## WHITE FENCE FARMS MUTUAL WATER CO., INC.

41901 – 20<sup>th</sup> Street West ♦ Palmdale, CA 93551 Phone: (661) 943-3316 ♦ Fax: (661) 943-3576

Consumer Confidence Report (CCR)

# Annual Water Quality Report For The Year Of 2021

We are very pleased to provide you with this year's Consumer Confidence Report. We want to keep you informed about the excellent water we have delivered to you over the past year. Our goal is and always has been, to provide to you a safe and dependable supply of drinking water. Our water source is ground water and AVEK.

As the Board of Directors of White Fence Farms Mutual Water Company, we are proud to report that our drinking water is safe and meets all federal and state requirements.

Our objective is to continue to provide you with quality water service. Please feel free to give our office a call should you have any questions or concerns.

Roy Kellogg, President Michael Barosh, Vice President Jonathan Beck, Secretary/Treasurer Barbara Kellogg, Director

### 2021 Consumer Confidence Report

### **Water System Information**

Water System Name: White Fence Farms Mutual Water Co.

Report Date: June 2022

Type of Water Source(s) in Use: Ground Water and treated Surface Water

Name and General Location of Source(s): Well 2B- Lancaster

Well 3B- Palmdale

Drinking Water Source Assessment Information: Well 2B- December 2001- Well 2B is considered most vulnerable to activities not associated with contaminants detected in water supply. Metal, plating/finishing/fabricating, hardware/lumber/parts stores, and fertilizer/pesticide application. The source is also considered most vulnerable to the following activities: Automobile, gas stations, septic systems (high density<1 acre) and transportation corridors.

Drinking Water Source Assessment Information: Well 3B- February 2008- Well 3B is considered most vulnerable to the following activities not associated with any detected contaminants: Septic systems (high density<1 acre) and transportation corridors.

Time and Place of Regularly Scheduled Board Meetings for Public Participation: First Tuesday of each month at 6:30pm.

For More Information, Contact: Brindi Hall at 661-943-3316

### **About This Report**

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, 2021 and may include earlier monitoring data.

Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse White Fence Farms Mutual Water Co. a 41901 20th St. West Palmdale, CA 93551 para asistirlo en español.

### Terms Used in This Report

Term	Definition
Level 1 Assessment	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.
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 <i>E. coli</i> MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

Term	Definition
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 (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 (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 (U.S. EPA).
Maximum Residual Disinfectant Level (MRDL)	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 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.
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.
Regulatory Action Level (AL)	The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
Secondary Drinking Water Standards (SDWS)	MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL levels.
Treatment Technique (TT)	A required process intended to reduce the level of a contaminant in drinking water.
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.
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)

# Sources of Drinking Water and Contaminants that May Be Present in Source Water

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.

### Regulation of Drinking Water and Bottled Water Quality

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.

### **About Your Drinking Water Quality**

### **Drinking Water Contaminants Detected**

Tables 1, 2, 3, 4, 5, 6, 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 1. Sampling Results Showing the Detection of Coliform Bacteria

Microbiological Contaminants	Highest No. of Detections	No. of Months in Violation	MCL	MCLG	Typical Source of Bacteria
E. coli	0	0	(a)	0	Human and animal fecal waste

(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 1.A. Compliance with Total Coliform MCL between January 1, 2021 and June 30, 2021 (inclusive)

Microbiological Contaminants	Highest No. of Detections	No. of Months in Violation	MCL	MCLG	Typical Source of Bacteria
Total Coliform Bacteria	0	0	1 positive monthly sample (a)	0	Naturally present in the environment
Fecal Coliform and <i>E. coli</i>	0		0	None	Human and animal fecal waste

<sup>(</sup>a) For systems collecting fewer than 40 samples per month: two or more positively monthly samples is a violation of the total coliform MCL

Table 2. Sampling Results Showing the Detection of Lead and Copper

Complete if lead or copper is detected in the last sample set.

