

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2004
 CALIBRATION DATE: 31-May-08

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

COEFFICIENTS:

g = -9.593662e-001	CPcor = -9.5700e-008
h = 1.356727e-001	CTcor = 3.2500e-006
i = -1.225362e-004	WBOTC = 8.2086e-006
j = 3.189670e-005	

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (Hz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2659.91	0.00000	0.00000
1.0000	35.0731	2.99581	5393.98	2.99583	0.00002
4.5000	35.0533	3.30487	5599.72	3.30486	-0.00001
15.0001	35.0095	4.29280	6210.88	4.29276	-0.00004
18.5000	35.0002	4.64012	6411.60	4.64013	0.00001
24.0000	34.9893	5.20150	6722.97	5.20155	0.00004
29.0000	34.9823	5.72644	7001.15	5.72642	-0.00002
32.5000	34.9772	6.10086	7192.79	6.10086	-0.00001

$$f = \text{INST FREQ} * \sqrt{1.0 + \text{WBOTC} * t} / 1000.0$$

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

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

$$\text{Residual} = \text{instrument conductivity} - \text{bath conductivity}$$

