	1.0	20	0.43	Erosion of natural deposits
Gross Alpha (pCi/L)	2022	3.14	3.10-3.17	15	(0)	Erosion of natural deposits
Radium 228 (pCi/L)	2021	ND	ND	5	0.19	Erosion of natural deposits
Chlorine	Daily	0.50	0.20-2.0	4	4	Drinking water disinfectant added for treatment
Arsenic (ppb)	2022	ND	ND	10	4	Erosion of natural deposits
Barium (ppm)	2022	0.130	0.130	1	2	Erosion of natural deposits
Fluoride (ppm)	2021	0.355	0.13-0.71	2	1	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate as N (ppm)	2022	5.17	0.41-12	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Nitrite (ppm)	2021	0.047	ND-0.19	1	1	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Selenium (ppb)	2022	ND	ND	50	50	Erosion of natural deposits
1,2,3-Trichloropropane (ppb) (Results are from CV-2 Well)	2022	0.003	ND-0.015	0.005	0.005	Discharge from industrial and agricultural chemical factories; leaching from hazardous waste sites; used as cleaning and maintenance solvent, paint and varnish remover, and cleaning and degreasing agent; byproduct during the production of other compounds and pesticides.
1,2,3-Trichloropropane (ppb) (Treatment Plant)	2022	ND	ND	0.005	0.005	Discharge from industrial and agricultural chemical factories; leaching from hazardous waste sites; used as cleaning and maintenance solvent, paint and varnish remover, and cleaning and degreasing agent; byproduct during the production of other compounds and pesticides.

TABLE 5 - DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Aluminum (ppb)	2021	67.5	ND-270	200	N/A	Erosion of natural deposits
Chloride (ppm)	2021	42.25	19-97	500	N/A	Runoff from natural deposits
Iron (ppb)	2021	1150	ND-4600	300	N/A	Leaching from natural deposits
Color (units)	2021	3.5	1.0-10	15	N/A	Naturally occurring organic materials
Odor (units)	2021	ND	ND	3	N/A	Runoff/leaching from natural deposits
Sulfate (ppm)	2021	46.75	22-74	500	N/A	Runoff/leaching from natural deposits
Total Dissolved Solids (ppm)	2021	367.5	230-470	1000	N/A	Runoff/leaching from natural deposits
Turbidity (NTU)	2021	6.74	0.18-26	5	N/A	Soil runoff
Specific Conductance (uS/cm)	2021	540.75	304-652	1600	N/A	Substances that form ions when in water; seawater influence
Zinc (ppm)	2021	0.137	ND-0.550	5	N/A	Runoff/leaching from natural deposits

TABLE 6 – DETECTION OF UNREGULATED CONTAMINANTS

Chemical or Constituent	Sample Date	Level Detected	Range of Detections	PHG	Health Effects Language
Hexavalent Chromium (ppb)	5-12-15 CV #3 Well	4.0	4.0	N/A	Some people who drink water containing hexavalent chromium in excess of the MCL over many years may have an increased risk of getting cancer.

There is currently no MCL for hexavalent chromium. The previous MCL of 0.010 mg/L was withdrawn on September 11, 2017.

For additional information: https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/documents/chromium6/chrome_6_faqs.pdf.

STAGE 2 DETECTION OF DISINFECTANTS/DISINFECTION BYPRODUCT RULE MONITORING

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Total Trihalomethanes (TTHMs) (ppb)	2021	6.5	6.5	80	N/A	Byproduct of drinking water disinfection
Haloacetic Acids (5) (HAA5) (ppb)	2022	ND	ND	60	N/A	Byproduct of drinking water disinfection

**Summary Information for Violation of a MCL, MRDL, AL, TT,
or Monitoring and Reporting Requirement**

TABLE 7 - VIOLATION OF A MCL, MRDL, AL, TT, OR MONITORING AND REPORTING REQUIREMENT				
Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language
State Violation-Monitoring and Reporting (Major)	<p>The 2nd quarter nitrate sample collected on April 28th from Lot 156 Leisure Well had a result of 12 mg/L which exceeds the nitrate MCL of 10 mg/L, and we failed to collect a repeat sample within 24 hours of notification by the laboratory.</p> <p>We also failed to issue a Tier 1 Public Notice to our customers when we were unable to collect a follow-up nitrate sample within 24 hours of receiving the high nitrate result from the laboratory.</p> <p>Due to our failure to collect a follow-up nitrate sample from Lot 156 Leisure Well in a timely manner following the high nitrate sample from April 28th, we are unsure of the nitrate level in the drinking water between April 28 and May 31, 2022.</p>	2 nd quarter of 2022	<p>A follow-up sample was collected on May 31st from Lot 156 Leisure Well.</p> <p>Per consultation with the State Water Board staff, we collected follow-up nitrate samples on May 31st from Lot 156 Leisure Well, five storage tanks, and nine routine bacteriological sampling sites in the distribution system. The results were all below the nitrate MCL of 10 mg/L.</p> <p>The average of the nitrate samples collected on April 28th and May 31st from Lot 156 Leisure Well was 11 mg/L which exceeds the nitrate MCL of 10 mg/L.</p> <p>Lot 156 Leisure Well is no longer in use and has been physically disconnected from the distribution system.</p>	Nitrate in drinking water at levels above 10 mg/L is a health risk for infants of less than six months of age. Such nitrate levels in drinking water can interfere with the capacity of the infant's blood to carry oxygen, resulting in serious illness; symptoms include shortness of breath and blueness of the skin. Nitrate levels above 10 mg/L may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should ask advice from your health care provider.

