

PUBLIC HEALTH GOAL REPORT

APPLE VALLEY SYSTEM

June 2025

21760 Ottawa Rd., Apple Valley, CA 92308

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LIBERTY UTILITIES (APPLE VALLEY RANCHOS) CORP.

2025 REPORT ON WATER QUALITY RELATIVE TO PUBLIC HEALTH GOALS

1. INTRODUCTION

The following report details the risks to public health associated with certain levels of contaminants that may be found in tap water. It further describes the best technology available for reducing contaminants and estimates the total cost and cost per customer to install and operate the technology.

2. BACKGROUND

Division 104, Part 12, Chapter 4, Article 5, Section 116470(b) of the California Health and Safety Code (Reference No. 1) specifies that water utilities with greater than 10,000 service connections prepare a special report every three years if, within that three years' time frame, the level of certain contaminants with an existing Maximum Contaminant Level (MCL) have exceeded any Public Health Goals (PHGs). Liberty Utilities (Apple Valley Ranchos) Corp. is such a water utility. The California Environmental Protection Agency's Office of Environmental Health Hazard Assessment (OEHHA) sets PHGs at levels in drinking water that are not expected to pose a significant health risk to individuals consuming an average of two liters a day of that water over a 70-year lifetime. The PHGs are based solely on health risk considerations and do not analyze costs, benefits, or technical feasibility to achieve the specific PHG level. Therefore, PHGs represent desirable goals for healthful drinking water that may or may not be achievable. These goals are non-enforceable, and water systems are not required to meet PHGs.

The law also requires that where OEHHA has not adopted a PHG for a regulated constituent, water suppliers are to use the established Maximum Contaminant Level Goals (MCLGs) adopted by the United States Environmental Protection Agency (USEPA). MCLGs are the federal equivalent to PHGs. Only constituents that have a California primary drinking water standard and for which either a PHG or MCLG has been set are to be addressed in this report. Appendix A contains a list of all regulated constituents with the MCLs and PHGs or MCLGs. MCLs are the enforceable drinking water standards set by either the USEPA or the California Department of Public Health (DPH). MCLs are based on the lowest observed health effects plus a margin of safety and consider the technological and economic feasibility to detect and treat the contaminant. A cost-benefit analysis was also conducted and considered when setting MCLs.

If a regulated constituent was detected in the Liberty Utilities (Apple Valley Ranchos) Corp. water system between 2022 and 2022 at a level exceeding an applicable PHG or MCLG, this report provides the information required by law. Included is the numerical public health risk associated with the MCL and the PHG or MCLG and the category or type of risk to health that could be associated with each constituent (Table 1), the best treatment technology available that could be used to reduce the constituent level, and an estimate of the cost to install that treatment if it appropriate and feasible.

3. DRINKING WATER SUPPLIES

Liberty Utilities (Apple Valley Ranchos) Corp. system obtains 100% of its source water from the Alto Subunit of the Mojave Groundwater Basin aquifer. The Liberty Utilities (Apple Valley Ranchos) Corp. system service area is shown in the attached 2024 Consumer Confidence Report (CCR).

4. GUIDELINES FOLLOWED

The Association of California Water Agencies (ACWA) prepared suggested guidelines for the preparation of required reports on Public Health Goals (PHGs) to satisfy requirements of the California Health and Safety Code, Section 116470(b). The ACWA guidelines, updated in February 2025, were used in the preparation of this report.

5. BEST AVAILABLE TREATMENT TECHNOLOGY AND COST ESTIMATE

Both the USEPA and DDW adopt what are known as Best Available Technologies (BATs), which are the best-known methods of reducing contaminant levels to the MCL. Costs can be estimated for such technologies. However, since many PHGs and all MCLGs are set much lower than the MCL, it is not always possible or feasible to determine what treatment is needed to further reduce a constituent downward to or near the PHG or MCLG - many are set at zero. Estimating the costs to reduce a constituent to zero is difficult, if not impossible, because it is not possible to verify by analytical means that the level has been lowered to zero. In some cases, installing treatment to try and further reduce very low levels of one constituent may have adverse effects on other aspects of water quality.

6. WATER QUALITY CONSIDERED

All of the water quality data collected in the Liberty Utilities (Apple Valley Ranchos) Corp. System between 2022 and 2024 was considered to determine compliance with drinking water standards. This data was previously summarized in our 2022, 2023, and 2024 Consumer Confidence Reports (CCRs), which are available on Liberty's website.

7. REGULATED CONSTITUENTS DETECTED

Table 1 summarizes the regulated constituents that were detected in one or more of the Liberty Utilities (Apple Valley Ranchos) Corp sources from 2022-2024 at levels above the PHG, or if no PHG, above the MCLG. Table 1 shows the Detection Limit for the purpose of Reporting (DLR) as well. Liberty wells provided 100% of the source water in 2024.

Table 1: MCL, PHGs, and DLRs for Constituents of Concern for Liberty Utilities (Apple Valley Ranchos)

Corp. Water Sources

Constituent	MCL	DLR	PHG (MCLG)
Arsenic (μg/L)	10	2	0.004
Gross Alpha pCi/L	15	3	0
Uranium pCi/L	20	1	0.43
Hexavalent Chromium (ug/l)	10	0.5	0.02

μg/L = micrograms per liter (equivalent to parts per billion, ppb) ρCi/L = picoCuries per liter (one trillionth of a curie)

7.1. INORGANIC CHEMICALS

Arsenic: Although the inorganic form of arsenic tends to be more predominant than organic forms, contamination of a drinking water source by arsenic can result from either natural or human activities. Typically, arsenic occurrence in water is caused by the weathering and dissolution of arsenic-bearing rocks, minerals, and ores. Arsenic contamination in water is also caused by its use in industry for wood preservatives, paints, drugs, dyes, soaps, metals, and semiconductors. Agricultural applications, mining, and smelting also contribute to arsenic release.

The Public Health Goal for arsenic is $0.004~\mu g/L$. The federal and state MCL for arsenic is $10~\mu g/L$ (the federal MCLG is $0~\mu g/L$). The DLR for arsenic is $2~\mu g/L$ and currently, there are no laboratory analytical methods available that can reliably measure arsenic as low as the PHG. The health risk category associated with arsenic is carcinogenicity. At the PHG, the theoretical cancer risk is $1~x~10^{-6}$. This means one excess cancer case per million people exposed to the PHG level for a lifetime of 70 years. At the federal and state MCL of $10~\mu g/L$, the theoretical cancer risk is $2.5~x~10^{-3}$. This means 2.5~excess cancer cases per one thousand people exposed to the MCL for a lifetime of 70 years. The maximum level of arsenic from 2022-2024 was $1.3~\mu g/L$.

