

2020 Water Quality Report

The City of American Canyon is pleased to distribute the Annual Water Quality Report for 2020. This report is designed to inform you about the quality of water and services we deliver to you every day. Our goal is to provide a safe and reliable source of drinking water. We are committed to ensuring the quality of your water and we want our valued customers to be informed about their water system. If you have questions about this report or your water quality, please contact the Water Systems Manager at (707) 258-1269. For emergencies after hours or on weekends or holidays, the City of American Canyon answering service can be reached at (707) 995-8674. To learn more, attend any regularly scheduled City Council meeting, held on the first and third Tuesdays of each month at 6:30 PM LINK FOR CITY HALL YOUTUBE at the American Canyon City Hall Council Chambers at 4381 Broadway, Suite 201.

Source Water Information

Where does my water come from?

The City of American Canyon treated 2845 acre feet of water during 2020 (an acre foot of water is equal to 325,829 gallons). The city receives its source water from the State Water Project (SWP) through the North Bay Aqueduct (NBA). The NBA water is a surface source and comes from Barker Slough.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over land or through the ground, it dissolves naturally occurring minerals, in some cases radioactive material, and can pick up substances resulting from the presence of animals or human activity.

System Information

How is my water treated?

The American Canyon Water Treatment Plant consists of two plants, a conventional plant which uses coagulants (which cause fine suspended particles to clump together) followed by sedimentation and filtration, and a membrane plant which uses membranes with pores small enough to filter out contaminants, including microorganisms. Filtered water is disinfected with chlorine and the pH is adjusted prior to distribution. These processes are continually monitored and adjusted for optimum performance by operators certified by the State Water Resource Control Board.

The City of American Canyon's water source comes from the Barker Slough in the Sacramento Delta via the North Bay Aqueduct, the City has an agreement with the City of Vallejo to purchase treated water through a connection located on Flosden Road. This connection could provide up to 56 million gallons per month of supplemental treated water for the City. The City also has a treated water connection with the City of Napa.

Does the city add fluoride to the water?

The City of American Canyon does not add fluoride to the water. However, the City of Vallejo does, and since Vallejo water is sometimes added to the system during the summer months when demand is high, trace amounts of fluoride may be present.

Compliance Standards

Is my water safe?

In order to ensure that tap water is safe to drink, the US Environmental Protection Agency (USEPA) and the State Water Resource Control Board Division of Drinking Water (SWRCBDDW) 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 must provide the same protection for public health.

With the exception of Total Trihalomethanes (TTHM), all required testing indicate that your drinking water meets or exceeds all primary drinking water standards, which are set by the federal Safe Drinking Water Act, and the SWRCBDDW. In addition to the required testing, additional monitoring was conducted for unregulated organic chemicals for which the USEPA and SWRCBDDW have not yet set standards. All results were below detection limits unless otherwise noted.

Vulnerability Assessment

What affects the water quality?

An assessment of the North Bay Aqueduct water source was completed for the City of American Canyon in November 2011. A copy of the complete assessment may be reviewed at City Hall, 4381 Broadway, Suite 201. You may request a summary of the assessment to be sent to you by calling (707) 647-5325. The source is considered to be vulnerable to sheep and cattle grazing activities in the watershed that are associated with turbidity, total organic carbon, and coliform bacteria detected in the raw water supply. Although the water source is considered vulnerable to sheep and cattle grazing activities, it is important to note that there are multiple barriers for physical removal of contaminants, and the water is disinfected at the water treatment plant.

More information can also be found at the city website, www.cityofamericancanyon.org. Click on 'City Departments, Maintenance and Utilities to access more information about the City of American Canyon's water and wastewater systems.

For more information on drinking water and the professionals who provide it, visit <u>www.drinktap.org</u>. This site is designed to be a resource for the general public to learn more about their drinking water and to inform consumers about a variety of water related issues, including articles that are designed to describe complex water issues in a simple way.

Water Quality Information

Source Water Contaminant Information

Microbial contaminants, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife. Monitoring for bacteriological contaminants in the treated water distribution system is required to determine the presence of microbiological contaminants such as coliforms, fecal coliforms, or *E. coli*.

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 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.

Arsenic: The California Department of Public Health continues to research the health effects of low levels of arsenic, a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

Cryptosporidium / Giardia: Microbial pathogens found in surface water throughout the US. Although filtration removes Cryptosporidium and Giardia, the most commonly used filtration methods cannot guarantee 100% removal. Our monitoring indicates the presence of these organisms in our source water. Current test methods do not allow us to determine if the organisms are dead or if they are capable of causing disease. Ingestion of Cryptosporidium may cause cryptosporidiosis, an abdominal infection. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, immuno-compromised people are at a greater risk of developing life-threatening illness. We encourage immuno-compromised individuals to consult their doctor regarding appropriate precautions to take to avoid infection. Cryptosporidium must be ingested to cause disease, and it may be spread through means other than drinking water.

Treated Water Contaminant Information

The City of American Canyon routinely monitors for contaminants in your drinking water according to federal and state laws. The following table shows the results of our most recent monitoring for the period of January 1, 2020 through December 31, 2020 unless otherwise noted.

