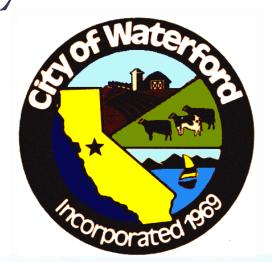
Waterford 2024 Annual Water Quality Report for the Waterford Water System 5010006



The City of Waterford Water Department is pleased to present to you the 2024 Consumer Confidence Report. You will find detailed information regarding your drinking water quality, where it comes from, and other information in compliance with State and Federal law.

This report is intended to assure citizens that their drinking water is of the highest quality, meeting all federal and state water quality standards since implementation of the U.S. Environmental Protection Agency (USEPA) Safe Drinking Water Act was passed in 1974.

Through our trained and certified water professionals, citizens have the security of knowing their drinking water is the very best quality.



Welcome

The City of Waterford is pleased to provide you with water that meets the United States Environmental Protection Agency (USEPA) standards for safety. In accordance with the USEPA and California regulations under the Safe Drinking Water Act, water utilities are required to provide detailed water quality information to their consumers. Found in this report are water quality information.

This report contains important information about your drinking water. If the report is not available in your native language, we encourage you to identify someone who understands it and can translate for you.

Este informe contiene información importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien. Para información en español, llame por favor al (209) 874-2328.

> City of Waterford Contact Information Mailing Address P.O. Box 199 Waterford, Ca. 95386 (209) 874-2328



Waterford Conservation Program



Conservation goals are still underway.
Senate Bill 7 (SB X7-7 of 2009) requires Urban and Agriculture to reduce water use 20% by 2021. The citizens of Waterford worked together and significantly reduced water usage by over 20%.

For ways to save visit: http://saveourwater.com/

The average U.S. household uses approximately 400 gallons of water per day or 100 gallons per person per day? Luckily, there are many low-cost and no-cost ways to conserve water. Small changes can make a big difference – try one today and soon it will become second nature.

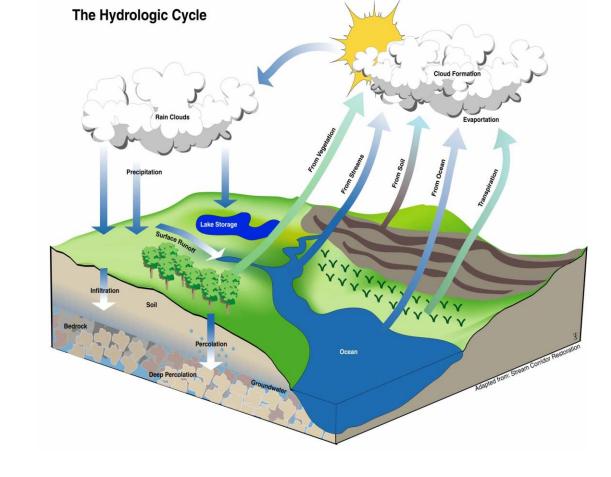
- Take short showers a 5 minutes shower uses 4 to 5 gallons of water compared to up to 50 gallons for a bath.
- Shut off water while brushing your teeth, washing your hair, and shaving and save up to 500 gallons a month.
- Use a water-efficient showerhead. They are inexpensive, easy to install, and can save you up to 750 gallons a month.
- Run your clothes washer and dishwasher only when they are full. You can save up to 1,000 gallons a month.
- Water plants only when necessary.
- Fix leaking toilets and faucets. Faucet washers are inexpensive and take only a few minutes to replace. To check your toilet for a leak, place a few drops of food coloring in the tank and wait. If it seeps into the toilet bowl without flushing, you have a leak. Fixing it or replacing it with a new, more efficient model can save up to 1,000 gallons a month.
- Adjust sprinklers so only your lawn is watered. Apply water only as fast as the soil can absorb it and during the cooler parts of the day to reduce evaporation.
- Teach your kids about water conservation to ensure a future generation that uses water wisely. Make it a family effort to reduce next month's water bill!
- Visit <u>www.epa.gov/watersense</u> for more information.

Sampling and Treatment

Waterford relies solely on groundwater for the drinking water system. As water moves through the hydrological cycle, or water cycle, and through the earth to our aquifer it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from human activity.

