

# 2021 Consumer Confidence Report

## Water System Information

Water System Name: **Pacific Union Elementary School, CA1000194**

Report Date: June 1, 2022

Type of Water Source(s) in Use: Groundwater

Name and General Location of Source(s): Primary Well 1 (1000194-001) near the street, east of Cedar Avenue

Drinking Water Source Assessment Information: By Appointment or by contacting Fresno County Department of Environmental Health Drinking Water Division.

Time and Place of Regularly Scheduled Board Meetings for Public Participation: Call for an appointment.

For More Information, Contact: Annette Machado (Superintendent), Telephone: (559) 834-2533

## 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.

## Importance of This Report Statement in Five Non-English Languages (Spanish, Mandarin, Tagalog, Vietnamese, and Hmong)

Language in Spanish: Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse Pacific Union Elementary School a (559) 834-2533 para asistirlo en español.

Language in Mandarin: 这份报告含有关于您的饮用水的重要讯息。请用以下地址和电话联系 Pacific Union Elementary School, 2064 E Bowles, Fresno, CA (559) 834-2533.

Language in Tagalog: Ang pag-uulat na ito ay naglalaman ng mahalagang impormasyon tungkol sa inyong inuming tubig. Mangyaring makipag-ugnayan sa Pacific Union Elementary School, 9637 Avenue 196, Tulare, CA\_o tumawag sa (559) 834-2533 para matulungan sa wikang Tagalog.

Language in Vietnamese: Báo cáo này chứa thông tin quan trọng về nước uống của bạn. Xin vui lòng liên Pacific Union Elementary School,tại (559) 834-2533 để được hỗ trợ giúp bằng tiếng Việt

Language in Hmong: Tsaab ntawv no muaj cov ntsiab lus tseem ceeb txog koj cov dej haus. Thov hu rau Pacific Union Elementary School ntawm (559) 834-2533 rau kev pab hauv lus Askiv.

## 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.
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 (complete if bacteria detected)	Highest No. of Detections	No. of months in violation	MCL	MCLG	Typical Source of Bacteria
Total Coliform Bacteria	(In a mo.) 0	0	1 positive monthly sample <sup>(a)</sup>	0	Naturally present in the environment
Fecal Coliform or <i>E. coli</i>	(In the year) 0	0	A routine sample and a repeat sample detect total coliform and either sample also detects fecal coliform or <i>E. coli</i>	0	Human and animal fecal waste
<i>E. coli</i> (federal Revised Total Coliform Rule)	(In the year) 0	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 2 – SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER**

Lead and Copper (complete if lead or copper detected in the last sample set)	No. of samples collected	90 <sup>th</sup> percentile level detected	No. sites exceeding AL	AL	PHG	Typical Source of Contaminant
Lead (ppb) 6/16/20	5	2.35	0	15	2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm) 6/16/20	5	0.007	0	1.3	0.17	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)	8/19/10	19.3	19.33	none	none	Salt present in the water and is generally naturally occurring
Hardness (ppm)	8/19/10	34.5	34.5	none	none	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring

\*Any violation of an MC or AL is asterisked. Additional information regarding the violation is provided later in this report.

**TABLE 4 – DETECTION OF CONTAMINANTS WITH A PRIMARY DRINKING WATER STANDARD**

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
Inorganic Contaminants						
Arsenic (ppb)	4/12/21	4	N/A	10	0.004	Erosion of natural deposits; runoff from orchards, from glass and electronics production waste
Fluoride (ppm)	4/12/21	.012	N/A	2.0	1	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate (ppm)	4/12/21 7/19/21	1.2 1.0	N/A	10 (as N)	10 (as N)	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits

Disinfection Byproducts, Disinfectant Residuals, and Disinfection Byproduct Precursors						
Chlorine (ppm)	1/12/21	.71	0.24 – 1.89	4.0 as Cl <sub>2</sub>	4 as Cl <sub>2</sub>	Drinking water disinfectant added for treatment

**TABLE 5 – DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD**

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Iron (ppb)	8/19/10	20	N/A	300	none	Leaching from natural deposits; industrial wastes
Zinc (ppm)	8/19/10	0.02	N/A	5.0	none	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids (TDS) (ppm)	7/12/11	80	N/A	1000	none	Runoff/leaching from natural deposits
(EC) (umhos/cm) Specific Conductance μS/cm	8/19/10	161	N/A	1600	none	Substances that form ions when in water; seawater influence
Chloride (ppm)	8/19/10	4.3	N/A	500	none	Runoff/leaching from natural deposits; seawater influence
Sulfate (ppm)	8/19/10	2.8	N/A	500	none	Runoff/leaching from natural deposits; industrial wastes
Turbidity (Units)	8/19/10	8.9	N/A	5	none	Soil runoff
Color (Units)	8/19/10	5	N/A	15	none	Naturally-occurring organic materials
Odor-Threshold (Units)	8/19/10	1	N/A	3	none	Naturally-occurring organic materials

There are no PHGs, MCLGs, or mandatory standard health effects language for these constituents because secondary MCLs are set on the basis of aesthetics.

