SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0775
CALIBRATION DATE: 21-Sep-04

SBE19 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Seimens/meter

GHIJ COEFFICIENTS

g = -3.90547015e+000
h = 4.66617000e-001
i = 9.35877701e-004
j = -1.71718925e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.01740888e-002
b = 4.53813537e-001
c = -3.89188560e+000
d = -9.08868340e-005
m = 2.3
CPcor = -9.5700e-008 (nominal)

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREO (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2.88516	0.00000	0.00000
1.0000	34.6682	2.96451	8.41959	2.96450	-0.00001
4.5000	34.6478	3.27039	8.79289	3.27040	0.00002
15.0000	34.6044	4.24836	9.89095	4.24832	-0.00004
18.5000	34.5950	4.59217	10.24879	4.59221	0.00005
24.0000	34.5853	5.14805	10.80181	5.14807	0.00002
28.9999	34.5806	5.66803	11.29423	5.66796	-0.00007
32.5000	34.5788	6.03924	11.63301	6.03928	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