



**ENVIRONMENTAL ANALYSES**

Dear Client:

Caltest provides a variety of water analyses, but cannot provide an opinion regarding the quality of the water or its suitability for any particular use. If you would like information, please feel free to contact any of the following suggested resources listed below.

**Human Health Concerns:**

EPA Safe Drinking Water Hotline	800/426-4791
Napa County Environmental Health	707/253-4471
Sonoma County Environmental Health	707/565-6565

**Irrigation Concerns:**

University of California at Davis Department of Land, Air, and Water Resources/ Cooperative Extension. Ask for Blaine Hanson or Steve Grattan	530/752-1130
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Thank you for choosing Caltest for your water testing needs. Please feel free to contact us if we can provide you with any further testing assistance.

Sincerely,  
Caltest Analytical Laboratory

Todd M Albertson  
Vice President

**(For your information, the next page contains various regulatory limits)**

The following information is from California Code of Regulations Title 22, Napa County Env. Health "Interpreting Drinking Water Test Results" and UC Davis Department of Land, Air, and Water Resources - Cooperative Extension. This information is provided for your convenience. Caltest does not provide consultation regarding the suitability of water for a given purpose.

**Arsenic** has a drinking water Maximum Contaminant Level (MCL) of 10 ug/L (ppb) or 0.010 mg/L (ppm)

**Boron** has an agricultural recommended limit and a state drinking water Action (Advisory) Limit of 1000 ug/L (ppb) or 1 mg/L (ppm). Boron affects the health and production of boron sensitive plants. Drinking water with greater than 10 times the Action Limit Level are recommended for removal from service.

**Calcium** and **Magnesium** are related to water hardness. See Hardness remarks.

**Chloride** has a drinking water Maximum Contaminant Level (MCL) of 600 mg/L, with a recommended level of 250 mg/L and a short-term limit of 600 mg/L.

**Copper** has a drinking water Maximum Contaminant Level (MCL) of 1000 ug/L (ppb) or 1 mg/L (ppm).

**Electrical Conductance** has a drinking water Maximum Contaminant Level (MCL) of 1,600 umhos/cm, with a recommended level of 900 umhos/cm and a short term limit of 2,200 umhos/cm. Electrical Conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimeter at 25 degrees C.

**Fluoride** has a recommended level of 1.0 mg/L in temperate climates. Fluoride in concentrations greater than 3 mg/L can cause dental fluorosis (a brownish discoloration of the teeth).

**Iron** has a drinking water Maximum Contaminant Level (MCL) of 300 ug/L (ppb) or 0.3 mg/L (ppm).

**Hardness** is due primarily to calcium and magnesium carbonates and bi-carbonates. Up to 60 mg/L is SOFT. Between 60 to 120 mg/L is MODERATE (typically most desirable). Between 120 to 180 mg/L is HARD. Over 180 mg/L is VERY HARD.

**Manganese** has a drinking water Maximum Contaminant Level (MCL) of 50 ug/L (ppb) or 0.05 mg/L (ppm).

**Sodium** has a recommended limit of 100 mg/L. According to the American Heart Association, water containing more than 270 mg/L should not be consumed by those on a moderately restricted sodium diet.

**Nitrate as N**, has a drinking water Maximum Contaminant Level (MCL) of 10 mg/L.

**Nitrate as NO<sub>3</sub>** has a drinking water MCL of 45 mg/L.

**Lead** has a drinking water Action Limit of 15 ug/L (ppb) or 0.015 mg/L (ppm).

**pH** suggested level is 6.5 - 8.5.

**Silica** has a recommended limit of 70 mg/L. Silica in water may etch various household materials such as leaded crystal, marble, tile, windows, and porcelain.

**Sulfate** has a drinking water Maximum Contaminant Level (MCL) of 500 mg/L, with a recommended level of 250 mg/L and a short term limit of 600 mg/L.

**Zinc** has a drinking water Maximum Contaminant Level (MCL) of 5000 ug/L (ppb) or 5 mg/L (ppm).

[www.CaltestLabs.com](http://www.CaltestLabs.com)

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