All drinking water, including bottled water, may be reasonably 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 EPA's Safe Drinking Water Hotline at 1-800-426-4791.

Sensitive Populations: 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. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline at 1-800-426-4791.

Trihalomethanes and Haloacetic Acids: Some people who drink water containing THMs and HAAs 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.

Lead and Copper: Elevated levels can cause serious health problems. Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets standards. During 2020, we did not complete all monitoring for lead and copper and therefore, cannot be sure of the quality of your drinking water at that time. 2020 Lead and copper sampling has been completed and results are represented in our 2020 Water Quality Report. None of the samples collected in 2020 exceeded the action level for lead or copper. The next round of lead and copper samples will occur the summer of 2021.

Water Conservation

As you are probably aware, many water utilities across the State are imposing strict conservation measures as a result of the ongoing drought. Even in the best of times, water customers are encouraged to conserve water. The American Water Works Association recommends the following steps to help conserve water:

• Don't over water your lawn. Only water every three to five days in the summer, and ten to fourteen days in the winter.

- To prevent water loss from evaporation, don't water your lawn during the hottest part of the day or when it is windy.
- Only run the dishwasher and clothes washer when they are fully loaded.
- When washing dishes by hand, use two basins one for washing and one for rinsing rather than letting the water run.
- Use a broom rather than a hose to clean sidewalks and driveways.
- If you have a swimming pool, get a cover. You will cut the loss of water through evaporation by 90 percent.
- *Repair leaky faucets and toilets. Dripping faucets can waste about 2,000 gallons of water a year. Leaky toilets can waste as much as 200 gallons a day.*

The table below summarizes the contaminants that were detected in the period January 1, 2020 to December 31, 2020.

				Trea	ated Water				
Primary Inorga	Primary Inorganic Contaminants								
Substance	Units	MCL	PHO	G/MCLG	Average	Range	Range		
							Contaminant Sources		
Nitrate		ppm	45	45	ND	ND – 0.35	Discharge from steel and pulp mills		
							and chrome plating; erosion of		
							natural deposits		
Aluminum		ppb	1000		ND	14 - 100	Erosion of natural deposits; runoff		
							from orchards; runoff from glass		
							and electronics production		
Fluoride		ppm	2	1	0.06	ND –	Erosion of natural deposits		
						0.198			

Secondary Inorgan	ic Contamiı	nants				
Substance	Units	SMCL	PHG/MCLG	Average	Range	Contaminant Sources
Color	Color	15	N/A	ND		Naturally occurring organic
	Units					materials
Chloride	ppm	500	N/A	17	15.0 – 54.5	Runoff/leaching from natural
						deposits; seawater influence
Manganese	ppb			8.38	3.6 - 240	Erosion of natural deposits
Sulfate	ppm	500	N/A	5.45	15.2 – 53.5	Runoff/leaching from natural
						deposits; industrial wastes
Total Dissolved	ppm	1000	N/A	168.5	150 - 331	Runoff/leaching from natural
Solids						deposits
Specific	uS/cm	1600	N/A	301	267 - 533	Substances that form ions in water;
Conductance						seawater influence

Unregulated Conta	aminants					
Substance	Units	NL	PHG/MCLG	Average	Range	
Vanadium	ppb			ND	ND – 2.1	Unregulated contaminant
Barium	ppb			ND	28 – 48	monitoring helps EPA and the State
Nickel	ррb			ND	1.1 – 5.7	determine where certain contaminants occur and whether the contaminants need to be regulated

Sodium and Hardn	ess					
Substance	Units	MCL	PHG/MCLG	Average	Range	Contaminant Sources
Sodium	ppm	N/A	N/A	6.1	32.3 – 60.5	Generally found in surface and
Hardness	ppm	N/A	N/A	72.1	85 - 137	ground water

Filtration Performance	!			
Substance	Performance	Highest Single Detected	% of Samples	Contaminant Sources
	Standard	Measurement	< 0.3 NTU	
Turbidity	TT=1NTU, 95% of			Soil runoff
	samples must be	0.252	98.9	
	<0.3NTU			

Microbiolo	gical Contami	nants			
Substance	Total # of	Maximum Number of	Highest Monthly	Total Number of	Contaminant Sources
	Samples	Positive Samples	Number of Positive	Positive Fecal	
	Taken	Allowed Per Month	Samples	Coliform or E.	
		(MCL)		coli Samples	
Coliform	263	1	0	0	Naturally present in
Bacteria					the environment

Disinfectant Resid	Disinfectant Residuals, Disinfection Byproducts, and Disinfection Byproduct Precursors							
Trihalomethanes ((THMs) and I	Haloacet	tic Acids (HAAs	s): Routine Regulatory	/ Sampling			
Substance	Units	MCL	PHG/MCLG	Highest Annual	Range	Contaminant Sources		
				Running Average				
THMs	ppb	80	N/A	90.95	70.25 – 90.75	Byproducts of drinking		
HAAs	ppb	60	N/A	48.15	26.0 – 35.5	water chlorination		

