### 2017 Consumer Confidence Report

Report Date: June 29, 2018 Water System Name: Western Hills Water District

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 from the California Aqueduct

Name & general location of source(s): Western Hills Water District pumping station #1 is the vicinity of Patterson, California on Oak Flat Road approximately 35-miles south of the Harvey O Banks Pumping Station

Drinking Water Source Assessment information: Brown & Caldwell Engineering completed the DWSA in April 2002

Time and place of regularly scheduled board meetings for public participation: 4:00 pm on the second Wednesday of Each month at Diablo Grande Golf Course Clubhouse located at 9521 Morton Davis Drive, Patterson Ca 95363

For more information, contact: Jerry Phillips, General Manager Phone: (209) 895-9493

#### 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)

SWS CCR Form Revised January 2018 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 –	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.)	0	1 positive monthly sample	0	Naturally present in the environment		
Fecal Coliform or E. coli (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		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 – 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)	6/11/17	20	0.0	0	15	0.2	0	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	6/11/17	20	0.0	0	1.3	0.3	Not applicable	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	5/17/17	17		none	none	Salt present in the water and is generally naturally occurring
Hardness (ppm)	5/17/17	36		none	none	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring
TABLE 4 – DET	TECTION O	F CONTAMINA	NTS 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
Chloramines	5/17/17	.53	.5153	MRDL= 4.0(as Cl <sub>2</sub> )	MRDL=4.0 (as Cl <sub>2</sub> )	Drinking Water disinfectant added for Treatment
Control of DBP (TOC)	5/17/17	1.25	1.23-1.29	TT	N/A	Various natural and man-made sources
TTHM's (ppb) (Total Trihalomethane)	5/17/17	86.25	11-100	80	N/A	By-product of drinking water disinfection.
HAA5 (ppb) (Halo-acetic Acid)	5/17/17	32.75	13-37	60	N/A	By-product of drinking water disinfection
TABLE 5 – DETE	CTION OF	CONTAMINAN	TS WITH A SI	ECONDAR	RY DRINKIN	G WATER STANDARD
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Total Dissolved Solids (TDS) (ppm)	5/17/17	94		1000	N/A	Runoff/leaching from natural deposits
Sulfate (ppm)	5/17/17	19		500	N/A	Runoff/leaching from natural deposits; industrial wastes
Chloride (ppm)	5/17/17	13		500	N/A	Runoff/leaching from natural deposit; seawater influence
Color (units)	Average Level Detected	2.5	ND-2.5	15	N/A	Naturally occurring organic materials
Odor-Threshold (units)	Average Level Detected	ND	ND-1.7	3	N/A	Naturally occurring organic materials
	Average Level	14	ND-14	5	N/A	Soil runoff
Turbidity	Detected			and the second s		01. 1.0 1 1
Turbidity  Specific Conductance (μS/cm)	Detected Average Level Detected	130	280-1400	1600	N/A	Substances that form ions when in water; seawater influence
Specific Conductance	Average Level Detected	130 5 – DETECTION	A. C. S.			water; seawater influence

# 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. Western Hills 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	VIOLATION OF A MCL, MRDL, AL, TT, OR MONITORING AND REPORTING REQUIREMENT							
Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language				
Trihalomethanes	The Diablo Grande	Jan 2017 to March	Installed a DBP	Some people who				
(TTHM's)	water system failed	2017	reduction system in	use water				
	to meet the running		the Zone 3 Tank	containing				
	annual average			trihalomethanes in				
	MCL for TTHM's of			excess of the MCL				
	80 ppb	0		over the years may				
				experience liver,				
			6	kidney, or central				
				nervous system				
				problems, and				
				may have an				
				increased risk of				
, , , , , , , , , , , , , , , , , , ,				getting cancer.				
None								

For Water Systems Providing Groundwater as a Source of Drinking Water

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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 (MCLG) (MCLG) [MRDLG]  Typical Source of Contaminant						
E. coli	(In the year)	N/A	0	(0)	Human and animal fecal waste	
Enterococci	(In the year)	N/A	TT	n/a	Human and animal fecal waste	
Coliphage	(In the year)	N/A	ТТ	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 S	SAMPLE
		2 7 24 2	=	
5	SPECIAL NOTICE FOR I	UNCORRECTED SIG	GNIFICANT DEFICIENCIES	
	VIOLA	TION OF GROUNDY	VATER TT	
TT Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language
None				

# For Systems Providing Surface Water as a Source of Drinking Water

TABLE 8 - SAMPLING RESULTS SHOWING TREATMENT OF SURFACE WATER SOURCES				
Treatment Technique <sup>(a)</sup> (Type of approved filtration technology used)				
	Turbidity of the filtered water must:			
Turbidity Performance Standards <sup>(b)</sup> (that must be met through the water treatment process)	1 – Be less than or equal to0.3 NTU in 95% of measurements in a month.			
	2 – Not exceed 1.0 NTU for more than eight consecutive hours.			
	3 – Not exceed <u>1.0</u> NTU at any time.			
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.	100%			
Highest single turbidity measurement during the year	1.0			
Number of violations of any surface water treatment requirements	0			

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<sup>(</sup>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

TT Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language
None				
	=			

	Summary Information for Operating Under a Variance or Exemption						
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### 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) NUMBER OF LEVEL 1 ASSESSMENTS Level 1 assessment(s) were completed. In addition, we were required to take zero (0) NUMBER OF CORRECTIVE ACTIONS corrective actions and we completed zero (0) NUMBER OF CORRECTIVE ACTIONS of these actions.

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. of these actions.	In addition, we were required to take zero (0) corrective actions and we contain the containing of the	ompleted zero (0)

### Level 2 Assessment Requirement Due to an E. coli MCL Violation

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*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 zero (0) number of Level 2 assessment because we found E. coii in our water system.	. In
addition, we were required to take zero (0) corrective actions and we completed zero (0) of these actions.	