



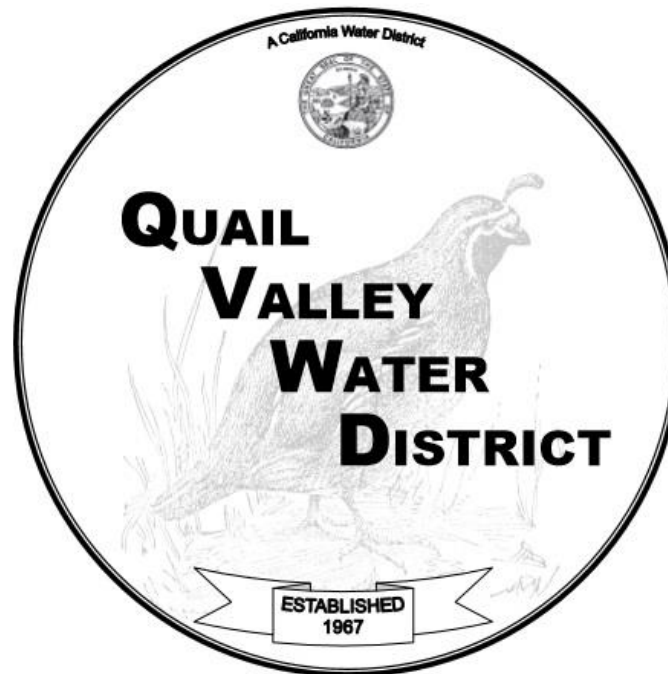
A STATE OF
CALIFORNIA
PUBLIC AGENCY

QUAIL VALLEY WATER DISTRICT

BOARD OF DIRECTORS

Mike Biglay
Jean Grodewald
Rita Leonard
Enrique Lopez
Joan Tyer

2019 Consumer Confidence Report



Water System Name: **QVWD-West & East Combined System** Report Date: **5/22/19**

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, 2019 and may include earlier monitoring data.

Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse QVWD-West & East Combined System a (661) 822-1923 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 QVWD-West & East Combined System 以获得中文的帮助: (661) 822-1923

Ang pag-uulat na ito ay naglalaman ng mahalagang impormasyon tungkol sa inyong inuming tubig. Mangyaring makipag-ugnayan sa QVWD-West & East Combined System o tumawag sa (661) 822-1923 para matulungan sa wikang Tagalog.

Báo cáo này chứa thông tin quan trọng về nước uống của bạn. Xin vui lòng liên hệ QVWD-West & East Combined System tại (661) 822-1923 được hỗ trợ giúp bằng tiếng Việt.

Tsab ntawv no muaj cov ntsiab lus tseem ceeb txog koj cov dej haus. Thov hu rau QVWD-West & East Combined System ntawm (661) 822-1923 rau kev pab hauv lus Askiv.

Type of water source(s) in use: **Groundwater (Wells)**

Name & general location of source(s): **Water supply consists of 1 well located within the District: Montclair well.**

Drinking Water Source Assessment information:

The most recent drinking water source assessment for the Montclair well was completed in October of 2017. No contaminants associated with the identified activities were detected in the water supply. The Montclair well is considered most vulnerable to these activities:

- | | |
|--|---|
| 1. Septic systems, | 2. Water supply wells, |
| 3. Drinking water treatment plants, | 4. Transportation corridors (roads), |
| 5. Above ground storage tanks, | 6. Surface water (streams). |

Time and place of regularly scheduled board meetings for public participation:

Regular meetings of the Board of Directors are held at the District Office (24750 Sand Canyon Road) at 8:30 A.M. on the last Saturday of each month.

For more information, contact: **Randy Hardenbrook, General Manager** Phone: **(661) 822-1923**

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.