**TABLE 6 – DETECTION OF UNREGULATED CONTAMINANTS**

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notification Level	Health Effects Language
Hexavalent Chromium (ppb)	12/10/14	2.4	N/A	n/a	Some people who drink water containing hexavalent chromium in excess of the MCL over many years may have an increased risk of getting cancer

\*Any violation of an MCL, MRDL, or TT is asterisked. Additional information regarding the violation is provided later in this report.

The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, are more than one year old.

### 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. Pacific Union Elementary School 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 <http://www.epa.gov/lead>.

**Arsenic:** 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.

**Nitrate:** Infants below the age of six months who drink water containing nitrate in excess of the MCL may quickly become seriously ill and, if untreated, may die because high nitrate levels can interfere with the capacity of the infant's blood to carry oxygen. Symptoms include shortness of breath and blueness of the skin. High nitrate levels may also affect the oxygen-carrying ability of the blood of pregnant women.

**Summary Information for Contaminants Exceeding an MCL, MRDL, or AL or Violation of Any TT or Monitoring and Reporting Requirement**

No Violations







**ORGANIC CHEMICAL QUALITY**

Results of water sample analyses done to determine the presence of organic chemical contamination in the water supply.

Names and concentrations of any organic contaminants including pesticides, herbicides and other organic chemicals detected in the water supply source.

Volatile Organic Analysis(VOC) (EPA Method 524.2 & 502.2) <u>Constituents</u>	California			Level Detected (ug/l)	Date Sampled
	MCL <sup>1</sup> (ug/l)	PHGs <sup>2</sup> (ppb)	MCLGs <sup>3</sup> (mg/l)		
Sys #1000194-001 Primary Well					
Total Trihalomethanes (THM'S/TTHM)	80	N/A	N/A	<2.0	4/11/17
Bromodichloromethane				<0.50	4/11/17
Bromoform				<0.50	4/11/17
Chloroform (Trichloromethane)				<b>0.66</b>	4/11/17
Dibromochloromethane				<0.50	4/11/17
Benzene	1	0.15		<0.50	4/11/17
Carbon Tetrachloride	0.5	0.1		<0.50	4/11/17
1,2-Dichlorobenzene (o-DCB)	600	660		<0.50	4/11/17
1,4-Dichlorobenzene (p-DCB)	5	6		<0.50	4/11/17
1,1-Dichloroethane (1,1-DCA)	5	3		<0.50	4/11/17
1,2-Dichloroethane (1,2-DCA)	0.5	0.4		<0.50	4/11/17
1,1-Dichloroethylene (1,1-DCE)	6	10		<0.50	4/11/17
cis-1,2-Dichloroethylene (c-1,2-DCE)	6	100		<0.50	4/11/17
trans-1,2-Dichloroethylene (t-1,2-DCE)	10	60		<0.50	4/11/17
Dichloromethane (Methylene Chloride)	5	4		<0.50	4/11/17
1,2-Dichloropropane	5			<0.50	4/11/17
Total 1,3-Dichloropropene	0.5	0.2		<0.50	4/11/17
Ethyl Benzene	300	300		<0.50	4/11/17
Methyl tert-Butyl Ether (MTBE)	5	5		<0.50	4/11/17
Monochlorobenzene (Chlorobenzene)	70	200		<0.50	4/11/17
Styrene	100	100	0.1	<0.50	4/11/17
1,1,2,2-Tetrachloroethane	1	0.1		<0.50	4/11/17
Tetrachloroethylene (PCE)	5	0.06	0	<0.50	4/11/17
Toluene	150	150		<0.50	4/11/17
1,2,4-Trichlorobenzene	5	5		<0.50	4/11/17
1,1,1-Trichloroethane (1,1,1-TCA)	200	1000	0	<0.50	4/11/17
1,1,2-Trichloroethane (1,1,2-TCA)	5	0.3		<0.50	4/11/17
Trichloroethylene (TCE)	5	0.8	0	<0.50	4/11/17
Trichlorofluoromethane (Freon 11)	150	700		<0.50	4/11/17
Trichlorotrifluoroethane (Freon 113)	1200	4000		<0.50	4/11/17
Vinyl Chloride (VC)	0.5	0.05	0	<0.50	4/11/17
Total Xylenes (m,p, & o)	1750	1800		<1.0	4/11/17
1,3-Dichlorobenzene (m-DCB)				<0.50	4/11/17
Dichlorodifluoromethane (Freon 12)	5	N/A	N/A	<0.50	4/11/17
1,3-Dichloropropane				<0.50	4/11/17
cis-1,3-Dichloropropene	0.5			<0.50	4/11/17
trans-1,3-Dichloropropene	0.5			<0.50	4/11/17
Hexachlorobutadiene				<0.50	4/26/11
Isopropylbenzene (Cumene)				<0.50	4/26/11
p-Isopropyltoluene				<0.50	4/26/11
Naphthalene				<0.50	4/26/11
n-Propylbenzene				<0.50	4/26/11
1,1,1,2-Tetrachloroethane				<0.50	4/26/11
1,2,3-Trichlorobenzene				<0.50	4/26/11
1,2,3-Trichloropropane				<1.0	4/26/11
1,2,4-Trimethylbenzene				<0.50	4/26/11
1,3,5-Trimethylbenzene				<0.50	4/26/11

