Water System Name:Arbuckle Public Utility DistrictReport Date:June 28, 2023

We test the drinking water quality for many constituents as required by state and federal regulations. This report shows the results of our monitoring for the period of January 1 - December 31, 2022.

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

Type of water source(s) in use: Groundwater wells blended together: wells #1, #2, #3A, and #4.

Drinking Water Source Assessment information:	Source assessment was done in 2003 and 2008. The complete
	assessment may be viewed at State Water Board 364 Knollcrest Dr.
	Ste. 101 Redding CA. 96002 (530) 224-4800

Time and place of regularly scheduled board meetings for public participation: Second Thursday of each month at 6:00 pm at 104 5<sup>th</sup> St., Arbuckle, CA.

For more information, contact: Fabian Gomez-Manager, Anna Hass-Office Manager

### 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.

**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.

### 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, and 4 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 – 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.) <u>0</u>	0	More than 1 sample in a month with a detection		0	Naturally present in the environment	
Fecal Coliform or <i>E. coli</i>	(In the year) <u>0</u>	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 – SAMPLING RESULTS SHOWING THE DETECTION OF 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) 2021	10	ND	0	15	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits	
Copper (ppm) 2021	10	.056	0	1.3	0.2	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives	
TABLE 3 – SAMPLING RESULTS FOR SODIUM AND HARDNESS							
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 2017	60 59		None "	None "	Salt present in the water and is generally naturally occurring	
Well #4	2017 2022	61		"	"		

Hardness (ppm)Well #1	2014	227	١	None	None	Sum of polyvalent cations present in the
Well #2	2014	223		"	"	water, generally magnesium and calcium,
Well #3a	2017	231		"	"	and are usually naturally occurring
Well #4	2022	222		"	"	