Variations 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 ($\mu\text{g/L}$)

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 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 (state Total Coliform Rule)	0		1 positive monthly sample ^(a)	0	Naturally present in the environment
Fecal Coliform or <i>E. coli</i> (state Total Coliform Rule)	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
<i>E. coli</i> (federal Revised Total Coliform Rule)	0		(b)	0	Human and animal fecal waste

(a) Two or more positive monthly samples is a violation of the MCL
(b) 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	90th Percentile Level Detected	No. Sites Exceeding AL	AL	PHG	No. of Schools Requesting Lead Sampling	Typical Source of Contaminant
Lead (ppb)	2019	23	14	2	15	0.2	0	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	2019	23	.016	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	30		None	None	Salt present in the water and is generally naturally occurring
Hardness (ppm)	2017	250		None	None	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring

TABLE 4 – DETECTION OF CONTAMINANTS 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
Turbidity	2017	2.5			None	Soil runoff
Radium 228 (pCi/L)	2017	0.87	ND-2.63	5	0.019	Erosion of natural deposits
Gross Alpha Particle Activity	2019	2.16		15	(0)	Erosion of natural deposits
Fluoride (mg/L)	2017	0.15		2.0	1	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Xylenes (mg/L)	2014	<0.0005		1.750	1.8	Discharge from petroleum and chemical factories; fuel solvent
TTHMs (Total Trihalomethanes) (µg/L)	2019	4.7		80	NA	Byproduct of drinking water disinfection

HAA5 (Sum of 5 Haloacetic Acids) (µg/L)	2019	<2		60	NA	Byproduct of drinking water disinfection
Chlorine (mg/L)	2019	0.82	0.10-3.17	[4.0 (as Cl ₂)]	[4.0 (as Cl ₂)]	Drinking water disinfectant added for treatment

TABLE 5 – DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	SMCL	PHG (MCLG)	Typical Source of Contaminant
Color (Units)	2017	5		15		Erosion of natural deposits; residual from some surface water treatment processes
Foaming Agents (µg/L)	2017	<50		500		Municipal and industrial waste discharges
Iron (µg/L)	2019	583 *	470-850 *	300		Leaching from natural deposits; industrial wastes
Manganese (µg/L)	2019	60 *	54-63 *	50		Leaching from natural deposits
Turbidity (Units)	2017	2.5		5		Soil runoff
Zinc (mg/L)	2017	0.064		5.0		Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids (TDS) (mg/L)	2017	340		1,000		Runoff/leaching from natural deposits
Specific Conductance (µS/cm)	2019	580		1,600		Substances that form ions when in water; seawater influence
Chloride (mg/L)	2017	18		500		Runoff/leaching from natural deposits; seawater influence
Sulfate (mg/L)	2017	41		500		Runoff/leaching from natural deposits; industrial wastes

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).

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. Quail Valley 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. 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>.

Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and/or flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the U.S. EPA Safe Drinking Water Hotline (1-800-426-4791).

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
Exceedance of secondary drinking water standards for Iron	Water produced by the Montclair well exceeds secondary drinking water standards for Iron	Ongoing	Proposition 84 Arsenic Remediation project includes installation of iron and manganese filtration	There are no PHGs, MCLGs, or mandatory standard health effects language for these constituents because secondary MCLs are set on the basis of aesthetics.
Exceedance of secondary drinking water standards for Manganese	Water produced by the Montclair well exceeds secondary drinking water standards for Manganese	Ongoing		

Arsenic Remediation Project Update

Quail Valley Water District and The California State Water Resources Control Board entered into a funding agreement on December 8, 2015 for the purpose of financing a project to enable the District to meet safe drinking water standards. When complete the Eastside and Westside systems will be combined and the District will supply water for the entire system from two wells, the existing Montclair well and a new well drilled near the existing Montclair well. Both wells will be treated for iron and manganese after which the water will meet all current water quality standards.

We expect this project to be completed before the end of 2020. As of May, 2020, the Eastside and Westside systems have been combined into the QVWD-West and East Combined System. The Umtali well, which exceeds standards for Fluoride and Antimony, has been permanently removed from service. The Tanganda well, which exceeds standards for Arsenic and Nitrate, has been permanently removed from the system and now supplies water for fire and construction needs from a hydrant on Transvaal which is separate from the domestic water distribution system. The Pretoria well, which exceeds standards for Arsenic, has been permanently removed from the water system. New water storage reservoirs at the Montclair and East Tank sites have been constructed and placed in service, greatly improving our water storage to insure uninterrupted water service during power outages. The iron and manganese filtration system has been delivered and is in the process of being installed.