



Homeowner Expanded Analyses Package

Collection Procedures: Sample from a sink in the house or a spigot close to the well head, never from a hose. If the tap has an aerator, it should be removed. Sterilize the sampling point with flame or bleach, and then flush for 2 minutes. Fill up the provided bottles, being certain to fill the clear plastic bottle with the banded cap to slightly over the 100mL fill line. Keep the samples on ice during transport to the laboratory.

Arsenic (As) by EPA 200.8	CDPH regulates a maximum of 10.0 ug/L for public water systems
Boron (B) by EPA 200.8	EPA has no drinking water guidelines. For agricultural purposes, below 500 ug/L is satisfactory for all crops. Many sensitive crops are affected by 500 ug/L – 2,000 ug/L, and only tolerant crops produce yields in the 2,000 ug/L – 10,000 ug/L range.
Ca & Mg (Hardness) by SM2340B	Soft = 0 to 50mg/L Medium = 50 to 100mg/L Hard = 100 to 200mg/L Very Hard = > 200mg/L
Conductivity by SM2510B	< 900 umhos/cm is acceptable, while > 900 umhos/cm indicates that the water is very high in dissolved minerals.
Iron (Fe) by EPA 200.8	CDPH suggests a maximum of 300 ug/L for public water systems
Manganese (Mn) by EPA 200.8	CDPH suggests a maximum of 50 ug/L for public water systems
Sodium (Na) by EPA 200.8	No official guidelines. The American Heart Association suggests a maximum of 20,000 ug/L for sodium restricted diets.
Nitrate (as NO₃) by EPA 300.0	CDPH regulates a maximum of 45.0 mg/L for public water systems
Nitrite (as N) by EPA 300.0	CDPH regulates a maximum of 1.0 mg/L for public water systems
pH by SM4500	Acidic = under 6.5 / 6.5 – 8.0 = acceptable / Alkaline = over 8.0
Total Dissolved Solids by SM2540C	CDPH suggests a maximum of 500 mg/L for public water systems
Sulfate by EPA 300.0	CDPH suggests a maximum of 250 mg/L for public water systems
Total Coliform and E-Coli by SM9223 Colisure	Absent/Absent = No coliforms detected. Ideal for treated water. Present/Absent = Total coliform bacteria was detected, and the water is potentially unsafe, and suitable to disinfect. Present/Present = E-Coli bacteria present, and the water is unsafe.