

# Waterford 2022 Annual Water Quality Report for the River Pointe Water System 5010042



The City of Waterford Water Department is pleased to present to you the 2022 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 is water quality information of the River Pointe Water System.

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) 874-2324

# River Pointe 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 River Pointe 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 [www.epa.gov/watersense](http://www.epa.gov/watersense) for more information.



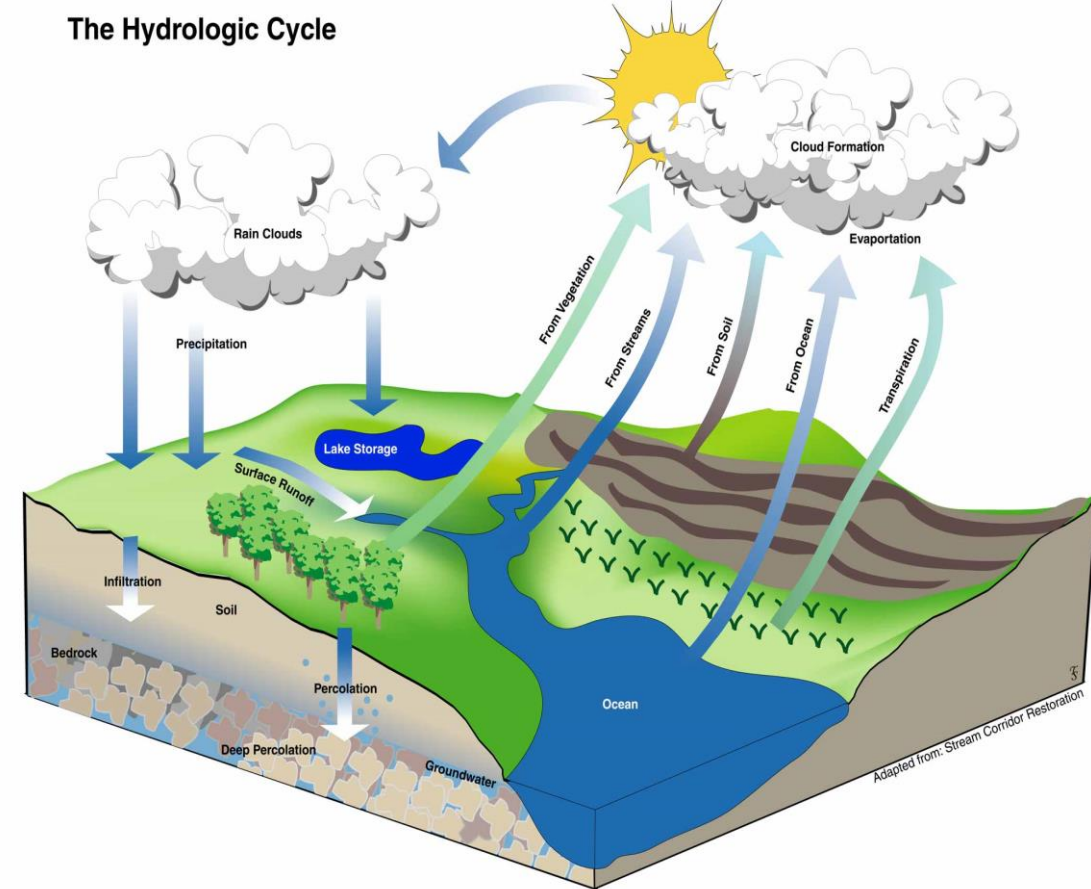
# Sampling and Treatment

River Pointe 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>).

The Hydrologic Cycle



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, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA’s Safe Drinking Water Hotline (1-800-426-4791).

“Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as 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:

- 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, which can be naturally occurring 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 occurring or be the result of oil and gas production or mining activities.
- 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.
- 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 approximately 170 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](http://www.epa.gov/safewater/hfacts.html). California action levels are available on the State Water Resources Control Boards website [www.waterboards.ca.gov](http://www.waterboards.ca.gov).

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

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

Table 3 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.

DLR: detection limit for reporting

mg/L: number of milligrams in one liter of water

n/a: not applicable

NTU: nephelometric turbidity units

pCi/L: 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 Contaminant Levels (MCLs)

# COMPARATIVE FIGURES FOR INTERPRETING MEASUREMENTS WITHIN THIS REPORT

1 PPM	1 PPB	1 PPT
1 second in 11.5 days	1 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	1 inch of 15,782.8 miles	1 inch of 657.6 trips around the equator
1 minute in 1.9 years	1 minute in 19 centurys	1 minute in 1,900 millenniums
1 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

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

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

**Maximum Contaminant Level Goal (MCLG):** The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency.

**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 Standard (PDWS):** MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

