

# CALIBRATION WORK SHEET

Date of Calibration: 3/22/2015  
 Technician: Gelpo

Sonde ID: 364461 AA

- RP DO membrane 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)*  
 RP DO membrane o-ring changed?  Y  N  
~~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: 120 (if applicable)

Record Calibration Values  
 Standard      Pre Cal / Post Cal

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

- 6560 Conductivity cell constant 4.86 Range 5.0 ± .45  
 Integrated conductivity cell constant ? Range 5.0 ± .70  
 pH mv Buffer 7 -16.7 Range 0 ± 50 mv  
 pH mv Buffer 4 \_\_\_\_\_ Range +180 ± 50 mv\*  
 pH mv Buffer 10 -184.0 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) \_\_\_\_\_ Range 25 to 75  
 DO gain \_\_\_\_\_ Range 0.7 to 1.4  
 ODO gain \_\_\_\_\_ Range 0.85 to 1.15

*Not recorded*

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

Barometric Pressure: 764.54 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	<u>patched</u>	Sonde
Conductivity	<u>50</u>	<u>4551 56</u>
pH 7	<u>7</u>	<u>7.13 12a</u>
pH 4	<u>4</u>	<u>3.88 4.23</u>
pH 10	<u>10</u>	<u>7.81 10.03</u>
ORP	_____	_____
Turbidity	_____	_____
Turbidity	_____	_____
Turbidity 0.5	_____	_____
Chlorophyll	_____	_____
Chlorophyll	_____	_____
DO RP	_____	_____
DO ROX	_____	_____
BGA PE/PC	_____	_____
BGA PE/PC	_____	_____
Rhodamine	_____	_____

Notes: Clock was ~ 50 minutes slow