2017 Consumer Confidence Report
Water System Name: BAKMAN WATER COMPANY Report Date: JULY 1, 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.
Diamntawwv tshaj tawn no muaj lust seem ceeb txog koj cov dej haus. Tshab txhais nws, los yog tham nrog tej tug neeg uas totaub toxog nws.
A Message from Richard Tim Bakman, President of Bakman Water Company
Dear Customer,
On behalf of our team, we are pleased to present to you our 2017 Consumer Confidence Report. This Report is designed to inform you about the quality of water we delivered by providing a snapshot of last year's water sampling results. Our treatment technicians routinely monitor the system for drinking water contaminants in accordance with our approved sampling plans and procedures. Included are details about where your water comes from, what it contains, and how it compares to State standards. Most importantly, this is a chance for us to keep our valued customers better informed.
In 2017, we had a below average rainfall early in the winter but with some late storms in early 2018 we almost made up for the shortfall. With below normal snowpack this past winter, it remains crucial for us to continue managing our water usage and continue efficient use of the water we do use. Together we averaged over 31% in savings last year from our baseline usage from 2013, equating to over 437,000,000 gallons of water saved. In 2017, we identified and noticed over 400 incidences of possible water wasting and use violations. We want to thank you, our customers, for working with us to help ensure that we continue to deliver a sustainable water supply for generations to come.
Bakman Water Company continues to make strides towards maintaining a sustainable water supply, as we understand that reliable water resources are at the core of thriving and robust communities. To achieve this, we continue to grow our recharge program through coordination with Fresno Irrigation District and Fresno Metropolitan Flood Control District, while also participating in the North Kings Groundwater Sustainability Agency (NKGSA). As we communicated last year, Bakman Water Company is representing our customers' interests as a voting Board member and has been working diligently with the other member agencies to develop the sub-basins Groundwater Sustainability Plan. The NKGSA partners are committed to local stewardship of groundwater and recognize that water continues to be a foundation of the region's economic successes. For more information on the NKGSA, visit www.northkingsgsa.org. Since the company's formation in 1948, our culture has been built on a tradition of serving our customers with pride. Nearly 70 years later, customer loyalty and an appreciation for the business of providing a life-sustaining element continues to be at the heart of our core values. We will continue to grow with the community and our customers because we understand that team work today provides the best solutions for tomorrow.  Thank you for your continued support.
Thank you for your continued support.
Type of water source(s) in use: GROUNDWATER
Name & general location of source(s): Bakman Water Company wells located in Southeast Fresno, CA
Drinking Water Source Assessment information: Vulnerability well reports are available at the Bakman Water
Company from Monday to Friday between 8:00 a.m. – 5:00 p.m.
For more information, contact: Tim Bakman Phone: (559) 255 - 0324

Office Address: 5105 East Belmont Avenue, Fresno Ca 93727

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

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)

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.
- \*\* Indicates information that is more than 1 year old

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 SHOW	ING THE DETECTION O	F COLIFO	RM 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>1</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) 2017 0	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		Human and animal fecal waste
E. coli (federal Revised Total Coliform Rule)	(In the year) 2017 0	0	(a)	0	Human and animal fecal wasto

(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 <sup>th</sup> Percentile Level Detected	No. Sites Exceeding AL	AL	PHG	No. of Schools Requesting Lead Sampling	Typical Source of Contaminant	
Lead (ppb) **	2016	31	0.0008	0	15	0.2	0	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits	
Copper (ppm) **	2016	31	0.073	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)	2017	26.1	16-34	none	none	Salt present in the water and is generally naturally occurring	
Hardness (ppm)	2017	128.64	63.7-278	none	none	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring	

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL (MRDL)	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
Inorganic Contaminant						
Arsenic (ppb)	2017	0.8	ND-3	10	0.004	Erosion of natural deposits; runoff from orchards; glass and electronics production waste
Barium (ppm)	2017	0.04454	0.034 -0.122	1	0.2	Discharge of oil drilling wastes and from metal refineries, erosion of natural deposits
Total Chromium (ppb)	2017	2.30	ND-6	50	2.5 (100)	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits
Mercury (ppb)	2017	0.105	ND - 0.43	2	1.2	Erosion of natural deposits and runoff from landfills and crop lands
Fluoride (ppm)	2017	0.08	ND - 0.2	2	1	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate + Nitrite (as N) (ppb)	2017	4430	300 - 8700	10		
Nitrate as N (ppm)	2017	4.71	0.6 - 8.95	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewer; erosion of natural deposits
Synthetic Organic Contaminants						
Dibromochloropropane DBCP – EDB (ug/L)	2017	0.025	ND - 0.075	.2	1.7	Banned nematocide that may still be present from runoff/leaching from former use
Volatile Organic Contaminants			<u> </u>			
Trichloroethylene (TCE) (ppb)	2017	0.02	ND - 0.20	5	1.7	Discharge from metal degreasing sites and other factories
Tetrachloroethylene (PCE) (ppb) **	2016	0.09	ND - 0.9	5	0.06	Discharge from factories, dry cleaners and auto shop (metal degreaser)
Radioactive Contaminants						
Gross Alpha Particle Activity (pCi/L)	2017	± 2.54 1.25	± 1.11 - 6.31 0.61 - 1.76	15	N/A	Erosion of natural deposits
Uranium (pCi/L) **	2016	± 2.38 1.01	± 1.14 - 3.60 0.814 - 1.19	20	0.43	Erosion of natural deposits
Radium 226 **	2004	± 0.0827 ± 0.305	± 0.0827 ± 0.305	5	0.05	Erosion of natural deposits
Radium 228 **	2008	± 0.1369 0.6274	± 0.000-0.466 0.466-0.8625	5	0.019	Erosion of natural deposits
	-	-	-	-	-	
Asbestos ** (MFL)	2012	< 0.2	NSD - < 0.2	7	N/A	Internal corrosion of asbestos cement

