



2024 City of Ripon Water Quality Report

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Public Participation

City of Ripon citizens are encouraged to provide input. City Council Meetings are held at the City Hall Council Chamber at 6:00 pm on the second Tuesday of each month.

Message from the Public Works Director

I am pleased to share the 2024 Water Quality Report with the community. This report is a summary of the quality of water provided to our customers in 2024, including details about where the water comes from, water quality testing, and how these results compare to regulatory standards. The information in this report is for the period Jan. 1—Dec. 31, 2024, and is also submitted formally and routinely to the California State Water Resources Control Board, Division of Drinking Water (DDW), which monitors our compliance with the many regulatory standards and testing protocols required to assure safe drinking water.

I am proud to report the water provided to our customers in 2024 met all United States Environmental Protection Agency (U.S. EPA) and State drinking water standards.

We understand the responsibility we have to share information about the water being provided to our residents and businesses in the most transparent way possible. If you have any questions about the information in this report, or the City of Ripon water system, please contact me at 209-599-2108.

James Pease
Public Works Director

Water Conservation: On April 11, 2023, the Ripon City Council adopted water conservation measures that incorporate current State Water Board mandates and reflect the importance of preserving the City's groundwater supply. The City of Ripon thanks everyone for their overwhelming participation in conservation over the past years and we encourage residents to continue water conservation practices. For more information on water conservation visit www.cityofripon.org/waterconservation.



Water Use Guidelines

- No watering between 10 am and 6 pm.
- **During the months of March through October, all properties with an even address are allowed to water Tuesday, Thursday, and Saturday. All properties with an odd address are allowed to water Wednesday, Friday, and Sunday.**
- During the months of November through February, all properties with an even address are allowed to water on Saturday. All properties with an odd address are allowed to water on Sunday.
- No excessive watering, which is considered water that leaves the property of origin in a continuous flow for 150 feet from the property, or for more than five minutes in duration.
- Residents not following the prescribed watering conservation measures may be subjected to a fine after the first written warning – \$50 for first violation within one year, \$100 for a second violation within that same year, \$200 after a third violation during that same one-year period, and \$400 for each additional violation within a one year period.
- To notify the City of water conservation violations visit: www.cityofripon.org/reportaproblem or call us at 209-599-2108.

City of Ripon
Public Works Department
259 N. Wilma Avenue
Ripon, CA 95366

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2024

City of Ripon

Water Quality Report



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

YOUR WATER SYSTEM



Trichloroethylene (TCE) Information

Ripon's drinking water contains a number of compounds that are regulated – a fact that applies to most public water suppliers in the State. In the last 10 years, one active groundwater well (Municipal Well #3) that supplied drinking water contained measurable amounts of TCE and its breakdown product known as cis-1,2-Dichloroethylene (cis-1,2-DCE). In 2018, the concentration of cis-1,2-DCE in Municipal Well #3 increased close enough to the Maximum Contaminant Level (MCL) that the City made the proactive decision to stop supplying drinking water from Municipal Well #3. Municipal Well #3 supplied 0% of the City's drinking water in 2024. The City is still required to perform water quality testing on wells, even when drinking water is not supplied and both **TCE and cis-1,2-DCE were below the MCL in 2024.**

For more than 30 years, Nestlé has worked under the direction of the Regional Water Quality Control Board (Water Board) to monitor the safety of the drinking water supply and act to protect the health of the people in Ripon. Nestlé has made and continues to make every effort to remediate TCE, which was associated decades ago with decaffeinated coffee production at its long-closed facility. Working closely with the City and other experts in water management, Nestlé has implemented a variety of coordinated cleanup and water protection measures to significantly reduce the chemicals of concern and limit the spread of impacted groundwater. All entities involved are continually working together to ensure the levels of TCE and related compounds in the municipal drinking water supply do not exceed MCLs. Nestlé's TCE cleanup efforts have had a positive impact and we realize the importance of continuing to monitor these remediation efforts to ensure the continued safety of the drinking water supply.

Water Sources and System Operation

In 2024, all of Ripon's drinking water originated from five groundwater wells. One of the wells is located on the west side of Highway 99 and four are located on the east side of the highway. These wells tap aquifers located approximately 125 to 500 feet below the ground's surface. The aquifers are replenished by rainfall, the Stanislaus River and agricultural irrigation water.

Water is pumped from the wells directly into the City's water distribution system. The maximum pumping capacity from all of the wells is 7,350 gallons per minute (gpm). The City also has two elevated storage tanks with a combined storage capacity of 4 million gallons that are capable of providing an additional 10,000 gpm to support peak demand or fire-fighting needs. The Ripon water system is designed to adjust to demand and can be supplied from a single well or any combination of wells, ensuring the water is efficiently supplied to your tap.

Drinking Water Source Assessment

Source water assessments were conducted by the the State of California in 2002 for groundwater wells supplying the water system. The City of Ripon has conducted source water assessments for each new well that has come on-line since 2002. The assessments concluded that the City of Ripon wells are subject to possible contamination from the following sources within the wells' sphere of influence: sewer collection system, high-density septic system, wastewater treatment, and disposal facilities.

