



How to take a water sample

1. Please note: Minimum Sample size – 1L.

Preparing the container:

2. Sterilize glass Coke bottles by boiling it in water for about 10 min. Let the bottles heat up gradually with the water. (cap off, but also in the water)
3. Remove the bottle and cap and let it cool down completely.
4. Alternatively, buy 1L bottled water at the shop (STILL, not carbonated or flavored), empty the content for later use (do not drink from the bottle as it would cause contamination) and use the container to collect the sample straight away. This will provide a “sterilized” container.

Preparing the source, taking the sample and getting it to the lab:

5. Let the borehole/well point run for minimum 10 minutes and then fill the bottle all the way to the top. (Take sample as close as possible to the actual borehole outflow)
6. As little as possible **air** should be trapped in the bottle when closed.
7. Cool down the bottle overnight in the refrigerator. (Do not freeze the sample)
8. Wrap it in news paper and then in plastic or any other isolating material.
9. The temperature should ideally stay under 15 degrees Celsius and above 8.
10. Place in a cardboard box and deliver to any of the labs indicated below.
11. Also attach the analytical parameters provided for the test for Iron Removal.
12. Once you have received the analytical results from the lab please send to us that we can do the process design and costing.

Take sample to the following laboratory and have it tested for the list on the next page:



VINLAB (Pty) Ltd

Distillery Rd, Stellenbosch, 7600, South Africa

Tel: 021 882 8866/7

Business Hours: Monday to Friday 8:00 – 17:00



Analytical Parameters to be tested:

pH (at 25 oC)	
Conductivity (mS/m) (at 25 oC)	
Total Dissolved Solids (mg/L)	
Turbidity (NTU)	
Colour (mg/L as Pt)	
Sodium (mg/L as Na)	
Potassium (mg/L as K)	
Magnesium (mg/L as Mg)	
Calcium (mg/L as Ca)	
Chloride (mg/L as Cl)	
Sulphate (mg/L as SO ₄)	
Nitrate & Nitrite Nitrogen (mg/L as N)	
Nitrate Nitrogen (mg/L as N)	
Nitrate Nitrogen (mg/L as N)	
Ammonia Nitrogen (mg/L as N)	
Total Alkalinity (mg/L as CaCO ₃)	
Total Hardness (mg/L as CaCO ₃)	
Fluoride (mg/L as F)	
Aluminum (mg/L as Al)	
Total Chromium (mg/L as Cr)	
Manganese (mg/L as Mn)	
Iron (mg/L as Fe)	
Nickel (mg/L as Ni)	
Copper (mg/L as Cu)	
Zinc (mg/L as Zn)	
Arsenic (mg/L as As)	
Selenium (mg/L as Se)	
Cadmium (mg/L as Cd)	
Antimony (mg/L as Sb)	
Mercury (mg/L as Hg)	
Lead (mg/L as Pb)	
Uranium (mg/L as U)	
Cyanide (mg/L as CN ⁻)	
Total Organic Carbon (mg/L as C)	
E.coli (count per 100 ml)	
Total Coliform Bacteria (count per 100 ml)	
Heterotrophic Plate Count (count per ml)	
Silica, Reactive (mg/L as SiO ₂)	
Phosphates Reactive mg/L as PO ₄)	
COD (mg/L)	