

Standard Sampling Procedures (APHA 2005)

Parameter	Container	Preservative	Maximum Holding Time
Acidity	P, G	Cool, 4°C	14 days
Alkalinity	P, G	Cool, 4°C	14 days
Biological Oxygen Demand	P, G, BOD bottle	Cool, 4°C	48 hours
Boron	P	none required	28 days
Chemical Oxygen Demand	P, G	Cool, 4°C; H ₂ SO ₄ to pH < 2	28 days
Chloride	P, G	None required	28 days
Chlorine, residual	P, G	None required	Analyse immediately
Cyanide	P, G	Cool, 4°C	14 days
Hardness	P, G	HNO ₃ to pH < 2	6 months
Metals, general	P, G	Filter; HNO ₃ to pH < 2	6 months
Chromium	P, G	Cool, 4°C	24 hours
Copper	P, G	Cool, 4°C	24 hours
Mercury	P, G	HNO ₃ to pH < 2	28 days
Ammonia	P, G	Cool, 4°C; H ₂ SO ₄ to pH < 2	28 days
Nitrate	P, G	Cool, 4°C	48 hours
Nitrate+nitrite	P, G	Cool, 4°C; H ₂ SO ₄ to pH < 2	28 days
Nitrite	P, G	Cool, 4°C	48 hours
Oil and grease	G	Cool, 4°C; H ₂ SO ₄ to pH < 2	28 days
Phenols	P, G	Cool, 4°C; H ₂ SO ₄ to pH < 2	28 days
Sulphate	P, G	Cool, 4°C	28 days
Coliform	P, G	Cool, 4°C, 0.008% Na ₂ SO ₄	6 hours

P – polyethylene; G = Glass



Collecting Groundwater Sample Using Bailer



Measuring Groundwater Table Using Dip Meter



Measuring Water In-situ Parameters Using Multimeter Probe