2017 Consumer Confidence Report

Water System Name: North Yuba Water District Report Date: 02/22/2018

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 - December 31, 2017 and may include earlier monitoring data.

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo ó hable con alguien que lo entienda bien.

Type of water source(s) in use: Surface water (streams/reservoirs)

Name & general location of source(s): South Fork of the Feather River, Lost Lake, Sly Creek, Slate Creek, Oro leve

Tributaries. Upper Forbestown Canal (transverse flow). Little Grass Valley

Reservoir.

Drinking Water Source Assessment information: The source serving North Yuba Water District is the Forbestown

Treatment Plant intake. Active and historic mining operations, high density septic systems. Assessment may be reviewed at NYWD'S office at 8691 La Porte Rd., Brownsville CA, 95919, Attn: Jeff

Maupin, General Manager (530)675-2567.

Time and place of regularly scheduled board meetings for public participation: Fourth Thursday of each month at 5:00

pm. At the District office-8691 La Porte Rd, Brownsville, CA, 95919

For more information, contact: North Yuba Water District Phone: (530) 675-2567

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

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: State Board permission 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.

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.

ND: not detectable at testing limit

ppm: parts per million or milligrams per liter (mg/L)

ppb: parts per billion or micrograms per liter (μ g/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)

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 Water Resources Control Board (State Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Board regulations 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 (state Total Coliform Rule)	(In a mo.) <u>0</u>	0	1 positive monthly sample	0	Naturally present in the environment	
Fecal Coliform or <i>E. coli</i> (state Total Coliform Rule)	(In the year)	0	A routine sample and a repeat sample are total coliform positive, and one of these is also fecal coliform or <i>E. coli</i> positive	a	Human and animal fecal waste	
E. coli (federal Revised Total Coliform Rule)	(In the year)	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 2	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 Collecte d	90 th Percentile Level Detected	No. Sites Exceeding AL	AL	PHG	No. of Schools Requesting Lead Sampling	Typical Source of Contaminant
Lead (ppb)	9/15	10	8.7	0	15	0.2	0	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	9/15	10	.101	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 HARD	NESS
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	2015	1.7		none	none	Salt present in the water and is generally naturally occurring
Hardness (ppm)	2016	24		none	none	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring
TABLE 4 – DET	ECTION O	F CONTAMIN	ANTS 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
Alkalinity (ppm)	2016	19.8		n/a	n/a	Naturally occurring in water.
Aluminum (ppm)	2015	.0244		1	.06	Erosion of natural deposits, residue from some treatment processes.
Arsenic (ppb)	2011	0		10	.004	Erosion of natural deposits from runoff.
Antimony (ppb)	2015	0		6	20	Discharge from petroleum refineries and ceramics
Barium(ppm)	2012	0		1	2	Discharge from oil waste and erosion of natural deposits
Beryllium (ppb)	2016	3.9		4	1	Discharge from metal refineries, coal burning factories
Asbestos (mfl)	2016	0		7	7	Internal corrosion of asbestos cement water mains.
Bicarbonate asHCO3 (PPM)	2016	4.2			34	
Cadmium	2013	4.2		50	100	Internal corrosion of galvanized pipes, natural deposits.
Chlorine (ppm)	2016	1.00	.42-1.56	4	4	Drinking water disinfectant added for treatment.
Carbonate as CO3(pmm)	2016	0				
Calcium (ppm)	2016	4.5				
Cromium (ppb)	2013	0		2	1	Discharge from steel and pulp mills, chrome plating.