\*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** 

Lensical or Constituent (and reporting units) (and reporting units)Sample becker <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Arsenic (ppb)Well #1       2020       3       10       None       Fosion of natural deposits, runoff from orchards, glass and electronic waste.         Well #3a       2020       ND       "       "       "       "       "       "       orchards, glass and electronic waste.         Well #3a       2022       3       " <t< th=""><th><b>Chemical or Constituent</b> (and reporting units)</th><th>Sample Date</th><th>Level Detected</th><th>Range of Detections</th><th>MCL</th><th>PHG (MCL G) [MRDL G]</th><th>Typical Source of Contaminant</th></t<>	<b>Chemical or Constituent</b> (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCL G) [MRDL G]	Typical Source of Contaminant
Well #2         2020         ND         "         "         orchards, glass and electronic waste.           Well #3a         2020         ND         "         "         "         "           Well #3a         2020         ND         "         "         "         "           Chromium (ppb) Well #1         2014         12         50         50         Discharge from steel and pulp mills, chrome plating and erosion.           Well #3a         2017         10         "         "         "         "           Fluoride (ppm)Well #1         2014         ND         2         1         Erosion of natural deposits, water additives for teeth and fertilizer runoff.           Well #3a         2017         ND         "         "         "           Well #4         0.22         2.1         "         "         "           Well #3a         2017         ND         "         "         "           Well #3a         2012         0.6         10         10         Runoff and leaching from fertilizer runoff.           Well #3a         2022         0.2         "         "         "         "           Well #3a         2022         2.14         343         "         " </td <td>Arsenic (ppb)Well #1</td> <td>2020</td> <td>3</td> <td></td> <td>10</td> <td>None</td> <td>Erosion of natural deposits, runoff from</td>	Arsenic (ppb)Well #1	2020	3		10	None	Erosion of natural deposits, runoff from
Weil #3a         2020         ND         "         "         "           Weil #4         2022         3         "         "         "         "           Chromium (ppb) Well #1         2014         8         "         "         "         "           Weil #3a         2017         10         "         "         "         "         "           Huoride (ppm)Well #1         2014         8         "         "         "         "         "           Fluoride (ppm)Well #1         2014         ND         "         "         "         "         "           Weil #3a         2017         ND         "         "         "         "         "           Weil #3a         2017         ND         "         "         "         "         "           Weil #3a         2022         2.6         "         10         10         more spic tanks, and erosion from natural deposits.           Weil #3a         2022         5.4         "         "         "         "         "           Weil #3a         2022         2.1         "         1000         None         Natural occurring           Weil #3a	Well #2	2020	ND		"	"	orchards, glass and electronic waste.
Well #4         2022         3         "         "         "           Chromium (ppb) Well #1         2014         12         50         50         50         plating and erosion.           Well #3a         2017         10         "         "         "         "           Well #4         2022         <10	Well #3a	2020	ND		"	"	
Image: Constraint of ppb) Well #1         Constraint of ppb Well #1	Well #4	2022	3		"	"	
Chromium (ppb) Well #1         2014         12         50         50         pischarge from steel and pulp mills, chrome plating and erosion.           Well #3a         2017         10         ""         ""         ""           Fluoride (ppm)Well #1         2014         ND         ""         ""         ""           Fluoride (ppm)Well #1         2014         ND         2         1         Erosion of natural deposits, water additives for teeth and fertilizer runoff.           Well #3a         2017         ND         ""         ""         ""         Erosion of natural deposits, water additives for teeth and fertilizer runoff.           Well #3a         2012         2.6         ""         ""         ""         Erosion of natural deposits, water additives for teeth and fertilizer runoff.           Nitrate (ppm) Well #1         2022         2.6         ""         ""         ""           Well #3a         2022         5.4         ""         ""         ""           Well #4         2014         343         ""         ""         Runoff and leaching from fertilizer, leaching from septic tanks, and erosion from natural deposits.           Well #3a         2012         3.41         ""         ""         ""           Well #4         2014         343         "" </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Well #2         2014         8         "         "         "         plating and erosion.           Well #3a         2017         10         "         "         "         "           Well #3a         2017         10         "         "         "         "           Fluoride (ppm)Well #1         2014         ND         2         1         Forsion of natural deposits, water additives for tech and fertilizer runoff.           Well #3a         2017         ND         "         "         "         "           Nitrate (ppm)Well #1         2022         0.2         "         "         "         "           Well #3a         2012         5.4         "         "         "         "         "           Well #3a         2022         5.4         "         "         "         "         "           Barium (pb) Well#1         2014         249         "         None         Natural occurring         "           Well#3a         2017         347         "         "         "         "           Well#4         2022         343         "         "         "         "           TDS. (ppm) Well#1         2014         380<	Chromium (ppb) Well #1	2014	12		50	50	Discharge from steel and pulp mills, chrome
Well #3a         2017         10         "         "           Well #4         2022         <10	Well #2	2014	8		"	"	plating and erosion.
Well #4         2022 $<10$ "         "         "           Fluoride (ppm)Well #1         2014         ND         2         1         Froit on of natural deposits, water additives for tech and fertilizer runoff.           Well #2         2017         ND         "         "         "           Well #3a         2022         0.2         "         "         "           Nitrate (ppm) Well #1         2022         5.4         "         "         "           Well #3a         2022         5.4         "         "         "         "           Well #3a         2022         3.9         "         "         "         "           Well #4         2022         2.1         "         "         "         "           Barium (pb) Well#1         2014         343         "         "         "         "           Well#3a         2017         347         "         "         "         "           Well#4         2022         343         "         "         "         "           Well#4         2014         370         "         "         "         "           Well#4         2017 <td< td=""><td>Well #3a</td><td>2017</td><td>10</td><td></td><td>"</td><td>"</td><td></td></td<>	Well #3a	2017	10		"	"	
