### **2018 Consumer Confidence Report**

Water System Name: ARTOIS COMMUNITY S.D.

Report Date:

June 2019

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, 2018.

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

**Type of water source(s) in use:** According to SWRCB records, Well 01 is Groundwater. This Assessment was done using the Default Groundwater System Method. This info is not available for North Well, as it does not have a completed assessment on file. Please see the Drinking Water Source Assessment Information section located at the end of this report for more details.

Your water comes from 2 source(s): North Well and Well 01

**Opportunities for public participation in decisions that affect drinking water quality:** Regularly-scheduled water board or city/county council meetings are held at Artois Fire Station on the first Wednesday of every month at 6:00 pm.

For more information about this report, or any questions relating to your drinking water, please call (530) 934 - 5654 and ask for Jack Cavier Jr..

TERMS USED IN THIS REPORT							
<b>Maximum Contaminant Level (MCL):</b> The highest level of contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.	<ul> <li>Secondary Drinking Water Standards (SDWS): MCLs for the contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL levels.</li> <li>Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.</li> </ul>						
<b>Maximum Contaminant Level Goal (MCLG):</b> 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).	<b>Regulatory Action Level (AL):</b> The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.						
<b>Public Health Goal (PHG):</b> 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	<b>Level 1 Assessment:</b> A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.						
Environmental Protection Agency. <b>Maximum Residual Disinfectant Level (MRDL):</b> 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	<b>Level 2 Assessment:</b> A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.						
contaminants.	ND: not detectable at testing limit						
Maximum Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant	<b>mg/L:</b> milligrams per liter or parts per million (ppm)						
below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of	<b>ug/L:</b> micrograms per liter or parts per billion (ppb)						
disinfectants to control microbial contaminants.	<b>pCi/L:</b> picocuries per liter (a measure of radiation)						
<b>Primary Drinking Water Standards (PDWS):</b> MCLs and MRDLs for the contaminants that affect health along	NTU: Nephelometric Turbidity Units						
with their monitoring and reporting requirements, and water treatment requirements.	umhos/cm: micro mhos per centimeter						

**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 if 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 Water Resource Control Board (State Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Board regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

Tables 1, 2, 3, 4, 5, 6 and 7 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 State Board 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.

Any violation of MCL, AL or MRDL is highlighted. Additional information regarding the violation is provided later in this report.

Table 1 - SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA									
Microbiological Contaminants (complete if bacteria detected)Highest No. of DetectionsNo. of Months in ViolationMCLMCLGTypical Sources of Contaminant									
Total Coliform Bacteria	2/mo. (2018)	1	no more than 1 positive monthly sample		Naturally present in the environment.				

Table 2 - SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER								
Lead and Copper (complete if lead or copper detected in last sample set)	Sample Date	90th percentile level detected	No. Sites Exceeding AL	AL	PHG	Typical Sources of Contaminant		
Copper (mg/L)	5 (2016)	0.06	0	1.3	.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives		

Table 3 - SAMPLING RESULTS FOR SODIUM AND HARDNESS								
<b>Chemical or</b> <b>Constituent</b> (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Sources of Contaminant		
Sodium (mg/L)	(2014 - 2018)	23	21 - 24	none	none	Salt present in the water and is generally naturally occurring		
Hardness (mg/L)	(2014 - 2018)	147	145 - 149	none	none	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring		

Table 4 - DETECTION OF CONTAMINANTS WITH A <u>PRIMARY</u> DRINKING WATER STANDARD									
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Sources of Contaminant			
Arsenic (ug/L)	(2018)	3	ND - 5	10	0.004	Erosion of natural deposits; runoff from orchards, glass and electronics production wastes			
Barium (mg/L)	(2014 - 2018)	ND	ND - 0.17	1	2	Discharge from oil drilling wastes and from metal refineries; erosion of natural deposits			
Fluoride (mg/L)	(2014 - 2018)	0.2	n/a	2	1	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories.			
Hexavalent Chromium (ug/L)	(2014 - 2018)	4.9	2.1 - 7.6		0.02	Discharge from electroplating factories, leather tanneries, wood preservation, chemical synthesis, refractory production, and textile manufacturing facilities; erosion of natural deposits.			
Nitrate as N (mg/L)	(2018)	3.4	2.9 - 3.9	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits			
Nitrate + Nitrite as N (mg/L)	(2014 - 2018)	3.1	2.9 - 3.3	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits			
Gross Alpha (pCi/L)	(2010)	ND	ND - 1.46	15	(0)	Erosion of natural deposits.			

