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Reporting Period: Jan 1, 2021 Dec 31, 2021

www.sanpasqualbandofmissionindians.org





A MESSAGE FROM THE SAN PASQUAL BAND OF MISSION INDIANS DOMESTIC WATER AUTHORITY

We are pleased to share that the San Pasqual Water Department and Domestic Water Authority continues to provide high quality and affordable drinking water to you each and every day.

While we are extremely confident about the quality of water delivered to your homes, as a community we must rethink how we use this quality water. Because of the potential for severe drought we have been monitoring the states Drought Status, see page 5 for current drought status and maps. We have to challenge ourselves to adapt to this new water reality: it is a limited resource and it is becoming more so. Rethinking water use outdoors is by far the area with the most potential for savings. However there are other ways to conserve so that we all can do our part to reduce water use.

Water is integral to maintaining San Pasqual's way of life. Together, we must value water, consume it wisely and never waste it. We are confident this report will shed some light on just how valuable water is and how much effort is involved to deliver this precious resource.

Sincerely,

SAN PASQUAL DOMESTIC WATER AUTHORITY



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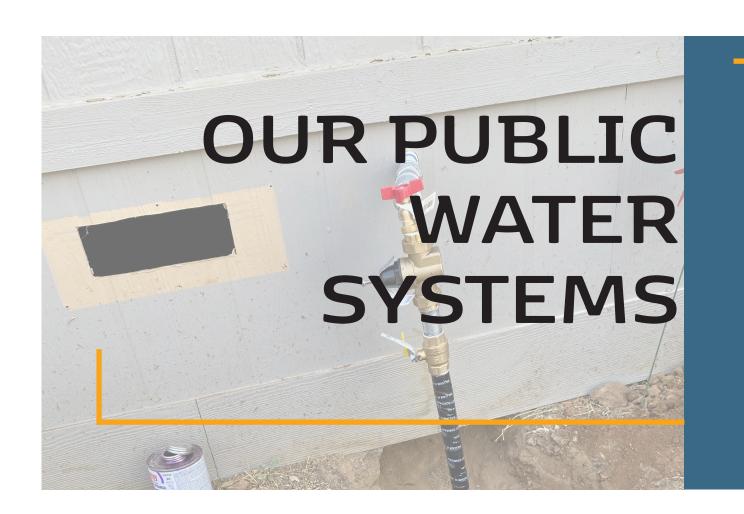
INTRODUCTION

OUR WATER SUPPLY

The San Pasqual Domestic Water Authority is pleased to present you with the Annual Drinking Water Quality Report for 2021, also known as the Consumer Confidence Report. The U.S. Environmental Protection Agency and the California Division of Drinking Water require that all water agencies produce an annual report on the previous year informing customers about the quality of their drinking water. This report is a snap shot of your water quality. Included are details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. We are committed to providing you with information because informed customers are our best allies.

TRIBAL DRINKING WATER

There are two primary sources for our Tribal drinking water, ground water and out sourced water from the neighbouring municipality. Ground water supply begins as rainwater that is naturally filtered through the soil. This water percolates through the soil and settles, usually several hundred feet below the Earth's surface, to form aguifers. Well #3 on District A and Well #1 on District C pumps from such an aquifer for domestic use. The Reservation also uses chlorinated and fluoridated water purchased from the Indian Water Authority for both Water Systems A & B. In an effort to supply you with the safest possible product, the Tribe also chlorinates the water at Well #3 to help control viruses and bacteria. The level of chlorine is monitored to ensure proper dosages.





