

One sample is prepared from the two vials. Caution should be taken not to directly mix the contents of the two vials.

Add 900 mL of laboratory grade water to a one liter volumetric flask, pipet 10.0 mL of vial #1 and 10.0 mL of vial #2 into the flask. Mix well and dilute to the mark with laboratory grade water.

Caution: This sample may be tested for either **Calcium Hardness** or **Total Hardness as CaCO₃**. The USEPA has defined Calcium Hardness as the Calcium component of Total Hardness. USEPA recommends that laboratories use ASTM Method D511-93A or Standard Methods 3500-Ca-B to test Calcium Hardness. **If your Hardness method includes Magnesium then you should report your results under Total Hardness as CaCO₃.**

Analyte	Units	WS
Alkalinity as CaCO ₃	mg/L	25.0 - 200
Calcium	mg/L	30.0 - 90.0
Calcium Hardness as CaCO ₃	mg/L	75.0 - 375
Chloride	mg/L	5.00 - 100
Conductivity	umhos	250 - 2500
Magnesium	mg/L	2.00 - 20.0
Potassium	mg/L	10.0 - 40.0
Sodium	mg/L	12.0 - 24.0
Sulfate	mg/L	5.00 - 500
Total Dissolved Solids at 180°C	mg/L	200 - 450
Total Hardness as CaCO ₃	mg/L	83.0 - 307

