SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0814
CALIBRATION DATE: 11-Jun-09

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

COEFFICIENTS:

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g = -1.071959e+000
h =  1.541963e-001
i = -4.266562e-004
j =  5.868642e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC = -7.7537e-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	2645.06	0.00000	0.00000
1.0000	34.6680	2.96449	5127.33	2.96451	0.00002
4.5000	34.6486	3.27046	5318.22	3.27045	-0.00001
15.0000	34.6065	4.24859	5886.76	4.24856	-0.00003
18.5000	34.5974	4.59245	6073.87	4.59245	-0.00001
24.0000	34.5872	5.14830	6364.53	5.14833	0.00003
29.0000	34.5817	5.66820	6624.64	5.66823	0.00002
32.4999	34.5791	6.03928	6804.07	6.03925	-0.00003

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