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: 0818
CALIBRATION DATE: 30-Oct-13

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

COEFFICIENTS:

```
g = -1.070137e+000
h =  1.550992e-001
i = -4.494301e-004
j =  5.876991e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC = -7.3731e-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	2635.46	0.00000	0.00000
1.0000	34.6908	2.96626	5114.20	2.96627	0.00001
4.4999	34.6708	3.27234	5304.73	3.27233	-0.00000
15.0000	34.6279	4.25094	5872.24	4.25093	-0.00001
18.5000	34.6190	4.59501	6059.02	4.59500	-0.00001
24.0000	34.6093	5.15123	6349.20	5.15125	0.00002
29.0000	34.6046	5.67153	6608.91	5.67154	0.00000
32.5000	34.6022	6.04286	6788.07	6.04286	-0.00001

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

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

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

Residual = instrument conductivity - bath conductivity