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2023 Consumer Confidence Report

Water System Name:	Chiriaco Summit Water District	Report Date:	07/01/2024

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 to December 31, 2023 and may include earlier monitoring data.

ESTE INFORME CONTIENE INFORMACIÓN MUY IMPORTANTE SOBRE SU AGUA PARA BEBER. FAVOR DE COMUNICARSE AL DISTRITO DE AGUA DE CHIRIACO SUMMIT PARA ASISTIRLO EN ESPAÑOL SI TIENE ALGUNA DUDA.

Type of water source(s) in use:

Surface Water

Name & location of source(s):

Colorado River Aqueduct

Drinking Water Source Assessment information: As per MWD, and based on a Source Water Assessment (SWA) completed in December of 2002 at the Whitsett Intake Pumping Plant, this source (Colorado River supplies upstream of the plant) is considered to be most vulnerable to treated wastewater discharges, urbanization in the watershed, and recreation. Treated wastewater discharges and urbanization may contribute sources of nutrients, pathogens, metals, and other chemicals of concern. (For more information about the SWA, please call (213) 217-6850).

Time and place of regularly scheduled board	4:00pm the second Tuesday of every other			
month in Jan., March, May, July, Sept., and N	lovember, at the Joseph L. (Chiriaco, Inc. Conferen	ce Room. Schedule a	vailable at www.cswaterdistrict.org
For more information, contact:	Hector Sanchez, Chie	ef Plant Operator	Phone:	(760) 899-3118
	TERMS USE	D IN THIS REPORT		
 Maximum Contaminant Level (MCL): Contaminant that is allowed in drinking war as close to the PHGs (or MCLGs) at technologically feasible. Secondary MCLs at taste, and appearance of drinking water. Maximum Contaminant Level Goal (No contaminant in drinking water below white expected risk to health. MCLGs are set be Protection Agency (U.S. EPA). Public Health Goal (PHG): The level of a water below which there is no known or PHGs are set by the California Environment Maximum Residual Disinfectant Level (MRII disinfectant allowed in drinking water. The that addition of a disinfectant is necessari contaminants. Maximum Residual Disinfectant Level Goa drinking water disinfectant below which expected risk to health. MRDLGs do not ruse of disinfectants to control microbial co Primary Drinking Water Standards (PDW) contaminants that affect health along w reporting requirements, and water treatments 	 ter. Primary MCLs are set is is economically and reset to protect the odor, ICLG): The level of a ch there is no known or y the U.S. Environmental contaminant in drinking expected risk to health. tal Protection Agency. DL): The highest level of a ere is convincing evidence y for control of microbial I (MRDLG): The level of a there is no known or eflect the benefits of the ntaminants. S): MCLs and MRDLs for the their monitoring and 	affect taste, odor, or SDWSs do not affect Treatment Techniqu of a contaminant in o Regulatory Action Le exceeded, triggers t must follow. Variances and Exem Control Board (Stat treatment technique Level 1 Assessment: identify potential pr bacteria have been f Level 2 Assessment: water system to iden	appearance of the of the health at the MO e (TT): A required pr drinking water. evel (AL): The concer- reatment or other r ptions: Permissions e Board) to exceed e under certain condi A Level 1 assessmer oblems and determi ound in our water sy A Level 2 assessme tify potential problem on has occurred and/ ater system on multi it testing limit or milligrams per l or manograms per li illion or picogram pe	rocess intended to reduce the level attration of a contaminant which, if requirements that a water system is from the State Water Resources d an MCL or not comply with a tions. at is a study of the water system to ne (if possible) why total coliform istem. ent is a very detailed study of the ms and determine (if possible) why for why total coliform bacteria have ple occasions. iter (mg/L) iter (mg/L) ter (ng/L)