PWS ID 0605017, PWS ID 0605080 and PWS ID 090605168

DO YOU NEED TO TAKE ANY SPECIAL PRECAUTIONS

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised individuals such as a person with cancer undergoing chemotherapy, individuals who have undergone organ transplant, people with HIV/AIDS or other immune system disorders, some elderly and infants can be particularly at risk from infections. These individuals should seek advice about drinking water from their health care providers. The Environmental Protection Agency (EPA) and Center for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available form the EPA Safe drinking Hotline (800-426-4791) or at https://www.epa.gov/groundwater-and-drinking-water/safe-drinking-water-hotline

WATER SOURCES

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OUR IMPORTED WATER SUPPLY AND THE IMPACT ON WATER QUALITY



The San Pasqual Reservation imported some of our water supply in 2021. This imported water was purchased from the Indian Water Authority but is provided by way of Valley Center Municipal Water District, the San Diego County Water Authority and from the Metropolitan Water District of Southern California. Ultimately, our water was a blend from two different sources from Colorado River water and California State Water Project water. Throughout the year, the blend changes. Several forces negatively impact the quality of water from the Colorado River and California State Water Project. The Colorado River winds through thousands of miles of unprotected watershed containing towns, farms, old mining sites and industrial sites. Water from the California State Water Project is also subject to potential contaminants such as pesticides and herbicides. This water source also has a higher organic carbon and bromide level than the Colorado River water. As organic carbon and bromide levels increase, the potential for creating higher levels of disinfection by-products exists.

Colorado River and California State Water Project water is treated by the San Diego County Water Authority and Valley Center Municipal Water District. San Pasqual Water Department regularly monitors the quality of all water to ensure all drinking water quality standards are met.







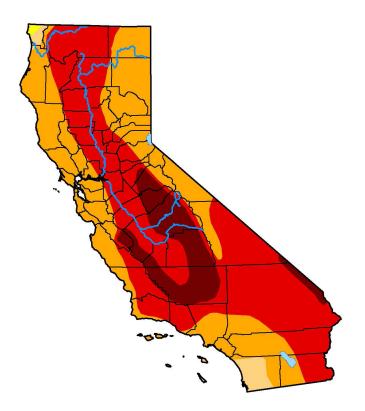
LINKS TO OUT SOURCED WATER SOURCE CCR'S

Valley Center Municipal Water District http://www.vcmwd.org/Services/Water-and-Customer-Service/Water-Quality-Reports

San Diego County Water Authority https://www.sdcwa.org/water-quality

Metropolitan Water District of Southern California http://www.mwdh2o.com/pdf_about_your_water/2.3.1_annual_water_quality_report.pdf

U.S. Drought Monitor California



June 7, 2022 (Released Thursday, Jun. 9, 2022) Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	99.79	97.48	59.81	11.59
Last Week 05-31-2022	0.00	100.00	99.86	97.56	59.81	11.59
3 Months Ago 03-08-2022	0.00	100.00	100.00	86.98	12.82	0.00
Start of Calendar Year 01-04-2022	0.00	100.00	99.30	67.62	16.60	0.84
Start of Water Year 09-28-2021	0.00	100.00	100.00	93.93	87.88	45.66
One Year Ago 06-08-2021	0.00	100.00	100.00	94.75	85.20	33.32

Intensity:

None D2 Severe Drought D0 Abnormally Dry D3 Extreme Drought D1 Moderate Drought D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

Author: Brad Pugh CPC/NOAA



U.S. Drought Monitor

California







droughtmonitor.unl.edu





June 8, 2021

Last Week 00.00 100.00 94.61 74.46 Start of alendar Y 74.34

D0 Abnormally Dry D3 Extreme Drought
D1 Moderate Drought D4 Exceptional Drough





June 9, 2020

	Dro	ught Co	ondition	s (Per	cent Ar	ea)
	None	D0-D4	D1-D4	D2-D4		
Current	41.79	58.21	46.74	20.84	2.45	0.00
Last Week 06-02-2020	41.80	58.20	46.67	20.84	2.97	0.00
3 Month's Ago 03-10-2020	21.50	78.50	48.09	0.00	0.00	0.00
Start of Calendar Year 12-31-2019	96.43	3.57	0.00	0.00	0.00	0.00
Start of Water Year 10-01-2019	95.29	4.71	2.06	0.00	0.00	0.00
One Year Ago 06-11-2019	95.68	4.32	0.00	0.00	0.00	0.00

D3 Extreme Drought D1 Moderate Drought D4 Exceptional Drough







WHY IS THERE ANYTHING IN MY WATER?

