



City of Fairfield
Public Works Department
1000 Webster Street
Fairfield, California 94533

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WATER QUALITY CONCERNS

Lead

If present, elevated lead levels 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 Fairfield 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 two 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 (800-426-4791) or at <http://www.epa.gov/lead>

Security

The City of Fairfield has performed a comprehensive vulnerability assessment for water system resources. If you see items of concern or notice anything suspicious, please contact the City of Fairfield at 707-434-6100.

For More Information:

Questions regarding this report

Jenell Pratt 707-437-5386

Water Billing 707-428-7346

Water Repairs 707-428-7415

Water Quality Concerns

707-437-5390

After Hours Water Repairs

707-428-7300

Free Water Conservation Audit

707-410-5469

EPA Safe Drinking Water Hotline

800-426-4791

Sensitive Populations

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 (800-426-4791).

Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse en City of Fairfield a 707-437-5397 para asistirlo en español.

Ang pag-uulat na ito ay naglalaman ng mahalagang impormasyon tungkol sa inyong inuming tubig. Mangyaring makipag-ugnayan sa City of Fairfield o tumawag sa 707-428 -7496 para matulungan sa wikang Tagalog.



2020

Consumer Confidence Report

The City of Fairfield is pleased to present the 2020 Annual Water Quality Report. We remain committed to providing high-quality drinking water to you, our customers, as we continue to exceed strict state and federal drinking water standards set by the California Division of Drinking Water and the U.S. Environmental Protection Agency. This report includes information that provides a closer look into your drinking water sources and compliance testing for 2020. Thank you for allowing us to serve you.

In order to ensure that tap water is safe to drink, the US Environmental Protection Agency (USEPA) and the State Water Resources Control Board – Division of Drinking Water (State) 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. This report includes details about where your tap water comes from, what it contains, and how it compares to State and USEPA standards.

The tables in this document list the drinking water contaminants detected for the period January 1 - December 31, 2020. The State allows us to monitor for some contaminants less than annually because the concentrations of these contaminants change infrequently. 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's Safe Drinking Water hotline (800-426-4791).

www.fairfield.ca.gov/2020waterreport



SOURCE WATER

Table 1 – DETECTION OF CONTAMINANTS WITH A PRIMARY DRINKING WATER STANDARD					
Substance (reporting units)	MCL	PHG	Drinking Water		Contaminant Sources
			Range	Average	
Aluminum (ppm)	1	0.6	0.02 – 0.10	0.04	Erosion of natural deposits; residue from some surface water treatment processes.
Fluoride (ppm)*	2	1	0.63 – 0.83	0.73	Erosion of natural deposits; water additive that promotes strong teeth.

*The City of Fairfield treats your water by adding fluoride to the naturally occurring level in order to help prevent dental caries in consumers. State regulations require the fluoride levels in the treated water be maintained within a range of 0.6 and 1.2 ppm.

Table 2 – DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD					
Substance (reporting units)	MCL	PHG (MCLG)	Drinking Water		Contaminant Sources
			Range	Average	
Aluminum (ppb)	200	NA	< 20 – 91	67	Erosion of natural deposits; residual from some surface water treatment processes.
Chloride (ppm)	500	NA	10.0 – 26.5	15	Runoff/leaching from natural deposits; seawater influence.
Odor – Threshold	3	NA	N/A	1.4	Naturally-occurring organic materials.
Specific Conductance (µS/cm)	1,600	NA	238 – 489	349	Substances that form ions when in water; seawater influence.
Sulfate (ppm)	500	NA	24.3 – 41.6	32.8	Runoff/leaching from natural deposits; industrial wastes.
Total Dissolved Solids (ppm)	1000	NA	188 –241	211	Runoff/leaching from natural deposits.
Turbidity (Units)	5	NA	0.04 – 0.08	0.05	Soil runoff.

Table 3 – SAMPLING RESULTS FOR SODIUM AND HARDNESS					
Substance (reporting units)	MCL	PHG (MCLG)	Drinking Water		Contaminant Sources
			Range	Average	
Hardness (ppm)	NA	NA	62 – 178	127	It is the sum of cations present in the water, generally magnesium and calcium. They are usually naturally occurring.
Sodium (ppm)	NA	NA	18 – 31	25	Generally naturally occurring and refers to the salt present in the water.