TABLE 5 – DETECT	ION OF	CONTAMINA	NTS WITH A <u>S</u> I	ECONDAR	<u>Y</u> DRINKI	NG WATER STANDARD
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Copper (tested at well head) (ppm)	2017	0.009	ND - 0.009	1	N/A	Erosion of natural deposits leaching from wood preservative
Turbidity (NTU)	2017	0.76	ND - 4.9	5	N/A	Soil run off
Iron (ppb)	2017	5.10	ND - 30	300	N/A	Leaching from natural deposits and industrial waste
Specific Conductance (Umhos/cm2)	2017	382	225 - 725	1600	N/A	Substance that forn ions when in water, sea water influence
Chloride (ppm)	2017	9.50	4 - 23	500	N/A	Run off leaching from natural deposits, sea water influence
Sulfate (ppm)	2017	10.13	4 - 25	500	N/A	Run off leaching from natural deposits, sea water influence
Potassium (ppm)	2017	2.50	1-5	N/A	N/A	Leaching from natural deposits, industria waste
Phosphate (ppm) **	2009	0.04	ND - 0.04	N/A	N/A	Agriculture, urban sprawl, Industry, natural occurring from fertilizers and pesticides
pH (std. units)	2017	7.45	6.4 - 8.1	N/A	N/A	N/A
Manganese (ppb)	2017	ND	ND	50	N/A	Leaching from natural deposits
Total Cations (meq/L)	2017	3.78	2.3 – 6.9	N/A	N/A	N/A
Total Anions (meq/L)	2017	3.7	2.2 – 7.2	N/A	N/A	N/A
Langelier (Index Source Temp) (ppm)	2017	-0.455	-1.5 – 0.02	N/A	N/A	N/A
Selenium (ppb)	2017	0.055	ND55	50	30	Selenium is an essential nutrient. However, some people who drink water containg selenium in excess of the MCL over many year may experience hair or fingernail losses, numbness in fingers or toes or circulation system problems
Sodium Absorption Ratio (SAR)(ppm)	2017	1.07	0.6 – 1.6	N/A	N/A	N/A
Calcium (ppm)	2017	26.70	14 - 52	N/A	N/A	Leaching from natural deposits
Magnesium (ppm)	2017	15.10	7 - 36	N/A	N/A	Leaching from natural deposits, industrial was
Bicarbonate as HCO3 (ppm)	2017	177	120 - 330	N/A	N/A	N/A
Alkalinity as CaCo3 (ppm)	2017	144	100 - 270	N/A	N/A	Leaching from natural deposits, Industrial was
	TABLE 6	– DETECTIO	N OF UNREGU	LATED CO	ONTAMINA	ANTS
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notifica	tion Level	Health Effects Language
Vanadium (ppb)	2017	27.4	10 - 39	50		Babies of some pregnant women who drink water containing vanadium in excess of the notification level may have increased risk of developmental effects, based on studies in laboratory animals
1,2,3 Trichloropropane (1,2,3 TCP) (ppt) **	2016	1.2	ND – 12	5		Some people who use water containing 1,2,3 TCP in excess of the notification level over many years may have an increased risk of getting cancer, based on studies in laboratory animals
Chrome VI (ug/L) **	2015	1.79	ND - 3.08	N/A	0.02	Discharge from steel and pulp mills and chron plating; crosion of 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. Bakman Water Company 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 <a href="http://www.epa.gov/lead">http://www.epa.gov/lead</a>.

In January 2017, in response to a 2015 directive by Gov. Jerry Brown, the State Water Resources Control Board Division
of Drinking Water (DDW) issued permit amendments to community water systems with K - 12 schools in their systems to
provide free lead sampling and analysis for up to five tap locations to any public, private or charter schools that serves
students in Kindergarten through grade 12, providing that the school requests this testing. Currently, Bakman Water
Company has not received any requests from the K-12 schools within its water service to test for lead in its water.