Drinking Water, including bottled water, may reasonably be expected to contain at least small amounts of contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminates and potential health effects can be obtained by calling the Environmental Protection Agency's Safe drinking Hotline (800-46-4791).

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 storm water 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 storm water 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 storm water 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. Environmental Protection Agency prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

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OUR WATER TREATMENT PROCESS

The San Pasqual Water Department provides high-quality drinking water by utilizing proven technology, updated facilities, and state-certified operators. Water is treated at the Tribes water treatment plant using several processes, with each process providing additional water quality improvements. Using several treatment processes provides multiple barriers for added safety. Our treatment plant employs a combination of time-tested conventional water treatment processes. Conventional water treatment consists of potassium permanganate treatment for iron and manganese, sedimentation for sand removal, and sand/multi-media filtration;

this cost-effective, proven method of treatment is used throughout the modern world.

WATER QUALITY TABLES

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The following series of tables lists all of the drinking water contaminants detected during the calendar year of this report. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report.

The EPA or the State requires monitoring for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently.

PUBLIC WATER SYSTEM #090605017, 1 GROUND WATER SOURCE AND 1 SURFACE WATER SOURCE

DISTRICT A (CANAL ROAD, OOS ROAD, PARADISE MTN ROAD, IPAII, ASHAA, EAGLE WAY)

Contaminants	MCLG	Action Level	Your water	Range		Sample Date	A.L. Exceeded	Typical Source				
Lead and Copper Rule												
Copper Units: ppm - 90th percentile	1.3	1.3	0.085	0 sites over Action Level		2020	No	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives				
Contaminants	MCLG	Action Level	Your Water	Range Low	Range High	Sample Date	Violation	Typical Source				
			Radi	iological Co	ntaminants	5						
Adjusted Alpha (Excl. Radom & U) Units: pCi/L	(Excl. Radom & U)		2.2	N/A	N/A	2019	No	Erosion of Natural Deposits				
Uranium (combined) Units: ppb	combined)		16.4	N/A	N/A	2019	No	Erosion of Natural Deposits				

PUBLIC WATER SYSTEM #090605017 CONT...

DISTRICT A (CANAL ROAD, OOS ROAD, PARADISE MTN ROAD, IPAII, ASHAA, EAGLE WAY)

Contaminants	MRDLG	MRDL	Your Water	Range Low	Range High	Sample Date	MRDL Exceeded	Typical Source		
	Ā	ii.	=	Disinfecta	ints	nice -				
Chlorine Units: ppm	4	4	29	0.02	1.4	2021	No	Drinking water additive used for disinfection		
Contaminants	MCLG	MCL	Your water	Range Low	Range High	Sample Date	Violation	Typical Source		
			Disin	fection By-	Products					
Five Halo acetic Acids (HAA5) Units: ppb	Acids (HAA5)									
Total Trihalomethanes (TTHMs) Units: ppb	N/A	80	22.9	10.89	22.86	2021	No	By-Product of Drinking Water Chlorination		
			Inorg	ganic Conta	aminants					
Arsenic Units: ppb	0	10	6.2	2.8	9.1	2021	No	Erosion of natural deposits; runoff from orchards; glass and electronics production waste		
Barium Units: ppm	2	2	0	N/A	0	2019	No	Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits		
Sodium Units: ppm	N/A	N/A	59	N/A	N/A	2019	No	Erosions of Natural Deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories		

PUBLIC WATER SYSTEM #090605080, 1 SURFACE WATER SOURCE

DISTRICT B (KUMEYAAY WAY, NYEMII PASS, KUNYAAW PATH, MORNING STAR, KUNYAAW COURT, SOUTH SAN PASQUAL)

