## Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4078 CALIBRATION DATE: 05-Feb-14

SBE 37 CONDUCTIVITY CALIBRATION DATA PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

## **COEFFICIENTS:**

g = -1.035679e+000	CPcor = -9.5700e-008
h = 1.485177e - 001	CTcor = 3.2500e-006
i = -1.165640e - 004	WBOTC = $-1.0787e-005$
i = 3.424292e - 005	

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREO (Hz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2641.65	0.0000	0.00000
1.0000	34.7364	2.96979	5187.73	2.96978	-0.00000
4.5000	34.7166	3.27624	5381.80	3.27625	0.00001
15.0000	34.6741	4.25601	5959.24	4.25601	-0.00000
18.5000	34.6649	4.60045	6149.10	4.60044	-0.00001
24.0000	34.6546	5.15723	6443.93	5.15724	0.00001
29.0000	34.6484	5.67791	6707.60	5.67790	-0.00000

f = INST FREQ \* sqrt(1.0 + WBOTC \* t) / 1000.0

Conductivity =  $(g + hf^2 + if^3 + jf^4) / (1 + \delta t + \epsilon p)$  Siemens/meter

 $t = temperature[^{\circ}C)$ ; p = pressure[decibars];  $\delta = CTcor$ ;  $\varepsilon = CPcor$ ;

Residual = instrument conductivity - bath conductivity

Date, Slope Correction

10-Dec-11 0.9998978

