

Section B6. Instrument/Equipment Testing, Inspection, and Maintenance Requirements

To minimize downtime of measurement systems, all field sampling and laboratory equipment must be maintained in working condition. Also, backup equipment or common spare parts will be available so that if any piece of equipment fails during use, repairs or replacement can be made as quickly as possible and the measurement tasks resumed.

Field Equipment - All field equipment which have manufacturer-recommended schedules of maintenance will receive preventive maintenance according to that schedule. Other equipment used only occasionally will be inspected for availability of spare parts, cleanliness, battery strength, etc. at least monthly and especially prior to being taken into the field. Common spare parts which should be available include, but are not limited to: batteries; tubes; light bulbs; rubber, Tygon™, polypropylene, or glass tubing; replacement probes; glassware. After use in the field, all equipment will be re-checked for needed maintenance.

Laboratory Equipment - Electronic laboratory equipment usually has recommended maintenance prescribed by the manufacturer. These instructions will be followed as a minimum requirement. Due to the cost of some laboratory equipment, back up capability may not be possible. But all commonly replaced parts will have spares available for rapid maintenance of failed equipment. Such parts include but are not limited to: batteries; tubes; light bulbs; tubing of all kinds; replacement specific ion electrodes; electrical conduits; glassware; pumps; etc.

A separate log book will be maintained for each type of equipment whether field or laboratory. All preventive or corrective maintenance will be recorded. The total history of maintenance performed will be available for inspection during a systems audit.