7.2. RADIONUCLIDES

Most drinking water sources have very low levels of radioactive contaminants (radionuclides) originating from natural sources, not man-made sources. These very low levels are not considered to be a public health concern, although at high levels there may be an increased risk of cancer. OEHHA has established cancer risks values for radium 228 and uranium, but not for gross alpha radiation.

OEHHA has not established a PHG for Gross Alpha particle radioactivity, so USEPA MCLG of 0 ρ Ci/L governs. The MCL for gross alpha is 15 ρ Ci/L. Gross alpha particle radioactivity has been detected in the wells and ranges from ND – 1.5 ρ Ci/L.

7.3. **CHROMIUM, HEXAVALENT**

The Office of Environmental Health Hazard Assessment (OEHHA) is publishing a Public Health Goal (PHG) for hexavalent chromium of 0.02 parts per billion (ppb) or micrograms per liter (μ g/L) in drinking water. OEHHA has reviewed the available data on the toxicity of hexavalent chromium and has identified the PHG level as protective against all identified toxic effects from both oral and inhalation exposure to hexavalent chromium that may be present in drinking water. While hexavalent chromium has long been recognized as a potent carcinogen via inhalation, there is now sufficient evidence that hexavalent chromium is also carcinogenic by the oral route of exposure, based on studies in rats and mice conducted by the National Toxicology Program (NTP, 2008).

To calculate the PHG, OEHHA utilized an oral cancer slope factor of 0.5 (mg/kgday)-1, based on a dose-related increase of tumors of the small intestine in male mice (NTP, 2008). While this approach follows the default approach described in OEHHA guidelines (OEHHA, 2009a), it is also consistent with the proposed mutagenic mode of action (McCarroll et al., 2010). OEHHA also used an inhalation cancer slope factor of 510 (mg/kg-day)-1, based on occupational studies, with an exposure assessment (Keating and McKone, 1993) to estimate inhalation of waterborne hexavalent chromium during showering, for estimating inhalation risk. The combined-route cancer risk is dominated by the oral exposure despite the much higher inhalation potency, because the inhalation of water droplets during showering is very small. The PHG was adjusted to account for increased sensitivity associated with early-in-life exposures

8. HEALTH RISK INFORMATION FOR PUBLIC HEALTH GOALS

As previously stated, contaminants with California MCLs that do not yet have PHGs will use the federal MCLG for the purpose of complying with the requirements of the once-every-three-years Public Health Goal Report and public hearing. MCLGs like PHGs, are strictly health-based and include a margin of safety. One difference, however, is that the MCLGs for carcinogens are set at zero because the USEPA assumes there is no absolutely safe level of exposure to them. PHGs on the other hand, are set at a level considered to pose no significant risks of cancer. This is usually a "no more than" one-in-a-million excess cancer risk level for a lifetime of exposure. The cancer risks discussed in Table 2 are based on the OEHHA evaluations.

Table 2: Health Risk Categories and Cancer Risk Values for Chemicals with California Public Health Goals (PHGs)

Chemical	Health Risk Category	California PHG	Cancer Risk @ PHG	California MCL	Cancer Risk @ California MCL
Gross Alpha Particles	Cancer	None MCLG = 0	(0)	15 ρCi/L	Up to 1 x 10 ⁻³ (one per thousand)

Table 2: Health Risk Categories and Cancer Risk Values for Chemicals with California Public Health Goals (PHGs) (Cont.)

Chemical	Health Risk Category	California PHG	Cancer Risk @ PHG	California MCL	Cancer Risk @ California MCL
Uranium	Cancer	0.43 ρCi/L	One per million	20 ρCi/L	5 x 10 ⁻⁵ (Five per hundred thousand)
Arsenic	Cancer	0.0004 ppb	One per million	0.010 ppm	2.5 x 10 ⁻³ (2.5 per thousand)
Chromium-6	Cancer	0.0020 ppb	One per million	None	NA*

^{*} NA = Not applicable

9. RECOMMENDATIONS FOR FURTHER ACTION

The water quality of drinking water provided by Liberty Utilities (Apple Valley Ranchos) Corp. meets all State of California Department of Public Health and USEPA drinking water standards, which are set to protect public health. Additionally, costly treatment processes would be required to further reduce the levels of constituents to the PHG levels. The effectiveness of the treatment process to provide any significant reduction in constituent levels at the current low values is uncertain, as these treatment processes have been designed to meet the drinking water standards and not PHGs. The health protection of these further hypothetical reductions is not at all clear and may not be quantifiable. Due to this uncertainty, the lack of a regulatory driver to require treatment to such levels, and the significant rate increase required to implement this treatment, no action is proposed by Liberty Utilities (Apple Valley Ranchos) Corp.

The public hearing to receive comments from the public for Liberty Utilities (Apple Valley Ranchos) Corp. system customers is scheduled online for June 11, 2025, from 9:00 a.m. to 11:00 a.m.

10. REFERENCES

Reference 1: State of California Health and Safety Code, Section 116470 (b) – (f).

Reference 2: Liberty Utilities (Apple Valley Ranchos) Corp. 2024 Consumer Confidence Report on Water Quality for 2023.

