CALIBRATION WORK SHEET pre check

Date of Calibration: 4/18/2015 Sonde ID: Ø36ØØ61AA

Technician: Gelpi

RP DO membrane changed? Y (N)

RP DO membrane o-ring changed? Y N

Note: Wait 3 to 6 hours before calibrating for unattended deployments; run in Discrete mode for 10 minutes to accelerate burn in. (Rapid Pulse DO Only)

~~Turbidity wiper changed? Y N~~

~~ROX DO wiper changed? Y N~~

~~BGA-PC wiper changed?~~ ~~Y~~ N

Chlorophyll wiper changed? Y N

BGA-PE wiper changed? Y N

Rhodamine wiper changed? Y N

Note: If parking problems occur with optical probes having a serial number 07L (Dec 07) or older, be sure the firmware is 3.06 or later. Parking issues with optical probes having a serial number prior to 07L may be related to a dirty wiper body or pad.

Record sonde battery voltage: 12 (if applicable)

Record the following diagnostic numbers after calibration.

6560 Conductivity cell constant 5.32118 Range 5.0 ± .45

1-Cond. 5.32118

Integrated conductivity cell constant ________ Range 5.0 ± .70

pH mv Buffer 7 ________ Range 0 ± 50 mv

pH mv Buffer 4 152.2 Range +180 ± 50 mv*

pH mv Buffer 10 ________ Range -180 ± 50 mv *

***Note:** Millivolt span between pH 4 and 7 should be ≈ 165 to 180 mv

Millivolt span between pH 7 and 10 should be ≈ 165 to 180 mv

DO charge (RP only) 43.1 Range 25 to 75

DO gain 1.18096 Range 0.7 to 1.4

ODO gain ________ Range 0.85 to 1.15

Turbidity standard used in calibration ________

Manufacturer and part number ________

25.4 x in Hg = mm Hg

Barometric Pressure: 758.714 mmHg

DO % Calculated – (BARO mmHg divided by 7.6) = % saturation

Example: 760 ÷ 7.6 = 100.0%

Record Calibration Values

	Standard	Pre Cal / Post Cal
Temperature		Sonde
Conductivity		/
pH 7		/
pH 4	4.0	4.03 3.98
pH 10		/
ORP		/
Turbidity		/
Turbidity		/
Turbidity 0.5		/
Chlorophyll		/
Chlorophyll		/
DO RP		98.1 / 100.2
DO ROX		/
BGA PE/PC		/
BGA PE/PC		/
Rhodamine		/

Depth Calibration - If zero was entered, record barometric pressure at time of calibration ________ mmHg

Depth Calibration - If offset depth was entered, record value ________ meters/feet and pressure ________ mmHg

Depth Calibration (Vented) – Acceptable calibration constant: 0.0 psig ± 0.15 ________

Notes:

{ YSI time 17:46 51
{ phone 17:44
before resetting

a checkout before delivery to boater. pH was fine & measured 4.03 the solution of 4.0 that it was stored in.

conductivity values were erratic. First, measured 50 mS/cm as 48. I calibrated it to 50 then ran 10 mS/cm solut. That was off. Then calibrated 10 mS/cm. Then tested 50 mS/cm again. I had to calibrate again

(pH-7) * K = -920.704

(pH-7) * K/mV = -5.23731

shall check conductivity measurement