Contaminants	MRDLG	MRDL	Your Water	Range Low	Range High	Sample Date	MRDL Exceeded	Typical Source				
	Disinfectants											
Chlorine Units: ppm	4	4	0.6642	0.1	1.9	2021	No	Drinking water additive used for disinfection				
Contaminants	MCLG	MCL	Your water	Range Low	Range High	Sample Date	Violation	Typical Source				
			Disir	fection By-	Products							
Five Halo acetic Acids (HAA5) Units: ppb	N/A	60	11.9	N/A	N/A	2021	No	By-Product of Drinking Water Chlorination				
Total Trihalomethanes (TTHMs)	N/A	80	17.7	N/A	N/A	2021	No	By-Product of Drinking Water Chlorination				

Contaminants	MCLG	Action Level	Your water	Range	Sample Date	A.L. Exceeded	Typical Source
			Le	ead and Copper Rule			
Copper Units: ppm - 90th percentile	1.3	1.3	0.145	0 sites over Action Level	2020	No	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

PUBLIC WATER SYSTEM #090605168

DISTRICT C (DURO ROAD), 1 GROUND WATER SOURCE

Contaminants	MRDLG	MRDL	Your Water	Range Low	Range High	Sample Date	MRDL Exceeded	Typical Source	
				Disinfecta	ints				
Chlorine Units: ppm	4	4	0.1792	0.1	0.3	2021	No	Drinking water additive used for disinfection	
Contaminants	MCLG	MCL	Your water	Range Low	Range High	Sample Date	Violation	Typical Source	
			Inorg	Inorganic Contaminants					
Fluoride Units: ppm	4	4	0.24	N/A	N/A	2019	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories	
Sodium Units: ppm	N/A	N/A	100	N/A	N/A	2021	No	Erosion of Natural Deposits; saltwater intrusion	

Contaminants	MCLG	Action Level	Your water	Range		Sample Date	A.L. Exceeded	Typical Source			
Lead and Copper Rule											
Copper Units: ppm - 90th percentile	1.3	1.3	0.0615		/er Action vel	2021	No	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives			
Contaminants	MCLG	Action Level	Your Water	Range Low	Range High	Sample Date	Violation	Typical Source			
			Radi	iological Cc	ntaminants	5					
Adjusted Alpha 0 15 (Excl. Radom & U) Units: pCi/L			4	2.505	4	2020	No	Erosion of Natural Deposits			
Uranium (combined) Units: ppb	combined)		6	ND	5.96	2020	No	Erosion of Natural Deposits			

SPECIAL EDUCATION STATEMENTS



Additional Information for Lead:

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. PWS system 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 at 1-800-426-4791 or at http://www.epa.gov/your-drinking-water/basic-information-about-lead-drinking-water.

Additional Information for Arsenic:

While your drinking water meets the EPA standard for arsenic, it does contain low levels of arsenic. The EPA standard balances the current understanding of arsenics possible health effects againts the cost of removing aresnic from drinking water. The EPA continues to research the health effects of low levels of arsenic which is mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

MICROBIOLOGICAL TESTING

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We are required to test your water regularly for signs of microbial contamination. Positive test results could lead to follow-up investigations called assessments and potentially the issuace of public health advisories. assessments could lead to rquired corrective actions. The information below summarizes the results of tests.

System Tested	Calendar Year	Sampling Requirements	Sampling Conducted	Total E. coli Positive	Assessment Triggers	Assessments Conducted
090605017	2021	2 Samples Due Monthly	12 out of 12	0	0	0
090605080	2021	1 Samples Due Monthly	12 out of 12	0	0	0
090605168	2021	1 Samples Due Monthly	12 out of 12	0	0	0

During the year 2020 we were required to conduct Level 1 Assessment. One Level 1 Assessment was completed.

Definitions

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.

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.

SIGNIFICANT DEFICIENCIES



Sanitary deficiencies are defects in a water system's infrastructure, design, operation, maintenance, or management that cause, or may cause interruptions to the "multiple barrier" protection system and adversely affect the system's ability to produce safe and reliable drinking water in adequate quantities.

The following is a listing of significant deficiencies that have yet to be corrected. Your public water system is still working to correct these deficiencies and interim milestones are shown, as applicable.