Lead and Copper	Sample Date	No. of Samples Collected	90 <sup>th</sup> Percentile Level Detected	No. Sites Exceeding AL	AL	PHG	No. of Schools Requesting Lead Sampling	Typical Source of Contaminant
Lead (ppb)	9/10/21	10	0	0	15	0.2	0	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	9/10/21	10	.60	0	1.3	0.3	Not applicable	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) Well 2B Well 3B	9/10/19 6/4/19	140 84	110-150 81-94	None	None	Salt present in the water and is generally naturally occurring
Hardness (ppm) Well 2B Well 3B	9/10/19 6/4/19	300 330	260-320 310-350	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 Primary Drinking Water Standard

Chemical or Constituent	Sample	Level	Range of	MCL	PHG	Typical Source
(and reporting units)	Date	Detected	Detections	[MRDL]	(MCLG) [MRDLG]	of Contaminant
Nitrates (ppm)						Run off and
Well 2B	12/14/21	4.5	4.5	10	2.0	leaching from fertilizer use:
Well 3B	Jan-Dec 2021	7.0	6.6 - 7.7	10	2.0	leaching from septic tanks and sewage, erosion of natural deposits
Arsenic(ppb)						
Well 2B	Jan-Dec	8.1	6.9 – 9.3	10	.004	Erosion of natural deposits: run off from orchards, glass & electronics production wastes
Uranium (pCi/L)						
Well 2B	12/14/21	6.3	6.3	20	10	Erosion of natural deposits
Well 3B	6/4/19	1.2	1.2	20	10	natural deposits
Gross Alpha						
Well 2B	12/14/21	ND	ND	15	15	Erosion of
Well 3B	12/8/20	4.5	4.5	15	15	natural deposits
and the second s	03.000.000		Control of the Contro	30 000	55 Sale	
TTHM (ppb)	Jan-Dec 2021	11.74	6.1-28.1	80	1.0	Byproduct of drinking water disinfection
HAA5 (ppb)	Jan-Dec 2021	3.75	1.5-6.8	60	1.0	Byproduct of drinking water disinfection

Hexavalent Chromium (ug/L) Well 2B Well 3B	9/10/19 3/28/17	2.7 4.2	2.7 3.3-5.1	No MCL No MCL	No PHG NO PHG	Discharge from electroplating, factories, leather tanneries, chemical synthesis, refractory production and textile manufacturing facilities, erosion of natural deposits
Fluoride Well 2B	9/10/19	.34	24	2.0	0.1	Erosion of natural
Well 3B	6/4/19	.22	.34 .22	2.0	0.1 0.1	deposits, water additive which promotes strong teeth, discharge from fertilizer and aluminum factories
Perchlorate Well 2B	0/40/40	ND	NID		4.0	_
Well 3B	9/10/19 6/15/20	ND ND	ND ND	6	4.0	Perchlorate is an inorganic chemical used in solid rock propellant, fireworks, explosives, flares, matches, and a variety of industries. It usually gets into drinking water as a result of environmental contamination from historical aerospace or other industrial operations that use, store, or

	dispose of
	perchlorate and
	its salts

Table 5. Detection of Contaminants with a Secondary Drinking Water Standard

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	SMCL	PHG (MCLG)	Typical Source of Contaminant
Chloride (ppm) Well 2B	9/10/19	87	87	500	1.0	Run off/leaching from natural
Well 3B	6/4/19	74	74	500	1.0	deposits; seawater influence
Sulfate (ppm) Well 2B Well 3B	9/10/19 6/4/19	250 160	250 160	500 500	.05 .05	Run off from natural deposits; seawater influence
TDS Well 2B Well 3B	Jan-Dec 2021 Jan-Dec 2021	752.5 647.5	730-770 590-680	1000 1000	1000 1000	Naturally occurring organic materials
Specific Conductance(E.C) Well 2B	Jan- Dec 2021 Jan-Dec	1200	1100-1200	1600	1600	Substances that form ions when in water; seawater influence
Well 3B	2021	1000	1000	1600	1600	

**Table 6. Detection of Unregulated Contaminants** 

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notification Level	Health Effects
Vanadium (ppb) Well 2B Well 3B	9/10/19 6/4/19	14 5	14 5	50 50	Vanadium exposures have resulted in developmental and reproductive effects in rats

		Boron exposures have resulted in decreased fetal weight (developmental effects) in newborn rats
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### 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).

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. White Fence Farms Mutual Water Co. 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. [Optional: 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 <a href="http://www.epa.gov/lead">http://www.epa.gov/lead</a>.

Additional Special Language for Nitrate: Nitrate in drinking water at levels above 10mg/L is a health risk for infants of less than six months of age. Such nitrate levels in drinking water can interfere with the capacity of the infant's blood to carry oxygen, resulting in serious illness; symptoms include shortness of breath and blueness of the skin. Nitrate levels above 10mg/L may also affect the ability of blood to carry oxygen in other individuals, such as pregnant women and those with specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should ask advice from your health care provider.

Additional Special Language for Arsenic: While your drinking water meets the federal and state standards for arsenic, it does contain low levels of arsenic. The arsenic standard balances the current understanding of arsenic's possible health effects against the cost of removing arsenic from drinking water. The U.S. Environmental Protection Agency continues to research the health effects of low levels of arsenic, which is 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.

