SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 4920
CALIBRATION DATE: 04-Mar-09

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

COEFFICIENTS:

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g = -1.019234e+000
h =  1.578953e-001
i = -6.677783e-005
j =  3.260321e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  1.9888e-005
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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	2539.81	0.00000	0.00000
0.9999	34.8339	2.97732	5023.26	2.97732	0.00001
4.4999	34.8141	3.28453	5211.76	3.28453	-0.00000
15.0000	34.7710	4.26664	5772.38	4.26663	-0.00002
18.5000	34.7618	4.61192	5956.66	4.61191	-0.00001
24.0000	34.7514	5.17004	6242.73	5.17005	0.00001
29.0000	34.7452	5.69198	6498.53	5.69200	0.00002
32.5001	34.7413	6.06440	6674.84	6.06438	-0.00002

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

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

t = temperature[°C)]; p = pressure[decibars]; δ = CTcor; ε = CPcor;

Residual = instrument conductivity - bath conductivity