

PINYON PINES COUNTY WATER DISTRICT

An Independent California Special District - Established in 1969

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To: Users of Pinyon Pines County Water District

From: Thomas E. Huss - General Manager

Subject: Annual Water Quality Report for 2022

Date: May 2023

Attached for your review are the most current water analyses of your community water system. The source of water for your system is ground water. The concentrations of the various chemical, physical, and bacteriological analyses are listed in the table in the column labeled "Pinyon Pines Water District". These can be compared to the maximum allowed level in the column labeled "MCL". MCL stands for maximum contamination level. This is the highest level of a contaminant that is allowed in drinking water. Only detected contaminants will be listed in the table.

The results can also be compared to the columns labeled "PHG" and MCLG". PHG stands for public health goal and is the level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the State of California. MCLG stands for maximum contamination level goal and has the same definition as public health goals, but is set by the Federal Government. The maximum contamination level is set as close to public health goals and maximum contamination level goals as is economically or technologically feasible.

If you have any questions regarding this Annual Water Quality Report, contact Thomas Huss at telephone number 760-349-3261. You can also call Riverside County Environmental Health Department at 760-863-7570 ask for Damaris Zepeda Penuelas or Mark Abbot.

During the last few years we and all of Southern California have been experiencing drought situations. At this time, we ask that you help your community by voluntarily conserving water. We request that you try to maintain a use of under 500 cubic feet during each billing cycle (approximately 3740 gallons). Please take a look at your usage and if you have a problem give me a call.

MAY 2023

Pinyon Pines County Water District Water Quality Report for 2022

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

Periodically, we conduct tests for over 100 drinking water contaminants. We only detected 15 contaminants, and found none higher than the State allows. This brochure is a snapshot of the quality of the water that we provided last year. Included are details about where your water comes from, what it contains, and how it compares to State standards. We are committed to providing you with information because informed customers are our best allies. For more information about your water, call 760-349-3261 and ask for Thomas Huss.

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 (800-426-4791).

Your water comes from a horizontal well drilled 85 feet into an underground source of water. This well is located south of Pinyon Pines at the 6200 foot elevation above the community in the Santa Rosa Mountains. The USFS owns the land around these wells and restricts any activity that could contaminate them.

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.

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 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 (800-426-4791).

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 storm water 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 storm water runoff, and residential uses. ★ *Radioactive contaminants*, that can be naturally occurring or be the result of oil and gas production and mining activities. ★ *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 storm water runoff, agricultural application, and septic systems.

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. Department regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

Is our water system meeting other rules that govern our operations? The State requires us to test our water on a regular basis to ensure its safety.

Our District Board of Directors meets on the first Sunday of each month at 9:00am at 63701 Vallecito, Pinyon Pines (Holiday weekends the meeting moves to the second Sunday). The District can be reached at 760-349-3261 or districtoffice@pinyonpinescwa.gov

THE DISTRICT HAS CHECKED YOUR WATER FOR THE FOLLOWING CONTAMINANTS:

Total Hardness, Calcium, Magnesium, Sodium, Potassium, Total Cations, Total Alkalinity, Hydroxide, Carbonate, Bicarbonate, Sulfate, Chloride, Nitrate, Fluoride, Total Anions, PH, Specific Conductance, Total Filterable Residue, Apparent Color, Odor Threshold, Lab Turbidity, MBAS, Nitrite-Nitrogen, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Chromium CrVI screen, Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Silver, Thallium, Zinc, Boron, Nitrate as Nitrogen, Cyanide, Vanadium, Perchlorate, MTBE, Methyl tert Butyl Ether, Radon 222, Gross Alpha, Radium 228, 1'1'1'2'-Tetrachloroethane, 1'1'1'-Trichloroethane, 1'1'2'2'-Tetrachloroethane, 1'1'2'-Trichloroethane, 1'1'-Dichloroethane, 1'2'-Dichloroethene, 1'1'-Dichloropropene, 1'2'3'-Trichlorobenzene, 1'2'3'-Trichloropropene, 1'2'4'-Trimethylbenzene, 1'2'-Dichlorobenzene, 1'2'-Dichloroethane, 1'3'5'-Trimethylbenzene, 1'3'-Dichlorobenzene, Methylene Chloride, Naphthalene, n-Butylbenzene, n-Propylbenzene, p-Isopropyltoluene, sec-Butylbenzene, Styrene, Tetrachloroethene, trans-1'2'-Dichloroethane, Chloroethane, Chloroform, Chloromethane, cis-1'2'-Dichloroethene, cis-1'3'-Dichloropropene, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, 1'2'4'-Trichlorobenzene, Ethylbenzene, Hexachlorobutadiene, Isopropylbenzene, 1'2'-Dichloropropene, Isopropylbenzene, 1'3'-Dichloropropene, 1'4'-Dichlorobenzene, 2'2'-Dichloropropane, 2-Butanone, 2-Chloroethylvinyl Ether, 2-Chlorotoluene, 4-Chlorotoluene, 4-Methyl-2-Pentanone, tert Butylbenzene, Toluene, Benzene, Trans-1'3'-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Bromoform, Bromomethane, Xylenes, Chlorobenzene, Tert-Amyl Methyl Ether, Bis(2-Chloroethyl) Ether, Bromobenzene, Bromochloromethane, Vinyl Chloride, Xylenes, Carbon Tetrachloride, 1'4'-Dioxane, Ethyl tert-Butyl Ether, Hexavalent Chromium, Total Chromium, Household Lead and Copper, Coliforms and Escherichia Coli, Uranium, 1,2,3-Trichloropropane.