Fluoride (ppm)	2015	0		2	1	Erosion of natural deposits, water additive that promotes strong teeth discharge from fertilizer.
Halo acetic acids (Haa5) (ppb)	2017	19	15-20	60	n/a	By product of drinking water disinfection.
Hardness as CaC03 (ppm)	2016	24			n/a	
Hexavalent Chromium (ppb)	2016	0		10	.02	Discharge from electroplating factories, leather tanneries, wood preservation.
Hydroxide AS OH (ppm)	2016	0				
MBAS (foaming agents) (ppb)	2015	0		500		Municipal and industrial waste discharges.
Gross alpha (pCi/l)	2016	1.76		15	0	Erosion of natural deposits.
Magnesium (ppm)	2016	3.1				
Mercury (ppb)	2015	0		2	1.2	Erosion of natural deposits, discharge from refineries.
Nickel (ppb)	2014	0		100	12	Erosion of natural deposits, discharge from metal factories.
Nitrate as N (ppm)	2017	0		10	10	Runoff and leaching from fertilize use. Leaching from septic tanks.
Nitrate as NO3	2014	0		45	45	Runoff and leaching from fertilize use, leaching from septic tanks.
Nitrite as N (ppm)	2017	.05		1	1	Runoff and leaching from fertilize use, leaching from septics.
Perchlorate (ppb)	2017	0		6	1	By-product of rocket fuel.
Radium 228 (pCi/l)	2016	1.1		5	.019	Erosion of natural deposits.
Silver (ppb)	2015	0		100		Industrial discharges.
Selenium (ppb)	2013	0		50	30	Erosion of natural deposits, runoff from mines, discharge from petroleum and metal production.
Thallium (ppb)	2015	0		2	1	Leaching from ore processing sites
Total trihalomethanes (TTHM) (PPB)	2017	24	19-31	80		By-product of drinking water disinfection.
Turbidity (NTU)	2017	.035	.026294	TT		Soil runoff
ZINC (PPM)	2015	0		5		Runoff/leaching from natural deposits.
TABLE 5 – DETE	CTION OF	CONTAMINA	NTS WITH A S	ECONDAR	Y DRINKIN	G WATER STANDARD
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Chloride (ppm)	2012	1.3		500		Runoff leaching from natural deposits, sea water influence.
Color (Color units)	20	.035		15		Naturally occurring organic material.
Iron (ppb)	2013	131		500		Erosion of natural deposits.

/A	N/A	N/A	N/A	N/A	N/A
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notification Le	evel Health Effects Language
	TABLE	6 – DETECTIO	N OF UNREGU	LATED CONTAI	MINANTS
(ppm)	2013	26		1000	
Total dissolved solids	2013	26		1000	deposits.
Sulfate (ppm)	2012	.7		500	Runoff/leaching from natural
Manganese (ppb)	2013	53		50	Leaching from natural deposits.

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 for Community Water Systems: 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. [NORTH YUBA WATER DISTRICT] is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. [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 (1-800-426-4701) or at http://www.epa.gov/lead.

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

Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effect Language
0	0	0	0	0

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	(2017) 0		0	(0)	Human and animal fecal waste		
Enterococci	(2017) 0		TT	N/A	Human and animal fecal waste		
Coliphage	(2017) 0		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 IN	DICATOR-POSITIVE O	ROUNDWATER SOURCE	ESAMPLE
N/A				
				W-201
	CDECIAL NOTICE FOR	A LINCOPPECTED GLC	HEICANE BERICIPA CON	
	SPECIAL NOTICE FOR	R UNCORRECTED SIGN	IFICANT DEFICIENCIES	
N/A				
	VIOL	ATION OF GROUNDWA	ATER TT	
TT Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language
0	0	0	0	0

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)				
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 to3 NTU in 95% of measurements in a month. 2 - Not exceed _1.0 NTU for more than eight consecutive hours. 3 - Not exceed _5.0 NTU at any time.			
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.	95.9			
Highest single turbidity measurement during the year	.194			
Number of violations of any surface water treatment requirements	0			

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

⁽b) Turbidity (measured in NTU) is a measurement of the cloudiness of water and is a good indicator of water quality and filtration performance. Turbidity results which meet performance standards are considered to be in compliance with filtration requirements.

Summary Information for Violation of a Surface Water TT

VIOLATION OF A SURFACE WATER TT							
TT Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language			
0	0	0	0	0			

Summary Information for Operating Under a Variance or Exemption				
N/A				

Summary Information for Federal 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 past year we were required to conduct 0 Level 1 assessment(s). 0 Level 1 assessment(s) were completed. In addition, we were required to take 0] corrective actions and we completed 0 of these actions.

During the past year 0 Level 2 assessments were required to be completed for our water system. 0 Level 2 assessments were completed. In addition, we were required to take 0 corrective actions and we completed of these actions.

There were no level 1 or level 2 assessments needed in the past year, therefore	no corrective actions were necessary, in
2017	

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

SWS CCR Form

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 *E. coli* in our water system. In addition, we were required to take 0 corrective actions and we completed 0 of these actions.

No assessments or corrective actions were needed for 2017.