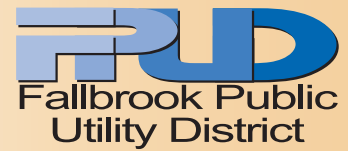




WATER QUALITY REPORT 2020



We test our drinking water quality for many constituents, as required by State and Federal Regulations. This report shows the results of our monitoring from calendar year 2019.

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

The sources of our drinking water may 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.

Type of water sources in use: While FPUD is a water retailer, virtually all of our water is purchased from the San Diego County Water Authority, which purchases much of its water from the Metropolitan Water District of Southern California. Virtually all tap water delivered by FPUD is treated at Metropolitan's Lake Skinner Filtration Plant in Riverside County.

Name & location of source(s): FPUD receives virtually all its water from two sources: a 242-mile-long aqueduct that brings Colorado River water from Lake Havasu to Southern California, and another 444-mile-long aqueduct that carries water from the Feather River in northern California through the Delta to State Water Project contractors throughout the state. One percent of FPUD water comes from our Capra Well, when available.

Drinking water source assessment information: About one percent of FPUD water comes from our Capra Well. A source water assessment was conducted on the water system in May 2004. The well is considered most vulnerable to low-density septic systems, agricultural/irrigation wells, and historic mining operations. Discussion of vulnerability: The Capra Well is in a rural area close to Red Mountain with few activities that could potentially contaminate the water supply. The only significant possible contaminating activities observed are pesticide and fertilizer use in the groves in the general area surrounding the well. In 2011, any water from Capra Well was diverted to Red Mountain Reservoir where it is treated through UV disinfection.

Safety is our #1 priority! Drinking water, including bottled water, may reasonably be expected to contain small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk.

Time and place of regularly scheduled board meetings: Every fourth Monday of the month at 4 p.m. in the district boardroom, located at 990 E. Mission Road. They are open to the public.

For more information contact: Jason Cavender, Operations Manager, (760) 728-1125.

We take extra measures to disinfect our water at Red Mountain Reservoir

💧 The District's Red Mountain Reservoir is an open reservoir with a capacity of 440 million gallons and is used to store treated water purchased from the San Diego County Water Authority. The open reservoir met the health standards of the day when it was constructed in 1949 and was reconstructed and lined in 1985, and it has continued to meet or exceed water quality standards. Drainage collection and diversion ditches prevent local runoff water from entering the reservoir. The reservoir is physically inspected at least twice daily. Bacteriological tests are taken once a week. FPUD upgraded its chlorination facilities in early 2010 by installing Ultraviolet Technology (UV Technology) for additional disinfection.

💧 The water the District purchases from the Water Authority is a blend of fully-treated Colorado River and State Water Project water that receives complete conventional treatment, along with ozone treatment – a cutting-edge, high-quality disinfection process. The water is treated at Metropolitan Water District's Skinner Filtration Plant. The water delivered to Red Mountain has a chloramine (mixture of chlorine and ammonia) disinfectant residual.



Red Mountain Reservoir



Contaminants that may be present in source water include:

- 💧 **Microbial contaminants**, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- 💧 **Inorganic contaminants**, such as salts and metals, which can be naturally occurring or a result of urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- 💧 **Pesticides and herbicides** 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, which 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**, which can be naturally occurring or the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency and the State Water Resources Control Board prescribe regulations that limit the amount of certain contaminants in tap water. These regulations also establish limits for contaminants in bottled water for the same public health protection.

For more information about contaminants and potential health effects, or for USEPA/Centers for Disease Control guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbial contaminants, call the USEPA Safe Drinking Water Hotline (1-800-426-4791). Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

Terms Used in This Report:

- 💧 **Maximum Contaminant Level (MCL):** The highest level of a contaminant 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 one's 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 one's health. PHGs are set by the California Environmental Protection Agency.
- 💧 **Maximum Residual Disinfectant Level (MRDL):** The level of a disinfectant added for water treatment that may not be exceeded at the consumer's tap.
- 💧 **Maximum Residual Disinfectant Level Goal (MRDLG):** The level of a disinfectant added for water treatment below which there is no known or expected risk to health. These are set by the U.S. Environmental Protection Agency.
- 💧 **Primary Drinking Water Standards (PDWS):** MCLs or 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.
- 💧 **NA:** Not applicable, indicate when there is no establish level
- 💧 **ND:** Not detectable at testing limit
- 💧 **NL** Notification Level to SWRCB
- 💧 **SI:** Saturation Index
- 💧 **µS/cm:** Measure of electrical conductance
- 💧 **pCi/L:** Picocuries per liter (a measure of radiation)
- 💧 **ppm or mg/L:** Parts per million or milligrams per liter
- 💧 **ppb or µg/L:** Parts per billion or micrograms per liter
- 💧 **ppt or ng/L:** Parts per trillion or micrograms per liter
- 💧 **LRAA:** Locational Running Annual Average; The LRAA is the highest Individual of all Running Annual Averages. It is calculated as an average of all the samples collected within a 12-month period.

