## **SEA-BIRD ELECTRONICS, INC.**

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SENSOR SERIAL NUMBER: 1804 CALIBRATION DATE: 16-Dec-10 SBE 37 CONDUCTIVITY CALIBRATION DATA PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

## **COEFFICIENTS:**

g = -9.771603e-001	CPcor = -9.5700e-008
h = 1.385025e-001	CTcor = 3.2500e-006
i = -2.121653e-004	WBOTC = $2.7581e-006$
j = 3.948303e - 005	

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	2658.82	0.0000	0.00000
0.9999	34.5784	2.95755	5330.20	2.95758	0.00003
4.5000	34.5584	3.26278	5532.16	3.26275	-0.00003
15.0000	34.5145	4.23849	6132.49	4.23848	-0.00001
18.5000	34.5048	4.58148	6329.67	4.58148	0.00000
24.0000	34.4937	5.13591	6635.66	5.13594	0.00003
28.9999	34.4867	5.65437	6909.10	5.65435	-0.00002

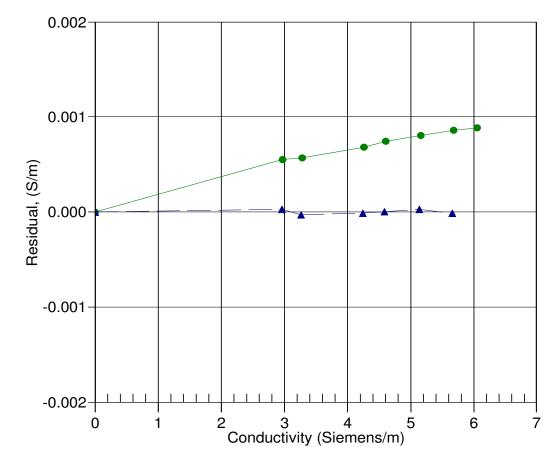
f = INST FREQ \* sqrt(1.0 + WBOTC \* t) / 1000.0

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

 $t = temperature[°C)]; p = pressure[decibars]; \delta = CTcor; \epsilon = CPcor;$ 

Residual = instrument conductivity - bath conductivity

Date, Slope Correction



27-Nov-07 0.9998433 16-Dec-10 1.0000000