(EPA Method 551.1)	California	Level		
Disinfection: Byproducts, Residuals, Precursors	MCL <sup>1</sup> (ug/l)	PHGs <sup>2</sup>	MCLGs <sup>3</sup>	Detecte (ug/l)
Constituents				Date Sampled
<b>1000194-901</b>				
Total Trihalomethanes (THM'S/TTHI)	80	N/A	N/A	<0.50 07/19/21
Bromodichloromethane				ND 07/19/21
Bromoform				ND 07/19/21
Chloroform (Trichloromethane)				ND 07/19/21
Dibromochloromethane				ND 07/19/21
Haloacetic Acids (five)(HAA5)	60			<2.0 07/19/21
Monobromoacetic Acid				ND 07/19/21
Dichloroacetic Acid				ND 07/19/21
Trichloroacetic Acid				ND 07/19/21
Monochloroacetic Acid				ND 07/19/21
Dibromoacetic Acid				ND 07/19/21

	MCL (ug/l)	Level Detected (ug/l)	Date Sampled
1,2,3-Trichloropropane [TCP]	0.005	<0.0050	8/10/21

Organic Chemical	(mg/l)	(ug/l)	(ppb)	(mg/l)	(in ug/l)	Date Sampled
<b>Method: EPA 525.2, 507</b>						
<b>Sys #1000194-001</b>						
<b>Primary Well</b>						
Alachlor (ALANEX)	0.002	2			<0.20	10/10/19
Atrazine (AATREX)	0.003		0.003		<0.30	10/10/19
Simazine (PRINCEP)		0.004	NA	0.004	<0.30	10/10/19

EDB/DBCP	California	Level		
EPA Method 504.1	MCL <sup>1</sup> (ug/l)	PHGs <sup>2</sup>	MCLGs <sup>3</sup>	Detecte (ug/l)
				Date Sampled
<b>Sys #1000194-001</b>				
<b>Primary Well</b>				
Dibromochloropropane (DBCP)	0.2	N/A	0.0017	ND 04/12/21
Ethylenedibromide (EDB)	0.05	N/A	0.01	ND 04/12/21

Chlorine Residual	Date	Time	Cl2	
Site Sampled	Sampled	Sampled		
Site 1 - Nurse's Sink	01/12/21	13:25	1.89	highest
Site 2 - OHB @ RR 4	02/04/21	14:10	0.99	
Site 1 - Nurse's Sink	03/04/21	13:20	0.62	
Site 2 - OHB @ RR 4	04/12/21	14:10	1.45	
Site 1 - Nurse's Sink	05/05/21	01:57	0.72	
Site 2 - OHB @ RR 4	06/09/21	09:50	0.42	
Site 1 - Nurse's Sink	07/19/21	13:20	0.24	lowest
Site 2 - OHB @ RR 4	08/10/21	12:40	0.4	
Site 1 - Nurse's Sink	09/15/21	13:30	0.51	
Site 2 - OHB @ RR 4	10/20/21	14:35	0.46	
Site 1 - Nurse's Sink	11/15/21	14:20	0.46	
Site 2 - OHB @ RR 4	12/02/21	13:05	0.39	
	Average		0.71	

Method EPA 314 Parameter	Max. Level Allowed (ug/l)	Level	Date
		Detected (ug/l)	Sampled
Perchlorate	6	<4.0	07/28/20

**RADIOLOGICAL QUALITY**

	Max. Level Allowed (in pCi/l)	Level	Date
		Detected (in pCi/l)	Sampled
Gross Alpha	15	<.08	03/04/13
Uranium	20	1.03	12/04/08
Total Radium 226	3	0.03	12/04/08

**LEAD AND COPPER ANALYSIS**

Constituent Lead (Pb) Action Level (AL) 15 ug/l Method: EPA-200.8  
 Constituent Copper (Cu) Action Level (AL) 1.3 mg/l Method: EPA-200.8  
 Enter all data for the year (needed for CCR's)

Client Sample ID	Copper (mg/l)	Copper (ug/l)	Lead (ug/l)	Date Sampled
Upper Fountain	0	ND	2.2	6/16/20
Room 17	0.0027	2.7	1.9	6/16/20
Men's Restroom	0	ND	ND	6/16/20
Room 7	0.0049	4.90	2.5	6/16/20
Nurse's Sink	0.0091	9.10	2.1	6/16/20

enter 2 highest values  
for lead and copper

	Copper (mg/l)	Lead (ug/l)
	0.0049	2.2
	0.0091	2.5
90th percentile->	0.007	2.35

- <sup>1</sup>MCL Maximum Contaminant Level
- <sup>2</sup>PHGs Public Health Goals
- <sup>3</sup>MCLGs Maximum Contaminant Level Goals (Federal)

Please call if you have any questions. (559) 584-8322

Sincerely,



Martin James  
Dellavalle Laboratory, Inc.