REFERENCE 1: STATE OF CALIFORNIA HEALTH AND SAFETY CODE SECTION 116470 (B) - (F)

- (b) On or before July 1, 1998, and every three years thereafter, public water systems serving more than 10,000 service connections that detect one or more contaminants in drinking water that exceed the applicable public health goal, shall prepare a brief written report in plain language that does all of the following:
- (1) Identifies each contaminant detected in drinking water that exceeds the applicable public health goal.
- (2) Discloses the numerical public health risk, determined by the office, associated with the maximum contaminant level for each contaminant identified in paragraph (1) and the numerical public health risk determined by the office associated with the public health goal for that contaminant.
- (3) Identifies the category of risk to public health, including, but not limited to, carcinogenic, mutagenic, teratogenic, and acute toxicity, associated with exposure to the contaminant in drinking water, and includes a brief plainly worded description of these terms.
- (4) Describes the best available technology, if any is then available on a commercial basis, to remove the contaminant or reduce the concentration of the contaminant. The public water system may, solely at its own discretion, briefly describe actions that have been taken on its own, or by other entities, to prevent the introduction of the contaminant into drinking water supplies.
- (5) Estimates the aggregate cost and the cost per customer of utilizing the technology described in paragraph (4), if any, to reduce the concentration of that contaminant in drinking water to a level at or below the public health goal.
- (6) Briefly describes what action, if any, the local water purveyor intends to take to reduce the concentration of the contaminant in public drinking water supplies and the basis for that decision.
- (c) Public water systems required to prepare a report pursuant to subdivision (b) shall hold a public hearing for the purpose of accepting and responding to public comment on the report. Public water systems may hold the public hearing as part of any regularly scheduled meeting.
- (d) The department shall not require a public water system to take any action to reduce or eliminate any exceedance of a public health goal.
- (e) Enforcement of this section does not require the department to amend a public water system's operating permit.
- (f) Pending adoption of a public health goal by the Office of Environmental Health Hazard Assessment pursuant to subdivision (c) of Section 116365, and in lieu thereof, public water systems shall use the national maximum contaminant level goal adopted by the United States Environmental Protection Agency for the corresponding contaminant for purposes of complying with the notice and hearing requirements of this section.

REFERENCE 2: LIBERTY UTILITIES (APPLE VALLEY RAI CONFIDENCE REPORT ON WATER QUALITY FOR 2023.	NCHOS) CORP.	2024 CONSUMER



2024 Consumer Confidence Report on Water Quality for 2023

Annual Water Quality Report

Liberty – Apple Valley
PWS Number 3610003



Message from the President

Liberty is committed to providing customers with safe, quality drinking water. We are proud to present this Water Quality Report (Consumer Confidence Report) that shares detailed information regarding local water service and our compliance with state and federal water quality standards during the 2023 calendar year.

Liberty makes appropriate investments each year to deliver water that meets the safety standards established by the California State Water Resources Control Board's Division of Drinking Water (DDW), the California Public Utilities Commission (CPUC), and the United States Environmental Protection Agency (EPA). We invest responsibly to maintain the local water infrastructure because a strong infrastructure is key to delivering quality water. The water we deliver to your home or business is thoroughly tested by independent laboratories, and data is provided to DDW to verify compliance with primary and secondary state and federal water quality standards.

We know our customers rely on us for water that is safe to drink, and we take this responsibility seriously. At Liberty, "Sustaining Energy and Water for Life" is more than a tagline. Our employees live in the community and take pride in providing quality water and reliable service to you and your neighbors.

If you have any questions about this report, please don't hesitate to contact us at 800-727-5987.

On behalf of the entire Liberty family, thank you for being a valued customer and neighbor. We are proud to be your water provider.

Sincerely,

Edward Jackson

President, Liberty California

This report contains important information about your drinking water. Please contact Liberty at (800) 727-5987 for assistance in Spanish.

Este informe contiene información muy importante sobre su agua para beber. Favor comunicarse con Liberty al (800) 727-5987 para asistirlo en Español.

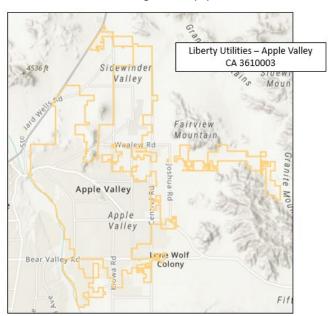
To request a printed copy of this report, please call us at 1-800-727-5987. This report can also be found at www.libertyenergyandwater.com.



Where Does My Water Come From? Communities Served

In 2023, Liberty - Apple Valley system obtained 100% of its source water from 19 deep wells located throughout the community. These wells draw water from the deep Alto sub-unit of the Mojave groundwater basin. This high-quality aquifer is recharged by snowmelt from the San Bernardino Mountains to the south and the Mojave River to the west. Also, the Mojave Water Agency (MWA) imports water from the California State Water Project to spread in the Mojave River to help recharge the groundwater. Some of the water we pump has been age-dated close to 10,000 years old by the United States Geologic Survey. That means it has been protected and naturally filtered for a very long time.

Liberty-Apple Valley has provided dedicated service to its customers for 70 years. In 2023, Liberty produced 9,398 acre-feet of high-quality potable drinking water for over 21,000 residential and business customers. This equates to over 3.1 billion gallons of water served over an area of approximately 50 square miles that encompasses approximately 81 % of the Town of Apple Valley and portions of the surrounding area through a network of 475 miles of underground pipe.



Source Water Assessment

The 1996 Safe Drinking Water Act amendments required states to perform an assessment of potentially contaminating activities near drinking water sources of all water utilities. Liberty

completed the Source Water Assessment in 2002. Liberty's wells are considered most vulnerable to the following activities: high-density housing; septic systems - low and high density; parks; irrigated crops; golf courses; sewer collection systems; gas stations; roads and streets; railroads; stormwater injection wells; storm drain discharge points; stormwater detention facilities; agricultural and irrigation water wells; historic grazing; historic waste dumps and landfills; machine shops; and leaking underground storage tanks.

A copy of the complete assessment is available at Liberty's Apple Valley office and the SWRCB office in San Bernardino. You may request a summary of the assessment by contacting E'jon Loundermon at Liberty at 760-552-3437; or by contacting the SWRCB office in San Bernardino at 909-383-4328.



What are Drinking Water Standards?

Drinking water standards are the regulations set by the USEPA to control the level of contamination in the nation's drinking water. The USEPA and the SWRCB are the agencies responsible for



establishing drinking water quality standards in California. This approach includes assessing and protecting drinking water sources; protecting wells and surface water; making sure water is treated by qualified operators; ensuring the integrity of the distribution system; and making information about water quality available to the public. The water delivered to your home meets the standards required by the USEPA and the SWRCB.



This report describes those contaminants that have been detected in the analyses of almost 200 different potential contaminants, nearly 100 of which are regulated by the USEPA and the SWRCB. Liberty is proud to tell you that there have been no contaminants detected that exceed any federal or state drinking water standards. Hundreds of samples analyzed every month by Liberty's contract certified laboratory assures that all primary (health-related) and secondary (aesthetic) drinking water standards are being met. Sample results are available in the Table that is part of this report.

