Consumer Confidence Report

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. The City of Avenal 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 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 (1-800-426-4791) or at http://www.epa.gov/lead.

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									
Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language					
DBP-TTHM	Poor raw water quality has made it difficult for the current treatment technology at the water treatment plant to meet the state standard.	Six months	In progress, the City of Avenal has contracted with Provist and Prichard Engineering to develop a plan to solve the TTHM issues.	Some people who drink water containing TTHMs in excess of the MCL over many years may experience liver, kidney, or central nervous system problems, and may have an increased risk of getting cancer					

For Systems Providing Surface Water as a Source of Drinking Water

TABLE 8 - SAMPLING RESULTS SHOWING TREATMENT OF SURFACE WATER SOURCES						
Treatment Technique ^(a) (Type of approved filtration technology used)	Conventional Filtration					
Turbidity Performance Standards (b) (that must be met through the water treatment process)	Turbidity of the filtered water must: 1 – Be less than or equal to 0.3 NTU in 95% of measurements in a month. 2 – Not exceed 0.3 NTU for more than eight consecutive hours.					
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.	3 – Not exceed 1.0 NTU at any time. 99%					
Highest single turbidity measurement during the year	0.37					
Number of violations of any surface water treatment requirements	0					

- (a) A required process intended to reduce the level of a contaminant in drinking water.
- (b) Turbidity (measured in NTU) is a measurement of the cloudiness of water and is a good indicator of water quality and filtration performance. Turbidity results which meet performance standards are considered to be in compliance with filtration requirements.

Summary Information for Violation of a Surface Water TT

VIOLATION OF A SURFACE WATER TT								
TT Violation Explanation Duration Actions Taken to Correct the Violation Language								

Summary Information for Operating Under a Variance or Exemption

Summary Information for Federal Revised Total Coliform Rule

Level 1 and Level 2 Assessment Requirements

Level 1 or Level 2 Assessment Requirement not Due to an E. coli MCL Violation

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

During the past year we were required to conduct 0 Level 1 assessments. 0 Level 1 assessments were completed. In addition, we were required to take 0 corrective actions and we completed 0 of these actions.

During the past year 0 Level 2 assessments were required to be completed for our water system. 0 Level 2 assessments were completed. In addition, we were required to take 0 corrective actions and we completed 0 of these actions.



Water System Name: City of Avenal

For more information, contact:

CITY OF AVENAL

"OASIS IN THE SUN GATEWAY TO THE COAST"

2021 Consumer Confidence Report

•	•	1	*
			d federal regulations. This report shows ay include earlier monitoring data.
Este informe contien (559) 386-5766 para		nte sobre su agua para bebe	r. Favor de comunicarse City of Avena
Type of water source(s)) in use: Surface Water		
Name & general location	on of source(s): The City	of Avenal drinking water is pu	lled out of the California aqueduct.
It is located on the Ave	nal Cutoff Road and the Califo	ornia aqueduct	
Drinking Water Source	Assessment information:	A source water assessment w	as conducted in April of 2003.
	ed most vulnerable to the follow tional activities, influent drains	•	contaminants detected in the water supply
Time and place of regu	larly scheduled board meeting	s for public participation:	City council meetings are held at the
Avenal Theater on the	2 nd and 4 th Thursday of each m	onth at 5:15 pm	

TERMS USED IN THIS REPORT

Ronald Brumley, Utilities Supervisor

Maximum Contaminant Level (MCL): The highest level economically and technologically feasible. Secondary MCL levels. MCLs are set to protect the odor, taste, and appearance of Treatment Technique (TT): A required process intended to 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 requirements that a water system must follow. U.S. Environmental Protection Agency (U.S. EPA).

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.

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.

Secondary Drinking Water Standards (SDWS): MCLs for of a contaminant that is allowed in drinking water. Primary contaminants that affect taste, odor, or appearance of the drinking MCLs are set as close to the PHGs (or MCLGs) as is water. Contaminants with SDWSs do not affect the health at the

Phone: (559) 386-0868

Report Date: June 15, 2022

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

Variances and Exemptions: Permissions from the State Water Resources Control Board (State Board) to exceed an MCL or not comply with a treatment technique under certain conditions.

Level 1 Assessment: A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) Maximum Residual Disinfectant Level (MRDL): The why total coliform bacteria have been found in our water system.

Level 2 Assessment: 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.

ND: not detectable at testing limit

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

ppb: parts per billion or micrograms per liter (μg/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.

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• 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, 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 U.S. EPA and the State Board prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration regulations and California law also establish limits for contaminants in bottled water that provide the same protection for public health.

Tables 1, 2, 3, 4, 5, and 6 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 an AL, MCL, MRDL, or TT is asterisked. 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 Detections	No. of Months in Violation	MCL	MCLG	Typical Source of Bacteria			
Total Coliform Bacteria	1	0	1 positive monthly sample	0	Naturally present in the			
(state Total Coliform Rule)					environment			
Fecal Coliform or E. coli	0	0	A routine sample and a repeat		Human and animal fecal			
(state Total Coliform Rule)			sample are total coliform positive,		waste			
			and one of these is also fecal					
			coliform or <i>E. coli</i> positive					
E. coli	0	0	(a)	0	Human and animal fecal			
(federal Revised Total					waste			
Coliform Rule)								
(a) Pouting and ranget samples or	a total galiform no	citize and either is F	gali pagitiva ar system fails to take rape	at complex following	a F goli positivo routino semple			

(a) Routine and repeat samples are total coliform-positive and either is *E. coli*-positive or system fails to take repeat samples following *E. coli*-positive routine sample or system fails to analyze total coliform-positive repeat sample for *E. coli*.

