CALIBRATION WORK SHEET

Date of Calibration: 6/24/2014 Sonde ID: 03GØØ61 AA
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) 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: 13.3 (if applicable)

Record the following diagnostic numbers after calibration.

6560 Conductivity cell constant	4.96	Range 5.0 ± .45	
Integrated conductivity cell constant	?	Range 5.0 ± .70	
pH mv Buffer 7	-52.5	Range 0 ± 50 mv	
pH mv Buffer 4	125.4	Range +180 ± 50 mv*	
pH mv Buffer 10	-219.3	Range -180 ± 50 mv *	
DO charge (RP only)	23.7	Range 25 to 75	
DO gain	1.1164	Range 0.7 to 1.4	
ODO gain	?	Range 0.85 to 1.15	

*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

Turbidity standard used in calibration NA

Manufacturer and part number NA

Barometric Pressure: 737.3* 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	23.88°C	23.84 Sonde
Conductivity	50 mS/cm	49.48/50
pH 7	7	7.48/7.06
pH 4	4	4.42
pH 10	10	10.42
~~ORP~~		/
~~Turbidity~~		/
~~Turbidity~~		/
~~Turbidity 0.5~~		/
Chlorophyll	0	1 / 0.2
~~Chlorophyll~~		/
DO RP	%	102.5% 97.1%
~~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: *Used "true" Barometric Pressure using True BP = corrected BP − 0.025 ALt (ft) pressure from Van Nuys Airport, ALt = 802 ft
YSI time was 4 minutes fast.
Battery life was 15 days
temperature checked against average of 7 Onset thermographs
Free memory 4.51 days file in ERICA03