

CITY OF BUELLTON WATER SYSTEM: CONSUMER CONFIDENCE REPORT – JUNE 2017

PRIMARY STANDARDS-Mandatory Health-Related Standards								
Parameter	Units	TREATED			SOURCE			Major Sources of Drinking Water
		State	PHG	Range	CCWA	STATE	GROUND	
Clarity		MCL	(MCLG)	Average	PPWTP	WATER	WATER	
Combined Filter Effluent	NTU	TT=< NTU EVERY 4HOURS			0.03-0.11	NA	0.14-0.35	Soil runoff
Turbidity		TT=95% OF SAMPLES <0.3 NTU			100%	NA	0.22	
MICROBIOLOGICAL								
Total Coliform Bacteria (Distr. System-Wide)	-	5.00%	0	Range	0-2.5%	NA	1 positive*	Naturally present in the environment
				Average	0.40%	NA	0 positives	
Fecal Coliform E. coli (Distr. System-Wide)	-	-	0	Range	0 positives	NA	0 positives	Human and animal fecal waste
				Average	0 positives	NA	0 positives	
INORGANIC CHEMICALS								
Aluminum	ppm	1	0.6	Range	ND-0.082	ND	ND	Residue from water treatment process; Erosion of natural deposits
				Average	0.06	ND	ND	
Arsenic (Total)	ppb	10	0.004	Range	ND	2.4	ND	Erosion of natural deposits; glass & electronics production wastes
				Average	ND	2.4	ND	
Nitrate (as N)	ppm	10	10	Range	0.41	0.43	ND-0.66	Runoff & leaching from fertilizer use; sewage; erosion of natural deposits
				Average	0.41	0.43	0.16	
Fluoride	ppm	2	1	Range	ND	ND	0.30-0.38	Runoff & leaching from fertilizer use; sewage; erosion of natural deposits
				Average	ND	ND	0.34	
RADIONUCLIDES (f)								
Gross Alpha	pCi/L	15	0	Range	NA	NA	2.01-6.55	Erosion of Natural deposits
				Average	NA	NA	5	
Uranium	pCi/L	20	0.43	Range	ND	1	5.8-7.9	Erosion of Natural deposits
				Average	ND	1	6.8	
DISTRIBUTION SYSTEM MONITORING								
TOTAL CHLORINE RESIDUAL	ppm	MRDL=4	MRDLG=4	Range	1.9-2.7	NA	0.60-2.38	Measurement of the disinfectant used in the production of drinking water
				Average	2.3	NA	1.33	
Total Trihalomethanes	ppb	80	n/a	Range	31-60	NA	2.6-5.6	By-product of drinking water Chlorination
				Average	48	NA	4.1	
Haloacetic acids	ppb	60	NA	Range	4.1-14	NA	ND-2.0	By-product of drinking water Chlorination
				Average	8.1	NA	1	
SECONDARY STANDARDS-Aesthetic Standards								
Chloride	ppm	500	NA	Range	41-138	77-184	62-85	Runoff/leaching from natural deposits; seawater influence
				Average	97	117	73.5	
Color (ACU)	ACU	15	NA	Range	ND	20	ND-5	Naturally occurring organic materials
				Average	ND	20	3.75	
Iron	ppb	300	NA	Range	ND	ND	ND	Leaching from natural deposits; Industrial wastes
				Average	ND	ND	ND	
Manganese	ppb	50	NA	Range	ND	10	ND-0.034	Leaching from natural deposits
				Average	ND	10	0.018	
Odor Threshold	TON	3	NA	Range	ND	ND-8	ND	Naturally occurring organic materials
				Average	ND	1.3	ND	
Specific Conductance	Us/CM	1600	NA	Range	374-757	566-1063	1100-1200	Substances that form ions when in seawater influence water;
				Average	609	710	1175	
Sulfate	ppm	500	NA	Range	100	85	220-310	Runoff/leaching from natural deposits; industrial wastes
				Average	100	85	285	
Total Dissolved Solids	ppm	1000	NA	Range	194-442	300-648	740-850	Runoff/leaching from natural deposits; seawater influence
				Average	346	398	820	
Turbidity (Monthly)	NTU	5	NA	Range	0.03-0.13	0.06-7.1	0.14-0.35	Soil runoff
				Average	0.06	1.2	0.22	
UNREGULATED SUBSTANCES - Additional Parameters								
Alkalinity (Total)	ppm	NA	NA	Range	42-84	32-92	260-300	Runoff/leaching from natural deposits; seawater influence
				Average	66	69	277	
Calcium	ppm	NA	NA	Range	30-82	58-92	110	Runoff/leaching from natural deposits; seawater influence
				Average	53	69	110	
Hardness (Total Hardness)	ppm	NA	NA	Range	64-162	124-212	500-530	Leaching from natural deposits
				Average	115	146	517	
Heterotrophic Plate Count	CFU/ml	TT	NA	Range	0-2	NA	NA	Naturally present in the environment
				Average	0.4	NA	NA	
Magnesium	ppm	NA	NA	Range	17	18	53-64	Runoff/leaching from natural deposits; seawater influence
				Average	17	18	60	
pH	pH	NA	NA	Range	8.0-8.5	7.7-9.3	7.8-8.1	Runoff/leaching from natural deposits; seawater influence
				Average	8.3	8.7	7.95	
Potassium	ppm	NA	NA	Range	4	3.5	2.6-3.3	Runoff/leaching from natural deposits; seawater influence
				Average	4	3.5	2.97	
Sodium	ppm	NA	NA	Range	87	80	60-69	Runoff/leaching from natural deposits; seawater influence
				Average	87	80	65.75	
Total Organic Carbon (TOC)	ppm	TT	NA	Range	1.5-3.5	3.4-6.3	0.71-1.8	Various naturals and manmade sources
				Average	2.3	4.8	1.32	
LEAD AND COPPER RULE								
	No. of Samples Collected	90th %tile Detected		No. Sites exceeding AL	AL	MCLG	Typical Source of Contaminant	
Lead (PPB)	20	ND		0	15	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers, erosion of natural deposits	
Copper (PPM)	20	0.6		0	1.3	0.3	Internal corrosion of household water plumbing systems; erosion of natural deposits; leaching wood preservatives	
MONITORING VIOLATIONS								
None.								
What happened / What is Being Done:								
* 1 Positive results on Total Coliform Bacteria occurred on 9/7/16 from the Reservoir 2 site. Site was retested immediately on 9/8/16, producing another positive result on Total Coliform Bacteria. As a result, City staff isolated Reservoir 2, drained, disinfected and retested prior to returning to service. Cause of positive tests can be attributed to dust from adjacent agriculture activities. Grading Dust storm was observed the day prior to sampling, resulting in residue within Reservoir 2.								
Data represented on these tables covers the reporting period of January - December 2016. Consumer Confidence Report is printed on June 2017.								