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 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 1A, 1B, 2, 3, 4, 5, 6A, 6B, 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 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 1A – CHIRIACO SUMMIT WATER DISTRICT DISTRIBUTION SYSTEM 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 (state Total Coliform Rule)	0 (In a month)	0	1 positive monthly sample ^(a)	0	Naturally present in the environment			
Fecal Coliform or <i>E. coli</i> (state Total Coliform Rule)	0 (In the year)	0	A routine sample and a repeat sample are total coliform positive, and one of these is also fecal coliform or <i>E. coli</i> positive		Human and animal fecal waste			
<i>E. coli</i> (Federal Revised Total Coliform Rule)	0 (In the year)	0	(b)	0	Human and animal fecal waste			

(a) Two or more positive monthly samples is a violation of the MCL

(b) 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 1B – CHIRIACO SUMMIT WATER DISTRICT RAW WATER SUPPLY SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA						
Microbiological Contaminants	Sample Date	Range	Typical Source of Bacteria			
(complete if bacteria detected)	(Frequency)	Average				
Total Coliform Bacteria	1/23–12/23	ND-> 2400+	Naturally present in the environment			
(CFU/100 mL)	(Monthly)	1201				
<i>E. coli</i>	1/23–12/23	ND-ND	Human and animal fecal waste			
(CFU/100 mL)	(Monthly)	ND				

Т	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)	08/2023	5	0.002	0	15	0.2	Not applicable	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits	
Copper (ppm)	08/2023	5	0.055	0	1.3	0.3	Not applicable	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives	

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 Chiriaco Summit Water 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 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.

TABLE 3 – SOURCE WATER MONITORING RESULTS FOR SODIUM AND HARDNESS ⁵								
Chemical or Constituent (and reporting units)	Sample Date	Range of Detections		Range of Detections		MCL	PHG (MCLG)	Typical Source of Contaminant
Carliner (mana)	April 2023; October	Range	100 - 111	Nana	Nana	Salt present in the water and is generally		
Sodium (ppm)	2023	Average	106	None	None	naturally occurring.		
Hardness (as CaCo ₃)	April 2023; October	Range	311 - 312	None	None	Generally, magnesium and calcium cations,		
(ppm)	2023	Average	311	None	None	and are usually naturally occurring.		

TAI	TABLE 4 – DETECTION OF CONTAMINANTS WITH A <u>PRIMARY</u> DRINKING WATER STANDARD ⁵								
Chemical or Constituent (and reporting units)	Sample Date	Range of Detections	Level Detected	MCL [MRDL]	PHG (MCLG)	Typical Source of Contaminant			
	Aug. 2022	Range	2.4	10	0.004	Erosions of natural deposits; runoff from orchards;			
Arsenic (ppb)	Apr. 2023	Average	2.4	10	0.004	glass and electronics production wastes			
Barium (ppb)	Apr. 2023	Range	128	1,000	2000	Oil and metal refineries discharge; natural deposits erosion			
Fluoride (ppm)	Apr. 2023: Oct.	Apr. 2023: Oct.	Apr. 2023; Oct.	Range	0.0	2.0	4	Erosion of natural deposits; discharge from	
(naturally occurring)	2023	Average	0.3	0.3 2.0 1	1	fertilizer and aluminum factories			
Gross Alpha Particle	Apr. 2023; Oct.	Range	ND – 6.2	15	0	Erosion of natural deposits.			
Activity (pCi/L) ¹	2023	Average	ND	15	0				
Gross Beta Particle	2023	Range	5.9 - 8.3	50	0				
Activity (pCi/L) ^(2,4)	(Quarterly)	Average	6.9	50 0	Decay of natural and man-made deposits				
	2023	Range	2.6 - 3.0						
Uranium (pCi/L) ⁽⁴⁾	(Quarterly)	Average	2.9	20	0.43	Erosion of natural deposits.			

