



SEA-BIRD ELECTRONICS, INC.

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Conductivity Calibration Report

Customer:	Pacific Marine Environmental Lab		
Job Number:	62473	Date of Report:	1/28/2011
Model Number	SBE 37SM	Serial Number:	37SM25541-1853

Conductivity sensors are normally calibrated 'as received', without cleaning or adjustments, allowing a determination of sensor drift. If the calibration identifies a problem or indicates cell cleaning is necessary, then a second calibration is performed after work is completed. The 'as received' calibration is not performed if the sensor is damaged or non-functional, or by customer request.

An 'as received' calibration certificate is provided, listing the coefficients used to convert sensor frequency to conductivity. Users must choose whether the 'as received' calibration or the previous calibration better represents the sensor condition during deployment. In SEASOFT enter the chosen coefficients using the program SEACON. The coefficient 'slope' allows small corrections for drift between calibrations (consult the SEASOFT manual). Calibration coefficients obtained after a repair or cleaning apply only to subsequent data.

'AS RECEIVED CALIBRATION'

☒ Performed ☐ Not Performed

Date: 1/19/2011 Drift since last cal: -0.00150 PSU/month

Comments:

'CALIBRATION AFTER CLEANING & REPLATINIZING'

☒ Performed ☐ Not Performed

Date: 1/28/2011 Drift since 10 Jan 09 +0.00180 PSU/month

Comments:

**Measured at 3.0 S/m*

Cell cleaning and electrode replatinizing tend to 'reset' the conductivity sensor to its original condition. Lack of drift in post-cleaning-calibration indicates geometric stability of the cell and electrical stability of the sensor circuit.