Chlorine Re	esiduals					
Substance	Units	MRDL	MRDLG	Average	Range	Contaminant Sources
Chlorine	ppm	4.0	4.0	1.21	.1- 1.78	Drinking water disinfectant added
						for treatment

Total Organ	nic Carbon					
Substance	Compliance	MCL	PHG/MCLG	Average Ratio	Ratio Range	Contaminant Sources
TOC	Removal Ratio	TT	N/A	2.46	1.32 -2.26	Various natural and man-
	must be >1					made sources

Lead and Co	opper				
Substance	Units	AL	PHG	Level Detected	Contaminant Sources
				90 th Percentile	
Lead	ppb	15	2	ND	Plumbing corrosion; erosion of natural
Copper	ppb	1300	170	104	deposits
Note: Lead	and Copper te	esting was d	one in 30 homes i	in 2017. All samples w	vere below the action levels.

Important Definitions

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 and MCLGs as is economically or technically feasible. Secondary maximum contaminant levels (SMCL's) 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 US Environmental Protection Agency.
Public Heal	th 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.
Action Leve	el (AL)	The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a drinking water system must follow.
Treatment	Technique (TT)	A required process intended to reduce the level of a contaminant in drinking water.
Primary Dri	nking Water Standard (PDWS)	MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.
Maximum I	Residual Disinfectant Level (MRDL)	The level of a disinfectant added for water treatment that cannot be exceeded at the consumer's tap.
	Residual Disinfectant Level Goal	The level of a disinfectant added for water treatment below which no known or expected health risk. MRDLGs are set by the USEPA.
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	None Detected	USEPA US Environmental Protection Agency
<u>Acronyms</u> ND NS	None Detected No Standard	CDPH California Department of Public Health
<u>Acronyms</u> ND NS NA	None Detected No Standard Not Analyzed	CDPH California Department of Public Health NBA North Bay Aqueduct
<u>Acronyms</u> ND NS NA N/A	None Detected No Standard Not Analyzed Not Applicable	CDPH California Department of Public Health NBA North Bay Aqueduct SWP State Water Project
Acronyms ND NS NA N/A ppm	None Detected No Standard Not Analyzed Not Applicable parts per million	CDPH California Department of Public HealthNBA North Bay AqueductSWP State Water ProjectDBP Disinfection Byproducts
Acronyms ND NS NA N/A ppm ppb	None Detected No Standard Not Analyzed Not Applicable parts per million parts per billion	 CDPH California Department of Public Health NBA North Bay Aqueduct SWP State Water Project DBP Disinfection Byproducts TOC Total Organic Carbon
Acronyms ND NS NA N/A ppm	None Detected No Standard Not Analyzed Not Applicable parts per million	CDPH California Department of Public HealthNBA North Bay AqueductSWP State Water ProjectDBP Disinfection Byproducts
Acronyms ND NS NA N/A ppm ppb uS/cm NL	None Detected No Standard Not Analyzed Not Applicable parts per million parts per billion microsiemens per centimeter Notification Level	 CDPH California Department of Public Health NBA North Bay Aqueduct SWP State Water Project DBP Disinfection Byproducts TOC Total Organic Carbon THM Trihalomethanes
Acronyms ND NS NA N/A ppm ppb uS/cm NL Examples fo	None Detected No Standard Not Analyzed Not Applicable parts per million parts per billion microsiemens per centimeter Notification Level	 CDPH California Department of Public Health NBA North Bay Aqueduct SWP State Water Project DBP Disinfection Byproducts TOC Total Organic Carbon THM Trihalomethanes HAA Haloacetic Acids
Acronyms ND NS NA N/A ppm ppb uS/cm NL <u>Examples fo</u> One part po	None Detected No Standard Not Analyzed Not Applicable parts per million parts per billion microsiemens per centimeter Notification Level	 CDPH California Department of Public Health NBA North Bay Aqueduct SWP State Water Project DBP Disinfection Byproducts TOC Total Organic Carbon THM Trihalomethanes HAA Haloacetic Acids One part per billion:
Acronyms ND NS NA N/A ppm ppb uS/cm NL Examples for One part po One minute	None Detected No Standard Not Analyzed Not Applicable parts per million parts per billion microsiemens per centimeter Notification Level	 CDPH California Department of Public Health NBA North Bay Aqueduct SWP State Water Project DBP Disinfection Byproducts TOC Total Organic Carbon THM Trihalomethanes HAA Haloacetic Acids
Acronyms ND NS NA N/A ppm ppb uS/cm NL <u>Examples fo</u> One minute Half an aspi	None Detected No Standard Not Analyzed Not Applicable parts per million parts per billion microsiemens per centimeter Notification Level or Comparison Purposes er million:	 CDPH California Department of Public Health NBA North Bay Aqueduct SWP State Water Project DBP Disinfection Byproducts TOC Total Organic Carbon THM Trihalomethanes HAA Haloacetic Acids One part per billion: One minute in two thousand years

Este documento está disponible en español en nuestro sitio: <u>www.cityofamericancanyon.org/waterquality</u>

Available ang dokumentong ito sa Tagalog sa aming website sa: <u>www.cityofamericancanyon.org/waterquality</u>