

# CALIBRATION WORK SHEET

Date of Calibration: 7/8/2014  
 Technician: Gelpi

Sonde ID: 0360061AA

- RP DO membrane changed? Y  *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)*
- RP DO membrane o-ring changed? Y
- Turbidity wiper changed? Y  N  Chlorophyll wiper changed? Y  N
- ROX DO wiper changed? Y  N  BGA-PE wiper changed? Y  N
- BGA-PC 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: 12.5 (if applicable)

Record Calibration Values  
 Standard          Pre Cal / Post Cal

**Record the following diagnostic numbers after calibration.**

6560 Conductivity cell constant 4.86975 Range 5.0 ± .45  
 Integrated conductivity cell constant ? Range 5.0 ± .70  
 pH mv Buffer 7 -45.6 Range 0 ± 50 mv  
 pH mv Buffer 4 \_\_\_\_\_ Range +180 ± 50 mv\*  
 pH mv Buffer 10 -213 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) 36 Range 25 to 75  
 DO gain 1.05/14 Range 0.7 to 1.4  
 QDO gain ? Range 0.85 to 1.15

Turbidity standard used in calibration \_\_\_\_\_  
 Manufacturer and part number \_\_\_\_\_

Barometric Pressure: 1012.3 mb = 768.398 mmHg  
 DO % Calculated - (BARO mmHg divided by 7.6) = % saturation  
 Example: 760 ÷ 7.6 = 100.0%

~~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 \_\_\_\_\_~~

Temperature not checked Sonde  
 Conductivity 50 msp, 50.93, 50 @ 2.89°C  
 pH 7 7.0 6.9 / 6.99  
 pH 4 \_\_\_\_\_  
 pH 10 10 9.92 / 10  
 ORP \_\_\_\_\_  
 Turbidity \_\_\_\_\_  
 Turbidity \_\_\_\_\_  
 Turbidity 0.5 \_\_\_\_\_  
 Chlorophyll 0 \* / 0 /  
 Chlorophyll \_\_\_\_\_  
 DO RP \_\_\_\_\_ 100 /  
 DO ROX \_\_\_\_\_  
 BGA PE/PC \_\_\_\_\_  
 BGA PE/PC \_\_\_\_\_  
 Rhodamine \_\_\_\_\_  
\* forget measurement

Notes: Sonde time 19:33:16 @ 7:32 pm, next to correct

Battery life = 15.5 days

Free memory = 3.02 days

Sonde set to start sampling Saturday July 19, 2014 at 7:00 am

It will record for 48 hours.