CP1000

The CP1000 has been specifically designed for testing a wide range of physical & chemical water quality parameters. The kit contains a carefully selected range of high quality digital instruments that makes it ideally suited for field based drilling engineers and groundwater testing applications.

The kit is based around the new direct reading Photometer 7100. It is capable of the analysis of over 40 different chemical parameters. It is fully portable, waterproof, and features pre-programmed test methods and touch screen operation. It provides instant and highly accurate results.

pH and Conductivity/TDS are measured using separate, waterproof, hand-held meters.

Turbidity is measured using a waterproof, hand-held digital meter. It is accurate in the range 0-1000NTU.

Also includes the Wagtech Digital Arsenator – the worlds only digital field instrument for the determination of arsenic in water down to ppb levels.

Supplied with all the necessary calibration consumables & solutions, dilution tube, full operating instructions and water quality report sheets. All components are housed in a waterproof, lightweight carry case for easy handling and storage.

Wag-WE10720 Wagtech CP1000 Portable Physico-Chemical Testing Laboratory.

Please Note: Reagents ordered separately
(See pages 30 and 32 for a full list of available photometer reagents, & accessories).

7100 Photometer

Digital Arsenator

Turbidity Meter

pH/temp/mV Meter

Conductivity/ TDS Meter

In many parts of the developing world, particularly in the dry and arid regions with limited rainfall or without access to surface water sources the reliance is very much upon developing alternative safe sources of drinking water. More often than not this means taking water from deep groundwater sources and aquifers. All over the world huge resource is employed in drilling borehole wells, its an expensive and skilled process requiring dedicated drilling rigs and trained engineers.

Given that so much time and effort is spent by numerous organisations trying to locate viable new water resources it seems crazy that the water obtained from these boreholes is virtually never tested with regards its suitability to drink. i.e. the water quality. Groundwater can contain various chemical substances that can be incredibly harmful to public health. Chemicals such as Fluoride, Nitrate, Manganese and Arsenic are just a few.

The problems with large populations drinking contaminated groundwater are highlighted by the scale of the Arsenic contamination problem in Bangladesh, and its devastating effect on poor, rural communities across a large area. It has been called the “Biggest Mass Poisoning in History”.

This highlights perfectly why “Water Quality Monitoring” has to be an integral part of the water supply process, and it’s a message Wagtech has been trying spread for a number of years.

It was a message that was listened to by N.P.N.W. Drilling, a Kenyan drilling contractor working regularly with the NGOs in remote areas of Northern Uganda. With the help of the Wagtech regional office in Kampala, they decided they should be testing the water from the boreholes they drill. With water taken from deep underground, micro-biological contamination is not generally an issue, so the requirement was for a kit that concentrated on the Physico-chemical parameters only. The CP1000 kit was what they decided upon. With its advanced digital instruments the results obtained were guaranteed to be accurate but it was the ease of use of the advanced photometer which so appealed to them. With next to no training at all, using the portable test kit the engineers drilling the boreholes were also able to provide instant on-site analysis of the chemical quality of the water. This approach led almost immediately to the identification of a serious fluoride problem at one of the drilling sites. Steps were taken to rectify the problem and the supply of potentially dangerous drinking water was averted.