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (USEPA) and the State Water Resources Control Board (SWRCB) 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. Additional information on bottled water is available on the California Department of Public Health website (https://www.cdph.ca.gov/Programs/CEH/DFDCS/Pages/FDBPrograms/FoodSafetyProgram/Water.aspx).



A Source Water Assessment is available. Please contact The City of Waterford for more information.

USEPA and the State Water Resources Control Board

The State Water Resources Control Board requires us to inform you that:

"Drinking water, including bottled water, mat 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 people 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).



Contaminant Information

Contaminants that may be in source water include:

- <u>Microbial contaminants</u>, such as viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- <u>Inorganic contaminants</u>, such as salts and metals, which can be naturally Inorganic contaminants, such as salts and metals, which can be naturally-occurring occurring or result from urban storm water runoff, industrial or domestic wastewater or result from urban storm water 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 storm water runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, agricultural application, and septic systems.
- Radioactive contaminants, that can be naturally be naturally-occurring or be the result of oil and gas production or mining activities.
- <u>Nitrate</u> 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.
- 1,2,3-trichloropropane or TCP was an impurity in soil fumigants used from the 1950's to the 1980's, has been detected in some of the wells used to supply your drinking water. Prior to 2018 TCP was an unregulated contaminant. However, the State Water Resources Control Board adopted a new Maximum Contaminant Level (MCL) of 5 parts per trillion (ppt) for TCP that went into effect on January 1st of 2018. The average TCP level detected in the City water supply during the 2018 calendar year was 0.0 ppt. Some people who drink water containing TCP in excess of the MCL over many years may have an increased risk of getting cancer.

Water Quality Sampling

On a monthly basis, City staff collect samples for contaminants as required by the State. For more detailed information, we have provided you with a table showing what types of contaminants have been tested, the results of those water samples, and the State MCLs (Maximum Contaminant Levels).

The table below lists contaminants which: 1) have associated primary Maximum Contaminant Levels (MCLs) that are registered and 2) were detected by the City of Waterford's Water Services Division. Contaminants were detected below, at or above the Detection Limits for Purposes of Reporting (DLR). The presence of these contaminants in the drinking water does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health risks can be obtained by calling the U.S. Environmental Protection Agency (EPA) at (800) 426-4791 or visiting the agency's website at www.epa.gov/safewater.hfacts.html. California action levels are available on the State Water Resources Control Boards website www.waterboards.ca.gov.

<u>Table 1</u> lists all regulated contaminants with Primary MCLs that the City of Waterford's Water Services Division detected in the drinking water below, at or above the State DLR.

<u>Table 2</u> lists regulated contaminants with Secondary MCLs that were detected at or above the State DLR.

<u>Table 3</u> lists disinfection residuals and by-products that were detected in the treated water.

The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, are more than one year old.

<u>DLR</u>: detection limit for reporting

<u>mg/L</u>: number of milligrams in one liter of water

n/a: not applicable

NTU: nephelometric turbidity units

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

ppb: parts per billion

ppm: parts per million

ppt: parts per trillion

TT: treatment technique

μS/cm: micro-siemens/cm

>: Greater than

<: less than

LRAA: locational Running Annual Average

The following tables on pages 8 - 11 contain detailed information showing what type of chemicals have been found in the water, the results, and the State Maximum Contaminate Levels (MCLs)

COMPARATIVE FIGURES FOR INTERPRETING

MEASUREMENTS WITHIN THIS REPORT

1 PPM	1 PPB	1 PPT				
1 second in 11.5 days	l second in nearly 32 years	1 second in nearly 32,000 years				
1 penny out of \$10,000	1 penny of \$10,000,000	1 penny of \$10,000,000,000				
1 inch of 15.8 miles	l inch of 15,782.8 miles	l inch of 657.6 trips around the equator				
1 minute in 1.9 years	l minute in 19 centurys	l minute in 1,900 millenniums				
l ounce in 62,500 pounds	1 ounce in 31,250 tons	1 ounce in 31,250,000				

*SOURCE: AMERICAN WATER WORKS ASSOCIATION (AWWA) WEBSITE

DEFINITION OF TERMS

<u>Maximum Contaminant Level (MCL):</u> The highest level of a contaminant that is allowed in drinking water.

