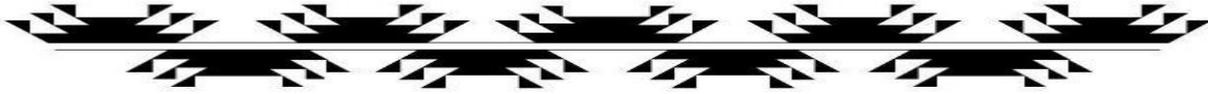


# HOOPA VALLEY PUBLIC UTILITIES DISTRICT

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## Hoopa Valley-Wide System Annual Water Quality Report

Public Water System #090605126 2022

The Hoopa Valley Public Utilities District (HVPUD) presents this Consumer Confidence Report (CCR) to all customers in accordance with 40 CFR 141. HVPUD is committed to providing safe drinking water to this community by having qualified personnel who are certified by the California State Water Resources Control Board to operate, maintain, repair and manage our water treatment plants and the distribution system within the Hoopa Valley Indian Reservation. This CCR outlines where your drinking water comes from, how it is treated and test result analysis on the quality of Hoopa Valley's Public Water System.

This report is a snapshot of your water quality. Included are details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. We are committed to providing you with information because informed customers are our best allies.

### Updates from HVPUD

HVPUD was awarded grants from the USDA Rural Development and the Indian Health Service in the combined amount of \$3.2 Million Dollars for the funded for Campbell Creek Water Treatment Plant Modifications.

### **Do I need to take special precautions?**

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. The Environmental Protection Agency (EPA) and 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 Water Drinking Hotline (800-426-4791).

### **Where does my water come from?**

Your water comes from 2 surface water sources, the Trinity River and Campbell Creek.

### **Why are there contaminants in my 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 water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

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 including:

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, which 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, which 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 by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems; and radioactive contaminants, which 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, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

## WATER QUALITY TABLE

The table below lists all of the drinking water contaminants detected during the calendar year of this report. The presence of 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 the calendar year of the report. The EPA or the State requires monitoring for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently.

Disinfectants								
Contaminants	MRDLG	MRDL	Your Water	Range		Sample Date	MRDL Exceeded	Typical Source
				Low	High			
Chlorine, Units: Chlorine residual, ppm	4	4	0.9049	0.21	1.3	2022	No	Drinking water additive used for disinfection

Disinfection By-Products								
Contaminants	MCLG	MCL	Your Water	Range		Sample Date	Violation	Typical Source
				Low	High			
Five Haloacetic Acids (HAA5) Units: ppb	N/A	60	18	15	18	2022	No	By-product of drinking water chlorination
Total Trihalomethanes (TTHMs) Units: ppb	N/A	80	36	32	36	2022	No	By-product of drinking water chlorination

Inorganic Contaminants								
Contaminants	MCLG	MCL	Your Water	Range		Sample Date	Violation	Typical Source
				Low	High			
Barium Units: ppm	2	2	0.017	N/A	N/A	2022	No	Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits
Nitrate [reported as Nitrogen] Units: ppm	10	10	0.3	N/A	N/A	2022	No	Runoff and leaching from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Sodium Units: ppm	N/A	N/A	6.6	N/A	N/A	2022	No	Erosion of natural deposits; salt water intrusion

### Lead and Copper Rule

Contaminants	MRDLG	Action level	Your Water	Range	Sample Date	A.L. Exceeded	Typical Source
Copper Units: ppm - 90th Percentile	1.3	1.3	0.44	0 sites over Action Level	2021	No	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead Units: ppb - 90th Percentile	0	15	2.8	1 site over Action Level	2021	No	Corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits

Surface Water Treatment								
Contaminants	Process limit	Process Value	Your Water	Range		Sample Date	A.L. Exceeded	Typical Source
				LOW	High			
Highest % of Turbidity Results Above 0.3 NTU Limit Units: % Reported	Less than 5% Results exceed 0.3 NTU	5	5	N/A	N/A	2022	No	Soil runoff
Maximum Turbidity Reported Units: NTU	No Result Exceeds 1 NTU	1	0.02	N/A	N/A	2022	No	Soil runoff

## Special Education Statements

### Additional Information 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. PWS system 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 at 1-800-426-4791 or at <http://www.epa.gov/your-drinking-water/basic-information-about-lead-drinking-water>.

### Additional Information for Turbidity

Turbidity is a measure of the clarity of water. We monitor this as an indicator of the effectiveness of our filtration system.

## Microbiological Testing

We are required to test your water regularly for signs of microbial contamination. Positive test results could lead to follow-up investigations called assessments and potentially the issuance of public health advisories. Assessments could lead to required corrective actions. The information below summarizes the results of those tests.

Calendar Year	Sampling Requirements	Sampling Conducted (months)	Total E.coli Positive	Assessment Triggers	Assessments Conducted
2022	4 Samples due monthly	12 out of 12	0	0	0

## Significant Deficiencies

Sanitary deficiencies are defects in a water system's infrastructure, design, operation, maintenance, or management that cause, or may cause interruptions to the "multiple barrier" protection system and adversely affect the system's ability to produce safe and reliable drinking water in adequate quantities.

