

Summary of Detections Above a Drinking Water Standard

GAMA Domestic Well Project – Yuba County Focus Area (2002)

Total Number of Wells Sampled: 128

Chemical Constituent of Concern	Wells Above Public Drinking Water Standards		Range of Detections Above Public Drinking Water Standards	Public Drinking Water Standards		
	Number	Percent		MCL	SMCL	NL
Bacteria Indicators						
Total Coliform	31	24%	NA	Present		
Fecal Coliform	4	3%	NA	Present		
Metals						
Aluminum	26	20%	201 – 1,630 µg/L	1,000 µg/L	200 µg/L	
Antimony	1	1%	6.2 µg/L	6 µg/L		
Arsenic	7	5%	11 – 29 µg/L	10 µg/L		
Iron	21	17%	310 – 9,440 µg/L		300 µg/L	
Lead	2	2%	45 – 60 µg/L			15 µg/L
Manganese	39	30%	60 – 1,690 µg/L		50 µg/L	
Nickel	2	2%	113 – 180 µg/L	100 µg/L		
Thallium	1	<1%	2.2 µg/L	2 µg/L		
Major Ions & General Chemistry						
Electrical Conductivity	2	2%	1,670 – 2,020 µmhos/cm		1,600 µmhos/cm	
Nitrate (NO ₃ ⁻)	2	2%	57.59 mg/L	45 mg/L		
Total Dissolved Solids	2	2%	1,230 – 1,240 mg/L		1,000 mg/L	
Organic Compounds (Pesticides & VOCs)						
1,2-Dichloroethane	1	1%	1.4 µg/L	0.5 µg/L		
Trichloroethylene (TCE)	1	1%	180 µg/L	5 µg/L		
Notes:						
California Department of Public Health (CDPH) Public Drinking Water Standards used for comparison purposes only. Domestic well water quality in California is not regulated.						
Total well count Includes Pilot Study wells, and wells in the following adjacent counties: El Dorado (7), Placer (6), Sutter (3), Butte (2) and Nevada (2).						
MCL = CDPH Primary Maximum Contaminant Level; SMCL = CDPH Secondary Maximum Contaminant Level; NL = CDPH Notification Level						
NA = Coliform are evaluated on a presence/absence criteria. No range can be determined						
µg/L = micrograms per liter; mg/L = milligrams per liter; µmhos/cm = micromhos per centimeter; pCi/L = picocuries per liter						
VOCs = volatile organic compounds						