2016 Consumer Confidence Report

Water System Name:	City of Trinidad	Report Date: 6-20-2017						
We test the drinking water quality for many constituents as required by state and federal regulations. This report she the results of our monitoring for the period of January 1 - December 31, 2016 and may include earlier monitoring data								
Este informe contiene entienda bien.	información muy importante sobre su agua p	potable. Tradúzcalo ó hable con alguien que lo						
Type of water source(s)) in use: _surface							
Name & general location	on of source(s): Luffenholtz Creek, 1313 West	thaven Dr. Trinidad						
Drinking Water Source	Assessment information: n/a							
Ti	1. d h . d. l . d h d d 6 d	2nd W. J						
Time and place of regul	larly scheduled board meetings for public partici	pation: 6:00 pm 2 nd Wednesday monthly at City Hall						
East many information of	pontosti. Davion Divolemon	Dhoros (707) 677 2962						
TOI HIGH HITOIHIAUOH, C	contact: Bryan Buckman	Phone: (707) 677-3862						

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 (USEPA).

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 MRDLs for contaminants that affect health along with their monitoring 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: 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.

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)

requirements, and water treatment requirements.

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 by-products 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 USEPA 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	0	Human and animal fecal waste		
E. coli (federal Revised Total Coliform Rule)	(from 4/1/16- 12/31/16)	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 – 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	Typical Source of Contaminant	
Lead (ppb)	9-2015	10	5.8	0	15	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits	
Copper (ppm)	9-2015	10	.24	0	1.3	0.3	Internal corrosion of household plumbing systems; erosion of natural	

						deposits; leaching from wood preservatives
	TABLE 3	- SAMPLING I	RESULTS FOR	SODIUM A	AND HARDI	NESS
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	10-19-10	7.4	n/a	none	none	Salt present in the water and is generally naturally occurring
Hardness (ppm)	10-19-10	16	n/a	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	<u>PRIMARY</u>	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
Nitrate(ppm)	2016	.37	n/a	45	45	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Sodium Hypochlorite (ppm)	2016	.34	.18	4	4	Drinking water disinfectant added for treatment
Total Trihalomethanes(ppm)	2016	64	44-100	80	n/a	Byproduct of drinking water disinfection
Haloacetic Acids(ppm)	2016	35.3	27-45	60	n/a	Byproduct of drinking water disinfection
Gross Alpa Particle Activity(pCi/L)	1-8-11	.515	n/a	15	0	Erosion of 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
Specific Condunctance (µS/cm)	7-7-16	67	n/a	1600	n/a	Substances that form ions in water/seawater influence
Chloride(ppm)	10-7-10	8.6	n/a	500	n/a	Runoff/leaching from natural deposits; seawater influence
Sulfate(ppm)	10-7-10	1.9	n/a	n/a		Runoff/leaching from natural deposits; seawater influence
	TABLE (6 – DETECTION	N OF UNREGU	LATED CO	NTAMINA	NTS
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections		ntion Level	Health Effects Language

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 USEPA'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. USEPA/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. [INSERT NAME OF UTILITY] 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 OF A MCL, MRDL, AL, TT, OR MONITORING AND REPORTING REQUIREMENT							
Violation	Explanation Duration Actions Taken to Correct the Violation Health Effects Language						

For Water Systems Providing Ground Water as a Source of Drinking Water

TABLE 7 – SAMPLING RESULTS SHOWING FECAL INDICATOR-POSITIVE GROUND WATER SOURCE SAMPLES								
Microbiological Contaminants (complete if fecal-indicator detected) Total No. of Detections Sample Dates MCL (MCLG) (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 Ground Water Source Samples, Uncorrected Significant Deficiencies, or Ground Water TT

SPECIAL NOTICE OF FECAL INDICATOR-POSITIVE GROUND WATER SOURCE SAMPLE						
	SPECIAL NOTICE FOR	UNCORRECTED SIGN	NIFICANT DEFICIENCIES			
	VIOLA	TION OF GROUND W	ATER TT			
TT Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language		
	l	I				

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 filtration				
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 exceed1_ NTU for more than eight consecutive hours. 3 – Not exceed2 NTU at any time.				
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.	96				
Highest single turbidity measurement during the year	.676				
Number of violations of any surface water treatment requirements	0				

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 Language							

⁽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.

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Summ	Summary Information for Operating Under a Variance or Exemption								
Sur	=	n for Federal Revise Level 2 Assessment F	d Total Coliform Ru Requirements	le					
Lev	vel 1 or Level 2 Assessme	ent Requirement not Due t	to an <i>E. coli</i> MCL Violatio	n					
Coliforms are bacteria that waterborne pathogens may distribution system. We for this occurs, we are required assessments.	be present or that a poter and coliforms indicating t	ntial pathway exists throughe need to look for potential	h which contamination may al problems in water treatme	enter the drinking water ent or distribution. When					
During the past year we w [INSERT NUMBER OF LI [INSERT NUMBER OF CONTINUES OF CON	EVEL 1 ASSESSMENTS ORRECTIVE ACTIONS	Level 1 assessment(s) we	ere completed. In addition,	we were required to take					
During the past year [INSE] water system. [INSERT N required to take [INSERT N CORRECTIVE ACTIONS]	TUMBER OF LEVEL 2 NUMBER OF CORRECT	ASSESSMENTS] Level 2	assessments were complete	ed. In addition, we were					
	Level 2 Assessment	Requirement Due to an <i>E</i> .	coli MCL Violation						
E. coli are bacteria whose processes can cause short health risk for infants, young indicating the need to look for assessment(s) identify problem.	t-term effects, such as dian g children, the elderly, and for potential problems in w	rhea, cramps, nausea, heada I people with severely-comp vater treatment or distribution	ches, or other symptoms. To promised immune systems. On. When this occurs, we are	They may pose a greater We found <i>E. coli</i> bacteria,					
We were required to compl take [INSERT NUMBER CORRECTIVE ACTIONS]	OF CORRECTIVE A								