Fluoride (ppm)Well #1         2014         ND         2         1         Frosion of natural deposits, water additives for teeth and fertilizer runoff.           Well #2         2014         0.2         "         "         "         "         Forsion of natural deposits, water additives for teeth and fertilizer runoff.           Well #3a         2017         ND         "         "         "         "         Forsion of natural deposits, water additives for teeth and fertilizer runoff.           Well #4         2022         0.2         "         "         "         "         Form septic tanks, and erosion from natural deposits, water additives for teeth and fertilizer runoff.           Well #4         2022         5.4         "         "         "         Runoff and leaching from fertilizer, leaching from septic tanks, and erosion from natural deposits.           Well #3a         2022         2.1         "         "         "         "           Well #4         2014         343         "         "         "         "           Well#3a         2017         347         "         "         "         "           Well#4         2012         343         "         "         "         "           Well#4         2014         380         1000	Well #4	2022	< 10		"	"	
Well #2         2014         0.2           for teeth and fertilizer runoff.           Well #3a         2017         ND              Well #4         2022         0.2              Nitrate (ppm) Well #1         2022         2.6          10         10         mooff and leaching from fertilizer, leaching from septic tanks, and erosion from natural deposits.           Well #3a         2022         3.9               Well #4         2022         2.1               Well #4         2022         2.1               Barium (ppb) Well#1         2014         249               Well#2         2014         343                Well#3         2017         347                Well#4         2022         343	Fluoride (ppm)Well #1	2014	ND		2	1	Erosion of natural deposits, water additives
Well #3a2017ND"""Well #420220.2""""Nitrate (ppm) Well #120222.61010Runoff and leaching from fertilizer, leaching from septic tanks, and erosion from natural deposits.Well #220223.9"""Well #420222.1"""Barium (ppb) Well#120142491000NoneNatural occurringWell#22014343"""Well#3a2017347"""Well#42022343"""Well#3a2017347"""Well#42022343"""Well#42012343"""Well#3a2017400"""Well#42022400"""Well#3a2017104"""Well#42022103"""Well#42017104"""Well#42017104"""Well#42012103"NoneNatural occurringSulfate (ppm) Well#1201412.7500NoneNatural occurringWell#3a201714"""Well#3a201714.7"""Well#3a201714.7""	Well #2	2014	0.2		"	"	for teeth and fertilizer runoff.
Well #420220.2 $\cdot$ $\cdot$ $\cdot$ Nitrate (ppm) Well #120222.61010Runoff and leaching from fertilizer, leaching from septic tanks, and erosion from natural deposits.Well #3a20223.9 $\cdot$ $\cdot$ $\cdot$ Well #420222.1 $\cdot$ $\cdot$ $\cdot$ Barium (ppb) Well#120142491000NoneNatural occurringWell#22014343 $\cdot$ $\cdot$ $\cdot$ Well#3a2017347 $\cdot$ $\cdot$ $\cdot$ Well#42022343 $\cdot$ $\cdot$ $\cdot$ Well#42022343 $\cdot$ $\cdot$ $\cdot$ Well#42022400 $\cdot$ $\cdot$ $\cdot$ TDS. (ppm) Well #12014380 $\cdot$ $1000$ NoneWell#22014370 $\cdot$ $\cdot$ $\cdot$ Well#3a2017400 $\cdot$ $\cdot$ $\cdot$ Well#3a2017104 $\cdot$ $\cdot$ $\cdot$ Well#22014104 $\cdot$ $\cdot$ $\cdot$ Well#3a2017104 $\cdot$ $\cdot$ $\cdot$ Sulfate (ppm) Well#1201412.7 $500$ NoneNatural occurringSulfate (ppm) Well#1201412.7 $\cdot$ $\cdot$ $\cdot$ Well#3a201714 $\cdot$ $\cdot$ $\cdot$ $\cdot$ Well#3a201714 $\cdot$ $\cdot$ $\cdot$ $\cdot$ Well#42022103 $\cdot$ $\cdot$ $\cdot$ $\cdot$ <td>Well #3a</td> <td>2017</td> <td>ND</td> <td></td> <td>"</td> <td>"</td> <td></td>	Well #3a	2017	ND		"	"	
Nitrate (ppn) Well #1         2022         2.6         10         10         Runoff and leaching from fertilizer, leaching from septic tanks, and erosion from natural deposits.           Well #3a         2022         3.9         "         "         "           Well #3a         2022         2.1         "         "         "         "           Barium (ppb) Well#1         2014         249         1000         None         Natural occurring           Well#2         2014         343         "         "         "         "           Well#3a         2017         347         "         "         "         "           Well#4         2022         343         "         "         "         "           TDS. (ppm) Well#1         2014         380         "         "         "         "           Well#3a         2017         400         "         "         "         "         "           Well#3a         2017         400         "         "         "         "         "           Well#4         2022         400         "         "         "         "         "         "         "           Well#4         2017	Well #4	2022	0.2		"	"	
Well #2         2022         5.4 $"$ $"$ from septic tanks, and erosion from natural deposits.           Well #3a         2022         3.9 $"$ $"$ "         from septic tanks, and erosion from natural deposits.           Barium (ppb) Well#1         2014         249         1000         None         Natural occurring           Barium (ppb) Well#2         2014         343 $"$ "         "           Well#3a         2017         347         "         "         "           Well#4         2022         343         "         "         "           TDS. (ppm) Well #1         2014         380         1000         None         Natural occurring           Well#3a         2017         400         "         "         "           Well#4         2022         400         "         "         Natural occurring           Well#4         2022         400         "         "         "           Well#4         2022         400         "         "         "           Well#4         2014         104         "         "         "           Well#4         2017         104         " </td <td>Nitrate (ppm) Well #1</td> <td>2022</td> <td>2.6</td> <td></td> <td>10</td> <td>10</td> <td>Runoff and leaching from fertilizer, leaching</td>	Nitrate (ppm) Well #1	2022	2.6		10	10	Runoff and leaching from fertilizer, leaching
Well #3a Well #420223.9"""deposits.Barium (ppb) Well#120142491000NoneNatural occurringWell#22014343"""Well#3a2017347"""Well#42022343"""Well#420223431000NoneNatural occurringWell#420143801000NoneNatural occurringWell#22014370"""Well#42022400"""Well#42022400"""Chloride (ppm) Well#1201499500NoneNatural occurringWell#22017104"""Well#3a2017104"""Well#42022103"StofoNoneSulfate (ppm) Well#1201412.7500NoneWell#3a201714""Well#4202214.7""	Well #2	2022	5.4		"	"	from septic tanks, and erosion from natural
Well #4         2022 $2.1$ "         "           Barium (ppb) Well#1         2014         249         None         Natural occurring           Well#2         2014         343         "         "         "           Well#3a         2017         347         "         "         "           Well#4         2022         343         "         "         "           TDS. (ppm) Well#1         2014         380         None         Natural occurring           Well#2         2014         370         "         "         "           Well#3a         2017         400         "         "         "           Well#3a         2017         400         "         "         "           Well#4         2022         400         "         "         "           Chloride (ppm) Well#1         2014         104         "         "         "           Well#2         2014         104         "         "         "           Well#3a         2017         104         "         "         "           Well#4         2022         103         "         Mone         Natural occurring     <	Well #3a	2022	3.9		"	"	deposits.
