## Sea-Bird Electronics, Inc.

## 13431 NE 20th Street, Bellevue, WA 98005-2010 USA

Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 1860 CALIBRATION DATE: 10-Dec-11

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

## COEFFICIENTS:

g =	-1.031694e+000	CPcor =	-9.5700e-008
h =	1.440441e-001	CTcor =	3.2500e-006
i =	-1.802422e-004	WBOTC =	4.4809e-006
j =	3.867317e-005		

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREO (Hz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2678.03	0.0000	0.00000
1.0000	34.8490	2.97849	5274.08	2.97852	0.00002
4.5000	34.8279	3.28571	5471.45	3.28570	-0.00001
15.0000	34.7821	4.26786	6058.59	4.26783	-0.00003
18.5000	34.7708	4.61298	6251.50	4.61296	-0.00002
24.0000	34.7580	5.17091	6551.05	5.17096	0.00005
29.0000	34.7478	5.69236	6818.70	5.69239	0.00003
32.4999	34.7388	6.06399	7002.97	6.06396	-0.00003

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

 $t = temperature[^{\circ}C)$ ; p = pressure[decibars];  $\delta = CTcor$ ;  $\varepsilon = CPcor$ ;

Residual = instrument conductivity - bath conductivity

Date, Slope Correction