**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.

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

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

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



**INORGANIC CONTAMINANTS**

CONTANIMANT	UNITS	MCL	PHG	DLR	AVG	RANGE	YEAR SAMPLED	VIOLATION	TYPICAL SOURCE OF CONTAMINANTS
Arsenic	Ug/l	10	0.004	2	2.234	0-2.234	2022	No	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Copper	ug/l	50	0.15	n/a	0	0	2022	No	
Nickel	ug/l	10	0.070	n/a	0	0	2022	No	
Silver	ug/l	10	0.070	n/a	0	0	2022	No	
Barium	Ug/l	1	2	.01	134.65	123.4-145.9	2022	No	Erosion of natural deposits; discharges of oil drilling wastes and from metal refineries
Selenium	ug/l	5.0	1.1	n/a	0	0	2022	No	
Zinc	ug/l	50	0.20	n/a	0.464	0-0.464	2022	No	
Fluoride	Mg/l	2	1	.1	0	0	2022	No	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate	ppm	10	10	.3	0.91	0-1.82	2022	No	Erosion of natural deposits; runoff/leaching from fertilizer use, septic tanks and sewage
Gross Alpha	pCi/L	15	0	1	.241	.047-.434	2015	No	Erosion of natural deposits
Manganese	ug/l	4.000	0	4.000	106.75	0.00-213.5	2022	No	The raw water is treated to Non-detectable limits

**SYNTHETIC ORGANIC CHEMICALS/HERBICIDES AND PESTICIDES**

CONTANIMANT	UNITS	MCL	PHG	DLR	AVG	RANGE	YEAR SAMPLED	VIOLATION	TYPICAL SOURCE OF CONTAMINANTS
Dibromo-chloropropane (DBCP)	ppt	200	1.7	10	ND	ND	2020	No	Banned nematicide that may still be present in soils due to runoff/leaching from former use on soybeans, cotton, vineyards, tomatoes and tree fruit
1,2,3 Trichloropropane (TCP)	Ppt	5	.7	5	0.0	0.0	2018	No	Historical application of soil fumigants
Odor	TON	1	ND	1	2.25	2.0-2.5	2022	No	



AT THE TAP CONTAMINANTS										
CONTANIMANT	UNITS	ACTION LEVEL	PHG	DLR	# OF SAMPLES	90TH% CONCENTRATION		YEAR SAMPLED	#SAMPLE > ACTION LIMITS	TYPICAL SOURCE OF CONTAMINANTS
Copper	ppm	1.3	.3	.05	10	ND		2020	0	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead	ppb	15	.2	5	10	ND		2020	0	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
TABLE 2 - DETECTED REGULATED CONTAMINANTS WITH SECONDARY MCL'S										
CONTANIMANT	UNITS	STANDARDS		PHG	DLR	AVG	RANGE	YEAR SAMPLED	VIOLATION	TYPICAL SOURCE OF CONTAMINANTS
Chloride	Ppm	500		n/a	n/a	55.25	35.4-75.1	2022	No	Runoff and leaching from natural deposits; seawater influence
Specific Conductance	Umhos/cm	1600		n/a	n/a	362.9	321-404.8	2022	No	Substances that form ions when in water; seawater influence
Total Dissolved Solids	ppm	1000		n/a	n/a	245	230-260	2022	No	Runoff/leaching from natural deposits
Turbidity	NTU	5		n/a	n/a	0.95	0.5-1.4	2022	No	Soil runoff
Cadmium	ug/l	0.17		1.0	1.0	0	0	2022	No	
Iron	ug/l	300		n/a	100	70	ND-140	2022	No	Runoff and leaching from natural deposits; industrial waste
Aluminum	ug/l	50		n/a	0.57	0	0	2022	No	
Antimony	ug/l	4.0		n/a	0.57	0	0	2022	No	
ADDITIONAL INORGANIC CONTAINMINANTS										
CONTANIMANT	UNITS	MCL	PHG	DLR	AVG	RANGE		YEAR SAMPLED	VIOLATION	TYPICAL SOURCE OF CONTAMINANTS
Hardness(as CaCO3)	ppm	n/a	n/a	n/a	91.3	74.6-108		2022	No	“Hardness” is the sum of polyvalent cations present in the water, generally magnesium and calcium. The cations are usually naturally occurring.

BACTERIOLOGICAL CONTAMINANTS									
CONTANIMANT	UNITS	MCL	PHG	DLR	AVG	RANGE	YEAR SAMPLED	VIOLATION	TYPICAL SOURCE OF CONTAMINANTS
Heterotrophic Plate Count	cfu/ml	n/a	n/a	n/a	5	ND-10	2022	No	n/a

BACTERIOLOGICAL CONTAMINANTS									
CONTANIMANT	UNITS	MCL	PHG	DLR	Highest Month	YEAR SAMPLED	VIOLATION	TYPICAL SOURCE OF CONTAMINANTS	
Total Coliform Bacteria	Present / Absent	>5.0% per month	0	n/a	0%	2022	No	Naturally present in the environment	

**TABLE 3 - DETECTED DISINFECTION BY-PRODUCTS AND DISINFECTION RESIDUAL**

DISINFECTANT RESIDUAL									
CONTANIMANT	UNITS	MCL	PHG	DLR	AVG	RANGE	YEAR SAMPLED	VIOLATION	TYPICAL SOURCE OF CONTAMINANTS
Chlorine	mg/l	4	4	n/a	1.08	0.35-1.82	2022	No	Drinking water disinfectant added for treatment

DISINFECTANT BY-PRODUCTS									
CONTANIMANT	UNITS	MCL	PHG	DLR	AVE	RANGE	YEAR SAMPLED	VIOLATION	TYPICAL SOURCE OF CONTAMINANTS
Total Haloacetic Acids	ppb	60	n/a	n/a	1.20	1.1-1.3	2022	No	By-product of Drinking water disinfection
Trihalomethanes (Total)	ppb	80	n/a	n/a	5.55	5.4-5.7	2022	No	By-product of Drinking water disinfection

