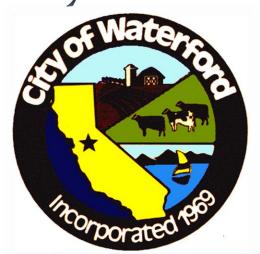
Waterford 2017 Annual Water Quality Report for the River Pointe Water System 5010042



The City of Waterford Water Department is pleased to present to you the 2017 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.

In addition, to meet the new regulations, upon request by the Waterford School district, all schools have been sampled for Lead and Copper. Please contact the Waterford School District for these results.

219 N. Reinway Ave, Building 2, Waterford, Ca 95386. (209)874-1809.

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 2020. The citizens of River Pointe worked together and significantly reduced water usage by 32%.

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.

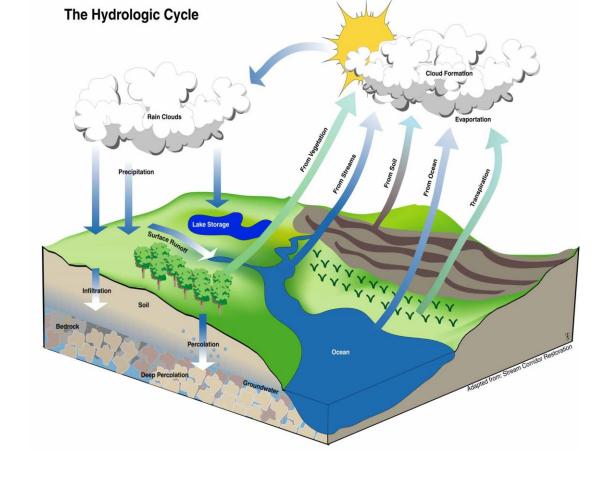
- Take short showers a 5 minutes shower uses 4 to 5 gallons of water compared to up to 50 gallons for a bath.
- Shut off water while brushing your teeth, washing your hair, and shaving and save up to 500 gallons a month.
- Use a water-efficient showerhead. They are inexpensive, easy to install, and can 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

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).



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. Immunocompromised 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, 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, 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.



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. 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 Modesto'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

<u>TT</u>: treatment technique

μS/cm: micro-siemens/cm

<: less than

>: greater 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	1 second in 31.7 years	l second in 317.1 centuries
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	l minute in 19 centurys	l minute in 1,900 millenniums
l ounce in 62,500 pounds	l 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.

TABLE 1 - DETECTED REGULATED CONTAMINANTS WITH MCL'S

11		CA		CO	NTAN	AIRIA	NITC
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CONTANIMANT	UNITS	MCL	PHG	DLR	AVG	RANGE	YEAR SAMPLED	VIOLATION	TYPICAL SOURCE OF CONTAMINANTS
Arsenic	ppb	10	0.004	2	ND	0	2016	No	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Barium	ppm	1	2	.01	.179	.116242	2016	No	Erosion of natural deposits; discharges of oil drilling wastes and from metal refineries
Flouride	ppm	2	1	.1	.5	.4860	2016	No	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate	ppm	10	10	.4	3.08	2.98-3.18	2017	No	Erosion of natural deposits; runoff/leaching from fertilizer use, septic tanks and sewage
Gross Alpha	pCi/L	15	0	1	.241	.047434	2015	No	Erosion of natural deposits

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	2017		Banned nematocide that may still be present in soils due to runoff/leaching from former use on soybeans, cotton, vineyards, tomatoes and tree fruit

AT THE TAP CONTAMINANTS **ACTION CONTANIMANT UNITS** PHG DLR # OF 90TH% CONCENTRATION YEAR **#SAMPLE > TYPICAL SOURCE OF CONTAMINANTS** LEVEL **SAMPLES SAMPLED ACTION LIMITS** Internal corrosion of household plumbing systems; erosion of 1.3 .05 10 ND 2017 0 Copper .3 ppm natural deposits; leaching from wood preservatives Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of 10 ND 2017 ppb 15 .2 5 0 Lead 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** Runoff and leaching from natural deposits; seawater Chloride 500 n/a n/a 93.5 67.9-119 2016 No ppm influence Specific Substances that form ions when in water; seawater influence uS/cm 1600 n/a n/a 539.5 436-643 2016 No Conductance

Total Dissolved Solids	ppm	100	0	n/a	n/a	341	273-409	2016	No	Runoff/leaching from natural deposits	
Turbidity	NTU	5		n/a	n/a	.9	.5-1.2	2016	No	Soil runoff	
Iron	ppm	300	D	n/a	n/a	ND	ND	2017	No	Runoff and leaching from natural deposits; industrial waste	
ADDITIONAL INORGANIC CONTAINMINANTS											
CONTANIMANT	UNITS	MCL	PHG	DLR	AVG	R.A	NGE	YEAR SAMPLED	VIOLATION	TYPICAL SOURCE OF CONTAMINANTS	
Hardness(as CaCO3)	ppm	n/a	n/a	n/a	97	86.9-107		2016	No	"Hardness" is the sum of polyvalent cations present in the water, generally magnesium and calcium. The cations are usually naturally occurring.	

BACTERIOLOGIAL 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	4	ND-6	2017	No	n/a		
BACTERIOLOGIAL CONTAMINANTS											
CONTANIMANT	UNITS	MCL	PHG	DLR	Highe	st Month	YEAR SAMPLED	VIOLATION	TYPICAL SOURCE OF CONTAMINANTS		
Total Coliform Bacteria	Present / Absent	>5.0% per month	0	n/a		0%	2017	No	Naturally present in the environment		
				TABLE 3	3 - DETECT	ED DISINFE	CTION BY-PRODUCT	S AND DISINFECTIO	N RESIDUAL		
						С	DISINFECTANT RESID	UAL			
CONTANIMANT	UNITS	MCL	PHG	DLR	AVG	RANGE	YEAR SAMPLED	VIOLATION	TYPICAL SOURCE OF CONTAMINANTS		
Chlorine	mg/l	4	4	n/a	1.17	1-1.5	2017	No	Drinking water disinfectant added for treatment		
						DIS	INFECTANT BY-PROI	DUCTS			
CONTANIMANT	UNITS	MCL	PHG	DLR	AVE	RANGE	YEAR SAMPLED	VIOLATION	TYPICAL SOURCE OF CONTAMINANTS		
Total Haloacetic Acids	ppb	60	n/a	n/a	.85	0-1.7	2017	No	By-product of Drinking water disinfection		
Trihalomethanes (Total)	ppb	80	n/a	n/a	7.97	5.94-10	2017	No	By-product of Drinking water disinfection		