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)	Sample Date	No. of Samples Collected	90 th Percentile Level Detected	No. Sites Exceeding AL	AL	PHG	No. of Schools Requesting Lead Sampling	Typical Source of Contaminant
Lead (ppb)	7-2-19 thru 7-3-2019	30	0	0	15	0.2	0 All schools sampled in 2019	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	7-2-19 thru 7-3-2019	30	.260	1	1.3	0.3	N/A	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)	11-02-2021	70		None	None	Salt present in the water and is generally naturally occurring			
Hardness (ppm)	11-02-2021	110		None	None	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring			

TABLE 4 -	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 Source of Contaminant				
Aluminum (ug/L)	11-02-2021	ND		1000	600	Erosion of natural deposits; residual from some surface water treatment processes.				
Gross Alpha (pCi/L)	10-18-17	<3		15	0	Certain minerals are radioactive and may emit forms of radiation known as photons and alpha radiation. Some people who drink water containing alpha and photon emitters in excess of the MCL over many years may have an increased risk of getting cancer.				
Gross Beta (pCi/L)	10-18-17	<4		50		Certain minerals are radioactive and may emit forms of radiation known as photons and beta radiation. Some people who drink water containing beta and photon emitters in excess of the MCL over many years may have an increased risk of getting cancer.				
TTHMs (Total Trihalomethanes) ug/L	1-5-21 thru 11-10-21	66	44-120*	80	N/A	Some people who drink water containing TTHMs in excess of the MCL over many years may experience liver, kidney, or central nervous system problems, and may have an increased risk of getting cancer.				

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HAA5 (sum of 5 Haloacetic Acids) (ug/L)	1-5-21 Thru 11-10-21	18.7	14-31	60	N/A	Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.
Chloramines (mg/L)	1-5-21 Thru 12-29-21	1.8	0.6-3.5	4.0	4.0	Disinfectant added for treatment; Some people who use water containing chloramines well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chloramines well in excess of the MRDL could experience stomach discomfort or anemia.
Chlorine (mg/L)	1-5-21 Thru 12-29-21	0.46	0.16-1.42	4.0	4.0	Disinfectant added for treatment; Some people who use water containing chlorine well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chlorine well in excess of the MRDL could experience stomach discomfort.
Chromium(total) (ug/L)	2-10-14 Thru1-15-15	0.30	0.20-0.36	50		Discharge from steel and pulp mills and chrome plating: erosion of natural deposits
Total Xylenes(ug/L)	11-2-21	ND		1,750	1,750	Discharge from petroleum factories and or chemical factories. Drinking water containing Xylenes well in excess of MRDL may cause nervous system damage
TABLE 5 – DETEC	TION OF CONT	AMINAN	TS WITH A	SECON	DARY DR	INKING WATER STANDARD
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	SMCL	PHG (MCLG)	Typical Source of Contaminant
Aluminum (ug/L)	11-02-2021	ND		200		Erosion of natural deposits; residual from some surface water treatment processes.
Color (units)	11-02-2021	ND		15		Natural occurring organic materials
Foaming Agents ug/L	10-15-19	<50		500		Municipal and industrial waste discharges
Manganese(mg/L)	11-02-2021	ND		500		
Odor—Threshold (TON)	11-02-2021	ND		3		Naturally occurring organic materials
Turbidity (units)	11-02-2021	0.15		0.3		Soil runoff
Zinc (ug/L)	11-02-2021	200		5000		Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids (mg/L)	11-02-2021	300		500		Runoff/leaching from natural deposits
Specific Conductance (uS/cm)	11-02-2021	580		1600		Substances that form ions when in water; seawater influence
Chloride (mg/L)	11-02-2021	100		250		Runoff/leaching from natural deposits; seawater influence
Sulfate (mg/L)	11-02-2021	54		500		Runoff/leaching from natural deposits; industrial wastes
PH (Std Units)	11-02-2021	7.3		6.5-8.5		
	TABLE	6 – DETE	CTION OF	UNREGU	JLATED (CONTAMINANTS
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notifica	tion Level	
Molybdenum(ug/L)	2-10-14to1-15-15	2.3	1.8-2.7	N/A		
Strontium (ug/L)	2-10-14to1-15-15	295	275-345	1500		
Vanadium(ug/L)	2-10-14to1-15-15	2.8	2.2-3.4	15		
Hexavalent Chromium (ug/L)	10-20-20	0.065		50		
Chlorate (ug/L)	2-10-14to1-15-15	398	210-660	800		
HAA9 (ug/L)	5-7-19 to 11-5-19	35.34	25.17-49.2			
Potassium (mg/L)	11-02-2022	4.0		N/A		

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 U.S. EPA'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. U.S. EPA/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).