SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2165
CALIBRATION DATE: 29-Apr-05

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

GHIJ COEFFICIENTS

```
g = -1.07746602e+001
h =  1.48155068e+000
i = -2.48043447e-003
j =  2.47324677e-004
CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
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ABCDM COEFFICIENTS

```
a =  3.92089824e-008
b =  1.47447594e+000
c = -1.07586702e+001
d = -8.23467477e-005
m =  7.4
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	2.70123	0.00000	0.00000
-0.9999	34.9335	2.81314	5.13525	2.81312	-0.00003
1.0269	34.9338	2.98739	5.24902	2.98742	0.00004
15.0001	34.9344	4.28457	6.02825	4.28457	0.00000
18.5001	34.9345	4.63236	6.22047	4.63233	-0.00004
29.0001	34.9325	5.71921	6.78592	5.71928	0.00006
32.5001	34.9275	6.09319	6.96970	6.09315	-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