The following is a listing of significant deficiencies that have yet to be corrected. Your public water system is still working to correct these deficiencies and interim milestones are shown, as applicable.

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**Deficiency Title: Cable Opening in Roof**

Date Identified: 8/8/2017 Overall Due Date: 7/31/2022

Deficiency Description: Redwood tanks have openings in the roof for the target cables. These openings can allow contaminated rain water, insects, dust and other contaminants to enter the tank.

Corrective Action Plan:

**Milestone completed by 3/19/2019**

*Corrective Action Notes: Funding approved by IHS to replace several storage tanks*

**Milestone completed by 10/6/2020**

*Corrective Action Notes: Geo tech work done. Tanks should be replaced by summer 2022.*

**Milestone Completed 6/1/2023**

*Corrective action Notes: Construction of one of the three redwood tanks has started and is expected to be completed by end of year 2023. The other 2 are being replaced in the next two years.*

**Deficiency Title: Substandard Hatch**

Date Identified: 8/8/2017 Overall Due Date: 7/31/2022

Deficiency Description: Redwood and HDPE tanks have manhole access openings that are poorly designed and difficult to maintain.

Corrective Action Plan:

**Milestone completed by 10/6/2020**

*Corrective Action Notes: Redwood tank replacement due summer 2022.*

**Milestone Completed 6/2023**

*Corrective action Notes: ONE OF THE THREE Redwood Tank is being replaced summer of 2023 and the other 2 are being replaced by end of year 2025.*

**Deficiency Title: Telescope Tank (25,000-gallons), Upper Community Rd (Shop Ctr) Tank, and N Agency Tank**

Date Identified: Overall Due Date: 3/31/2023

Deficiency Description: These tanks have several potential openings for contaminants to enter the water supply: holes in the redwood; lack of seal between the roof and shell (wall); unsealed and overlapping covers on the roof hatch; unscreened, shrouded and covered vents, etc. The roofs on several of these tanks could not be accessed during the survey due to safety concerns. These tanks are targeted for replacement, but replacement is not immediate.

Corrective Action Plan: Safely and thoroughly inspect the tanks. Any direct openings to the tank's interior need to be plugged or, at the very least, screened, and shrouded. The repairs can be temporary due to the future replacement of the tanks but need to be completed to prevent immediate routes of contamination.

The following recommendations can be used in making the needed repairs:

Holes: Redwood plugs, or another suitable material, could be used to fill the holes, or surface patches could be used.

Roof Access Hatches: To protect stored water from contamination, a solid, watertight, overlapping, and lockable hatch cover needs to be installed. The hatch cover needs to be gasketed. The gasket should provide an airtight seal to prevent the entry of dust and insects into the storage tank. The gasket material should have an NSF Standard 61 certification for contact with potable water. For more information on the NSF Standard 61 certification, please consult the following website:

<http://www.nsf.org/services/by-industry/water-wastewater/municipal-water-treatment/nsf-ansi-standard-61>

Soffit Screens and Openings Between the Tank Shell (Wall) and Roof: The soffit vents need to be screened with fine-mesh screening to prevent insects from entering the tank. The openings between the tank shell and the roof structure need to be sealed. The openings could be caulked, stuffed with stainless steel wool, or screened with fine-mesh screening.

Vent Screen: The vents should be equipped with a cover that shrouds the screen to prevent air-borne contaminants from entering the tank. The vent screen should fit properly, be made of non-corrodible material and be of fine enough mesh to prohibit the entry of

insects and birds (16-24 mesh).

**Milestone completed by 5/28/2021**

*Corrective Action Notes: Screening is placed over holes of the 3 redwood tanks.*

**Milestone completed by 3/2023**

*Holes in tanks have been Plugged and or screened and are updated and improved every 6 months. Soffit Screens and Openings Between the Tank Shell (Wall) and Roof have been screened as instructed. And vent screens have been shrouded and screened and are inspected and improved every 6 months*

## Definitions

<b>Term</b>	<b>Definition</b>
ppm	parts per million, or milligrams per liter (mg/L)
ppb	parts per billion, or microgram per liter (ug/L)
positive samples	the number of positive samples taken that year
% positive samples/month	% of samples taken monthly that were positive
NTU	Nephelometric Turbidity Unit. A measure of the clarity of water.
ND	Not detected
N/A	Not applicable
MCLG	Maximum Contaminant Level Goal: The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
MCL	Maximum Contaminant Level: The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
MRDL	Maximum Residual Disinfectant Level
MRDLG	Maximum Residual Disinfectant Level Goal
TT	Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.
AL	Action Level: The concentration of a contaminant which, if exceeded, trigger treatment or other requirements which a water system must follow.
90th Percentile	Statistical value used to determine if Action Level is exceeded. Determined by calculating the value at which 90% of the samples tested were below that value.

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## How can I get involved?

Please feel free to contact the number provided below for more information or for a translated copy of the report if you need it in another language.

\*Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.\*

<b>For more information please contact:</b>
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