Table 5 - DETECTION OF CONTAMINANTS WITH A <u>SECONDARY</u> DRINKING WATER STANDARD									
<b>Chemical or</b> <b>Constituent</b> (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Sources of Contaminant			
Chloride (mg/L)	(2014 - 2018)	17	16 - 17	500	n/a	Runoff/leaching from natural deposits; seawater influence			
Specific Conductance (umhos/cm)	(2014 - 2018)	375	374 - 376	1600	n/a	Substances that form ions when in water; seawater influence			
Sulfate (mg/L)	(2014 - 2018)	10.8	10.5 - 11	500	n/a	Runoff/leaching from natural deposits; industrial wastes			
Total Dissolved Solids (mg/L)	(2014 - 2018)	235	200 - 270	1000	n/a	Runoff/leaching from natural deposits			
Turbidity (NTU)	(2017 - 2018)	0.5	0.1 - 0.9	5	n/a	Soil runoff			

Table 6 - DETECTION OF UNREGULATED CONTAMINANTS									
Chemical or Constituent (and reporting units)Sample DateLevel DetectedRange of DetectionsNotification LevelTypical Sources of Contaminant									
Vanadium (mg/L)	(2014 - 2018)	0.01	0.006 - 0.013	0.05	Vanadium exposures resulted in developmental and reproductive effects in rats.				

Table 7 - ADDITIONAL DETECTIONS									
<b>Chemical or Constituent</b> (and reporting units)	Sample Date	Level Detected	Range of Detections	Notification Level	Typical Sources of Contaminant				
Calcium (mg/L)	(2014 - 2018)	23	20 - 25	n/a	n/a				
Magnesium (mg/L)	(2014 - 2018)	22	21 - 23	n/a	n/a				
pH (units)	(2014 - 2018)	7.3	7.1 - 7.4	n/a	n/a				
Alkalinity (mg/L)	(2014 - 2018)	135	120 - 150	n/a	n/a				
Aggressiveness Index	(2014 - 2018)	11.2	11.0 - 11.3	n/a	n/a				
Langelier Index	(2014 - 2018)	-0.7	-0.80.6	n/a	n/a				

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

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts if 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 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 for Community Water Systems: 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 the service lines and home plumbing. *Artois Community Services 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. 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 <a href="http://www.epa.gov/lead">http://www.epa.gov/lead</a>.

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

About our Total Coliform Bacteria: Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliforms indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments.

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### **Drinking Water Assessment Information**

#### **Assessment Information**

A source water assessment was conducted for the WELL 01 of the ARTOIS COMMUNITY S.D. water system in December, 2001. A source water assessment was conducted for NORTH WELL of the ARTOIS Community S.D. water system in May 2006.

### **Discussion of Vulnerability**

Well 01 - is considered most vulnerable to the following activities not associated with any detected contaminants at the time of the source assessment: Historic gas stations Septic systems - high density [>1/acre]

The North Well is considered most vulnerable to the following activities not associated with any detected contaminants at the time of the source assessment: Septic systems – high density Agricultural/Irrigation well A historic gas station

#### **Acquiring Information**

A copy of each source assessment may be viewed at: SWRCB - Division of Drinking Water District 21 Valley 364 Knollcrest Drive Suite 101 Redding, CA 96002 530-224-4800 (phone) 530-224-4844(fax)

You may request a summary of the assessment be sent to you by contacting: Jack F. Cavier Jr. Chairman, Artois Community Service District (530) 934-4025