SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 4254
CALIBRATION DATE: 03-Jan-08

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

COEFFICIENTS:

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g = -1.021347e+000
h =  1.514674e-001
i = -6.400989e-005
j =  3.019543e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  8.9558e-006
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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	2596.15	0.00000	0.00000
1.0000	34.9738	2.98814	5137.06	2.98817	0.00003
4.5000	34.9540	3.29643	5329.97	3.29643	-0.00000
15.0000	34.9103	4.28192	5903.69	4.28184	-0.00008
18.5000	34.9008	4.62837	6092.32	4.62836	-0.00001
24.0000	34.8900	5.18837	6385.13	5.18843	0.00006
29.0000	34.8831	5.71203	6646.92	5.71208	0.00006
32.5000	34.8783	6.08558	6827.29	6.08552	-0.00006

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