



# WATER TESTING

The Davis & Shirliff Water Testing Laboratory offers a wide range of Testing procedures in accordance with National, International and Industry/Client specific standards. All tests are carried out using high-precision testing equipment and provide accurate, high quality analysis for various application requirements.

Testing Applications	Parameters Analysed	Sample Required	Sample Volume (litres)
<b>Reverse Osmosis/ Basic Drinking/ Physiochemical Water Analysis</b>	pH, TDS, TSS, Salinity, Electrical Conductivity (EC), Turbidity, Iron, Manganese, Copper, Fluorides, Ammonia, Nitrate, Nitrites, Potassium, Phosphates, Silicon, Silica, Calcium, Magnesium, Calcium hardness, Magnesium hardness, Total hardness, Aluminium, Sulphates, Chlorides, Total Alkalinity, P-Alkalinity, Bicarbonates, Carbonates, Barium & Sodium. Colour is now included in all parameters analysed.	1 No. Raw water	1.5
<b>Reverse Osmosis Performance</b>	pH, TDS, TSS, Salinity, Electrical Conductivity (EC), Turbidity, Fluoride, Iron, Manganese, Silicon, Silica, Calcium, Magnesium, Calcium Hardness, Magnesium Hardness, Total hardness, Chloride, Total Alkalinity, Phenolphthalein Alkalinity, Bicarbonates, carbonates, Free Chlorine and Sodium.	2 No. Before and After RO plant	1
<b>Water Filtration Performance/ Pre-treatment</b>	pH, TDS, TSS, Salinity, Electrical Conductivity (EC), Turbidity, Iron, Manganese and Free Chlorine	2 No. Before and after filtration 1	1
<b>Water Softener Performance</b>	pH, TDS, TSS, Salinity, Electrical Conductivity (EC), Turbidity, Calcium, Magnesium, Calcium hardness, Magnesium hardness, Total hardness & Sodium.	2No. Before and After the Softener	1
<b>Boiler Water System Test</b>	pH, TDS, TSS, Electrical Conductivity (EC), Turbidity, P- Alkalinity, M- Alkalinity, Iron, Phosphate, Silica, Sulfite, Calcium hardness, Magnesium hardness, Total hardness & Chlorides,	3No. Feed water, Boiler water and Condensate inside the boiler *Onsite analysis is an option*	1
<b>Closed Cooling Water System Test</b>	pH, TDS, TSS, Salinity, Electrical Conductivity (EC), M- Alkalinity, Iron, Silica, Calcium hardness & Nitrite.	2No. make up water and the Recirculating cooling water *Onsite analysis is an option*	1
<b>Open Cooling Water System Test</b>	pH, TDS, TSS, Salinity, Electrical Conductivity(EC), M- Alkalinity, Iron, Silica, Calcium hardness, Chloride, Total hardness, Phosphate, Zinc, Langellier saturation index (LSI)	2No. Make up water and the recirculating cooling water *Onsite analysis is an option*	1
<b>Jar Test</b>	Optimum flocculant, pH and Chlorine dosage. Parameters analyzed, pH, Turbidity & Iron.	Varies	20
<b>Microbiological Test*</b>	Total Coliform and E.coli test and total viable count at 22°C and 37°C	1No. Raw water	1
<b>Legionella Test*</b>	Legionella bacteria	1No. Raw water	1

\* All samples for bacterial testing must be provided in a sterilised container