Deficiency Title: Well Casing

Date Identified: 11/26/2019 Overall Due Date: 3/31/2020

Deficiency Description: The well casing is only about one inch above the ground which makes it susceptible to inundation during heaving rains.

Corrective Action Plan: The well casing should be raise to 18 inches above the concrete floor.

Deficiency Title: Well Vent

Date Identified: 11/26/2019 Overall Due Date: 3/31/2020

Deficiency Description: The well is not equipped with a vent.

Corrective Action Plan: Proper engineering practices require that a well casing be vented to atmosphere to allow equalization of pressure with the atmosphere and to prevent accumulations of hazardous gases such as hydrogen sulfide or methane. If such gases are present, the vent should terminate outside of any well house or confined space. The well vent should be faced downward and covered with a corrosion resistant insect screen to prevent entry of contaminants or vermin.

Deficiency Title: Well House

Date Identified: 11/26/2019 Overall Due Date: 3/31/2020

Deficiency Description: The well house is downslope from a nearby hill and could be inundated with water in heavy rains. The well house is also not secured against vandalism.

Corrective Action Plan: We understand that funding is available to rebuild the wellhouse. When it is rebuilt, proper drainage should be installed to divert rain water runoff from entering the structure and the well house should be hardened against vandalism, including fencing.

HEALTH BASED VIOLATIONS

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The table below list the health based violations the water system incurred during the last calendar year. While you should have received notification of the violation at an earlier date, we are required to list them in this report.

System	Contamination	Type of violation	Begin/End	Steps Taken to	Return to	Return	Action
Tested	Name		Date	Correct Violation	Compliance	Date	Comment
090605017	Revised total Coliform Rule (RTCR)	Failure to conduct routine monitoring	7/1/2021- 7/31/2021	Following Month Reporting of all required results			

What should I do as a consumer?

There is nothing you need to do at this time.

What is being done by the utility?

We will work with our regulatory official to conduct all required contaminant monitoring as directed.

DEFINITIONS

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Unit Definitions:

ppm= Parts per million, or milligrams per liter (mg/L)

ppb = parts per billion

N/A =Not Applicable

ND = not detectable at testing limit

NR = monitoring not required, but recommended

MCGL = Maximum Contaminant Level Goal: The highest level of contaminant in drinking water below which there is no known or expected risk to health. MCLG's allow for a margin of safety.

MCL = Maximum Contaminant Level. Highest level allowed in drinking water by EPA. MCL's are set as close to the MCLG's as feasible using the best available treatment technology

TT = Total Technique: A required process intended to reduce the level of a contaminant in drinking water

AL = Action Level: The concentration of a contaminant which, if exceeded, trigger treatment or other requirements which a water system must follow.

Test Result Updates:

Public Water Systems A and B are monitored monthly for bacteriological contaminants. None of the samples tested positive for Total Coliform or Fecal Coliform. The tables provided list all the drinking water contaminants that were detected in the domestic water supply in 2017. No chemical contaminants exceeded EPA health-based criteria (MCLs).

HOW DO I GET INVOLVED?

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Please feel free to contact the number provided below for more information or for a translated copy of the report if you need it in another language.

For more information please contact:

John Flores.