Additional Special Language for State Revised Total Coliform Rule (RTCR). This Consumer Confidence Report reflects changes in drinking water regulatory requirements during 2021. These revisions add the requirements of the federal RTCR, effective since April 1, 2016, to the existing state Total Coliform Rule. The revised rule maintains the purpose to protect public health by ensuring the integrity of the drinking water distribution system and monitoring for the presence of microbials (i.e., total coliform and E. coli bacteria). The U.S. EPA anticipates greater public health protection as the rule requires water systems that are vulnerable to microbial contamination to identify and fix problems. Water systems that exceed a specified frequency of total coliform occurrences are required to conduct an assessment to determine if any sanitary defects exist. If found, these must be corrected by the water system. The State RTCR became effective July 1, 2021.

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

Table 7. Violation of a MCL, MRDL, AL, TT or Monitoring Reporting Requirement

Violation	Explanation	Duration	Actions Taken to Correct Violation	Health Effects Language
Arsenic Violation Well 2B	Due to a water main break in the Ave. M freeway overpass in Dec. 2018, Well 2B shut down, decreasing the volume of pumping. This resulted in the arsenic concentration level to rise higher than the required MCL. This violation affected only the customers east of the freeway.	March 2019- June 2020	Notifications were sent to the affected customers every quarter the arsenic was above the MCL. Well 2B has been pumping normal volumes of water since September 2019 while White Fence Farms has been exploring different corrective actions. Arsenic levels have been below the MCL since June 2020 to current.	Some people who drink water containing arsenic in excess of the MCL over many years may experience skin damage or circulatory system problems, and may have an increased risk of getting cancer.

For Water Systems Providing Groundwater as a Source of Drinking Water

Table 8. Sampling Results Showing Fecal Indicator-Positive Groundwater Source Samples

Microbiological Contaminants (complete if fecal- indicator detected)	Total No. of Detections	Sample Dates	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
E. coli	0		0	(0)	Human and animal fecal waste
Enterococci	0		TT	N/A	Human and animal fecal waste
Coliphage	0		П	N/A	Human and animal fecal waste

Summary Information for Fecal Indicator-Positive Groundwater Source Samples, Uncorrected Significant Deficiencies, or Violation of a Groundwater TT

Special Notice of Fecal Indicator-Positive Groundwater Source Sample: NONE

Special Notice for Uncorrected Significant Deficiencies: NONE	

### Table 9. Violation of Groundwater TT

Violation	Explanation	Duration	Actions Taken to Correct Violation	Health Effects Language
Not Applicable				

### For Systems Providing Surface Water as a Source of Drinking Water

### Table 10. Sampling Results Showing Treatment of Surface Water Sources

Treatment Technique (a) (Type of approved filtration technology used)	[Enter Treatment Technique]
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 NTU in 95% of measurements in a month.
	2 – Not exceed NTU for more than eight consecutive hours.
	3 – Not exceed Be Exceeded NTU at any time.
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.	
Highest single turbidity measurement during the year	

Number of violations of any surface	
water treatment requirements	

- (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

### Table 11. Violation of Surface Water TT

Violation	Explanation	Duration	Actions Taken to Correct Violation	Health Effects Language
Not Applicable				

### Summary Information for Operating Under a Variance or Exemption

NONE

# Summary Information for 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 assessments.

During the last year, White Fence Farms was not required to conduct any Level 1 assessments.

During the last year, 0 level 2 assessments were required to be completed for White Fence Farms.

### Level 2 Assessment Requirement Due to an E. coli MCL Violation

*E. coli* are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a greater health risk for infants, young children, the elderly, and people with severely compromised immune systems. We found *E. coli* bacteria, indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) identify problems and to correct any problems that were found during these assessments.

White Fence Farms was not required to complete a Level 2 assessment because no E. coli was found in our water.

# 2021 Annual Water Quality Report - Los Angeles County System Antelope Valley-East Kern Water Agency

The Antelope Valley-East Kern Water Agency provides treated surface water as a source of drinking water.

Treatment technique: Conventional EPA Turbidity of the filtered water must: EPA Turbidity Performance Standards: Turbidity of the filtered water must: 1. Be less than or equal to 0.30 NTU in 85% of measurements in a month.

2. Not exceed 1 NTU at any time.

Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1: Highest single turbidity measurement during the year: 0.18 NTU Percentage of samples < 0.30 NTU: 100%

NONE The number of violations of any surface water treatment requirements:

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.

The Antelope Valley-East Kern Water Agency also provides groundwater as a source of drinking water.