This report is intended to provide information for all water users. If received by an absentee landlord, a business, or a school, please share the information with tenants, employees, or students. We are happy to make additional copies of this report available. You may also access this report on the Liberty web page at www.libertyenergyandwater.com.

Substances That Could be in Water

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, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- **Inorganic Contaminants**, such as salts and metals, which 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**, which 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 byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- **Radioactive Contaminants**, which 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 SWRCB prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration (USFDA) also establishes 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. More information about contaminants and potential health effects can be



obtained by calling the USEPA Safe Drinking Water Hotline at 1-800-426-4791 or visiting their website at https://www.epa.gov/ground-water-and-drinking-water/national-primary-drinking-water-regulations. For information on bottled water visit the USFDA website at www.fda.gov.

Do I Need to Take Special Precautions?

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such persons with cancer undergoing as 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 healthcare providers. The USEPA and Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at 1-800-426-4791.

Important Health Information

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. Liberty 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 drinking 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 at 1-800-426-4791 or at http://www.epa.gov/safewater/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.



How Might I Become Actively Involved?

If you would like to observe the decision-making process that affects drinking water quality or if you have any further questions about your drinking water report, please call us at 1-800-727-5987 to inquire about scheduled meetings or contact persons.



Testing Results

During the year, Liberty collects water samples to determine the presence of any radioactive, biological, inorganic, or organic contaminants. All of the substances listed in the table below tested under the Maximum Contaminant Level (MCL). Liberty believes it is important you know what was detected, and how much of the substance was present. The state allows the monitoring of certain substances less than once a year because the concentrations of these substances do not change frequently. If a substance was tested and there was no detection, it is not listed in this table. You can find Definitions, Terms and Abbreviations related to this Table in the next section for easy reference.

Apple Valley 2023 Annual Water Quality Report												
PRIMARY STANDARDS - Heal	PRIMARY STANDARDS - Health Based											
DISTRIBUTION SYSTEM												
Disinfectant Residuals	Violation? (Yes/No)	Primary MCL (MRDL)	PHG (MRDLG)		Range of Detection	Average	Most Recent Sampling Date	Typical Source of Constituent				
Chlorine [as Cl ₂] (ppm)	No	(4.0)		4	0.4 - 1.5	1	2023	Drinking water disinfectant added for treatment				
Disinfection By-Products	Violation? (Yes/No)	Primary MCL	PHG (MCLG)		Range of Detection	Average	Most Recent Sampling Date	Typical Source of Constituent				
TTHMs [Total of Four Trihalomethanes] (ppb)	No	80		N/A	9	9	2023	Byproduct of drinking water disinfection				
HAA5 [Total of Five Haloacetic Acids] (ppb)	No	60		N/A	1	1	2023	Byproduct of drinking water disinfection				
Lead and Copper (Residential Internal Plumbing)	Violation? (Yes/No)	Action Level	PHG (MCLG)	Sample Data	Range of Detection	90th Percentile Level	Most Recent Sampling Date	Typical Source of Constituent				
Copper (ppm)	No	1.3	0.3	0 of the 34 samples collected exceeded the action level.	ND - 0.4	0.1	2022	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives				
Lead (ppb)	No	15	0.2	0 of the 34 samples collected exceeded the action level.	ND - 0.4	ND	2022	Internal corrosion of household plumbing systems; discharges from industrial manufacturers; erosion of natural deposits				
SOURCE WATER												
Inorganic Constituents	Violation? (Yes/No)	Primary MCL	-	PHG ICLG)	Range of Detection for LU Sources	Average Level for LU Sources	Most Recent Sampling Date	Typical Source of Constituent				
Aluminum (ppm)	No	1		0.6	0.2	0.2	2023	Erosion of natural deposits; residual from some surface water treatment processes				
Fluoride (ppm) [Naturally occurring]	No	2	1		0.3 - 0.6	0.4	2023	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories				
Nitrate [as N] (ppm)	No	10		10	1 - 6	2	2023	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits				



SECONDARY STANDARDS – Aesthetics

SOURCE WATER

	Violation? (Yes/No)	Secondary MCL	PHG (MCLG)	Range of Detection for LU Sources	Average Level for LU Sources	Most Recent Sampling Date	Typical Source of Constituent
Aluminum (ppb)	No	200	N/A	190	190	2023	Erosion of natural deposits; residual from some surface water treatment processes
Chloride (ppm)	No	500	N/A	8 - 170	63	2023	Runoff/leaching from natural deposits; seawater influence
Manganese (μg/L)	No	50	N/A	ND - 50 ^(a)	7	2023	Leaching from natural deposits
Specific Conductance (μS/cm)	No	1600	N/A	220 - 900	577	2023	Substances that form ions when in water; seawater influence
Sulfate (ppm)	No	500	N/A	9 - 160	94	2023	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids (ppm)	No	1000	N/A	140 - 520	352	2023	Runoff/leaching from natural deposits
Radioactive Constituents	Violation? (Yes/No)	Primary MCL	PHG (MCLG)	Range of Detection for LU Sources	Average Level for LU Sources	Most Recent Sampling Date ^(a)	Typical Source of Constituent
Gross Alpha Activity (pCi/L)	No	15	(0)	ND - 3	1	2023	Erosion of natural deposits
OTHER CONSTITUENTS							
	Violation? (Yes/No)	Notification Level	PHG (MCLG)	Range of Detection for LU Sources	Average Level for LU Sources	Most Recent Sampling Date	Typical Source of Constituent
Alkalinity as CaCO3(ppm)	N/A	N/A	N/A	38 - 140	92	2023	Runoff/leaching of natural deposits; carbonate, bicarbonate, hydroxide, and occasionally borate, silicate, and phosphate
Calcium (ppm)	N/A	N/A	N/A	27 - 76	49	2023	Runoff or leaching from natural deposits
Hardness [as CaCO3] (ppm)	N/A	N/A	N/A	81 - 260	160	2023	Runoff/leaching from natural deposits; sum of polyvalent cations, generally magnesium and calcium present in the water
Hardness [as CaCO3] (grains/gal)	N/A	N/A	N/A	4.7 - 15.2	9.3	2023	
Magnesium (ppm)	N/A	N/A	N/A	3.5 - 17	9.1	2023	Runoff or leaching from natural deposits
pH (pH units)	N/A	N/A	N/A	6.5 - 8.0	7.6	2023	Hydrogen ion concentration
Potassium (ppm)	N/A	N/A	N/A	1.6 - 3.5	2.5	2023	Runoff or leaching from natural deposits
Sodium (ppm)	N/A	N/A	N/A	14 - 130	58	2023	Salt present in the water; naturally occurring



