## **2019 Consumer Confidence Report**

Water System Name:	Arbuckle Public Utili	ity District	Report Date:	March 1, 2020
0	ter quality for many const oring for the period of Jani			al regulations. This report shows
Este informe contiene entienda bien.	información muy import	tante sobre su agua po	table. Tradú	zcalo ó hable con alguien que lo
Type of water source(s)	in use: Groundwater we	ells blended together we	lls#1, #2, #3a,	and #4.
Drinking Water Source	Assessment information:		ewed at DHS v	3 and 2008. The complete valley district office at 415 30)224-4800
Time and place of regul	arly scheduled board meet	ings for public participa		d Thursday of each month at m at 104 5 <sup>th</sup> St. Arbuckle Ca.

#### TERMS USED IN THIS REPORT

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.

For more information, contact: Fabian Gomez-Manager

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 (USEPA).

**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.

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.

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

Phone: (530)476-2054

Secondary Drinking Water Standards (SDWS): 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.

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

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

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

**ND**: not detectable at testing limit

**ppm**: parts per million or milligrams per liter (mg/L)

**ppb**: parts per billion or micrograms per liter (ug/L)

**ppt**: parts per trillion or nanograms per liter (ng/L)

ppq: parts per quadrillion or picogram per liter (pg/L)

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

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.

2010 SWS CCR Form Revised Jan 2011

#### Contaminants that may be present 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, that may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, that are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural application, and septic systems.
- Radioactive contaminants, that can be naturally-occurring or be the result of oil and gas production and mining activities.

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

Tables 1, 2, 3, 4, 5, 7, and 8 list all of the drinking water contaminants that were detected during the most recent sampling for the constituent. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The Department allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though representative of the water quality, are more than one year old.

TABLE 1. CAMBLING DEGLI TO CHOWING THE DETECTION OF COLLEGE A CTEDIA								
TABLE 1 – SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA								
Microbiological Contaminants (complete if bacteria detected)	Highest No. of Detections	No. of months in violation	MCL		MCLG	Typical Source of Bacteria		
Total Coliform Bacteria	(In a mo.)	0	More than 1 sample in a month with a detection		0	Naturally present in the environment		
Fecal Coliform or E. coli	(In the year)	0	A routine sample and a repeat sample detect total coliform and either sample also detects fecal coliform or <i>E. coli</i>		0	Human and animal fecal waste		
TABLE 2	- SAMPLIN	G RESUL	TS SHOWING	THE DETE	CTION OF	F LEAD AND COPPER		
Lead and Copper (complete if lead or copper detected in the last sample set)	No. of samples collected	90 <sup>th</sup> percentile level detected	No. sites exceeding AL	AL	PHG	Typical Source of Contaminant		
Lead (ppb) 2018	10	N.D	0	15	2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits		
Copper (ppb) 2018	10	.78	0	1.3	0.17	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives		
	TABLE 3 -	- SAMPLI	NG RESULTS	FOR SODIU	J <b>M AND H</b>	ARDNESS		
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant		
Sodium (ppm)well #1 Well#2	2014 2014	60 59		None "	None "	Salt present in the water and is generally naturally occurring		
Well#3a Well#4	2017 2013	65 62			٠٠			

Hardness (ppm)Well#1	2014	227	None	None	Sum of polyvalent cations present in the
Well#2	2014	223	66	"	water, generally magnesium and calcium,
Well#3a	2017	231	**	"	and are usually naturally occurring
Well#4	2013	225	"	"	

<sup>\*</sup>Any violation of an MCL or AL is asterisked. Additional information regarding the violation is provided later in this report. **Table 4 - Detection of contaminants with a primary drinking water standard** 

		,				vater standard
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCL G) [MRDL G]	Typical Source of Contaminant
Arsenic (ppb)Well#1	2019	3		10	None	Erosion of natural deposits, runoff from
Well#2	2019	2		"	"	orchards, glass and electronic waste.
Well#3a	2019	2		"	"	
Well#4	2019	3		66	"	
Chromium (ppb) Well#1	2014	12		50	50	Discharge from steel and pulp mills, chrome
Well#2	2014	8		"	"	plating and erosion.
Well#3a	2017	8		"	"	
Well#4	2013	8		"	"	
Fluoride (ppm)Well#1	2016	ND		2	1	Erosion of natural deposits, water additives
Well#2	2016	0.2		"	"	for teeth and fertilizer runoff.
Well#3a	2017	ND		"	"	
Well#4	2013	0.2		"	"	
Nitrate (ppm) Well#1	2019	2.3		10	10	Runoff and leaching from fertilizer, leaching
Well#2	2019	2.3		"	"	from septic tanks, and erosion from natural deposits.
Well#3a	2019	2.2		"	"	deposits.
Well#4	2019	2.2		"	"	
Barium (ppb) Well#1	2014	249		1000	None	Natural occurring
Well#2	2014	343		"	"	
Well#3a	2017	347		"	"	
Well#4	2013	341		46	"	
TDS. (ppm) Well #1	2014	380		1000	None	Natural occurring
Well#2	2014	370		"	"	
Well#3a	2017	400		"	"	
Well#4	2013	390		"	"	
Chloride (ppm) Well#1	2014	99		500	None	Natural occurring
Well#2	2014	104		"		
Well#3a	2017	104		"		
Well#4	2013	88		"		
Sulfate (ppm) Well#1	2014	12.7		500	None	Natural occurring
Well#2	2014	12		"		
Well#3a	2017	14.0		44		
Well#4	2013	15		"		