Domestic Water Manager

johnf@sanpasqualtribe.org

(760) 651-5141







16400 Kumeyaay Way PO Box 365 Valley Center, CA, 92082 www.sanpasqualbandofmissionindians.org

PARAMETER (a)	Units	MCL [MRD L]	PHG (MCLG) [MRDL G]	Treat Pla	nner ment ant Results	Trea ⁻ Pla	Oaks tment ant Results	Carls Desali Pla Test R	nation ant		Sources in
				Range	Average	Range	Average	Range	Average		9
PRIMARY STAND	ARDS	– MAN	DATORY	HEALTH	RELAT	ED STA	NDARD:	S			
Combined Filter Effluent Turbidity	NTU %	TT = 1 TT(b)	NA	Highest %<0.3	0.09 100%	0.02- 0.05 % <0.1	0.03 100%	Highest % <0.1	0.09 100%	Soil run	off
INORGANIC CHEM Arsenic	ppb	10	0.004	ND	ND	2.1	2.1	ND	ND	erosion, electron	
Nitrate (as N) (i)	ppm	10	10	ND	ND	ND 0.5	ND	ND	ND	Runoff a from fer	ion wastes. and leaching tilizer use; ; natural erosion
Fluoride Treatment-related	ppm	2.0	1	0.6- 0.9	0.7	0.6- 0.7	0.6	ND- 0.799	0.649	Water a dental h	dditive for
RADIOLOGICAL Uranium	pCi/L	20	0.43	ND-2	2	2.3- 3.0	2.6	ND	ND	deposits	
DISINFECTION BY-	PRODU ppb	JCTS, D 80	ISINFECT <i>A</i> NA	NT RESI			INFECTION Sy		RODUC	TS PREC	
Trihalomethanes	ppb	00	1471		Range	VVD DISti		ghest LRA	\A	drinking	water
(e) VCMWD Haloacetic Acid (d)	ppb	60	NA			WD Distr	ibution Sy	22 stem hest LRA	١.٨	chlorina By-proc drinking	luct of
VCMWD Total	ppm	[4.0]	[4.0]		3.6-17.0 VCM		ibution Sy	12	1 /4	chlorina	tion
Chlorine Residual (Chloramines)	ррпп	[4.0]	[4.0]		Range 1.5-2.2	WD DISti		verage 1.94			tant added
	ONTAMINANTS MONITORED BUT NOT DETECTED										
VCMWD Total Coliform Bacteria	%	5.0	0		Range	WD Distr		Average			y present in ronment
(c) (m) VCMWD Fecal	CFU	0	0		ND-1 VCM	WD Distr	ibution Sy	ND stem		Human	and animal
Coliform Bacteria and E. Coli (c) (m)	/mL	Ŭ	Ü	Range ND				Average		fecal wa	
INORGANIC CHEM	ND ND										
VCMWD Copper (f)	ppm	AL = 1.3	0.3			WD Distr	ibution Sy				corrosion of old plumbing;
Triennial 2019		1.3		90	Range	tile		Average 0.318		natural	
VCMWD	ppb	AL =	0.2				l ibution Sy			erosion Internal	corrosion of
Lead (f) Triennial 2019		15			Range			Average		househo	old plumbing; denosit
					th Percen	tile		ND		erosion	•
SECONDARY STA	ANDAF	RDS – A	ESTHETI	C STANI Range	DARDS Average	Range	Average	Range	Average	ı	
Chloride	ppm	500	NA	92-97	94	99	99	54-96	73		eaching from
Specific Conductance	μs/	1600	NA	918- 956	937	940	940	301.4- 494.9	406.4	seawate	deposits; er influence nces that form
Sulfate	ppm	500	NA	197-	209	220	220	10.0-	12.3	seawate	er influence eaching from
				221				14.0		natural o	deposits; al waste
Total Dissolved Solids(TDS)	ppm	1000	NA	557- 604	610	610	300	140- 278	209	Runoff/l natural	eaching from deposits; er influence
OTHER PARAME Alkalinity (as CaCO3)		NA	NA	121-123	122	120	120	46-92	63		
Boron	ppm ppb [ppm]	NL= 1000	NA NA	NA	140	120	120	[0.40 - 0.81]	[0.59]	Runoff/le	eaching from leposits;
Calcium	ppm	NA	NA	62-64	63	67	67	16.72-	20.63	industria	
Corrosivity (k)	Al	NA	NA	NA	12.4	13	13	34.92 10.3 -	10.54		al balance in
(as Aggressive Index) Corrosivity (g) (as	SI	NA	NA	.061 -	0.62	0.74	0.74	0.04 -	0.24	tempera Element	fected by ture, other factors al balance in
Saturation Index) Hardness (CaCO ₃)	ppm	NA	NA	0.62 264-	268	270	270	0.49 41.8 -	51.56	tempera Runoff/le	fected by ture, other factors eaching from
				273				87.3		polyvale generally calcium	leposits; sum of nt cations, / magnesium & present in water
Magnesium	ppm	NA	NA	23-25	24	24	24	0.86 - 1.2	1.06	Runoff/le natural d	eaching from leposits
Ph	Units	NA	NA	8.1 - 8.2	8.1	8.1- 8.2	8.2	8.10 - 8.70	8.51	0.11	
Potassium	ppm	NA	NA	4.3 - 4.7	4.5	4.6	4.6	0.000 - 61.441	10.95	naturally	sent in the water, occurring
Sodium	ppm	NA	NA	92-95	94	93	93	53-67	59	Various made so	natural and man- urces
Total Organic	ppm	TT	NA	2.2-	2.5	2.3- 2.7	2.5	NA	NA		natural and man-
Carbon (TOC) VCMWD Color	Units	15	NA	2.7			ibution Sy		I	Naturall	y occurring materials
					Range <1-2			Average <1		Ŭ	
VCMWD Odor Threshold (h)	TON	3	NA		Range	WD Distr	ibution Sy	Average		Naturally occurring organic materials	
VCMWD Turbidity (b)	NTU	5	NA		<1 VCM Range	WD Distr	ibution Sy	<1 vstem Average		Soil runoff	
	<0.10-0.22 0.10										
UCMR 4(j) (Unregulat	ed Cont	aminant I		Rule)			[DLR	Tost Posuits			
PARAMETER			Units		MCL		MRL		Test Results Range Average		
Manganese Total ICA	P/MS		ug/l		NA		0.4			ND - 8.5 3.7	
Total HAA5			ug/l		NA		0.2		3.5 - 1	3.5 - 14 7.1	
Total HAA6Br			ug/l		NA		0.2		2.9 - 17 7.9		
Total HAA9		ug/l NA 0.2 5.5 - 26 13.2									
10(0) 1 1/1/10			ug/i		INA		0.2		J.J - 2		13.4