UNREGULATED CHEMICAL MONITORING										
	Violation? (Yes/No)	Notification Level	PHG (MCLG)	Range of Detection for LU Sources	Average Level for LU Sources	Most Recent Sampling Date	Typical Source of Constituent			
Hexavalent Chromium (ppm)	N/A	N/A	0.02	1 - 4	2	2022				
Manganese (ppb) ^(b)	N/A	500	N/A	ND - 6	2	2019				

- (a) A resample was collected with non-detected results.
- (b) Manganese monitored at the system interconnection not at the source.

Meets/ Exceeds Regulations







: TABLE OF I PUBLIC HEAL			

MCLs, DLRs, and PHGs for Regulated Drinking Water Contaminants

Updated November 2024

The following tables include California's maximum contaminant levels (MCLs), detection limits for purposes of reporting (DLRs), public health goals (PHGs) from the Office of Environmental Health Hazard Assessment (OEHHA). For comparison, Federal MCLs and Maximum Contaminant Level Goals (MCLGs) from the U.S. EPA are also displayed. Previous MCLs that are no longer effective are shown in *italics*. Regulatory citations refer to Title 22 of the <u>California Code of Regulations (22 CCR)</u> and Title 40 of the Code of Federal Regulations (40 CFR).

This document refers to several units of measurement commonly used in assessing water quality. Concentrations of substances in drinking water are typically expressed in milligrams per liter (mg/L), micrograms per liter (μ g/L), nanograms per liter (ng/L), and picocuries per liter (μ g/L). These units help quantify the presence of various chemicals, metals, or radioactive materials. For reference, 1 mg/L equals 1,000 μ g/L, and 1 μ g/L equals 1,000 μ g/L, providing a clear scale for understanding the quantities discussed. Picocuries per liter (μ g/L) measure radioactive material, where 1 μ g/L represents a trillionth of a curie, a standard unit for radioactivity.

Inorganic Chemicals

The information in the following table can be found in 22 CCR §64431 (California MCLs), 22 CCR §64432 (California DLRs), OEHHA's website (California PHGs), 40 CFR §141.23 (U.S. EPA MCLs), and 40 CFR §141.51 (U.S. EPA MCLGs). The values in this table are in units of micrograms per liter (μg/L) unless otherwise stated.

		Calif		U.S. EPA				
Inorganic Chemicals	MCL	MCL Effective Date	DLR	PHG	PHG Date	MCL	MCL Effective Date	MCLG
Aluminum	1,000	1989-02-25	50	600	2001			
Antimony	6	1994-09-08	6	1	2016	6	1994-01-17	6
Arsenic	10 <i>50</i>	2008-11-28 1977	2	0.004	2004	10 <i>50</i>	2006-01-23 1977-06-24	zero
Asbestos ¹	7	1994-09-08	0.2	7	2003	7	1992-07-30	7

¹ Asbestos units are in million fibers per liter (MFL); for fibers >10 microns long.

		Calif	fornia				U.S. EPA	
Inorganic Chemicals	MCL	MCL Effective Date	DLR	PHG	PHG Date	MCL	MCL Effective Date	MCLG
Barium	1,000	1977	100	2,000	2003	2,000 1,000	1992-07-30 1977-06-24	2000
Beryllium	4	1994-09-08	1	1	2003	4	1994-01-17	4
Cadmium	5 10	1994-09-08 <i>1977</i>	1	0.04	2006	5 10	1992-07-30 1977-06-24	5
Chromium, Hexavalent	10	2024-10-01	0.1	0.02	2011			-
Chromium, Total	50	1977	10	none ²		100 <i>50</i>	1992-07-30 1997-06-24	100
Cyanide	150 200	2003-06-12 1994-09-08	100	150	1997	200	1994-01-17	200
Fluoride	2,000	1998-04	100	1,000	1997	4,000	1987-10-02	4000
Mercury (inorganic)	2	1977	1	1.2	1999	2	1977-06-24	2
Nickel	100	1994-09-08	10	12	2001	-	Remanded	
Nitrate (as nitrogen, N)	10,000 as N	1977	400	10,000 as N ³	2018	10,000	1977-06-24	10 mg/L
Nitrite (as N)	1,000 as N	1994-09-08	400	1,000 as N	2018	1,000	1992-07-30	1 mg/L
Nitrate + Nitrite (as N)	10,000 as N	1994-09-08		10,000 as N	2018	10,000	1992-07-30	10,000
Perchlorate	6	2007-10-18	1	1	2015			
Selenium	50 10	1994-09-08 <i>1977</i>	5	30	2010	50 10	1992-07-30 1977-06-24	50
Thallium	2	1994-09-08	1	0.1	1999	2	1994-01-17	0.5

 2 In November 2001, OEHHA withdrew the 0.0025 mg/L PHG adopted in 1999. 3 The PHG for nitrate can also be expressed as 45 mg/L as NO $_3$.

Volatile Organic Chemicals (VOCs)

The information in the following table can be found in 22 CCR §64444 (California MCLs), 22 CCR §64445.1 (California DLRs), OEHHA's website (California PHGs), 40 CFR §141.61 (U.S. EPA MCLs), and 40 CFR §141.50 (U.S. EPA MCLGs). The values in this table are in units of micrograms per liter (μg/L).