Additional activities that increase vulnerability are parks, high density housing, schools, body shops, gas stations (including historic), repair shops, printing shops, research labs, paper processing facilities, parking lots, cemeteries, hardware/part stores, office complexes, RV/mini storages, irrigation wells, farming activities, freeways, railroads, storm detention basins, and medical/dental offices.

For more information about the City of Ripon's source water assessments please stop by our Public Works Department at 259 N. Wilma Avenue, Ripon, CA 95366.

Frequently Asked Questions

What is the pH of Ripon's Water? The pH of Ripon's water, after treatment, ranges from 7.4 to 8.1 standard units. The average pH is 7.8 units.

Why does my water appear milky or cloudy? During summer months, you may notice your tap water may seem "cloudy" or "milky." After a few seconds of it sitting, it clears up. This condition is known as "entrained air." Entrained air is harmless and is caused by high water usage and not having enough time for the air or tiny bubbles to dissipate due to the water demand in summer months. Sometimes the air comes back out of the water in the form of many tiny bubbles, giving the water a "milky" appearance.

Why does my water look rusty sometimes? Rusting galvanized pipe in the plumbing systems is the typical cause of discolored water. Iron causes the discoloration; it is not a health risk. If cold water is discolored, it will clear after running a bit. If hot water is discolored, the water heater may need flushing. When flushing your water heater, please follow the manufacturer's directions. If you need to replace your water heater, contact the Building Department for a permit at 209-599-2108 or visit www.cityofripon.org/buildingpermits.

2024 WATER QUALITY INFORMATION

Contaminants with a Primary Drinking Water Standard

Contaminant (Unit)	MCL	PHG	Average	Range	Sample Date	In Compliance	Typical Source
Arsenic (ppb)	10	0.004	5.9	4.8 - 6.9	2023 - 2024	Yes	Erosion of natural deposits, runoff from orchards; glass and electronics production wastes
Barium (ppb)	1,000	2,000	136	82 - 320	2023 - 2024	Yes	Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits
Chlorine (as Cl ₂) (ppm)	MRDL = 4.0	MRDLG = 4	0.7	0.32 - 1.26	2024	Yes	Drinking water disinfectant added for treatment
Fluoride (naturally occurring) (ppm)	2	1	0.15	0.12 - 0.18	2023 - 2024	Yes	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Gross Alpha (pCi/L)	15	MCLG = 0	2.5	ND - 6.7	2018 - 2024	Yes	Erosion of natural deposits
Nitrate (as N) (ppm)	10	10	4	2.4 - 6.6	2024	Yes	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Total Trihalomethanes (ppb)	80	N/A	1.5	ND - 1.8	2024	Yes	Byproduct of drinking water disinfection
Uranium (pCi/L)	20	0.43	0.8	ND - 3.2	2015 - 2024	Yes	Erosion of natural deposits

Lead & Copper (unit)	AL	PHG	90th Percentile	Range	Sample Date	In Compliance	Typical Source
Copper (ppm)	1.3	0.3	0.088	30 sites sampled; 0 sites over AL	2023 ²	Yes	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (ppb)	15	0.2	ND	30 sites sampled; 0 sites over AL	2023 ²	Yes	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits

¹All water systems are required to comply with the state Lead and Copper Rule (LCR), water systems are also required to comply with the federal LCR, and its revisions and corrections.

²The City of Ripon is required to monitor for lead and copper every three years. The last monitoring was conducted in 2023. The next round is scheduled for 2026.

Microbiological Contaminants	Highest No. of Detection	No. of Months in Violation	¹ MCL	MCLG	Year Tested	In Compliance	Typical Source
<i>E.coli</i>	0	0	0	0	2024	Yes	Human and animal fecal waste

¹Exceeded if routine and repeat samples are total coliform-positive and either is *E. coli*-positive, the system fails to take repeat samples following an *E. coli*-positive routine sample, or the system fails to analyze a total coliform-positive repeat sample of *E. coli*.

State-Regulated Contaminants with Notification Levels

Contaminant (Unit)	NL	Average	Range	Sample Date	In Compliance	Typical Source
Naphthalene (ppb)	17	0.12	ND - 0.6	2017 - 2019	Yes	Used extensively in ball (mothballs) or flake form as a larvacide, and as a repellent for various species; constituent of wood smoke and found in coal tar

Contaminants with Secondary Drinking Water Standards

Contaminant (Unit)	SMCL	Average	Range	Sample Date	In Compliance	Typical Source
Chloride (ppm)	500	110	9.3 - 290	2023 - 2024	Yes	Runoff/leaching from natural deposits; seawater influence
Foaming Agents [MBAS] (ppb)	500	14	ND - 68	2023 - 2024	Yes	Municipal and industrial waste discharges
Specific Conductance (µS/cm)	1,600	518	280 - 1,200	2023 - 2024	Yes	Substances that form ions when in water; seawater influence
Sulfate (ppm)	500	13	11 - 17	2023 - 2024	Yes	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids (TDS) (ppm)	1,000	368	230 - 790	2023 - 2024	Yes	Runoff/leaching from natural deposits
Turbidity (NTU) ¹	5	0.09	ND - 0.22	2023 - 2024	Yes	Soil Runoff

¹Turbidity is a good measure of the cloudiness of water. We monitor it because it is a indicator of water quality. High turbidity can hinder the effectiveness of disinfectants.

