CALIBRATION WORK SHEET

Date of Calibration: _____   Technician: _____

DO membrane changed?   Y   N   Note: Should wait 6 to 8 hours before final DO calibration, run sensor for 15 minutes
in Discrete Run to accelerate burn-in.

Turbidity wiper changed?   Y   N   Wiper parks ≈ 180° from optics?   Y   N   Note: Change wiper if probe will not park correctly.

Chlorophyll wiper changed? Y   N   Wiper parks ≈ 180° from optics? Y   N   Note: Change wiper if probe will not park correctly.

Record battery voltage: _____

Record the following diagnostic numbers after/during calibration.

<u>Record Calibration Values</u>
Actual   After calibration

				Actual	After calibration
Conductivity cell constant _____	Range 5.0	± .5	Conductivity	_____	_____
pH MV Buffer 7 _____	Range 0 MV	± 50 MV	pH 7	_____	_____
pH MV Buffer 4 _____	Range +177 from 7 buffer MV		pH 4	_____	_____
pH MV Buffer 10 _____	Range −177 from 7 buffer MV		pH 10	_____	_____

NOTE: Span between pH 4 and 7 and 7 and 10 millivolt numbers   ORP   _____   _____
should be ≈ 165 to 180 MV

NOTE: Check response time in buffer change & in Tap Water

Depth   _____   _____

DO charge _____	Range 50	± 25	Turbidity	_____	_____
DO gain _____	Range 1.0	.7 to 1.5	Turbidity	_____	_____

Chlorophyll   _____   _____

Pressure Offset _____	Range −14.7	± 6 (non-vented)	Chlorophyll	_____	_____
Pressure Offset _____	Range 0	± 6 (vented)	DO	_____	_____
ORP mV Offset _____	Range 0	± 100			

DISSOLVED OXYGEN SENSOR OUTPUT TEST (after DO calibration probe in saturated air)

The following tests will confirm the proper operation of your DO sensor. The DO charge and gain must meet spec before proceeding.

610/650– Turn off the 610/650, wait 60 seconds. Power up 610/650 and go to the Run mode, watch the DO % output; it must display a positive number and decrease with each 4 second sample, eventually stabilizing to the calibration value in approximately 60 to 120 seconds. **Note:** You can disregard the first two samples they can be affected by the electronics warm-up.

PC – Stop discrete and unattended sampling. Confirm that auto-sleep RS-232 is enabled (found in Advanced Menu under Setup). Wait 60 seconds. Start discrete sampling at 4 seconds. Watch the DO % output, it must display a positive number and decrease with each 4 second sample, eventually stabilizing to the calibration value in approximately 60 to 120 seconds. **Note:** You can disregard the first two samples they can be affected by the electronics warm-up.

The **ACCEPT/REJECT** criteria as follows:
The DO output in % must start at a positive number and decrease during the warm up. Example: 117, 117, 114, 113, 110, 107, 104, 102, 101, 100, 100. Should the output display a negative number or start at a low number and climb up to the cal point, the probe is rejected and <u>must not be deployed</u>.

_____ ACCEPT   _____ REJECT

<u>Notes:</u>