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

75 443 5346 4				
Health Effects Language	Actions Taken to Correct the Violation	Duration	Explanation	Violation
0	0	0	0	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	2017	0	(0)	Human and animal fecal waste			
Enterococci	2017 0	2017	TT	n/a	Human and animal fecal waste			
Coliphage	2017 0	2017	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 IND	ICATOR-POSITIVE	GROUNDWATER SOURCE	E SAMPLE
N/A		···		
	SPECIAL NOTICE FOR	UNCORRECTED SIG	INIFICANT DEFICIENCIES	3
N/A		VI 1/2		
	VIOLA	TION OF GROUNDY	VATER TT	
TT Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language
0	0	0	N/A	Human and animal fecal waste

#### 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 zero (0) Level 1 assessment(s). Zero (0) Level 1 assessment(s) completed. In addition, we were required to take zero (0) corrective actions and we completed zero (0) of these action							
During the past year zero (0) Level 2 assessments were required to be completed for our water system. zero (0) Level 2 assessments were completed. In addition, we were required to take zero (0) corrective actions and we completed zero (0) of these actions.							
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 $E$ . $coli$ in our water system. required to take zero (0)] corrective actions and we completed zero (0) of these actions.	In addition,	we were

For more information, please visit us at www.bakmanwater.com

#### **ATTACHMENT 7**

# Consumer Confidence Report Certification Form

(to be submitted with a copy of the CCR)

(to certify electronic delivery of the CCR, use the certification form on the State Board's website at <a href="http://www.waterboards.ca.gov/drinking">http://www.waterboards.ca.gov/drinking</a> water/certlic/drinkingwater/CCR.shtml)

Water System Name:		m Name: <u>Bakma</u>	Bakman Water Company			
Water System Number:		m Number: <u>101000</u>	1010001			
0	6/29/20	18	_ (date) to customers (and ap	mer Confidence Report was distributed on oppropriate notices of availability have been nined in the report is correct and consistent		
with	the cor	npliance monitoring of Drinking Water.	data previously submitted to	the State Water Resources Control Board,		
Certified by:		: Name:	Steve Piekens			
		Signature:	Stille			
		Title:	Operations Manager			
		Phone Number	: (559) 255 - 0324	Date: <u>07/17/2018</u>		
x	metho	ods used:		methods. Specify other direct delivery ag consumers. Those efforts included the		
		following methods:				
	X	Posting the CCR on	the Internet at www.bakmany	water.com		
	X	Mailing the CCR to	postal patrons within the serv	rice area (attach zip codes used)		
		Advertising the avai	ilability of the CCR in news n	nedia (attach copy of press release)		
		Publication of the CCR in a local newspaper of general circulation (attach a copy of the published notice, including name of newspaper and date published)				
		Posted the CCR in p	Posted the CCR in public places (attach a list of locations)			
	X	Delivery of multiple copies of CCR to single-billed addresses serving several persons, such as apartments, businesses, and schools				
		Delivery to commun	nity organizations (attach a lis	st of organizations)		
		Other (attach a list o	of other methods used)			
		For systems serving at least 100,000 persons: Posted CCR on a publicly-accessible internet site at the following address: www				
X	For privately-owned utilities: Delivered the CCR to the California Public Utilities Commission					

This form is provided as a convenience and may be used to meet the certification requirement of section 64483(c), California Code of Regulations.

#### BAKMAN WATER COMPANY - ZIP CODE LIST FOR CCR DISTRIBUTION TO CUSTOMERS, TENANTS, & PROPERTY OWNERS

\* SERVICE AREA ZIP CODES: 93727 & 93747

02452-4811	92625	93704	94747
20169	92627	93705	94955
20762-5496	92704	93706	95006
30040	92705	93707	95023
32707	• 92780	93710	95039
32792	92799-5096	93711	95117
39426	92801	93720	95118
40004	92840	93721	95119
43218	93010	93722	95121
55311	93244	93723	95122
55443	93257	93725	95125
57186	93277 93279	93726	95127
58506-5651	93291	93727	95131
58554	93292	93728	95135
60015	93306	93729	95216
72031	93313-3656	93730	95241
73160	93420	93737	95337
75019	93424-2609	93744	95348 95350
75093	93428	93745	95350 95351
78664	93436	93747 93755	95356 95356
80501-7783	93446	93765	95376
80525	93610	93766	95445
81230	93611	93772-1246	95503
83835	93612	93777	95670
83836	93613	93794	95746
85708	93618	93901	95763
90048	93619	93905	95816
90064	93622	93906	95817
90278	93625	93908	95829
90280	93626	93923	97491
90638	93627	94002	98002
91016	93631	94014	98110
91103	93636	94066	98226-9712
91362	93637	94083	98295
91423	93638	94087	98662
91710	93639	94108	98907
91745	93650 93651	94538	98908
91911	93654	94539	99210
92116	93657	94541	99705
92260	93662	94545	
92262	93667	94551	
92377	93675	94566 94568	
92548 ·	93701	94588	
92602	93702	94596	
J2002	93703	94608-2505	
		- 1000 E303	