Table 4 – State Contaminants with Notification Levels – PFAS/PFOA				
Substance (reporting units)	NL	PHG (MCLG)	Drinking Water	Health Effects
			Result	
Perfluorooctanoic Acid (ng/L)	5.1	NA	< 2.0	Perfluorooctanoic acid exposures resulted in increased liver weight and cancer in laboratory animals.
Perfluorooctanesulfonic Acid (ng/L)	6.5	NA	< 2.0	Perfluorooctanesulfonic acid exposures resulted in immune suppression and cancer in laboratory animals.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells.

Treatment of source water is divided between two conventional water treatment plants: the Waterman Treatment Plant and the North Bay Regional Water Treatment Plant - NBR is jointly owned by the Cities of Fairfield and Vacaville.

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

Public input on drinking water issues is encouraged. You are welcome to attend a City Council meeting and have your voice heard. Meetings are held the 1st and 3rd Tuesday of each month at 6 p.m. in the Fairfield City Council Chamber at 1000 Webster Street.

SOURCE WATER ASSESSMENTS

State law requires water utilities to conduct initial Source Water Assessments and Watershed Sanitary Surveys at least once every five years for the purpose of investigating potential contaminating activities which may affect the source of water(s).

Source	Year Source Water Assessment Completed	Significant Potential Sources of Contamination	Year of Most Recent Sanitary Survey
Lake Berryessa	2017	Illegal activities Unauthorized Dumping Herbicide Application Agricultural Drainage	2018
Sacramento -San Joaquin Delta	2016	Recreational Use Unauthorized Dumping Herbicide Application Agricultural Drainage	2017

A copy of the complete assessments and associated vulnerability summaries can be obtained through the State Water Resources Control Board - Division of Drinking Water, San Francisco District Office, 850 Marina Bay Parkway, Building P, 2nd Floor, Richmond, CA 9804 (510-620-3474).

Distribution System

Table 5 – DISINFECTION BYPRODUCTS PRECURSORS, DISINFECTION BYPRODUCTS AND DISINFECTANT RESIDUALS				
Substance	Compliance Ratio	Range	Average	Contaminant Sources
DBP Precursors	More than or equal to 1.0	1.5 – 3.4	2.6	Various natural and man-made sources
Substance (reporting units)	MCL	PHG (MCLG)	Range	Highest Running Annual Average
Trihalomethanes (ppb)	80	NA	15.0 – 52.0	51
Haloacetic Acids (ppb)	60	NA	3.9 – 17.0	14
Substance (reporting units)	MRDL	MRDLG	Range	Running Annual Average
Chlorine (ppm)	4	4	< 0.10 – 1.9	0.75

Table 6 – TURBIDITY AS A MEASURE OF FILTER PERFORMANCE					
Substance (reporting units)	MCL	PHG (MCLG)	Entry Point to Distribution System		Contaminant Sources
			NBR	Waterman	
Turbidity (Units)	TT = 1.0	NA	0.10	0.13	Soil runoff
Measure of the cloudiness of the water.	Percentage of samples ≤ 0.3		100	100	

Table 7 – DETECTION OF COLIFORM BACTERIA				
Substance	MCL	MCLG	Distribution System	Contaminant Sources
Total Coliform Bacteria	5 %	0	0.6	Naturally present in the environment
Fecal Coliform / E. coli	*	0	0	Human and animal fecal waste

*A routine sample and a repeat sample detect total coliform and either sample detects fecal coliform or E. coli.

Table 8 – DETECTION OF LEAD AND COPPER IN CUSTOMER TAPS						
Substance (reporting units)	AL	PHG	No. of Samples (Collected in 2020)	90 th Percentile Detected	No. Sites exceeding AL	Contaminant Sources
Lead (ppb)	15	0.2	50	< 5.0	0	Plumbing corrosion; erosion of natural deposits
Copper (ppm)	1.3	0.3	50	0.121	0	Plumbing corrosion; erosion of natural deposits

ABBREVIATIONS AND DEFINITIONS

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

MCL – Maximum Contaminant Level: The highest level of a contaminant 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.

MCLG – Maximum Contaminant Level Goal: The level of a contaminant in drinking water below which there is no known or expected risk to health. Set by U.S. Environmental Protection Agency.

MRDL – Maximum Residual Disinfectant Level: 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.

MRDLG – Maximum Residual Disinfectant Level Goal: 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.

NA – Not Applicable ND – Not Detected

NL – Notification Level

PHG – Public Health Goal: 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.

Ppb – Parts per billion: or micrograms per liter (µg/L)

Ppm – Parts per million: or milligrams per liter (mg/L)

TT – Treatment Technique: A required process intended to reduce a contaminant in drinking water

µS/cm – microsiemens per centimeter

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