<u>Primary MCLs are set as close to the PHGs (or MCLGs):</u> as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

<u>Maximum Contaminant Level Goal (MCLG):</u> 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>Public Health Goal (PHG):</u> 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.

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

<u>Maximum Residual Disinfectant Level (MRDL):</u> 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.

<u>Maximum Residual Disinfectant Level Goal (MRDLG)</u>: 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.

<u>Regulatory Action Level:</u> The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

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

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

Attazine	T.O.N.	.23	1.0	1.00	U	0	2023	NO		
Odor	Color	3.0	8.0	3.00	7	0	2024	No		
Color	Units	3.0	3.0	3.0	5	•	2024	No		
	011110								Dischar	ge from electroplating factories, leather tanneries, wood
Hexavalent	Ppb	10	0.02	1	2.42	2.42	2025	No		ation, chemical synthesis, refractory production, and textile
Chromium	ı po	10	0.02	-	2.42	2.42	2023	110	-	cturing facilities; erosion of natural deposits
Calcium	mg/l	0.0500	n/a	1.00	0-29.9	0-29.9	2024	No	manara	cturing facilities, erosion of natural deposits
Magnesium	mg/l	0.100	n/a	1.00	0-29.5	19.5	2024	No		
MBAS	Mg/l	0.10	n/a	1.00		0-1.00	2023	No		
Nitrite	_	10	11/a 10	0.21		0-1.00 0-0.21	2023	No		
Mitrite	Mg/l	10	10	0.21	0.21	0-0.21	2024	NO		
									F	of water all demonstrations and the orbits of the orbits of the state
NI:Lunta	D	10	10	2	450	0.4.54	2024	No		of natural deposits; runoff/leaching from fertilizer use, septic
Nitrate	Ppm	10	10	2		0-4.54	2024	No	tanks ar	nd sewage
Aluminum	Ug/l	1000	n/a	50	4.63	0	2024	No		
Antimony	Ug/l	0	n/a	6	0	0	2024	No		
Barium	Ug/l	1000	n/a	150		.00-200	2024	No		
Beryllium	Ug/l	4	n/a	1.0	<1	<1	2024	No		
Cadmium	Ug/l	5	n/a	1.0	<10	<1	2024	No		
Chromium	Ug/l	50	n/a	10.0	<20	<10	2024	No		
Manganese	Ug/l	50	n/a	20.0	<1	0	2024	No		
Mercury	Ug/l	2	n/a	1.0	<1	<1	2024	No		
Nickel	Ug/l	100	n/a	10.0	<10	<10	2024	No		
Selenium	Ug/l	50	n/a	5.0	ND	ND	2024	No	Non-De	etect
Silver	Ug/l	100	n/a	10.0	ND	ND	2024	No		
			-		SYNTH	TIC ORGAN	IIC CHEMICALS/HER		STICIDES	
CONTAMINIANT	UNITS	MCL	PHG	DLR	AVG	RANGE	YEAR SAMPLED	VIOLATIC		TYPICAL SOURCE OF CONTAMINANTS
CONTAIVIINIANT	ONITS	IVICE	FIIG	DLIN	AVG	KANGL	TEAN SAIVIFEED	VIOLATIC) IN	TIFICAL SOURCE OF CONTAININAINTS
1,2,3										
Trichloropropane	ppt	5	.7	5	0.0	0.0	2024	No		
(TCP)	• •									Historical application of soil fumigants
	RADIOACTIVE CONTAMINANTS									
CONTAMINANT	UNITS	MCL	PHG	DLR	AVG	RANGE	YEAR SAMPLED	VIOLATI	ON	TYPICAL SOURCE OF CONTAMINANTS
CONTAININAIN	ONITS	IVICE	FIIG	DLI	AVG	MANGE	TEAR SAIVIFEED	VIOLATI	OIV	TIFICAL SOURCE OF CONTAININAINTS
Gross Alpha	nCi/I	15			0-0.922	022 1 01	2023	No		Erosion of natural deposits
VOC	pCi/L Ug/l	13	0.43	3	U-U.922 ∩	.922-1.91 Non Detect	2023 2024	No No		Liosion of natural acposits
	557 €		All Indiana		<u> </u>	Hon Beteet	2027	140		
	G.				THE STATE OF THE S					
	The same of		10000		1		al P			