TESTS PERFORMED

Volatile organic analysis

Gross Alpha

Asbestos

General mineral, general physical and inorganic chemicals

Nitrite

Nitrate

Household lead and copper

Coliforms and Escherichia Coli

TESTING FREQUENCY

Every six years

Every six years

Every nine years

Every three years

Every three years

Yearly

Every three years

Monthly

NEXT TESTING DUE

January 2024

January 2027

January 2028

January 2024

January 2024

January 2024

Summer 2024

Monthly

WATER QUALITY DATA

The table below lists all the drinking water contaminants that we detected during the given years. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done in 2019-2021. The State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than one year old.

TERMS AND ABBREVIATIONS USED BELOW:

- **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 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.
- **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.

• **n/a**: not applicable **λ nd**: not detectable at testing limit **λ ppb**: parts per billion or micrograms per liter **λ ppm**: parts per million or milligrams per liter **λ pCi/L**: picocuries per liter (a measure of radiation) **Mg/L**: milligrams per liter
Regulatory Action Level (AL): The concentration of a contaminant which, when exceeded, triggers treatment or other requirements that a water system must follow.

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

	Sample Date	
Total Hardness	97 mg/L	2021
Calcium	28 mg/L	2021
Magnesium	6.6 mg/L	2021
Sodium	26 mg/L	2021
Potassium	4.7 mg/L	2021
Total Alkalinity	140 mg/L	2021
Bicarbonate	140 mg/L	2021

Contaminants

4-1-2022 Low pressure due to broken main – boil order distributed 4-1-2022 boil order rescinded 4-8-2022 5 follow up samples from above and below the regular monthly sample site and the monthly May sample were Absent.

REGULATED CONTAMINANTS WITH PRIMARY MCLS

<u>Radioactive</u>	PHG (MCLG)	Pinyon Pines Water District	Pinyon Pines Sample Date	Violation	Typical Source of Contaminant
Gross Alpha (pCi/L)	15	2.48	2021	no	Erosion of natural deposits
*Uranium (pCi/L)	20	4.01	2009	no	Erosion of natural deposits
Ra 228	0.624	0.381	2022	no	Erosion of natural deposits

REGULATED CONTAMINANTS WITH SECONDARY MCLS

<u>Constituent</u>	MCL	PHG (MCLG)	Pinyon Pines Water District	Sample Date	Violation
Total dissolved solids (mg/L)	1000	n/a	190	2021	no
Specific conductance (umho/cm)	1600	n/a	300	2021	no
Chloride (mg/L)	500	n/a	9.0	2021	no
Sulfate (mg/L)	500	n/a	7.0	2021	no
PH	9		7.6	2021	no
Turbidity (NTU)	5		0.13	2021	no
					Soil runoff

Runoff/leaching from natural deposits
 Substances that form ions when in water
 Runoff/leaching from natural deposits
 Runoff/leaching from natural deposits

Synthetic Organic Chemicals (SOC's) - April 2019 - The County of Riverside Department of Environmental Health has analyzed pesticide use reports from the Riverside County Agricultural Commissioner's Office and has determined based on those reports that the District's water system is non-vulnerable to synthetic organic chemicals chemical contamination. This status will be reevaluated every three years.

Household Lead and Copper Monitoring

Constituent	MCL (MCLG)	PHG	Pinyon Pines Water District	Sample Date	Violation	Typical Source of Contaminant
Copper	1.3 (ppm)	0.3 of 5 samples ND	90 th percentile sample 5 samples ND	2021	no	Internal corrosion of Household plumbing systems; erosion of natural deposits; leaching from wood preservatives
0 samples exceeded the Regulatory Action Level for copper						
Lead	15 (ppb)	0.2 of 5 samples ND	90 th percentile sample 5 samples ND	2021	no	Internal corrosion of Household plumbing systems; discharge from Manufacturers; erosion of natural deposits
0 samples exceeded the Regulatory Action Level for 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. Pinyon Pines County 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 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/lead>.

Drinking Water Source Assessment information: Information on file with the Department of Environmental Health, County of Riverside, California. (760) 863-7570. Assessment completed in June 2002. The source is considered most vulnerable to the following activities not associated with any detected contaminants: Managed Forests and Wells – Water Supply. There have been no contaminants detected in the water supply, however the source is still considered vulnerable to activities located near the drinking water source.