

# **Yurok - Kepel Annual Water Quality Report**

**Public Water System #090605033**

**2019**

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.

## **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 1 surface water source, Cappell 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.

| Contaminants                                 | MCLG | MCL | Your Water | Range<br>Low | Range<br>High | Sample<br>Date | Violation | Typical Source   |
|--|------|-----|------------|--------------|---------------|----------------|-----------|--|
| <b>Disinfection By-Products</b>              |      |     |            |              |               |                |           |  |
| Five Haloacetic Acids (HAA5)<br>Units: ppb   | N/A  | 60  | 35         | N/A          | N/A           | 2019           | No        | By-product of drinking water chlorination  |
| Total Trihalomethanes (TTHMs)<br>Units: ppb  | N/A  | 80  | 26         | N/A          | N/A           | 2019           | No        | By-product of drinking water chlorination  |
| <b>Inorganic Contaminants</b>                |      |     |            |              |               |                |           |  |
| Barium<br>Units: ppm                         | 2    | 2   | 0.0056     | N/A          | N/A           | 2018           | No        | Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits                  |
| Nitrate [reported as Nitrogen]<br>Units: ppm | 10   | 10  | 0.37       | N/A          | N/A           | 2019           | No        | Runoff and leaching from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits |
| Sodium<br>Units: ppm                         |      |     | 2.5        | 2.2          | 2.5           | 2019           | N/A       | Erosion of natural deposits; salt water intrusion  |

| Contaminants                 | MCLG | Action Level | Your Water | Range                     | Sample Date | Exceeded | Typical Source   |
|------------------------------|------|--------------|------------|---------------------------|-------------|----------|--|
| <b>Lead and Copper Rule</b>  |      |              |            |                           |             |          |  |
| Copper                       | 1.3  | 1.3          | 0.2715     | 0 sites over Action Level | 2016        | No       | Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives               |
| Units: ppm - 90th Percentile |      |              |            |                           |             |          |  |
| Lead                         | 0    | 15           | 1.8        | 0 sites over Action Level | 2016        | No       | Corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits |
| Units: ppb - 90th Percentile |      |              |            |                           |             |          |  |

## 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>.

## 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.

| Sampling Requirements | Sampling Conducted<br>(months) | Total E.Coli Positive | Assessment Triggers | Assessments Conducted |
|-----------------------|--------------------------------|-----------------------|---------------------|-----------------------|
| 1 Sample 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 by 12/31/2019. Your public water system is still working to correct these deficiencies and interim milestones are shown, as applicable.*

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**Deficiency Title: Cross-Connection**

Date Identified: 5/15/2018 Overall Due Date: 5/1/2020

Deficiency Description: The raw water is cross-connected to the filtered water effluent lines at multiple locations at the surface water treatment plant.

Corrective Action Plan: Sever all connections between filtered and raw water.

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**Deficiency Title: Overflow/Cross-Connection**

Date Identified: 5/15/2018 Overall Due Date: 5/1/2020

Deficiency Description: A storage tank shares a common overflow with the filter plant.

Corrective Action Plan: Eliminate the cross-connection

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**Deficiency Title: Lack of Personal Protective Equipment**

Date Identified: 9/5/2019 Overall Due Date: 4/30/2020

Deficiency Description: An eyewash-drench shower is not available at the treatment building where chemical is added to the vat (Photo 14).

Corrective Action Plan: Purchase, a squeeze bottle eyewash kit to be stored in the treatment area where the chemicals are added. This is required by 29 CFR 1910.151I, which states that, "where the eyes or body of any person may be exposed to injurious corrosive materials, suitable facilities for quick drenching or flushing of the eyes and body shall be provided within the work area for immediate emergency use."

## Unit Descriptions

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| <b>Term</b>              | <b>Definition</b>   |
|--------------------------|---|
| ppm                      | ppm: parts per million, or milligrams per liter (mg/L)  |
| ppb                      | ppb: parts per billion, or microgram per liter (ug/L)   |
| positives samples        | positive samples/yr: the number of positive samples taken that year   |
| % positive samples/month | % positive samples/month: % of samples taken monthly that were positive   |
| N/A                      | N/A: Not applicable   |
| ND                       | ND Not detected   |
| NR                       | NR: Monitoring not required, but recommended.   |
| MCLG                     | 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                      | 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. |
| TT                       | TT: Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.  |
| AL                       | AL: Action Level: The concentration of a contaminant which, if exceeded, trigger treatment or other requirements which a water system must follow.  |

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## Monitoring and Reporting Violations

| Contaminant Name<br>Rule | Type of Violation  | Begin/End<br>Date      | Comments  | Steps Taken to<br>Correct the<br>Violation  | Return to<br>Compliance | Return<br>Date | Action<br>Comment                      |
|--------------------------|--|------------------------|---|---|-------------------------|----------------|--|
| SWTR<br>Water            | Failure to maintain<br>adequate treatment  | 2/1/2019<br>2/28/2019  | Failure to meet CT, failure<br>to report turbidity and<br>complete CT data.                         | required treatment is<br>provided and operated<br>according to all<br>requirements. | RTC is achieved once    | Yes            | 5/25/2019<br>Boil<br>Advisoring lifted |
| SWTR                     | Failure to report turbidity,<br>Chlorine residuals or<br>Contact Time                      | 3/1/2019<br>3/31/2019  | Monthly operating report<br>(MOR) submitted, but<br>incomplete.                                     | Reporting monitoring<br>results as required.  | Yes                     | 5/25/2019      | Boil Water<br>Advisoring lifted        |
| SWTR                     | Failure to report turbidity,<br>Chlorine residuals or<br>Contact Time                      | 1/1/2019<br>1/31/2019  | Monthly operating report<br>(MOR) submitted, but<br>incomplete.                                     | Reporting monitoring<br>results as required.  | Yes                     | 5/25/2019      | Boil Water<br>Advisoring lifted        |
| Lead and Copper Rule     | Failure to submit Followup<br>and Routine Sampling<br>results for Lead and<br>Copper Rule. | 1/1/2017<br>12/31/2019 | Reported 0 of the 5<br>required sets of Lead and<br>Copper monitoring results<br>due every 3 years. | Reporting monitoring<br>results as required.  |                         |                |  |

What should I do, as a consumer?

There is nothing you need to do at this time.

What is being done by the utility?

All violations have returned to compliance. We now have a qualified operator for this system as required by the EPA. The Boil Water Advisory that had been in effect since July 2018 was lifted on May 23, 2019 due to qualified operator and all monitoring requirements being met.

### 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.

#### For more information please contact:

Mike Searcy, Public Water Systems Superintendent, P.O. Box 1027 , Klamath, California 95548

**Phone:** (530) 625-4130 ext 1625

**Fax:** (530) 625-1942