Treatment technique: Chlorination

EPA Groundwater Rule: AVEK meets the requirements of the Groundwater Rule by providing a minimum of 4-log reduction of viruses by continously providing a minimum free chlorine residual of 0.5 mg/L leaving the clearwell. Lowest single free chlorine residual measurement during the year:

Number of violations of the Groundwater Rule:

	System Results Range Average					Wells	ND ND ND	ND ON	ND-22 4.8	N ON			NO NO			0.12-0.34 0.18	QN QN							ND-7.0 0.58		QN QN	i
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	Ž			RESULTS	Raw Influent	State Water Project	Naliga		2.7-5.6											0.54-0.77							There is currently no MCL for hexavalent chromlum. The previous MCL of 0.010 mg/L was withdrawn on September 11, 2017.
				RES	Quartz Hill Plant	Effluent (CWK)	ND	Q.	2	2	2	Q	Q.	Q.	Q.	Q.	Q	2	2	0.85	Q.	0.85	Q.	S	2		wn on Septen
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	Type of Sample(s)	Distribution Distribution				To to the case of	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium (Total)	Chromium (Hexavalent)	Cyanide	Fluoride	Lead	Mercury	Nickel	Nitrate (as N)	Nitrite (as N)	Nitrate+Nitrite (as N)	Perchlorate	Selenium	Thallium	Asbestos	

		· Bank	Wells	Average	Q.	92	72
		Water	We	Range	Q.	63-93	54-92
		nfluent	er Project)	Average	Q.	27	25
		Raw In	(State Water	Range			
S		IIII Plant	(CWR)	Range Average	S	26	59
STANDARD	JLTS	Quartz F					
SENERAL PHYSICAL AND SECONDARY STANDARDS	RESU	e Plant	(CWR)	Range Average	Q.	48	37
CAL AND SE		Eastside Plant	Effluent	Range	ND		
RAL PHYSIC		Acton Plant	(CWR)	Range Average Ran	2	29	96
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Antelope Valley-East Kern Water Agency 2021 Annual Water Quality Report - Los Angeles County System

Raw Influent Water Bank State Water Project) Wells	Range Av	10 <5 <5 ND ND ND	ND 280		5.0-15		8.8 7.6-7.8	QN	59 38-62	490 550-850 54 44-75	C CN	2	250 330-500	1.8 0.05-0.10	76			6F = 100 C	Water Ban	(State Water Project) Range Average	t:ON	Q Q Z	4.8-6.9 6.0	_		SULT	State water Project water bank wells Average Range Average	2		QN QN	2 5	2	2		2	2				Q		2
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Acton Plant   Ffluent (CWR)	Average	\$ <del>8</del>	28	S 2	6.4	8		2	73	560	26 N	2 2	300	0.05	63	e 9 9	כוכיעם	ZADIOI N							VOLATILE																	
	Range						6.8-7.5	2						0.02-0.15					CHO			0.35	0.43	0.05			PHG	1000	0.1	0.3	ω <del>C</del>	2 2	009	0.0 4.0	5.0	9	0.15	100	4	300	13	0.5
707	DLR	20		100		50	-	10		C	 	- <sub>(C)</sub>		C	2				α 2	6	o 4	1 000		-			DLR	0.5	0.5	0.5	0.0 0.7	0.5	0.5	0.5		0.5	0.5	0.5	0.5	0.5	ر د د	0.5
	MCL	15 1000	0.5	no standard 300	no standard	20	3 no standard	100	no standard	1600	250	- rc	200	5	no standard	no standard no standard no standard			OW	4	20 2	8 20 000	20				MCL	200	~	S)	ນ ແ	о го	009	0.5		ည ်	- c	S 9	Ľ	300	13	100
	Units	Units ug/L	mg/L	mg/L	mg/L	Hg/L	Units	Hg/L	mg/L	soumh	mg/L	אלון א	mg/L	Units	mg/L	mg/L mg/L mg/L			- igi			POI/L		pCi/L			Units	µg/L	µg/L	µg/L	µg/L	Hg/L	hg/L	µg/L	Hg/L	Hg/L	μg/L	Hg/L	µg/L	Hg/L	µg/L	Hg/L
	Parameter	Color	Foaming Agents (MBAS)	Hardness (Total) as CaCO3	Magnesium	Manganese	Odor @ 60 C	Silver	Sodium	Specific Conductance	Sulfate This count (Bolon)	Methyl tert-Bityl Fther (MTRF)	Total Dissolved Solids	Turbidity	Zinc Total Alkalinity (as CaCO3)	Bicarbonate Alkalinity(as HCO3) Carbonate (as CO3) Hvdroxide (as OH)			Somoto	Calalied	Gross Alpha Gross Beta	Strontium 90	Uranium Radium 228	Radium 226			Parameter	1,1,1-Trichlorethane (1,1,1-TCA)	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane (1,1,2-TCA)	1,1-Dichloroethane (1,1-DCA)	1.2.4-Trichlorobenzene	1,2-Dichlorobenzene (o-DCB)	1,2-Dichloroethane (1,2-DCA)	1,z-Dichloroproparie	1,4-Dichlorobenzene (p-DCB)	Benzene	carbon tetracinoride cis-1,2-DCE)	cis-1,3-Dichloropropene Dichloromethane (Methylane Chloride)	Ethylbenzene	Methyl-tert-butyl ether (MTBE)	Styrene