TABLE 7 - VIOLATION OF A MCL, MRDL, AL, TT, OR MONITORING AND REPORTING REQUIREMENT				
Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language
Monitoring, Routine, Major (RTCR)	<p>We are required to collect four routine bacteriological samples per month.</p> <p>Our water system failed to collect four routine bacteriological samples in the month of June.</p>	June 2022	<p>We provided 'Public Notification' of the failure to collect the four routine bacteriological samples. In the future, we will make sure to collect routine monthly samples early in the month to allow enough time to collect a replacement sample (if needed) before the end of the month.</p>	Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. During the month of June, we failed to collect four routine bacteriological samples and therefore cannot be sure of the quality of your drinking water during that time.

Additional General Information on Drinking Water

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 USEPA's Safe Drinking Water Hotline (1-800-426-4791).

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. USEPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

***A Treatment Plant has been installed for the removal of 1,2,3-Trichloropropane and the water entering the distribution system has sample results of ND.**

Chlorine: some people who use water containing chlorine well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chlorine well in excess of the MRDL could experience stomach discomfort.”

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. Stallion Springs CSD 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 (1-800-426-4701) or at <http://www.epa.gov/lead>.

Infants and young children are typically more vulnerable to lead in drinking water than the general population.

Nitrate: Nitrate in drinking water at levels above 10 mg/L is a health risk for infants of less than six months of age. Such nitrate levels in drinking water can interfere with the capacity of the infant's blood to carry oxygen, resulting in serious illness; symptoms include shortness of breath and blueness of the skin. Nitrate levels above 10 mg/L may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should ask advice from your health care provider.

Nitrite: Infants under the age of six months who drink water containing nitrite in excess of the MCL may quickly become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blueness of the skin.

Why are the terms "ppm" and "ppb" Important?

The terms refer to exposure standards and guidelines created to protect the public from harmful substances that can cause serious health effects. Exposure standards and guidelines are created from risk assessments that include dose response, exposure and hazard identification assessments. The following comparisons and information may be helpful:

1 standard atmosphere of water (1 liter of pure water at 4 degrees Celsius) weighs 1,000,000 mg or one (1) kilogram (2.2 lbs.); 1 liter = 1.06 quarts.

One ppb = 1 inch in 16,000 miles; 1 cent in \$10 million; 1 second in 32 years; one drop in an Olympic swimming pool.

One ppm = 1 inch in 16 miles; 1 minute in 2 years; 1 cent in \$10,000; one drop in 55 gallons.

Consumer Confidence Report Certification Form

(To be submitted with a copy of the CCR)

Water System Name: **Stallion Springs CSD**

Water System Number: **1510025**

The water system named above hereby certifies that its Consumer Confidence Report was distributed on _____ (date) to customers (and appropriate notices of availability have been given). Further, the system certifies that the information contained in the report is correct and consistent with the compliance monitoring data previously submitted to the Department of Public Health.

Certified by: Name: _____
Signature: _____
Title: _____
Phone Number: () _____ Date: _____

To summarize report delivery used and good-faith efforts taken, please complete the below by checking all items that apply and fill-in where appropriate:

- ☐ CCR was distributed by mail or other direct delivery methods. Specify other direct delivery methods used: _____
- ☐ "Good faith" efforts were used to reach non-bill paying consumers. Those efforts included the following methods:
- ☐ Posting the CCR on the Internet at www. _____
 - ☐ Mailing the CCR to postal patrons within the service area (attach zip codes used)
 - ☐ Advertising the availability of the CCR in news media (attach copy of press release)
 - ☐ Publication of the CCR in a local newspaper of general circulation (attach a copy of the published notice, including name of newspaper and date published)
 - ☐ Posted the CCR in public places (attach a list of locations)
 - ☐ Delivery of multiple copies of CCR to single bill addresses serving several persons, such as apartments, businesses, and schools
 - ☐ Delivery to community organizations (attach a list of organizations)
- ☐ For systems serving at least 100,000 persons: Posted CCR on a publicly-accessible internet site at the following address: www. _____
- ☐ For privately-owned utilities: Delivered the CCR to the California Public Utilities Commission