TABLE 5 – DISTRIBUTION SYSTEM MONITORING RESULTS FOR DISINFECTION BYPRODUCTS AND DISINFECTANT RESIDUALS ³

Chemical or Constituent (and reporting units)	Sample Date	Range Average	Levels of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Total Trihalomethanes (TTHM) (ppb)	08/2023 ~	Range	48 - 93	80	NONE	Byproduct of drinking water
Total Trinalomethalles (TTHM) (PPD)	11/2023	Average	70.5	80	NONE	chlorination
Lielessetie Aside (Five) (LIAAE) (nph)	08/2022	Range	14 – 27	60	NONE	Byproduct of drinking water
Haloacetic Acids (Five) (HAA5) (ppb)	08/2023	Average	20.5		NONE	chlorination
Chlorine (free) Residual (ppm)	01/2023 ~	Range	1.94 – 2.36	4.0	4.0	Drinking water disinfectant
Chiorine (nee) Residual (ppin)	12/2023	Average	2.15	4.0	4.0	added for treatment

TABLE 6A – DISTRIBUTION SYSTEM MONITORING RESULTS FOR CONSTITUENTS WITH A SECONDARY DRINKING WATER STANDARD ⁴

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Levels of Detection	MCL	Typical Source	
Turbidity (NTU)	01/2023 ~	Range	0.012 - 0.036	E	Soil Runoff.	
	12/2023	Average	0.024	5		
Odor Threshold (TON) October 2023 -		Range	ND	2	Naturally accurring arganic materials	
	October 2023	Average	IND	3	Naturally occurring organic materials	

Chiriaco Summit Water District SWS CCR Form

¹ Data are from samples collected (triennially) during four consecutive quarters of monitoring in 2020 and reported for three years until the next samples are collected.

² The gross beta particle activity MCL is 4 millirem/year annual dose equivalent to the total body or any internal organ. The screening level is 50 pCi/L.

³ Chiriaco Summit Water District sampling.

⁴ Samples were taken from the facility domestic tank effluent

⁵ Samples were taken from the Colorado River at Lake Havasu, Wittset Intake Pumping Plant

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Chloride (ppm)	Apr. 2023; Oct. 2023	Range Average	107 – 109 108	500	NA	Runoff/leaching from natural deposits
Color (units)	Apr. 2023; Oct. 2023	Range	- 3	15	NA	Naturally occurring organic minerals
Specific Conductance (μS/cm)	Apr. 2023; Oct. 2023	Range Average	1,050 - 1,080 1,070	1,600	NA	Substances that form ions in water; seawater influence
Sulfate (ppm)	Apr. 2023; Oct. 2023	Range Average	233 – 238 236	500	NA	Runoff/leaching from natural deposits; industrial waste
Total Dissolved Solids (ppm)	Apr. 2023; Oct. 2023	Range Average	667 – 716 692	1,000	NA	Runoff/leaching from natural deposits

TABLE 7 - MONITORING RESULTS FOR UNREGULATED CONTAMINANTS ⁵							
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Levels of Detection	Notification Level	Health Effects Language		
Boron (pph)	Apr.		140	1,000	The babies of some pregnant women who drink water containing boron in excess of the notification level may have an increased		
Boron (ppb)	2023	Average	140	1,000	risk of developmental effects, based on studies in laboratory animals.		
October		Range	104		High doses of chlorate can interfere with thyroid function and		
Chlorate (ppb)	2023	Average	104	800	can cause oxidative damage to red blood cells.		

TABLE 8 - SAMPLING RESULTS SHOWING TREATMENT OF SURFACE WATER SOURCES					
Treatment Technique ^(a) (Type of approved filtration technology used)	Evoqua (Siemens) Memcor Microfiltration System				
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 0.1 NTU in 95% of measurements in a month. 2 – Not exceed 1.0 NTU for more than eight consecutive hours. 3 – Not exceed 1.0 NTU at any time. 				
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.	100%				
Highest single turbidity measurement during the year	0.035NTU				
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.

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).

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 $^{^{\}rm 5}$ Samples were taken from the Colorado River at Eagle Mountain Pumping Plant