# Antelope Valley-East Kern Water Agency 2021 Annual Water Quality Report - Los Angeles County System

State Water Project Water Bank Wells  Average ND	State Water Project Water Bank Wells  Range Average Average  ND N	
PHG 0.06 150 60 1.7 1300 4000 0.05 1800	PHG  0.015  0.007  0.007  0.007  0.007  0.003  0.008  0.008  0.008  0.009  0.009  1	0.05
01.5 0.5 0.5 0.5 0.5 0.5 0.5	0.5 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	5 1 0.005
MCL 5 150 10 150 1200 0.5 1750	MCL 18 18 10 10 10 10 10 10 10 10 10 10 10 10 10	30 50 0.005
Units 1971 1971 1971 1971 1971 1971 1971 1971	Units  1971	Pg/L Hg/L Hg/L
Parameter  Tetrachloroethylene (PCE) Toluene trans-1,2-Dichloroethylene (t-1,2-DCE) trans-1,3-Dichloropropene Trichloroethylene (TCE) Trichloroftluromethane (Freon11) Trichlorottifluroroethane (Freon 113) Vinyl Chloride (VC) Xylenes (Total)	Alachlor Atrazine Bentazon Bentazon Bentacon Bentacon Bentacon Bentacon Chlordane 2,4-D Dalapon Dibromochloropropane (DBCP) Di(2-ethylhexyl)adipate Di(2-ethylhexyl)phthalate Di(2-ethylhexyl)phthalate Dicaseb Diquat Endothall Exachlorobenzene Hexachlorocyclopentadiene Lindane Methoxychlor Molinate Oxamyl Pentachlorophenol Picloram Polychlorinated Biphenyls Simazine Thiobencarb (Bolero) Toxaphene	2,3.7,8-TCDD (Dioxin) 2,4,5-TP (Silvex) 1,2,3-Trichloropropane

Type of Sample(s)	Darameter	Unite	MCI AMBDI	0	S INDIV	RESU	LTS
Type of Sarripie(s)			703		MINDE	Range	Average
Distribution	Chlorine (as total CI2)	mg/L	4.0		4	0.30 - 1.68	1.12
Treated Water	Total Organic Carbon (TOC)	mg/L	Treatment Requirement	0.3		0.52 - 1.9	1.2
State Water Project	Total Organic Carbon (TOC)	mg/L	Treatment Requirement	0.3		0.72 - 3.2	1.9
Distribution	Stage 2 D/DBP Rule Total Trihalomethanes	µg/L	**08			3.2 - 54	41#
Distribution	Distribution Stage 2 D/DBP Rule Total Haloacetic Acids µg/L 60**	hg/L	**09			ND - 8.5 4.9 #	#6.4
Treated Water	Bromate	µg/L	10⁺	1.0		ND - 4.5	0.82
** Stage 2 D/DBP Rule Total T	Rule Total THMs and Total HAAs compliance is	s based upon Location	ial Running Annual Averages.				

Stage & United Floral Tribs and Total Tribs compilative is based upon Locational Ruming Aminal Averages.

# Location with the highest TTHM average

\* Compilance is based on the running annual average computed quarterly, of monthly samples, collected at the entrance to the distribution system.

# 2021 Annual Water Quality Report - Los Angeles County System Antelope Valley-East Kern Water Agency

DEFINITIONS and FOOTNOTES:

Plant Effluent, CWR, is finished, treated drinking water.

Raw Water is the Source Water, the California Aqueduct or wells, prior to treatment.

