

REQUIRED TESTING FOR PRIVATE DRINKING WATER WELLS

MAXIMUM CONTAMINANT LEVELS FOR DRINKING WATER
 WATER CODE: CCR -TITLE 22, CHAPTER 15, ARTICLES 3, 4, 5.5, 16
 MARIN COUNTY CODE: SEC. 7.28.10

Bacteriological (Primary Standards)

Coliform bacteria	ABSENT / NONE
<u>E. coli</u>	ABSENT / NONE

Primary Inorganic Chemical Standards

MCL (*Maximum Contaminant Levels*)
 (mg/l or ppm) ug/l (micrograms) or ppb

aluminum	1.0 mg/l	1000
antimony	0.006 mg/l	6
arsenic (revised 10-01)	0.01 mg/l	10
asbestos	7 MFL (million fibers per liter)	
barium	1.0 mg/l	1000
beryllium	0.004 mg/l	4
cadmium	0.005 mg/l	5
chromium	0.05 mg/l	50
cyanide (revised 06-03)	0.15 mg/l	150
fluoride	2.0 mg/l	2000
mercury	0.002 mg/l	2
nickel	0.1 mg/l	100
nitrate as (NO ₃)	45.0 mg/l	45000
nitrate as (N)	10.0 mg/l (as Nitrogen)	
nitrite	1.0 mg/l (as N)	
selenium	0.05 mg/l	50
thallium	0.002 mg/l	2

Secondary Drinking Water Standards (inorganic tests) – Groundwater and surface water sources

calcium	30 mg/l	
iron	0.3 mg/l	300
magnesium	125 mg/l	
manganese	0.05 mg/l	50
sodium	20 mg/l	
total alkalinity (sum of bicarbonate, carbonate, hydroxide alkalinity)	80 - 120 ppm	
total hardness	50 - 150 ppm	
pH	pH 6.5 – 8.5	

Additional Testing for Surface Water Sources (originating from or influenced by surface water, such as, springs, infiltration galleries, streams, lakes):

turbidity	0 - 5	units
<u>Secondary Standards with Ranges</u>	<u>Recommended</u>	<u>Upper</u>
chloride	250 -	500 mg/l
sulfate	250 -	500 mg/l
total dissolved solids	500 -	1000 mg/l

Organic Chemicals

ONLY IF REQUIRED BY EHS

(Often organic testing is not required. The health inspector requires organic chemical testing when the well is considered vulnerable to a past or current Potential Contaminating Activity. Such higher risk sites include those close to fuel tanks, certain commercial/ industrial activities or preparation areas for pesticides and herbicides. Unless geographical conditions suggest otherwise, a default radius of 600 feet is used to evaluate potential threats.)

Volatile Organic Chemicals	Table 64444-A (Primary Organic Standards)	- Industrial hydrocarbons
Synthetic Organic Chemicals	Table 64444-B (Primary Organic Standards)	- Biocides