1 part per million or 1 mg/L is:

- 1 cent in \$10, 000
- 1 minute in 2 years
- 1 inch in 16 miles
- 1 drop in 10 gallons

1 part per billion or 1 µg/L is:

- 1 cent in \$10,000,000
- 1 minute in 2,000 years
- 1 inch in 16,000 miles
- 1 drop in 10,000 gallons

The tables that follow list the drinking water contaminants that were detected during the most recent sampling.

The presence of these contaminants does not necessarily indicate that the water poses a health risk. The State Water Resource Control Board (SWRCB) 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 it is representative of the water quality, is more than one year old.

Some people may be more vulnerable to contaminants in drinking water than the general population.

Immuno-compromised persons such as those with cancer undergoing chemotherapy, those who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, and some elderly and infants, can be particularly at risk for infection. These people should seek advice from their health-care providers.

What about Lead? 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. FPUD is responsible for providing high-quality drinking water, but cannot control the variety of materials used in personal 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 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 or at <http://www.epa.gov/safewater/lead>.

TABLE 1 - Sampling results showing the detection of coliform bacteria

Microbiological Contaminants (to be completed only if there was a detection of bacteria)	Highest No. of detections	Months in violation	State or Federal MCL (Maximum Contaminant Level)	MCLG	Typical Source of Bacteria
Total Coliform Bacteria	0	0	More than 5.0% of monthly samples are positive;	0	Naturally present in the environment
Fecal Coliform or <i>E. coli</i>	0	0	A routine sample and a repeat sample detect total coliform, and either sample also detects fecal coliform or <i>E. coli</i>	0	Human and animal fecal waste

TABLE 2 - Sampling results showing the detection of lead and copper for residential

Lead and Copper (Tested every 3 years. Data is from 2019.) Test again August 2022	No. of samples collected	90 th percentile level detected	No. of sites exceeding Action Level	Action Level	PHG	Typical Source of Contaminant
Lead (µg/L)	33	ND	0	15	0.2	Internal corrosion of household plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (mg/L)	33	0.22	0	1.3	0.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

In addition, on January 2017, the State of California issued new guidelines on lead testing in schools. We are committed to supporting our school districts’ efforts to protect students and ensure that the drinking water at their school sites meet lead limits. We have already completed our work with school districts serving kindergarten through 12th grade to develop sampling plans unique to each school site. We have also already sampled seven schools in our district and all the results were below the Action Level. There was no follow-up monitoring required, nor was there a need to take corrective action on any plumbing fixtures at any school sampled.

Sampling results showing the detection of lead for our K-12th grade schools

Contaminant (CCR units)	Action Level	PHG	No. of sites exceeding Action Level	Sample Date	Number of Schools Requesting Lead Sampling	Typical Source of Contaminant
Lead (µg/L)	15	0.2	0	2017	7	Internal corrosion of household plumbing systems; discharges from industrial manufacturers; erosion of natural deposits

TABLE 3 - Detection of contaminants with a primary (health-related) drinking water standard

Chemical or Constituent (and reporting units)	Level Detected (average)	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
Clarity					
Lake Skinner Combined Filter Effluent Turbidity (NTU)	Highest	0.7	TT	NA	Soil Runoff
	% ≤ 0.3	100			
Inorganic Chemicals					
Aluminum	56	ND -94	1000	600	Residue from water treatment process; natural deposits erosion
Barium (mg/l)	.105	.100 - .110	1	2	Erosion of Natural deposits
Fluoride – (mg/L)	0.7	0.30 - .80	2	1	Erosion of natural deposits; Metropolitan Water District treats our water by adding fluoride to the naturally occurring fluoride level to help prevent dental caries in consumers. Fluoride levels in the treated water are maintained within a range of 0.7 to 1.3 mg/L, as required by the State Board regulations.
Radiological					
Gross Alpha (pCi/L)	ND	ND – 4.0	15	(0)	Erosion of natural deposits
Gross Beta (pCi/L)	ND	ND – 5.0	50	(0)	Decay of natural and man-made deposits
Uranium (pCi/L)	ND	ND – 3.0	20	0.43	Erosion of natural deposits
Disinfection by-products, Disinfectant Residuals and Disinfection by-product precursors (Federal Rule)					
Bromate (ppb)	2.8	ND – 10	10	0.1	By-product of drinking water ozonation
Total Chlorine Residual (mg/L) <i>Highest RAA</i>	2.05	0.01 – 3.6	[4]	[4]	Drinking water disinfectant added for treatment
Haloacetic Acids (five) (µg/L) <i>Highest LRAA</i>	14.5	5.0 – 22.0	60	NA	By-product of drinking water disinfection
Total Trihalomethanes (µg/L) <i>Highest LRAA</i>	30.8	16.0 – 57.0	80	NA	By-product of drinking water disinfection

TABLE 4 – Detection of contaminants with a secondary (aesthetic) drinking water standard