Units: mg/L = milligrams per liter, parts per million (ppm)

ug/L = micrograms per liter, parts per billion (ppb)
pg/L = picograms per liter, parts per quadrillion (ppq)
umhos = micromhos, a measure of specific conductance

pCi/L = pico Curies per liter

< = less than

> = greater than

ND = none detected above the DLR

MCLs are set by the US Environmental Protection Agency or the State Water Resources Control Board as NTU = nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

MRDL: Maximum Residual Disinfectant Level. The level of a disinfectant added for water treatment that may not exceeded at the consumer's tap. close to the PHGs and MCLGs as is economically or technologically feasible.

DLR: Detection Limit for purposes of Reporting.

(DL): Detection limit determined by the Laboratory when no DLR has been established.

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.

MRDLG: Maximum Residual Disinfectant Level Goal. The level of a disinfectant added for water treatment below which there is no known or expected risk to health. MRDLGs are set by the US Environmental

PHG: Public Health Goal. 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 Office of Environmental Health Hazard Primary Drinking Water Standard: Primary MCLs, specific treatment techniques adopted in lieu of primary MCLs, and monitoring and reporting requirements for MCLs that are specified in regulations. Protection Agency.

Secondary Standards: Aestheito standards established by the State Water Resources Control Board.

All analyses performed by ELAP certified laboratories: AVEK Water Agency, Eurofins Eaton Analytical Laboratories, or Eurofins subcontract lab.

### STAGE 2 DISINFECTION BYPRODUCT RULE TOTAL TRIHALOMETHANE (TTHM) QUARTERLY SUMMARY REPORT

Water Sys	stem Name:
-----------	------------

Antelope Valley-East Kern Water Agency

CT	stem	No	
21	Stem	TAO.	

1910045

				ТТНМ (р	pb)			
		Monitori	ng Periods					Г
	MP1	MP2	МРЗ	MP4 (Current Qtr)	LRAA (TTHM)	Meets Standard? (Y/N)	OEL (TTHM)	Exceed OEL (Y/N)
Sample Date (month/date/year):	02/18/21	05/20/21	08/19/21	11/18/21		(1/14)		(1/14)
Vincent Tank	50	54	29	31	41.00	Υ	36.25	N
LVAV	45	18	22	28	28.25	Υ	24.00	N
110th/R	5.5	2.1	5.1	3.2	3.98	Υ	3.40	N
165th	7.4	3.1	9.9	5.5	6.48	Υ	6.00	N
5th/M	24	19	15	24	20.50	Υ	20.50	N
	Limited							

Comments:		

Note: If your OEL is higher than the TTHM MCL at any location in the distribution system, you must conduct an operational evaluation by examining the system treatment and distribution operational practices, including: storage tank operations; excess storage capacity; distribution system flushing; changes in sources or source water quality; treatment changes; and any problems that may contribute to TTHM formation. From this evaluation you must identify what steps could be taken to minimize future OEL exceedances: Please submit your operational evaluation report to the State for review within 90 days.

Name & Title of Person Submitting Report

Jordan Wray - Laboratory Director

Date

1/5/2022

### STAGE 2 DISINFECTION BYPRODUCT RULE HALOACETIC ACIDS (HAAS) QUARTERLY SUMMARY REPORT

Water S	System	Name:
---------	--------	-------

Antelope Valley-East Kern Water Agency

CI.		BIT	
31	ystem	No	

1910045

				HAA5 (	ppb)			3000
		Monitori	ng Periods	•	r i		T T	T T
	MP1	MP2	МР3	MP4 (Current Qtr)	LRAA (HAA5)	Meets Standard?	OEL (HAA5)	
Sample Date (month/date/year):	02/18/21	05/20/21	08/19/21	11/18/21		(Y/N)		(Y/N)
Vincent Tank	4.4	5.1	ND	2.4	2.98	Υ	2.48	N
LVAV	8.5	6.0	ND	5.2	4.93	Υ	4.10	N
110th/R	ND	ND	ND	ND	0.00	Y	0.00	N
165th	ND	ND	ND	ND	0.00	Y	0.00	N
5th/M	3.8	4.3	2.2	3.8	3.53	Y	3.53	N
							# # # # # # # # # # # # # # # # # # #	
				WAS ARREST OF THE PROPERTY OF				
						11.79.79		
				-77				
10012 4 20 V 10								

Comments:			
and distribution operational practices, including quality; treatment changes; and any problems the	t any location in the distribution system, you must storage tank operations; excess storage capacity; nat may contribute to HAA5 formation. From this e erational evaluation report to the State for review	; distribution system flushing; ch evaluation you must identify wh	hanges in sources or source water
Name & Title of Person Submitting Report	Jordan Wray- Laboratory Director	14	Date 1/5/2022