Volatile Organia Chemicale		Califo	rnia				U.S. EPA	
Volatile Organic Chemicals (VOCs)	MCL	MCL Effective Date	DLR	PHG	PHG Date	MCL	MCL Effective Date	MCLG
Benzene	1	1989-02-25	0.5	0.15	2001	5	1989-01-09	zero
Carbon tetrachloride	0.5	1989-04-05	0.5	0.1	2000	5	1989-01-09	zero
1,2-Dichlorobenzene	600	1994-09-08	0.5	600	1997	600	1992-07-30	600
1,4-Dichlorobenzene (p-DCB)	5	1989-04-05	0.5	6	1997	75	1989-01-09	75
1,1-Dichloroethane (1,1-DCA)	5	1990-06-24	0.5	3	2003			
1,2-Dichloroethane (1,2-DCA)	0.5	1989-04-05	0.5	0.4	1999	5	1989-01-09	zero
1,1-Dichloroethylene (1,1-DCE)	6	1989-02-25	0.5	10	1999	7	1989-01-09	7
cis-1,2-Dichloroethylene	6	1994-09-08	0.5	13	2018	70	1992-07-30	70
trans-1,2-Dichloroethylene	10	1994-09-08	0.5	50	2018	100	1992-07-30	100
Dichloromethane (Methylene chloride)	5	1994-09-08	0.5	4	2000	5	1994-01-17	zero
1,2-Dichloropropane	5	1990-06-24	0.5	0.5	1999	5	1992-07-30	zero
1,3-Dichloropropene	0.5	1989-02-25	0.5	0.2	1999			
Ethylbenzene	300 700 680	2003-06-12 1994-09-08 1989-02-25	0.5	300	1997	700	1992-07-30	700
Methyl tertiary butyl ether (MTBE)	13	2000-05-17	3	13	1999			
Monochlorobenzene	70 30	1994-09-08 1989-02-25	0.5	70	2014	100	1992-07-30	100
Styrene	100	1994-09-08	0.5	0.5	2010	100	1992-07-30	100
1,1,2,2-Tetrachloroethane	1	1989-02-25	0.5	0.1	2003			
Tetrachloroethylene (PCE)	5	1989-05	0.5	0.06	2001	5	1992-07-30	zero
Toluene	150	1994-09-08	0.5	150	1999	1,000	1992-07-30	1,000

Valatila Organia Chamicala		Califo	rnia				U.S. EPA	
Volatile Organic Chemicals (VOCs)	MCL	MCL Effective Date	DLR	PHG	PHG Date	MCL	MCL Effective Date	MCLG
1,2,4-Trichlorobenzene	5 70	2003-06-12 1994-09-08	0.5	5	1999	70	1994-01-17	70
1,1,1-Trichloroethane (1,1,1-TCA)	200	1989-02-25	0.5	1000	2006	200	1989-01-09	200
1,1,2-Trichloroethane (1,1,2-TCA)	5 32	1994-09-08 1989-04-05	0.5	0.3	2006	5	1994-01-17	3
Trichloroethylene (TCE)	5	1989-02-25	0.5	1.7	2009	5	1989-01-09	zero
Trichlorofluoromethane (Freon 11)	150	1990-06-24	5	1,300	2014			
1,1,2-Trichloro-1,2,2- Trifluoroethane (Freon 113)	1,200	1990-06-24	10	4,000	1997			
Vinyl chloride	0.5	1989-04-05	0.5	0.05	2000	2	1989-01-09	zero
Xylenes	1,750	1989-02-25	0.5	1,800	1997	10,000	1992-07-30	10,000

Synthetic Organic Chemicals (SOCs)

The information in the following table can be found in 22 CCR §64444 (California MCLs), 22 CCR §64445.1 (California DLRs), OEHHA's website (California PHGs), 40 CFR §141.61 (U.S. EPA MCLs), and 40 CFR §141.50 (U.S. EPA MCLGs). The values in this table are in units of micrograms per liter (μg/L).

Synthetic Organic		Califo	rnia			U.S. EPA			
Chemicals (SOCs)	MCL	MCL Effective Date	DLR	PHG	PHG Date	MCL	MCL Effective Date	MCLG	
Alachlor	2	1994-09-08	1	4	1997	2	1992-07-30	zero	
Atrazine	1 3	2003-06-12 1989-04-05	0.5	0.15	1999	3	1992-07-30	3	
Bentazon	18	1989-04-05	2	200	1999				
Benzo(a)pyrene	0.2	1994-09-08	0.1	0.007	2010	0.2	1994-01-17	zero	
Carbofuran	18	1990-06-24	5	0.7	2016	40	1992-07-30	40	
Chlordane	0.1	1990-06-24	0.1	0.03	1997	2	1992-07-30	zero	

Synthetic Organic		Califo	rnia			U.S. EPA			
Chemicals (SOCs)	MCL	MCL Effective Date	DLR	PHG	PHG Date	MCL	MCL Effective Date	MCLG	
Dalapon	200	1994-09-08	10	790	1997	200	1994-01-17	200	
1,2-Dibromo-3- chloropropane (DBCP)	0.2 <i>0.1</i>	1991-05-03 1989-07-26	0.01	0.003	2020	0.2	1992-07-30	zero	
2,4-Dichlorophenoxyacetic acid (2,4-D)	70 100	1994-09-08 <i>1977</i>	10	20	2009	70 100	1992-07-30 1977-06-24	70	
Di(2-ethylhexyl)adipate	400	1994-09-08	5	200	2003	400	1994-01-17	400	
Di(2-ethylhexyl)phthalate (DEHP)	4	1990-06-24	3	12	1997	6	1994-01-17	zero	
Dinoseb	7	1994-09-08	2	14	1997	7	1994-01-17	7	
Diquat	20	1994-09-08	4	6	2016	20	1994-01-17	20	
Endothal	100	1994-09-08	45	94	2014	100	1994-01-17	100	
Endrin	2 0.2	1994-09-08 <i>1977</i>	0.1	0.3	2016	2 0.2	1994-01-17 1977-06-24	2	
Ethylene dibromide (EDB)	0.05 0.02	1994-09-08 1989-02-25	0.02	0.01	2003	0.05	1992-07-30	zero	
Glyphosate	700	1990-06-24	25	900	2007	700	1994-01-17	700	
Heptachlor	0.01	1990-06-24	0.01	0.008	1999	0.4	1992-07-30	zero	
Heptachlor epoxide	0.01	1990-06-24	0.01	0.006	1999	0.2	1992-07-30	zero	
Hexachlorobenzene	1	1994-09-08	0.5	0.03	2003	1	1994-01-17	zero	
Hexachlorocyclopentadiene	50	1994-09-08	1	2	2014	50	1994-01-17	50	
Lindane	0.2 <i>4</i>	1994-09-08 <i>1977</i>	0.2	0.032	1999	0.2 4	1992-07-30 1977	0.2	
Methoxychlor	30 40 100	2003-06-12 1994-09-08 1977	10	0.09	2010	40 100	1992-07-30 1977-06-24	40	
Molinate	20	1989-04-05	2	1	2008				
Oxamyl	50 200	2003-06-12 1994-09-08	20	26	2009	200	1994-01-17	200	