Unregulated Compounds

Contaminant (Unit)	PHG	Average	Range	Sample Date	Typical Source
Alkalinity, Total as CaCO3 (ppm)	N/A	113	89 - 150	2023 - 2024	Naturally occurring
Calcium (ppm)	N/A	35	24 - 63	2023 - 2024	Naturally occurring
Hardness as CaCO3 (ppm)	N/A	130	84 - 230	2023 - 2024	The sum of polyvalent cations present in the water, generally magnesium and calcium. The cations are usually naturally occurring.
Hexavalent Chromium (ppb) ¹	0.02	8	6.3 - 9.2	2015 - 2023	Sources are from natural erosion of mineral deposits and from human made sources such as dyes, paints, metal alloys, chrome plating liquid wastes
Lithium (ppb)	N/A	2	ND - 9.9	2024	Naturally occurring, industrial discharge from processes involving lithium batteries
Magnesium (ppm)	N/A	10	6 - 18	2023 - 2024	Naturally occurring
Potassium (mg/L)	N/A	4.5	3.6 - 6.3	2023 - 2024	Naturally occurring
Sodium (mg/L)	N/A	49	20 - 140	2023 - 2024	Sodium refers to the salt present in the water and is generally naturally occurring

¹The California State Water Board adopted the Hexavalent Chromium MCL Regulation with an effective date of October 1, 2024. The MCL is 10 µg/L. The compliance date for the City of Ripon is October 1, 2026. In 2024, hexavalent chromium was an unregulated contaminant.

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

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.

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 (U.S. EPA).

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.

Notification Level (NL): Health-based advisory levels for unregulated contaminants in drinking water. They are used by DDW to provide guidance to drinking water systems

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.

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): SMCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL levels.

Secondary MCLs (SMCL): The highest level of a contaminant with a SDWS that is allowed in drinking water. SMCLs are set to protect the odor, taste, and appearance of drinking water.

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 picograms per liter (pg/L)
pCi/L: picocuries per liter (a measure of radiation)
NTU: Nephelometric Turbidity Units (measure of particles in water)

HOW SMALL IS ONE PART PER BILLION (PPB / µg/L)?
Money = 1 cent in \$10,000,000
Time = 1 second in 32 years
Length = 1 inch in 16,000 miles
Width = 1 human hair in 68 miles

HOW SMALL IS ONE PART PER MILLION (PPM / mg/L)?
Money = 1 cent in \$10,000
Time = 1 minute in 1.9 years
Weight = 1 pound in 500 tons
Length = 1 inch in 16 miles
Kitchen = 1 oz. of salt in 62,500 lbs. of sugar

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.

ADDITIONAL INFORMATION ON DRINKING WATER QUALITY

The City of Ripon tests your water for more than 120 regulated and unregulated contaminants. The tables provided lists only those contaminants that were detected. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. Some of the data, though representative of the water quality, are more than one year old. 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.

People with Sensitive Immune Systems: 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. U.S. EPA/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).

Arsenic: While your drinking water meets the federal and state standard for arsenic, it does contain low levels of arsenic. The arsenic standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. The U.S. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

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. The City of Ripon 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 (1-800-426-4791) or at www.epa.gov/lead.

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 a 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 certain specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should ask advice from your health care provider.

Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity.

In order to ensure that tap water is safe to drink, the U.S. EPA and the State Board prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration regulations and California law 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 the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the U.S. EPA's Safe Drinking Water Hotline (1-800-426-4791).

Per- and Polyfluoroalkyl Substances (PFAS)

The U.S. EPA announced the final National Primary Drinking Water Regulation (NPDWR) for six Per- and Polyfluoroalkyl Substances (PFAS), including PFOA, PFOS, PFHxS, PFNA, HFPO-DA (commonly known as GenX Chemicals) and a Hazard Index. Public water systems must monitor these PFAS and have three years to complete initial monitoring (by 2027). Public water systems have five years (by 2029) to implement solutions that reduce these PFAS if monitoring shows that drinking water levels exceed these MCLs.

Fifth Unregulated Contaminant Monitoring Rule (UCMR5)

As part of the U.S. EPA's UCMR5, the City of Ripon conducted PFAS monitoring in its drinking water wells, including Municipal Well #3, which has not been in operation since 2018. Three types of PFAS, including PFOA, PFOS, and PFHxS were detected in Municipal Well #3 above the state notification limit. PFOA and PFOS in Municipal Well #3 were also detected above the EPA PFAS Rule MCL. PFAS were not detected in any other well. Since Municipal Well #3 did not supply any water to the City of Ripon, there were no detectable PFAS levels in water served to the City of Ripon in 2024.

