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: 0304
CALIBRATION DATE: 05-Feb-14

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

GHIJ COEFFICIENTS

```
g = -4.08156681e+000
h =  4.33728011e-001
i = -7.79042716e-004
j =  5.75615454e-005
CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
```

ABCDM COEFFICIENTS

```
a =  2.68393319e-007
b =  4.30481589e-001
c = -4.06737866e+000
d = -6.30990305e-005
m =  5.6
CPcor = -9.5700e-008 (nominal)
```

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	3.07421	0.00000	0.00000
-1.0000	34.7297	2.79825	8.62236	2.79828	0.00003
1.0000	34.7299	2.96928	8.84875	2.96926	-0.00003
15.0000	34.7289	4.26202	10.39938	4.26199	-0.00004
18.5000	34.7283	4.60795	10.77571	4.60797	0.00002
29.0001	34.7262	5.68923	11.87280	5.68928	0.00005
32.5000	34.7170	6.06063	12.22600	6.06060	-0.00003

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