# Quarterly Bromate Report for Disinfection Byproducts Compliance (in µg/L or ppb)

System Name: Antelope Valley-East Kern Water Agency	alley-Eat	st Kern	Water A	gency	5550	Syste	stem No.:		1910045		Year:	2021		Quarter		4TH				
				Town Comments of the Comments																
		20	2020			181	1st Otr.			Zur	2nd Qtr.			3rd	3rd Qtr.			4th	4th Qtr.	
Sample Date (month/date): 1st Q		2nd Q 3rd Q		4th Q	1/13	2/10	3/10	Quarterly Average	4/14	5/12	6/9	Quarterly Average	7//14	8/11	8/6	Quarterly Average				Quarterly Average
Site 1 - QHWTP	1.6	1.3	5.4	3.9	OFF	OFF	OFF	0.0	QN	3.9	3.0	2.3	3.6	4.5	9	2.7	OFF	H-P	9FF	OFF
Site 2 - EWTP	1.3	1.0	3.0	3.3	OFF	OFF	QN	0.0	ND	2	QN	0.0	1.0	2.0	1.6	1.5	OFF	OFF	PF.	OFF
Site 3 - AWTP	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	9FF	OFF	OFF
System Quarterly Average	1.5	1.2	4.2	3.6				0.0		No.		1.2				2.1				0.0
Running Annual Average				2.6				2.2				2.2	2.1 2.1 2.4			1.7				9.8
Meets Standard?* (check box)								Yes V				Yes No No				Yes V			> 2	Yes \( \cdot \)
Identify the sample locations in the table below.	the tab	le below	·																	
Site	Š	Sample Location	ocation				Π		North Control	Comme	ents: Sa	Comments: Samples collected at the entry point to the distribution system for	ollected	at the	entry p	oint to th	e distrik	oution s	vstem f	jo
1 Quartz Hill Clear Well Reservoir	servoir						+			each tre	eatmen	each treatment plant using ozone. "OFF" denotes treatment plant shutdown or	sing ozo	one. "C	FF" de	notes tre	atment	plant s	nutdow	nor
2 Eastside Clear Well Reservoir	ervoir						0.000			ozone	system	ozone system shutdown.	Ę.							
3 Acton Clear Well Reservoir	oir																			1.110
		, The same of the		THE REAL PROPERTY.																

\*If, during the first year of monitoring, any individual quarter's average will cause the running annual average of that system to exceed the standard, then the system is out of compliance at the end of that quarter.

1/5/2022

Date

Signature

Date: \_\_\_\_\_1/5/2022

### Quarterly Report for Disinfectant Residuals Compliance For Systems Using Chlorine or Chloramines

System Name:	Antelope Valley-	East Kern Water A	Agenc	у	System No.:	191004
Calendar Year:	2021				Quarter:	4TH
	1st Quarter				2nd Quarter	
Month	Number of Samples Taken	Monthly Ave. Chlorine Level (mg/L)		Month	Number of Samples Taken	Monthly Ave. Chlorine Level
April		1.10	H	July		(mg/L) 1.16
May		1.04	F	August		1.1
June		1.10	Previous Year	September		1.1
July August September		1.16	eviou	October		1.08
agust August		1.17	۾	November		1.06
September		1.11		December		1.08
October		1.08		January		1.09
November		1.06	<u>_</u>	February		1.05
December		1.08	.≺	March		1.08
January February March	120	1.09	Current Year	April	120	1.10
February	120	1.05	ŏ	May	120	1.11
∄ March	150	1.08		June	150	1.14
Running Annual A	Average (RAA):	1.09	R	unning Annual	Average (RAA):	1.10
Meets standard?		YES		eets standard?		
(i.e. RAA < MRDL o	f 4.0 mg/L as Cl2)	TES	(i.e	e. RAA < MRDL	of 4.0 mg/L as CI2)	YES
pak-252 aray.	3rd Quarter Number of	Monthly Ave.	F		4th Quarter	Monthly Ave.
Month	Samples Taken	Chlorine Level (mg/L)		Month	Number of Samples Taken	Chlorine Level (mg/L)
October November December		1.08	П	January		1.09
November		1.06		February		1.05
December		1.08		March		1.08
January		1.09		April		1.10
February		1.05	ra .	May		1.11
March		1.08	7	June		1.14
April May June		1.10		July		1.15
May		1.11		August		1.18
		1.14		September		1,17
July	120	1.15		October	120	1.16
August	150	1.18		November	150	1.07
September	120	1.17	Щ	December	123	1.16
Running Annual A	verage (RAA):	1.11			Average (RAA):	1.12
/leets standard? i.e. RAA < MRDL of	4.0 mg/L as Cl2)	YES		ets standard? . RAA < MRDL o	of 4.0 mg/L as Cl2)	YES
Comments:						