## [Type text]

Gross alpha (pci/l)Well#1	2016	.9	15	None	Erosion of natural deposits
Well#2	٤٤	1.5	"	**	
Well#3a	"	.5	"	66	
Well#4	••	1.1	"	"	
Radium 228(pci/l) Well#1	2011	0.00	2	None	Erosion of natural deposits
Well#2	"	"	44	"	
Well#3a	"	44	"	44	
Well#4	**	46	"	"	
Zinc (ppb) Well#4	2013	20	5000	None	Natural occurring
Well#2	2014	60			
Manganese (ppb) Well#4	2013	2.5	50	None	Natural occurring
& (11)					3
Selenium (ppb) Well#1	2014	3	50	None	Natural occurring
Well#2	2014	2			
Well#4	2013	2			
Iron (ppb) Well#2	2014	80	300	None	Natural occurring
Well#1	2014	50	"	66	
Well#3a	2014	60			
Lead (ppb)Well#3a	2017	ND	50	None	Natural occurring
Well#2	2014	0.8	"	66	
Well#4	2010	0.7			
Mercury (ppb)Well#1	2014	.02	2	None	Natural occurring
Vanadium (ppb)well#1	2014	7			
Well#2	2008	7	None	None	
Well#3a	2017	7	"	"	
Well#4	2010	7	"	"	
Chemical or Constituent	Sample	Level	MCL	PHG	Typical Source of Conteminant
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	MCL	PHG (MCL G)	Typical Source of Contaminant
(and reporting units)			MCL	(MCL	Typical Source of Contaminant
(and reporting units)  Lab turbidity (ntu)	Date	Detected		(MCL G)	
(and reporting units)  Lab turbidity (ntu)  Well#3a	<b>Date</b> 2017	Detected  0.1	MCL 5	(MCL	Typical Source of Contaminant  Cloudiness of water
(and reporting units)  Lab turbidity (ntu)  Well#3a  Well#4	2017 2010	0.1 0.2	5 "	(MCL G)	Cloudiness of water
(and reporting units)  Lab turbidity (ntu)  Well#3a  Well#4  Boron (ppb)Well#1	2017 2010 2014	0.1 0.2 700	5	(MCL G)	
(and reporting units)  Lab turbidity (ntu)  Well#3a  Well#4  Boron (ppb)Well#1  Well#2	2017 2010 2014 2014	0.1 0.2 700 700	5 " None	(MCL G) None "	Cloudiness of water
(and reporting units)  Lab turbidity (ntu)  Well#3a  Well#4  Boron (ppb)Well#1  Well#2  Well#3a	2017 2010 2014 2014 2017	0.1 0.2 700 700 700	5 " None	None " None " "	Cloudiness of water
(and reporting units)  Lab turbidity (ntu)  Well#3a  Well#4  Boron (ppb)Well#1  Well#2  Well#3a  Well#4	2017 2010 2014 2014 2017 2010	0.1 0.2 700 700 700 700	5 " None "	None " None " " " "	Cloudiness of water  Natural occurring
(and reporting units)  Lab turbidity (ntu)  Well#3a  Well#4  Boron (ppb)Well#1  Well#2  Well#3a  Well#4  Calcium(ppm)well#1	2017 2010 2014 2014 2017 2010 2014	0.1 0.2 700 700 700 700 35	5 " None " " None	None " None " None " None	Cloudiness of water
(and reporting units)  Lab turbidity (ntu) Well#3a Well#4 Boron (ppb)Well#1 Well#2 Well#3a Well#4 Calcium(ppm)well#1 Well#2	2017 2010 2014 2014 2017 2010 2014 2014	0.1 0.2 700 700 700 700 35 30	5 None None	None " None " None " None	Cloudiness of water  Natural occurring
(and reporting units)  Lab turbidity (ntu)  Well#3a  Well#4  Boron (ppb)Well#1  Well#2  Well#3a  Well#4  Calcium(ppm)well#1  Well#2  Well#3a	2017 2010 2014 2014 2017 2010 2014 2014 2017	0.1 0.2 700 700 700 700 35 30 30	5 " None " " None " "	None " None " None " " "	Cloudiness of water  Natural occurring
(and reporting units)  Lab turbidity (ntu) Well#3a Well#4 Boron (ppb)Well#1 Well#2 Well#3a Well#4 Calcium(ppm)well#1 Well#2 Well#3a Well#4 Well#4	2017 2010 2014 2014 2017 2010 2014 2014 2017 2013	0.1 0.2 700 700 700 700 35 30 30 31	5 None None	None " None " None " None	Cloudiness of water  Natural occurring  Alkaline group, Natural occurring
(and reporting units)  Lab turbidity (ntu) Well#3a Well#4 Boron (ppb)Well#1 Well#2 Well#3a Well#4 Calcium(ppm)well#1 Well#2 Well#3a Well#4 Magnesium (ppm)Well#1	2017 2010 2014 2014 2017 2010 2014 2014 2017 2013	0.1 0.2 700 700 700 700 35 30 31	5 " None " None " None " None "	None " None " None " None " None	Cloudiness of water  Natural occurring
(and reporting units)  Lab turbidity (ntu) Well#3a Well#4 Boron (ppb)Well#1 Well#2 Well#3a Well#4 Calcium(ppm)well#1 Well#2 Well#3a Well#4 Magnesium (ppm)Well#1 Well#2	2017 2010 2014 2014 2017 2010 2014 2014 2017 2013 2014	0.1 0.2 700 700 700 700 35 30 30 31	5 None None	None " None " None " " " None " "	Cloudiness of water  Natural occurring  Alkaline group, Natural occurring
(and reporting units)  Lab turbidity (ntu) Well#3a Well#4 Boron (ppb)Well#1 Well#2 Well#3a Well#4 Calcium(ppm)well#1 Well#2 Well#3a Well#4 Magnesium (ppm)Well#1	2017 2010 2014 2014 2017 2010 2014 2014 2017 2013	0.1 0.2 700 700 700 700 35 30 31	5 " None " None " None " None "	None " None " None " None " None	Cloudiness of water  Natural occurring  Alkaline group, Natural occurring

