2018 Consumer Confidence Report

Water System Name: Trinity County Waterworks District #1 Report Date: 2018

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, 2018 and may include earlier monitoring data.

Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse Trinity County Waterworks District #1 a P O Box 217 Hayfork, Ca 96041 (530)628-5449 para asistirlo en español.

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Trinity County Waterworks District #1 以获得中文的帮助:P O Box 217 Hayfork, Ca 96041 (530)628-5449.

Ang pag-uulat na ito ay naglalaman ng mahalagang impormasyon tungkol sa inyong inuming tubig. Mangyaring makipag-ugnayan sa Trinity County Waterworks District #1 o tumawag sa (530)628-5449 para matulungan sa wikang Tagalog.

Báo cáo này chứa thông tin quan trọng về nước uống của bạn. Xin vui lòng liên hệ Trinity County Waterworks District #1 tai P O Box 217 Hayfork, Ca 96041 (530)628-5449 để được hỗ trợ giúp bằng tiếng Việt.

Tsab ntawv no muaj cov ntsiab lus tseem ceeb txog koj cov dej haus. Thov hu rau Trinity County Waterworks District #1 ntawm P O Box 217 Hayfork, Ca 96041 (530)628-5449 rau kev pab hauv lus Askiv.

Type of water source(s) in use: Surface Water Name & general location of source(s): Big Creek and Ewing Reservoir Drinking Water Source Assessment information: Assessment Date: May, 2003. Most vulnerable to low density septic systems and historic mining operation. Contact Redding office of the Ca. State Water Resources Control Board Division of Drinking Water (530)224-4800. Time and place of regularly scheduled board meetings for public participation: Third Tuesday of every month at 2:00pm held in the Board Room located at 320 Reservoir Road, Hayfork, Ca. Phone: (530)628-5449 For more information, contact: Craig j. Hair, Jr. District Manager

TERMS USED IN THIS REPORT

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).

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.

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

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.

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

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.

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 *E. coli* MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

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)

MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

ppq: parts per quadrillion or picogram per liter (pg/L)pCi/L: picocuries per liter (a measure of radiation)

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

Contaminants that may be present in source water include:

- *Microbial contaminants*, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- *Inorganic contaminants*, such as salts and metals, that can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- *Pesticides and herbicides*, that may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, that are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural application, and septic systems.
- Radioactive contaminants, that can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the U.S. EPA and the State Board prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration regulations and California law also establish limits for contaminants in bottled water that provide the same protection for public health.

Tables 1, 2, 3, 4, 5, and 6 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 month)			0	Naturally present in the
(state Total Coliform Rule)	<u>0</u>				environment
Fecal Coliform or <i>E. coli</i>	(In the year)		A routine sample and a repeat		Human and animal fecal
(state Total Coliform Rule)	0		sample are total coliform positive,		waste
,			and one of these is also fecal		
			coliform or <i>E. coli</i> positive		
E. coli	(In the year)		(a)	0	Human and animal fecal
(federal Revised Total	0				waste
Coliform Rule)					

(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 2 – SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER								
Lead and Copper (complete if lead or copper detected in the last sample set)	Sample Date	No. of Samples Collected	90 th Percentile Level Detected	No. Sites Exceeding AL	AL	PHG	No. of Schools Requesting Lead Sampling	Typical Source of Contaminant
Lead (ppb)	Oct 17	10	ND		15	0.2		Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	Oct 17	10	0.462		1.3	0.3	Not applicable	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