2021 FOOTNOTES

- (a) Data shown are annual averages and ranges.
- (b) As Primary Standards, the turbidity level of the filtered water shall be less than or equal to 0.3 NTU in 95% of the measurements taken each month and shall not exceed 1.0 NTU for more than one hour. Turbidity is a measure of the cloudiness of the water and is an indicator of treatment performance.
- (c) Total coliform MCLs: No more than 5.0% of the monthly samples may be total coliform positive. When collecting <40 samples, if two or more are total coliform positive, the MCL is violated. The MCL was not violated.
 - E. coli MCLs: The occurrence of 2 consecutive total coliform positive samples, one of which contains fecal coliform/E. coli, constitutes an acute violation. Standards and results are based on distribution system monthly sampling averages. Compliance is based on distribution system sampling from all pressure zones. 416 samples were analyzed in 2021. The MCL was not violated.
- (d) Calculated from the average of quarterly samples. Compliance is based on a running annual average of 16 distribution system samples. VCMWD was in compliance with the Stage 2 Disinfection By-Products (D/DBP) Rule.
- (e) Calculated from the average quarterly samples. Compliance is based on a running annual average of 16 distribution system samples. VCMWD was in compliance with the Stage 2 Disinfection By-Products (D/DBP) Rule.
- (f) Lead and copper are regulated in a Treatment Technique under the Lead and Copper Rule. The lead and copper results for 2019 are from 30 water samples collected from the consumers' tap throughout the VCMWD distribution system. The federal action level, which triggers water systems into taking treatment steps if exceeded in more than 10% of the tap water samples, is 1.3 ppm for copper and 15 ppb for lead. There were zero samples that exceeded the action level.
- (g) Positive SI index = non-corrosive; tendency to precipitate and/or deposit scale on pipes
 Negative SI index = corrosive; tendency to dissolve calcium carbonate.
- (h) Results are from VCMWD's laboratory's flavor-profile analysis that detects odor
- occurrences more accurately.

