SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2049
CALIBRATION DATE: 13-Sep-07

SBE4 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Seimens/meter

GHIJ COEFFICIENTS

```
g = -1.05590532e+001
h =  1.46282036e+000
i = -4.25363030e-003
j =  5.09846654e-004
CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
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ABCDM COEFFICIENTS

```
a =  4.29497096e-006
b =  1.45173193e+000
c = -1.05358473e+001
d = -8.18792114e-005
m =  5.7
CPcor = -9.5700e-008 (nominal)
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BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREO (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.69384	0.00000	0.00000
-1.0002	34.8872	2.80974	5.15538	2.80970	-0.00003
0.9998	34.8876	2.98146	5.26848	2.98149	0.00003
14.9998	34.8894	4.27961	6.05415	4.27962	0.00001
18.4998	34.8894	4.62700	6.24732	4.62701	0.00001
28.9998	34.8874	5.71263	6.81486	5.71258	-0.00005
32.4998	34.8811	6.08599	6.99914	6.08602	0.00004

Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \varepsilon p)$ Siemens/meter

Conductivity = $(af^m + bf^2 + c + dt) / [10 (1 + \varepsilon p)$ Siemens/meter

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

Residual = (instrument conductivity - bath conductivity) using g, h, i, j coefficients