Barium (ppb) Well#1         2014         249         1000         None         Natural occurring           Well#2         2014         343         "         "         "         "           Well#3a         2017         347         "         "         "         "           Well#4         2022         343         "         "         "         "         "           TDS. (ppm) Well #1         2014         380         1000         None         Natural occurring           Well#2         2014         370         "         "         "         "           Well#3a         2017         400         "         "         "         "           Well#4         2022         400         "         "         "         "           Well#4         2022         400         "         "         "         "           Chloride (ppm) Well#1         2014         104         "         "         "         "           Well#2         2014         104         "         "         "         "         "           Well#4         2022         103         "         "         "          "     <	Well #4	2022	2.1		"	"	
Well#2 Well#3a2014343""Well#3a2017347""Well#42022343""TDS. (ppm) Well #120143801000NoneWell#22014370""Well#3a2017400""Well#42022400""Chloride (ppm) Well#1201499500NoneWell#22014104""Well#3a2017104""Well#42022103"NoneSulfate (ppm) Well#1201412.7500NoneSulfate (ppm) Well#1201412.7500NoneSulfate (ppm) Well#1201412.7500NoneWell#2201412.7"Hatrial occurringWell#3a201714""Well#4202214.7""	Barium (ppb) Well#1	2014	249		1000	None	Natural occurring
Well#3a2017347""Well#42022343"""TDS. (ppm) Well #120143801000NoneNatural occurringWell#22014370"""Well#3a2017400"""Well#42022400"""Chloride (ppm) Well#1201499500NoneNatural occurringWell#22014104"""Well#3a2017104"""Well#42022103"Sulf at (ppm) Well#1201412.7Sulf at (ppm) Well#1Natural occurringSulfate (ppm) Well#1201412.7500NoneNatural occurringSulfate (ppm) Well#1201412.7500NoneNatural occurringWell#2201412.7500NoneNatural occurringWell#3a201714"""Well#4202214.7"""	Well#2	2014	343		"	"	C C
Well#42022343""TDS. (ppm) Well #120143801000NoneWell#22014370""Well#3a2017400""Well#42022400""Chloride (ppm) Well#1201499500NoneWell#22014104""Well#3a2017104""Well#42022103"NoneSulfate (ppm) Well#1201412.7500NoneSulfate (ppm) Well#1201412.7500NoneWell#2201412.7"Sulfate (ppm) Well#1Well#3a201714"Well#4202214.7"	Well#3a	2017	347		"	"	
TDS. (ppm) Well #1         2014         380         1000         None         Natural occurring           Well#2         2014         370         "         "         "         "           Well#3a         2017         400         "         "         "         "           Well#4         2022         400         "         "         "         "           Chloride (ppm) Well#1         2014         99         500         None         Natural occurring           Well#2         2014         104         "         "         "         "           Well#3a         2017         104         "         "         "         "           Well#3a         2017         104         "         "         "         "           Sulfate (ppm) Well#1         2014         12.7         500         None         Natural occurring           Well#2         2014         12.7         500         None         Natural occurring           Well#3a         2017         14         "         "         "         "           Well#4         2022         14.7         "         "         "         "	Well#4	2022	343		"	"	
Well#2         2014         370         "         "         "           Well#3a         2017         400         "         "         "           Well#4         2022         400         "         "         "           Chloride (ppm) Well#1         2014         99         500         None         Natural occurring           Well#2         2014         104         "         "         "         "           Well#3a         2017         104         "         "         "         "           Well#4         2022         103         "         "         "         "           Sulfate (ppm) Well#1         2014         12.7         500         None         Natural occurring           Well#2         2014         12.7         500         None         Natural occurring           Well#2         2014         12.7         500         None         Natural occurring           Well#3a         2017         14         "         "         "           Well#4         2022         14.7         "         "         "	TDS. (ppm) Well #1	2014	380		1000	None	Natural occurring
Well#3a         2017         400         "         "           Well#3a         2017         400         "         "         "           Well#4         2022         400         "         "         "           Chloride (ppm) Well#1         2014         99         500         None         Natural occurring           Well#2         2014         104         "         "         "         "           Well#3a         2017         104         "         "         "         "           Sulfate (ppm) Well#1         2014         12.7         500         None         Natural occurring           Well#2         2014         12.7         500         None         Natural occurring           Well#2         2014         12.7         "         "         "           Well#3a         2017         14         "         "         "           Well#3a         2017         14         "         "         "           Well#4         2022         14.7         "         "         "	Well#2	2014	370		"	"	
Well#4         2022         400         "         "           Chloride (ppm) Well#1         2014         99         500         None         Natural occurring           Well#2         2014         104         "         "         "         "           Well#3a         2017         104         "         "         "         "           Sulfate (ppm) Well#1         2014         12.7         500         None         Natural occurring           Well#2         2014         12.7         500         None         Natural occurring           Well#3a         2017         14         "         "         "           Well#4         2022         14.7         "         "         "	Well#3a	2017	400		"	"	
Chloride (ppm) Well#1         2014         99         500         None         Natural occurring           Well#2         2014         104         "         "         "         "           Well#3a         2017         104         "         "         "         "           Well#4         2022         103         "         "         "         "           Sulfate (ppm) Well#1         2014         12.7         500         None         Natural occurring           Well#2         2014         12.7         500         None         Natural occurring           Well#3a         2017         14         "         "         "         "           Well#4         2022         14.7         "         "         "         "	Well#4	2022	400		"	"	
Well#2       2014       104       "       "         Well#3a       2017       104       "       "         Well#4       2022       103       "       None       Natural occurring         Sulfate (ppm) Well#1       2014       12.7       500       None       Natural occurring         Well#2       2014       12.7       500       None       Natural occurring         Well#3a       2017       14       "       "       "         Well#4       2022       14.7       "       "       "	Chloride (ppm) Well#1	2014	99		500	None	Natural occurring
Well#3a     2017     104     "       Well#4     2022     103     "       Sulfate (ppm) Well#1     2014     12.7     500     None       Well#2a     2014     12     "     "       Well#3a     2017     14     "     "       Well#4     2022     14.7     "	Well#?	2014	104		"	rione	
Well#4     2022     103     "     None       Sulfate (ppm) Well#1     2014     12.7     500     None       Well#2     2014     12     "     Home       Well#3a     2017     14     "     Home       Well#4     2022     14.7     "     Home	Well#3a	2014	104		"		
Sulfate (ppm) Well#1201412.7500NoneNatural occurringWell#2201412""""Well#3a201714""""Well#4202214.7""""	Well#4	2022	101		"		
Well#2     2014     12     "       Well#3a     2017     14     "       Well#4     2022     14.7     "	Sulfate (ppm) Well#1	2014	12.7		500	None	Natural occurring
Well#3a     2017     14     "       Well#4     2022     14.7     "	Well#2	2014	12		"	1.010	
Well#4 2022 14.7 "	Well#3a	2017	14				
	Well#4	2022	14.7		"		