TABLE 2 - DETECTED REGULATED CONTAMINANTS WITH SECONDARY MCL'S

CONTAMINANT	UNITS	STAND	ARDS	PHG	DLR	AVG	RANGE	YEAR SAN	MPLED VI	IOLATION	TYPICAL SOURCE OF CONTAMINANTS
Chloride	ppm	50	0	n/a	n/a	10.5	8.5-12.4	202	0	No	Runoff and leaching from natural deposits; seawater influence
Specific Conductance	uS/cm	160	00	n/a	n/a	377	377 377		4	No	Substances that form ions when in water; seawater influence
Sulfate	ppm	50	0	n/a	0.5	16.9	16.9	201	2018 No		Runoff/leaching from natural deposits; industrial wastes
	ADDITIONAL INORGANIC CONTAINMINANTS										
CONTAMINANT	UNITS	MCL	PHG	DLR	AVG	RANGE		YEAR SAN	IPLED VIC	OLATION	TYPICAL SOURCE OF CONTAMINANTS
Hardness(as CaCO3)	Ppm	0.100	n/a	0.100	155	1	155		2024 No		"Hardness" is the sum of polyvalent cations present in the water, generally magnesium and calcium. The cations are
Sodium	mg/l	2.00	n/a	n/a	0-21	0-	-21	2024	2024 No		usually naturally occurring.
AT THE TAP CONTAMINANTS											
CONTAMINANT	UNITS	ACTION LEVEL	PHG	DLR	# OF SAMPLES	90TH%	90TH% CONCENTRATION		YEAR SAMPLED	#SAMPLE > ACTION LIMITS	TYPICAL SOURCE OF CONTAMINANTS
Copper	Mg/l	1.3	0.3	0.05	20		0.124		2023	0	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives Internal corrosion of household water plumbing systems;
Lead	Mg/l	15	0.2	5	20		.000576		2023	0	discharges from industrial manufacturers; erosion of natural

deposits

BACTERIOLOGIAL CONTAMINANTS

CONTAMINANT	UNITS	MCL	PHG	DLR	AVG	RANGE	YEAR SAMPLED	VIOLATION	TYPICAL SOURCE OF CONTAMINANTS	
Heterotrophic Plate Count	cfu/m	l n/a	n/a	n/a	2.00	0-20	2024	No	n/a	
BACTERIOLOGIAL CONTAMINANTS										
CONTAMINANT	UNITS	MCL	PHG	DLR	Highe	est Month	YEAR SAMPLED	VIOLATION	TYPICAL SOURCE OF CONTAMINANTS	
Total Coliform Bacteria	Present / Absent	>5.0% per month	0	n/a		0%	2024	No	Naturally present in the environment	
TABLE 3 - DETECTED DISINFECTION BY-PRODUCTS AND DISINFECTION RESIDUAL										
DISINFECTANT RESIDUAL										
CONTAMINANT	UNITS	MCL	PHG	DLR	AVG R	RANGE YE	AR SAMPLED	VIOLATION	TYPICAL SOURCE OF CONTAMINANTS	
Chlorine	mg/l	4	4	n/a	0.94 .8	31-1.15	2024	No	Drinking water disinfectant added for treatment	
DISINFECTANT BY-PRODUCTS										
CONTAMINANT	UNITS	MCL	PHG	DLR	AVE	RANGE	YEAR SAMPLED	VIOLATION	TYPICAL SOURCE OF CONTAMINANTS	
Total Haloacetic Acid	ls ppb	60	ND	<1	<1	0	2024	No	By-product of Drinking water disinfection	
Trihalomethanes (Total)	Ppb	80	ND	1.75	0	0	2024	No	By-product of Drinking water disinfection	
EDB/DBCP	Ug/l	70-130	0.13	0.010	0.078- 0.79	0095	2024	No	By-product of Drinking water disinfection	
			15							
ALC:			6 X3/							