Definitions:

ACU – Apparent Color Units.
AL – Regulatory Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
CFU/ml – Colony Forming Units per milliliter.
MCL – Maximum Contaminant Level: 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.
MCLG – Maximum Contaminant Level Goal: The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the US Environmental Protection Agency (USEPA).
MRDL – Maximum Residual Disinfectant Level
NA – Not applicable.
ND – Not detectable at testing limit.
NTU – Nephelometric Turbidity Unit: A measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.
pCi/L – picocuries per liter (a measure of radiation)
PDWS – Primary Drinking Water Standards: MCLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.
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 (CalEPA).
ppb – parts per billion or micrograms per liter (ug/L).
ppm – parts per million or milligrams per liter (mg/L).
SDWS – Secondary Drinking Water Standards: MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL levels.
TON – Threshold Odor Number
TT – Treatment Technique
Us/cm – umhos/cm – unit of specific conductance of water.

Substances that Could Be in Water 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, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

In order to ensure that tap water is safe to drink, USEPA and the CDPH prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. CDPH regulations also establish limits for contaminants in bottled water that must provide the same protection for public health. 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.

Contaminants that may be present in source water include:

- ***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.
- ***Microbial contaminants** such as viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- ***Organic chemical contaminants** including synthetic and volatile organic chemicals that are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- ***Pesticides and herbicides** which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- ***Radioactive contaminants** which can be naturally-occurring or be the result of oil and gas production and mining activities.

Community Participation:

The City Council holds regularly scheduled Council meetings on the second and fourth Thursdays of every month at 6:00 pm at the Council Chambers located at: 140 W. Highway 246.

Questions If you have any questions about this report or your water, please contact the City of Buellton Public Works Department, Rose Hess at: 805-686-0137

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien.

Important Health Information 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. More information about contaminants and potential health effects are available from the Safe Drinking Water Hotline: 800-426-4791 or <http://water.epa.gov/drink/hotline>.

Buellton Water Sources and Treatment The City of Buellton’s source of supply is from four groundwater wells (Buellton Uplands and Santa Ynez River Underflow) and is supplemented by the State Water Project (from Northern California via aqueduct). Groundwater is treated using media filtration as well as disinfection. The annual groundwater production of clean drinking water in 2016 for the City was 1044 acre feet, or 0.9 million gallons per day.

Source Water Assessments In accordance with the State’s Drinking Water Source Assessment Program, a Source Water Assessment for all four of the City’s wells was completed in March 2001 and updated in May 2011. These assessments include a delineation of the areas around a drinking water source through which contaminants might move and reach that drinking water supply; an inventory of possible contaminating activities (PCAs) that might lead the release of microbiological or chemical contaminants within the delineated area; and a determination of the PCAs to which the drinking water source is most vulnerable. Copies of these assessments may be viewed at: California Department of Public Health (CDPH) District 6 Field Operations: 1180 Eugenia Place, Suite 200, Carpinteria, CA 93013 or online at: <http://www.cdph.ca.gov/certific/drinkingwater/pages/dwsap.aspx>

CCR Going Paperless Historically, the City of Buellton has mailed its customers a printed copy of the CCR to comply with the Safe Drinking Water Act (SDWA). On February 21, 2013, the California Department of Public Health expanded its interpretation of the SDWA to allow for electronic delivery of the CCR. The electronic delivery will allow us to reduce consumption of paper and minimize potential printing costs. Starting in 2015, CCR will not be mailed, and will be available on our City webpage www.cityofbuellton.com/public-works.asp Hard copies will be located at City Hall and the Public Library. Hard copies will only be mailed upon request.