



Version No: 1 Issue Date: 01/09/2011 Portfolio: Discrete Water Quality	Horizons Regional Council	Section No: 14.1 Page: 1 of 1
	Hydrology Operations Manual	

YSI Operational Use

Overview:

Horizons Regional Council's Catchment Data Team uses YSI professional plus handheld meters for determining and recording the following field parameters at all SoE, point discharge and groundwater sites where possible (the exception being sewage treatment ponds). The current meters are two-years old, and are still providing strong and accurate readings. Issues are quickly sorted, and replacement probes are easy to install.

General use:

Whenever using in the field be sure to have the steel protective casing screwed on. Do not throw the cable into the river. This can cause damage to the cable and/or the bulkhead, which can be expensive to repair as well as providing false or incorrect readings. They can be easily submerged within walking distance from the bank. Make sure to keep your meter clean at all times. Do not disconnect the cable bulkhead from the handheld meter unit; the unit has a seal to exclude dirt and water.

Taking readings:

Always use a calibrated instrument (section 14.2). Fully submerge meter probes into the stream (sea or lake), and ensure you have flow past the probes (they will not record accurate readings otherwise). Wait until the readings stabilise (usually around 5-10 minutes). Record readings onto the field sheet as required (section 14.1, appendix 1). Always record the meter number on the field sheet

Required parameters:

- Temperature °C
- Barometric Pressure (mbars)
- DO (%)
- DO (mg/L)
- Specific conductance $\mu\text{S}/\text{cm}$
- pH