#### [Type text]

Potassium (ppm)well#1	2014	1				
Well#2	2014	1		None	None	Natural occurring
Well#3a	2017	1		110110	"	T WHITE STEELING
Well#4	2017	1				
Bicarbonate(ppm)Well#1	2014	200		None	None	
	-			None "	"	
Well#2	2014	240				An acid carbonate
Well#3a	2017	240			"	
Well#4	2019	250		"	"	
PH (units)Well#1	2017	7.9		None	None	Hydrogen-ion activity of the water
Well#2	2017	7.8		"	"	
Well#3a	2017	8.0		"	"	
Well#4	2017	7.8		66	66	
Chromium	2017	<u> </u>	1	mcl-10	None	Natural occurring.
Hexavalent(ppb)	2017	8.5		IIICI-10	None	Natural occurring.
Well#1	"	8.5				
Well#2	٠.	7.6				
Well#3a	"	8.6				
Well#4						
	<del>-</del>	<del>-</del>	<u> </u>	1	1	
Total Trihalomethanes(ppb)	2019	ND		mcl-80	None	Natural occurring.
Haloacetic Acids	2017	ND		mcl-60		

### Additional General Information on Drinking 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 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 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. 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).

Additional information: Our groundwater is treated with chlorine to prevent bacterial contamination.

# Summary Information for Violation of a MCL, MRDL, AL, TT, or Monitoring and Reporting Requirement

VIOLATION	VIOLATION OF A MCL, MRDL, AL, TT, OR MONITORING AND REPORTING REQUIREMENT							
Violations (none)	Explanation Duration Actions Taken to Correct the Violation Language							
None								

<sup>\*</sup>Any violation of an MCL, MRDL, or TT is asterisked. Additional information regarding the violation is provided later in this report.

#### [Type text]

VIOLATION OF GROUND WATER TT								
	VIOLA	HON OF GROUND WA	IERII					
TT Violation	TT Violation Explanation Duration Actions Taken to Correct the Violation Language							
None								

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. Arbuckle Public Utility District 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 for 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. [Optional: If you do so, you may wish to collect the flushed water and reuse it for another beneficial purpose, such as watering plants.] If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/lead.