		- SAMPLING F		SODIUM A		NESS
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	April 17	2		None	None	Salt present in the water and is generally naturally occurring
Hardness (ppm)	April 17	48		None	None	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring
TARLE 4 DET	ECTION O	E CONTAMINA	NTC WITH A	DDIMADV	DDINKING	WATER STANDARD
TABLE 4 - DET	ECTION	T CONTAINING	MIS WIIII A	KIMAKI		WAIER STANDARD
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
Total Trihalomethanes PPB	Quarterly In 2018	38.22	30.2 to 46.6	80		By-product of drinking water disinfection.
Haloacetic Acids PPB		21.4	17.8 to26.1	60		
Aluminum ppm	4/4/2017	0.423		1	.06	
Asbestos mfl	7/9/2008	0.4		7	7	
Nitrate as N ppm Nitrite as N ppm	1/11/2018 1/11/2018	ND ND		10 1		Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits.
Perchlorate	1/17/2018	ND		6	0.001	Perchlorate is an inorganic chemical used in solid rocket propellant, fireworks, explosives, flares, matches, and a variety of industries. Can come from historic industrial operations that used or use, store, or dispose of perchlorate and its salts.
Gross Alpha pCi/l Radium 228 pCi/L	3/2/2015 3/2/2015	<3.0 2.27		15 5	0.019	Erosion of natural deposits.
		l l	TS WITH A S			IG WATER STANDARD
Chemical or Constituent			Range of	LCONDAIN	PHG	WITEKSTINDING
(and reporting units)	Sample Date	Level Detected	Detections	SMCL	(MCLG)	Typical Source of Contaminant
Iron (ppb) Big Creek Iron (ppb) Ewing Res Iron (ppb) Water Plant Iron (ppb) Ewing Pumps Iron (ppb) Treated Water Manganese (ppb) Big Cr Manganese (ppb) Ewing R Manganese (ppb) Ewing R Manganese (ppb) Ewing P Manganese (ppb) Treated Iron (ppb) Treatment Plant Manganese Iron (ppb) Ewing Manganese Ewing Total Dissolved Solids	3/16/2017 3/16/2017 3/16/2017 3/16/2017 5/10/2017 3/16/2017 3/16/2017 4/24/2017 5/10/2017 7/12/2017 7/12/2017 4/4/2017 4/4/2017	ND 983 720 824 ND ND ND 78 45 23 ND 51 755 72	All single samples	300 300 300 300 300 50 50 50 50 300 50		Leaching from Natural deposits and/or Industrial Wastes Leaching from Natural deposits
Aluminum ppb Sulfate ppm Specific Conductance	4/4/2017 4/4/2017 4/4/2017 4/4/2017	423 1.9 105 ND		1000		Leaching from Natural deposits and/or Industrial Wastes. Substances that form ions when in water; seawater influence Run off/ leaching from natural
Chloride						deposits; seawater influence
Chloride	TABLE	6 – DETECTION	N OF UNREGU	LATED CO) ONTAMINA	

Vanadium (ppb)	4/10/2002	1 ppb	Single Sample	50 ppb	The babies of some pregnant women
					who drink water containing in
					excess of the notification level may
					have an increased risk of
					developmental effects, based on
					studies in laboratory animals.

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. **Trinity County Waterworks District #1** 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.

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

VIOLATION OF A MCL, MRDL, AL, TT, OR MONITORING AND REPORTING REQUIREMENT						
Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language		
N/A						

For Water Systems Providing Groundwater as a Source of Drinking Water

TABLE 7 – 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	(In the year)	0	(0)	Human and animal fecal waste
Enterococci	(In the year)	TT	N/A	Human and animal fecal waste
Coliphage	(In the year)	TT	N/A	Human and animal fecal waste

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

SPECIAL NOTICE OF FECAL INDICATOR-POSITIVE GROUNDWATER SOURCE SAMPLE						
\$	SPECIAL NOTICE FOR	UNCORRECTED SIGNI	FICANT DEFICIENCIES	}		
	VIOLATION OF GROUNDWATER TT					
TT Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language		
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For Systems Providing Surface Water as a Source of Drinking Water

TABLE 8 - SAMPLING RESULTS SHOWING TREATMENT OF SURFACE WATER SOURCES				
Treatment Technique ^(a) (Type of approved filtration technology used)	Conventional Treatment			
Turbidity Performance Standards ^(b) (that must be met through the water treatment process)	Turbidity of the filtered water must: 1 – Be less than or equal to 0.3 NTU in 95% of measurements in a month. 2 – Not exceed 1.0 NTU for more than eight consecutive hours. 3 – Not exceed 1.0 NTU at any time.			
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.	100%			
Highest single turbidity measurement during the year	<.3 NTU			
Number of violations of any surface water treatment requirements	0			

⁽a) A required process intended to reduce the level of a contaminant in drinking water.

Summary Information for Violation of a Surface Water TT

⁽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.

	VIOLAT	TON OF A SURFACE	WATER TT	
TT Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language
N/A				
	al Monitoring Waiver for	•	er a Variance or Exemp	
	Level 1 and I	Level 2 Assessmer	rised Total Coliform Rule nt Requirements Due to an <i>E. coli</i> MCL Vic	
narmful, waterborne pa the drinking water distrant reatment or distribution	thogens may be present or ribution system. We fou	or that a potential path and coliforms indicati are required to condu	and are used as an indicator hway exists through which cor ng the need to look for potent act assessment(s) to identify pr	ntamination may enter tial problems in water
	e were required to condured to take 0 corrective ac		ent(s). 0 Level 1 assessment(s ed 0 of these actions.) were completed. Ir
			pleted for our water system. (tions and we completed 0 of the	

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.

We were required to complete a Level 2 assessment because we found <i>E. coli</i> in our water system. required to take 0 corrective actions and we completed 0 of these actions.	In addition, we were