Gross alpha (pci/l)Well#1	2016	0.92		15	None	Erosion of natural deposits
Well#2	"	1.5		"	"	
Well#3a	"	0.56		"	"	
Well#4	"	1.1		"	**	
Radium 228(pci/l) Well #1	2020	0.199		2	None	Erosion of natural deposits
Well #2	"	0.650		"	"	
Well #3a	"	0.342		"	"	
Well #4	**	0.215		"	**	
Zinc (ppb) Well #4	2022	ND		5000	None	Natural occurring
Well #2	2014	60				
Manganese (ppb) Well#4	2013	2.5		50	None	Natural occurring
Selenium (ppb) Well#1	2014	3		50	None	Natural occurring
Well#2	2014	2				
Well#4	2022	ND				
Iron (ppb) Well #2	2014	80		300	None	Natural occurring
Well #1	2014	50		"	**	
Well #3a	2017	ND				
Well # 4	2022	ND				
Lead (ppb)Well#3a	2014	ND		50	None	Natural occurring
Well #2	2014	0.8		"	••	
Well #3	2017	ND				
Well #4	2022	ND				
Mercury (ppb)Well #1	2014	.02		2	None	Natural occurring
Vanadium (ppb)well #1	2014	7				
Well #2	2014	7		None	None	
Well #3a	2017	7		"	**	
Well #4	2022	7		"	"	
Chemical or Constituent (and reporting units)	Sample Date	Level Detected		MCL	PHG (MCL G)	Typical Source of Contaminant
Lab turbidity (ntu) Well #1	2014	< 0.2				
Well #2	2014	< 0.2		5	None	Cloudiness of water
Well#3a	2017	0.1		"	"	
Well#4	2022	0.1				
Boron (ppb)Well#1	2014	700		None	None	Natural occurring
Well#2	2014	700		"	"	
Well#3a	2017	700		"	"	
Well#4	2022	< 100		"	"	
Calcium(ppm)well #1	2014	35		None	None	Alkaline group, Natural occurring
Well #2	2014	30		"	"	
Well #3a	2017	30		"	"	
Well #4	2022	28	<u> </u>	"	"	

