CITY OF KELSO 2015 WATER QUALITY REPORT

Water Source:

The City of Kelso gets its water from a groundwater well

In 2015 the City of Kelso

maintained water quality compliance and tested for all required substances. Starting with good water quality is only a small part of the picture. The valuable distribution assets (piping, valves, hydrants, reservoirs, pumping, meters and pressure stations) and their ongoing operation and maintenance are just as vital to the community and public health.

It is the Mission to: Plan, Prioritize, Construct, Operate and Maintain Public Infrastructure in order to provide continuous health and safety while positively impacting citizen's quality of life by efficiently and innovatively maximizing available resources within the city so that we provide high quality services for the public.

prepared

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you have

any ques-

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formation

please call

us at (360-

577-1085)

tions about wathat was constructed in 1978. The well is located on the banks of the Cowlitz River and is determined by the Department of Health to be groundwater under the influence of surface water. This means we must treat our water to the higher surface water standards. The City of Kelso Water Treatment Plant, starts with a high quality source water and further treats it. Our goal is to continue producing "optimal filtered water" 100% of the time. The City of Kelso also supplies water to some, Beacon Hill Water & Sewer District customers in outlying parts of Kelso & to the Davis Terrace Water Association.

Get Involved: We encourage public interest in our community's decisions affecting drinking water. Your City Council meets the first and third Tuesday of each month in the Council Chambers, located in Kelso at 203 South Pacific, meetings start at 6:00 PM. Information about your water and other departments can also be found at the City's web page. http://www.kelso.gov. El informe contiene informacion importante sorbe la calidad del agua en su comunidad. Traduzcal o hable con alguien que lo entienda bien.

YOUR WATER IS SAFE TO DRINK



Tips to Reduce Copper And Lead Levels that may leach from household plumbing!

"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. The City of Kelso 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 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, 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/safewater/lead." 30 Kelso residents were sampled in 2014, with great results for lead and copper.

Use Water Wisely - Check out our web page for more water tips and our annual Water Use Efficiency Report - at http://www.kelso.gov

Indoor Water Conservation Tips:			Outdoor Water Conservation Tips:		
•	Fix leaky plumbing fixtures, faucets and appliances in the house	•	Sweep rather than hose down, sidewalks, driveways, and other impervious surfaces.		
٠	Run only full loads in the washing machine and dish- washer. Install water saving devices. Turn the water off while shaving and brushing your teeth.	•	Add organic matter such a compost or peat moss to your soil to improve its ability to retain water.		
♦		* *	Water prudently only when necessary and in the morning or late evening when temperatures are cooler. Mow higher, longer grass holds soil moisture better than a shorter lawn.		

Some people may be more vulnerable to contaminants in drinking water than is the general population: Im-Plant staff muno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV / AIDS or other immune systems 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. EPA and Centers for Disease Control guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from the Safe Drinking Water Hotline (800-426-4791). The City of Kelso started a monthly cryptosporidium testing program on our untreated well water starting in January of 2008, over two years we are pleased to report that all 24 monthly samples collected, were free of Cryptosporidium and E-coli.

> 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 radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in water sources include microbes, pesticides, herbicides, organic or inorganic chemicals and radioactive materials. To ensure that tap water is safe to drink, EPA (Environmental Protection Agency) and/or the Washington State Board of Health prescribes regulations that limits the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) and/or the Washington State Department of Agriculture regulations establish limits for contaminants in bottled water. 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 (EPA) Safe Drinking Water Hotline (800-426-4791).

<u>*How to Read This Table:*</u> The chart in this report provides representative analytical results of water samples collected from our system over the last 5 years. We are required to test for many other contaminants but we only list the ones that were detected.

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Action Level (AL): The concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow. For lead and copper, the AL is at the 90th percentile, thus 90% of the samples must be below the AL.

ppm= parts per million, **ppb**= parts per billion, **pCi/l**= picocuries per liter (a measure of radiation), **NA**= Not applicable, **umhos/cm**=micromhos

Contaminant	Date	Unit	MCL	MCLG	Detected	Major Sources of these Contaminants Vi	olatior
					EPA a	and State Primary Contaminates	
Nitrate	2015	ppm	10	10	0.35	Runoff from fertilizer use, leaching from septic tanks, sewage, erosion of natural deposits.	No
Beta	4/8/10	pCi/l	50	NA	1.8	Decay of natural and man-made deposits.	No
Radium 228	4/8/10	pCi/l	5	NA	0.14	Erosion of natural deposits.	No
Lead / Homes Homes	2014	ppb	AL=15 At 90%	0	3 At 90%	Corrosion of household plumbing systems, erosion of natural deposits.	No
Copper/ Homes	2014	ppb	AL=1300 At 90%	NA	282 At 90%	Corrosion of household plumbing systems, erosion of natural deposits, leaching fror wood preservatives.	n No
Sodium	2015	ppm	NA	NA	14.8	Erosion of natural deposits.	No
Hardness	2015	ppm	NA	NA	29.4	Erosion of natural deposits.	No
Conductivity	2015	Um- hos/	700	NA	137	Natural occurring	No
Chromium	2014	ppb	100	100	29	Geology natural weathering and industrial discharge.	No
	1				EPA ar	nd State Secondary Contaminates	
Chlorine	2015	ppm	4	4	.2 to 1.6	(Range during Coliform sampling) Water additive used to control microbes.	No
Fluoride	2015 Ave.	ppm	2	ave	0.86	(annual average) Water additive which promotes strong teeth, Erosion of natural deposits, discharge from fertilizer and aluminum factories.	No
Iron	2014	ppb	300	NA	3.7	(annual average) Geology, natural weathering.	No
Manganese	2014	ppb	50	NA	2.5	(annual average) Geology, natural weathering.	No
		-	-		Disin	fection Byproducts Monitoring	_
TTHMs	2015	ppb	80	ave	27.8	By-product of drinking water chlorination. (sampled in distribution system quarterly	y) No
HAA(5)	2015	ppb	60	ave	14.41	By-product of drinking water chlorination. (sampled in distribution system quarterly	v) No
TOC average	2015	ppm	NA	4	0.50	Naturally present in the environment.	No
	U	nregul	ated EPA a	nd State (1	Kelso parti	icipates in all required testing used for possible future regulations)	
Unregulated Contaminant	Date Tested	Unit	Min Detected	Max Detected	Ave De- tected	Major Sources for these Contaminants	
Silica	2015	ppm	NA	NA	21	Erosion of natural deposits.	No
Chloroform	7/23/12	ppb	NA	NA	2.3	By-product of drinking water chlorination.	NA
Bromodi- chloromethane	7/23/12	ppb	NA	NA	0.77	By-product of drinking water chlorination.	NA
Chromium-6	2014	ppb	0.09 min	0.14 max	0.12 ave	Geology natural weathering and industrial discharge.	NA
Strontium	2015	ppb	34.9 min	36.9 max	37.4 ave	Geology natural weathering and industrial discharge.	NA
Vanadium	2014	ppb	0.29 min	0.42 max	0.37 ave	Geology natural weathering and industrial discharge.	NA
Chlorate	2015	ppb	54.9 min	407 max	241 ave	Geology natural weathering and industrial discharge.	NA

<u>Turbidity:</u> is a measure of water clarity and can greatly influence public health on surface water systems. Kelso has received the, **Washington State Office of Drinking Water - Treatment Optimization Program, "Gold Certificate of Achieve-ment"** (2006 through 2015) for voluntarily maintaining higher filtered water turbidity standards combined with no other system violations. We now have 10 continuous years of optimization!



The bottom line.... The City of Kelso.... Continues to provide safe drinking water to its Customers!