Synthetic Organic		Califo	rnia			U.S. EPA			
Chemicals (SOCs)	MCL	MCL Effective Date	DLR	PHG	PHG Date	MCL	MCL Effective Date	MCLG	
Pentachlorophenol	1	1994-09-08	0.2	0.3	2009	1	1992-07-30	zero	
Picloram	500	1994-09-08	1	166	2016	500	1994-01-17	500	
Polychlorinated biphenyls (PCBs)	0.5	1994-09-08	0.5	0.09	2007	0.5	1992-07-30	zero	
Simazine	4 10	1994-09-08 1989-04-05	1	4	2001	4	1994-01-17	4	
Thiobencarb	70	1989-04-05	1	42	2016				
Toxaphene	3 5	1994-09-08 <i>1977</i>	1	0.03	2003	3 5	1992-07-30 1977-06-24	zero	
1,2,3-Trichloropropane	0.005	2017-12-14	0.005	0.0007	2009				
2,3,7,8-TCDD (dioxin)	0.00003	1994-09-08	5 x10 ⁻⁶	5 x10 ⁻⁸	2010	0.00003	1994-01-17	zero	
2,4,5-TP (Silvex)	50 10	1994-09-08 <i>1977</i>	1	3	2014	50 10	1992-07-30 1977-06-24	50	

Disinfectant Residuals

Standards for disinfectant residuals are called "Maximum Residual Disinfectant Levels" (MRDLs) instead of MCLs. Similarly, goals are called "Maximum Residual Disinfectant Level Goals" (MRDLGs). The information in the following table can be found in <u>22 CCR §64533.5</u> (California MRDLs), <u>40 CFR §141.65</u> (U.S. EPA MRDLs), and <u>40 CFR §141.54</u> (U.S. EPA MRDLGs). The values in this table are in **units of milligrams per liter (mg/L)**.

Disinfectant		California				U.S. EPA			
Residuals	MRDL	MRDL Effective Date	DLR	PHG	PHG Date	MRDL	MRDL Effective Date	MRDLG	
Chlorine	4.0 (as Cl ₂)	2006-06-17				4.0	1999-02-16	4	
Chloramines	4.0 (as Cl ₂)	2006-06-17				4.0	1999-02-16	4	
Chlorine dioxide	0.8 (as ClO ₂)	2006-06-17				0.8	1999-02-16	0.8	

Disinfection Byproducts

The information in the following table can be found in <u>22 CCR §64533</u> (California MCLs and DLRs), <u>OEHHA's website</u> (California PHGs), <u>40 CFR §141.64</u> (U.S. EPA MCLs), and <u>40 CFR §141.53</u> (U.S. EPA MCLGs). The values in this table are in **units of micrograms per liter (µg/L)**.

		Cali	ifornia				U.S. EPA	
Disinfection Byproducts	MCL	MCL Effective Date	DLR	PHG	PHG Date	MCL	MCL Effective Date	MCLG
Total Trihalomethanes	80 100	2006-06-17 1983-03-14				80 100	2002-01-01 1983-11-29	
Bromodichloromethane			1	0.06	2020			zero
Bromoform			1	0.5	2020			zero
Chloroform			1	0.4	2020			70
Dibromochloromethane			1	0.1	2020			60
Haloacetic Acids (five) (HAA5)	60	2006-06-17				60	2002-01-01	
Monochloroacetic Acid			2	53	2022			70
Dichloroacetic Acid			1	0.2	2022			zero
Trichloroacetic Acid			1	0.1	2022			20
Monobromoacetic Acid			1	25	2022			
Dibromoacetic Acid			1	0.03	2022			
Bromate	10	2006-06-17	5 ⁴	0.1	2009	10	2002-01-01	zero
Chlorite	1000	2006-06-17	20	50	2009	1000	2002-01-01	800

Radionuclides

The information in the following table can be found in 22 CCR §64442 (California MCLs and DLRs), 22 CCR §64443 (California MCLs and DLRs), OEHHA's website (California PHGs), 40 CFR §141.66 (U.S. EPA MCLs), and 40 CFR §141.55 (U.S. EPA MCLGs). The values in this table are in units of picocuries per liter (pCi/L) unless otherwise stated.

⁴ The DLR for bromate is 0.0010 mg/L for analysis performed using EPA Methods 317.0 Revision 2.0, 321.8, or 326.0.

		Californ	ia				U.S. EPA	
Radionuclides	MCL	MCL Effective Date	DLR	PHG	PHG Date	MCL	MCL Effective Date	MCLG
Gross alpha particle activity ⁵	15 ⁶ 15	2006-06-11 <i>1977</i>	3	none ⁷		15	1977-06-24	zero
Beta/photon emitters ⁸	4 mrem/yr <i>50</i>	2006-06-11 1977	4	none ⁷		4 mrem/yr	1977-06-24	zero
Radium-226			1	0.05	2006			
Radium-228			1	0.019	2006			
Radium-226 + Radium-228	5 ⁶ 5	2006-06-11 1977				5	1977-06-24	zero
Strontium-90	8 ⁹ 8	2006-06-11 <i>1977</i>	2	0.35	2006	4 mrem/yr ¹⁰ 8	2003-12-08 1977-06-24	
Tritium	20,000 ⁹ 20,000	2006-06-11 1977	1,000	400	2006	4 mrem/yr ¹⁰ 20,000	2003-12-08 1977-06-24	
Uranium	20 ⁶ 20	2006-06-11 1989-01-01	1	0.43	2001	30 μg/L ¹¹	2003-12-08	zero

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⁵ Excludes alpha particle activity from radon and uranium.

⁶ Revised MCL applies to both community (CWS) and nontransient noncommunity water systems (NTNCWS); previous MCL applied only to CWS.

⁷ OEHHA concluded in 2003 that it would not be practical to develop a PHG (<u>for gross alpha particle activity</u>, <u>for gross beta particle/photon emitters</u>).