Magnesium (ppm)Well#1	2014	34	None	None	Natural occurring
Well#2	2014	36	"	"	
Well#3a	2017	38	"	"	
Well#4	2022	37	"	"	
Potassium (ppm)well#1	2014	1			
Well#2	2014	1	None	None	Natural occurring
Well#3a	2017	1		"	
Well#4	2022	1			
Bicarbonate(ppm)Well#1	2014	200	None	None	
Well#2	2014	240	"	"	An acid carbonate
Well#3a	2017	240	"	"	
Well#4	2022	240	"	"	
PH (units)Well#1	2021	6.8	None	None	Hydrogen-ion activity of the water
Well#2	2021	6.8	"	"	
Well#3a	2022	7.10	"	"	
Well#4	2021	7.5	"	"	
	1			1	
Chromium			mcl-10	None	Natural occurring.
Hexavalent(ppb)	2017	05			
Well#2		8.5			
Well#3a	"	7.6			
Well#4	"	8.6			

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

ND

ND

## **Additional General Information on Drinking Water**

mcl-80

mcl-60

None

**Disinfection biproduct** 

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).

Lead-Specific Language: 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.

Total Trihalomethanes(ppb)

**Haloacetic Acids** 

2022

2022

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

VIOLATION OF A MCL, MRDL, AL, TT, OR MONITORING AND REPORTING REQUIREMENT								
Violations (none)	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language				
2*	Notice of Violation and Citation for Failure to sample Well 3A	February, July, August, and October of 2022	Resume monthly sampling of Well 3A until approved to return to quarterly monitoring					

\*We are required to collect raw (unchlorinated) source water samples from our wells on a quarterly basis. If a source water sample produces a total coliform-positive result, we are required by regulation to sample that source monthly for a minimum of three consecutive months. Before we are allowed to resume quarterly monitoring, we must attain bacteriological samples for three consecutive months without any total coliform-positive results and submit a request to the State Water Board – Division of Drinking Water (Division), for approval. In January and March of 2022, raw (unchlorinated water) samples collected from Well 3A tested total coliform-positive. We failed to collect monthly samples from Well 3A in the months of February, July, August, and October of 2022, resulting in the two violations mentioned in the table above.

VIOLATION OF GROUND WATER TT								
TT Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language				
None								