 (i) State MCL is 45 ppm as nitrate, which equals 10 ppm as (N).
- (i) In 2019, the USEPA required VCMWD to test for a specific list of compounds.

2021 Water Quality Data - Valley Center Municipal Water District

Our water quality information for 2021 is listed in the tables on this page. Contained in the table are the test results for clarity and microbiological safety. Also included are results for 10 inorganic and secondary standards (aesthetic). Finally, the table includes results for 11 "other parameters" for which there are no current state or federal standards.

What do all the abbreviations mean?

A number of abbreviations are contained on the Water Quality tables which are important to your understanding of the data, and those are:

Maximum Contaminant Level or 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 or 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.

Maximum Residual Disinfection Level or MRDL.

Maximum Residual Disinfection Level Goal or MRDLG.

Public Health Goal or 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.

Primary Drinking Water Standard or **PDWS:** MCLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

Secondary Drinking Water Standards (SDWS): MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWS do not affect the health at the MCL levels.

Regulatory Action Level (AL): The concentration of contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

2021 ABBREVIATIONS

A = Absence

AI = Aggressive Index AL = Action Level: the co

 Action Level: the concentration of a contaminant which, if exceeded, triggers treatment or other requirements

that a water system must follow

CFU/mL = Colony-forming units per milliliter

DBP = Disinfection Byproducts

DLR = Detection Limits for purposes of Reporting

HPC = Heterotrophic Plate Count

LRAA = Locational Running Annual Average

MCL = Maximum Contaminant Level

MCLG = Maximum Contaminant Level Goal

MRDL = Maximum Residual Disinfectant Level

MRDLG = Maximum Residual Disinfectant Level Goal

MRL = Method Reporting Limit
N = Nitrogen
NA = Not Applicable
ND = Non Detectable
NL = Notification Level

NTU = Nephelometric Turbidity Units is a measure of the

suspended material in water = Presence

pCi/L = Pico Curies per liter (a measure of radiation)

PHG = Public Health Goal
ppb = Parts per Billion
ppm = Parts per Million
ppt = Parts per Trillion
SI = Saturation Index
TOC = Total Organic Carbon
TON = Threshold Odor Number

Treatment Technique: a required process intended to reduce the level of a contaminant in drinking water

 μ S/cm = Micromhos per centimeter

Important! 2021 Water Quality Report

If appropriate, please post this report so that others may review its contents. Additional copies may be obtained by contacting the District at (760) 735-4500.

VCMWD is required to report the results on this CCR in order to comply with State of California reporting requirements.

- (k) Al <10.0 = highly aggressive and very corrosive water Al >12.0 = non-aggressive water
- Al (10.0 11.9) = moderately non-aggressive water
- Metropolitan Water District was in compliance with all provisions of the State's Fluoridation System Requirements. For additional information, visit the Health Department's fluoridation website: https:// www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/ Fluoridation.html
- (m) VCMWD had one total coliform present sample in 2021. As a result, the MCL was not violated. Samples are collected every Monday, and the number collected per month is either 32 or 40.
- (n) Constituent categories identified as VCMWD indicate that water quality testing was conducted by VCMWD. Other constituent sampling was conducted by the District's wholesale suppliers, the MWD and the SDCWA.



SAN PASQUAL ENVIRONMENTAL DEPARTMENT



Ways to Save Water

WHY CONSERVE WATER?

Fresh water is a scarce resource and is heavily effected by the way we choose to use it. Our future sustainability depends on each of us committing to using water smartly now.

California is currently experiencing severe drought conditions so we should do our best as a community to reduce our overall water usage!



- Take shorter showers
- Turn off water while brushing your teeth
- Hand wash dishes once a day using the least amount of detergent as possible
- Rinse vegetables and fruits in a sink or pan filled with water instead of running water
- Use Native Landscaping and drought- tolerant planting techniques
- Adjust sprinklers and watering times to only water what is necessary