### Antelope Valley-East Kern Water Agency LA System No. 1910045 **TOC Removal Running Annual Average**

Sample Date	Plant	Alkalinity mgCaCO3/L	Raw TOC mg/L	Treated TOC mg/L	Actual % TOC reduction	Required % TOC reduction	"TOC Removal Ratio actual % /required %
1/13/2021	QHWTP	80.6	2.09	1.27	39.2	25	1.6
1713/2021	EWTP	plant off	2.03	1.27	35.2	23	1.0
10	AWTP	plant off					
	AVVII	plant on					
2/10/2021	QHWTP	89.3	2.05	1.32	35.6	25	1.4
17	EWTP	86.6	2.09	1.39	33.5	25	1.3
3.17	AWTP	plant off	2.00	1.00	00.0	20	1.5
		piant on					
3/10/2021	QHWTP	96.2	2.07	1.35	34.8	25	1.4
	<b>EWTP</b>	97.4	2.10	1.42	32.4	25	1.3
W	AWTP	plant off					
4/14/2021	QHWTP	82.3	2.01	1.35	32.8	25	1.3
116	EWTP	81.0	2.28	1.45	36.4	25	1.5
2.07	AWTP	plant off					
E/40/0004	0101	047					parmen
5/12/2021	QHWTP	81.7	1.42	1.03	27.5	25	1.1
	EWTP	81.5	2.17	1.47	32.3	25	1.3
3.552	AWTP	plant off					
6/9/2021	QHWTP	75.6	1.52	1.06	20.2	O.F.	4.0
0/3/2021	EWTP	75.0	2.07	1.57	30.3 24.2	25 25	1.2
W	AWTP	plant off	2.07	1.37	24.2	25	1.0
	AVVIE	plant on					
7/14/2021	QHWTP	69.3	1.82	1.15	36.8	25	1.5
"	EWTP	70.3	2.16	1.39	35.6	25	1.4
	AWTP	plant off	2.10	1.00	0.00	20	1.54
		pioni on					
8/11/2021	QHWTP	67.0	2.28	1.46	36.0	25	1.4
17.	<b>EWTP</b>	65.0	3.24	1.92	40.7	25	1.6
ir.	AWTP	plant off					
9/8/2021	QHWTP	73.5	1.31	0.91	30.5	25	1.2
"	EWTP	59.4	1.78	1.09	38.8	35	1.1
19	AWTP	plant off					
		100 at 100 1					
10/13/2021	QHWTP	69.9	1.72	1.15	33.1	25	1.3
	EWTP	plant off					
	AWTP	plant off					
11/10/2021	OHWITD	60.7	1.04	0.60	22.7	25	4.0
11/10/2021	QHWTP EWTP	62.7 plant off	1.04	0.69	33.7	25	1.3
	AWTP	plant off					
	AWIII	plant on					
12/8/2021	QHWTP	61.5	0.72	0.52	27.8	25	1.1
"	EWTP	plant off	J., L	0.02	21.0	20	(80.60)
2.002	AWTP	plant off					
		522.0					
	Minimum	59.4	0.7	0.5	24.2		
	Maximum RAA	97.4 76.3	3.2 1.9	1.9 1.2	40.7		
		16 3	1 (1	7 7	33.6		

Running Annual Average (RAA)

1.3

### Title 22 California Code of Regulations, Chapter 15.5, Article 5:

Required percent TOC reduction\*\*

Table 64536.2-A	S	ource Water Alkalini	ty
Raw TOC	0-60	<60 - 120	>120
>2.0 - 4.0	35.0 %	25.0 %	15.0 %
>4.0 - 8.0	45.0 %	35.0 %	25.0 %
>8.0	50.0 %	40.0 %	30.0 %

\*\*If one or more of the section 64636.4(b) 1-6 conditions are met, the system may assign a monthly value of 1 for the TOC removal ratio in lieu of the calculated value. \*\*If one or more of the section 64636.4(b) 1-6 conditions are met, the system may assign a monthly value of List condition when used:

1. The system's source water TOC level, prior to any treatment is less than or equal to 2.0 mg/L

2. The system's treated water TOC level is less than or equal to 2.0 mg/L

3. The system's source water SUVA, prior to any treatment, is less than or equal to 2.0 L/mg-m

4. The system's finished water SUVA is less than or equal to 2.0 L/mg-m

5. A system practicing softening removes at least 10 mg/L of magnesium hardness (as CaCO3)

6. A system practicing enhanced softening lowers alkalinity below 60 mg/L (as CaCO3)