Chemical or Constituent (and reporting units)	Level Detected (average)	Range of Detections	MCL	PHG (MCLG) [NL]	Typical Source of Contaminant
Chloride (mg/L)	83	68 - 93	500	NA	Runoff/leaching from natural deposits; seawater influence
Color (units)	1	ND - 2	15	NA	Naturally occurring organic materials
Manganese (ppb)	NA	ND - 21	50	[500]	Leaching from natural deposits
Odor Threshold (TON) <i>Threshold Odor Number</i>	NA	ND - 1	3	NA	Naturally occurring organic materials
Specific Conductance (µS/cm)	765	576- 920	1600	NA	Substances that form ions when in water; seawater influence
Sulfate (mg/L)	147	90 - 200	500	NA	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids (mg/L)	467	330 - 580	1000	NA	Runoff/leaching from natural deposits

Turbidity (NTU) <i>Nephelometric Turbidity Unit</i>	.34	.01 – 1.10	5	NA	Soil runoff
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TABLE 5 – Additional parameters

Chemical or Constituent (and reporting units)	Level Detected (average)	Range of detections	Notification Level	Major sources in drinking water
Alkalinity (mg/L)	92	84 - 99	NA	Naturally present in the environment
Bicarbonate (HCO ₃) (mg/L)	98	96 - 99	NA	Naturally present in the environment
Boron (µg/L)	NA	120	1,000	Runoff leaching from natural deposits; industrial waste
Calcium (mg/L)	48	33 - 60	NA	Naturally present in the environment
Chlorate (µg/L)	NA	35	800	By-product of drinking water chlorination; industrial processes
Corrosivity (SI)	.24	.20 - .28	NA	Elemental balance in water; affected by temperature, other factors
Hardness (mg/L) *Conversion to grains below	196	139 - 240	NA	Consists of Magnesium and Calcium and is usually naturally occurring
Magnesium (mg/L)	18	14 - 21	NA	Naturally present in the environment
N-Nitrosodimethylamine (ppt)	NA	3.9	10	Byproduct of drinking water chloramination; industrial process
Perfluorhexanoic Acid (PFHxA) (ppt)	2.3	2.2 – 2.4	NA	Industrial chemical factory discharges; runoff/leaching from landfills; use in fire-retarding foams and various industrial processes
pH (pH units)	8.2	7.9 - 8.2	NA	Naturally present in the environment
Potassium (mg/L)	3.9	3.3 - 4.4	NA	Naturally present in the environment
Sodium (mg/L)	78	62 - 90	NA	Generally naturally occurring
TOC (mg/L) <i>Total Organic Compounds</i>	2.4	2.0 - 2.7	TT	Various natural and manmade sources

*To convert Hardness (mg/L) to Hardness (grains) divide by 17.1. For example, 230mg/L divide by 17.1 = 13.4 grains.



FUD
Fallbrook Public
Utility District

General Manager:
Jack Bebee

Board of Directors:
Don McDougal
Jennifer DeMeo
Al Gebhart
Ken Endter
Charley Wolk

990 E. Mission Road
Fallbrook, CA 92028
(760) 728-1125

Here's What's New!

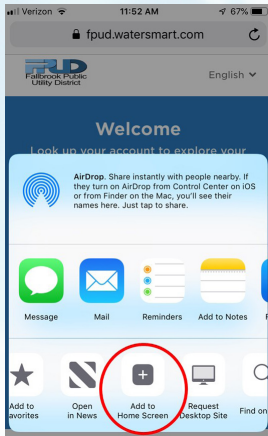
View and Manage Your Water Use Online



Log onto www.onlinebiller.com/fpud so you can:

- 💧 **Sign up for High Usage Alerts.** ** Alert yourself to a potential leak. The objectives of WaterSmart are to provide helpful, proactive service to customers experiencing high water usage. You will be notified sooner of high usage reads – possibly weeks before the monthly billing statements would arrive. The various leak resolution tips will help you identify the source of the water loss, and the step-by-step instruction videos give you options that can help resolve the issue.
- 💧 **Compare your use** to other, similar households in Fallbrook.
- 💧 It's all part of our replacement and transition to “smart meters.” Check it out!
- 💧 **It's super easy to do!**

** If you're only able to view monthly usage, stay tuned as we transition all our meters over the next 2 - 3 years.



You can add a shortcut to your mobile device for quick access to your account.

Currently, the prompt to suggest you download an icon to your phone shows up the first time you access the mobile site, in response to an email invitation, a leak alert, a high use notification, etc. If you respond yes to the prompt, a water drop icon will appear on your phone.

Without that prompt, you can click on the Upload link at the bottom of the phone. You can then select “Add to the Home Screen” to have the link added to the Home Screen (see image).

Billing Payment Options

Walk-in: 990 E. Mission Road, Fallbrook, CA 92028

Online: www.onlinebiller.com/fpud

By Phone: 877-281-3434

PayNearMe: Make a cash payment at participating locations:



CVS pharmacy

CASHIER INSTRUCTIONS:

1. Scan barcode.
2. Enter payment amount.
3. Collect payment from customer.
4. Give the customer their receipt.

PayNearMe

1R7M5P

7-ELEVEN

CASHIER INSTRUCTIONS:

1. Ask customer for amount to load.
2. Press OTHER FUNCT, then LOAD.
3. Scan barcode.
4. Collect Payment from customer.
5. Give customer receipt and slip

PayNearMe

1R7M5P