⁸ Beta/photon emitters MCLs are in units of millirems per year (mrem/yr) annual dose equivalent to the total body or any internal organ. The DLR is in units of pCi/L of gross beta particle activity.

⁹ Revised MCL applies to all CWS and NTNCWS; previous MCL applied only to water systems with at least 30,000 service connections that used surface water.

¹⁰ U.S. EPA does not have specific MCLs for strontium-90 or tritium; both are regulated under the beta/photon emitters MCL.

¹¹ U.S. EPA MCL of 30 μg/L is equivalent to 20.1 pCi/L (unit conversion using natural uranium specific activity of 0.67 pCi/μg).

Copper and Lead

Standards for lead and copper are called "Action Levels" instead of MCLs. If a system exceeds an Action Level, it must take certain actions such as additional monitoring, corrosion control studies and treatment, and for lead, a public education program. The information in the following table can be found in 22 CCR \\$64678 (California Action Levels and DLRs), OEHHA's website (California PHGs), 40 CFR \\$141.80 (U.S. EPA Action Levels), and 40 CFR \\$141.51 (U.S. EPA MCLGs). The values in this table are in units of micrograms per liter (µg/L).

		Ca	lifornia	U.S. EPA				
Contaminants	Action Level	Action Level Effective Date	DLR	PHG	PHG Date	Action Level	Action Level Effective Date	MCLG
Copper	1,300	1995-12-11	50	300	2008	1,300	1991-11-06	1,300
Lead	15 <i>50</i>	1995-12-11 <i>1977</i>	5	0.2	2009	15 <i>50</i>	1991-11-06 <i>1977-06-24</i>	zero

Treatment Techniques

A treatment technique is a required process intended to reduce contaminant levels in drinking water, safeguarding public health. Rather than setting specific limits on contaminant concentrations, the treatment techniques below focus on the processes used to ensure protection from contaminants:

- **Coliform**: If a water system finds coliform bacteria (which indicate the presence of harmful microorganisms), they must assess and fix any issues in actions called Level 1 and Level 2 assessments.
- **Viruses**: Systems must treat groundwater to remove or inactivate at least 99.99% of viruses using methods like disinfection. They must monitor and correct any issues within hours if they fail to meet these standards.
- **Cryptosporidium**: For surface water or groundwater influenced by surface water, system must treat to remove or inactivate a parasite called Cryptosporidium, which involves special filtration and disinfection processes.
- **Disinfection Byproducts**: Systems have several options for treatment techniques to reduce the levels of disinfection byproducts (total trihalomethanes (TTHMs), haloacetic acids (HAA5), bromate, and chlorite).
- **Acrylamide and Epichlorohydrin**: Water systems that use certain chemicals in the treatment process must certify that the chemical levels are kept below safe limits.

Secondary Standards

Secondary Maximum Contaminant Levels (SMCLs) provide water quality standards related to aesthetic aspects of drinking water, such as taste, odor, and appearance. Though not directly linked to health risks, SMCLs play a crucial role in maintaining

consumer confidence and satisfaction. The information in the following two tables can be found in 22 CCR §64449 (California SMCLs) and 40 CFR §143.3 (U.S. EPA SMCLs). The values in this table are in **units of micrograms per liter (μg/L)** unless otherwise stated.

		Ca	lifornia		U.S.	EPA
Chemical	,	SMCL		SMCL Effective Date	SMCL	SMCL Effective Date
Aluminum		200		1994-09-08	50 to 200	1992-07-30
Color	1	5 Units		1977	15 Units	1981-01-19
Copper		1,000 1977			1,000 ¹² 1,000	1992-07-30 1981-01-19
Corrosivity				Removed	Non-corrosive	1981-01-19
Fluoride	See <u>22 (</u>	CCR §644	33.2	1998-04-22	2,000	1986-05-02
Foaming Agents (MBAS)		500		1977	500	1981-01-19
Iron		300		1977	300	1981-01-19
Manganese		50		1977	50	1981-01-19
Methyl-tert-butyl ether (MTBE)		5		1999-01-07		
Odor -Threshold	3	3 Units		1977	3 Units	1981-01-19
рН					6.5 to 8.5	1981-01-19
Silver		100			100	1992-07-30
Thiobencarb		1		1989-04-05		
Turbidity	Ę	5 Units		1977		
Zinc		5,000		1977	5,000	1981-01-19
	Recommended	Upper	Short Term			
Total Dissolved Solids (mg/L) or	500	1,000	1,500		500	1981-01-19
Specific Conductance (µS/cm ⁹)	900	1,600	2,200		-	
Chloride (mg/L)	250 500 600				250	1981-01-19
Sulfate (mg/L)	250	500	600		250	1981-01-19

 $^{^{12}}$ The updated SMCL for copper increased the number of significant figures from 1 to 2.

Chemicals soon to be regulated in drinking water in California

The information in the following table can be found in OEHHA's website (California PHGs), 40 CFR §141.61 (U.S. EPA MCLs), and 40 CFR §141.50 (U.S. EPA MCLGs). The values in this table are in units of nanograms per liter (ng/L) unless otherwise stated.

		Cali	fornia			U.S. EPA	
Chemicals		DLR	PHG	PHG Date	MCL	MCL Effective Date	MCLG
N-Nitrosodimethylamine (NDMA)			3	2006			
Perfluorooctanoic acid (PFOA)			0.007	2024	4.0	2029-04-26	zero
Perfluorooctane sulfonic acid (PFOS)			1	2024	4.0	2029-04-26	zero
Perfluorohexane sulfonic acid (PFHxS)				-	10.0	2029-04-26	10
Perfluorononanoate (PFNA)				-	10.0	2029-04-26	10
2,3,3,3-Tetrafluoro-2- (heptafluoropropoxy)propanoate (HFPO-DA or GenX Chemicals)				1	10.0	2029-04-26	10
PFAS Hazard Index ¹³ (includes HFPO-DA, PFBS ¹⁴ , PFHxS, and PFNA)					1 (unitless)	2029-04-26	1 (unitless)

¹³ PFAS Hazard Index = ([HFPO-DA_{water} ng/L]/[10 ng/L]) + ([PFBS_{water} ng/L]/[2000 ng/L]) + ([PFNA_{water} ng/L]/[10 ng/L]) + ([PFHxS_{water} ng/L]/[10 ng/L])

14 Perfluorobutane sulfonate (PFBS)