# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0829
CALIBRATION DATE: 31-May-07

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

COEFFICIENTS:

```
g = -1.046705e+000
h =  1.583134e-001
i = -1.604109e-004
j =  4.292147e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC = -2.8423e-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 | 2573.15 | 0.00000 | 0.00000 |
| 1.0001 | 34.7923 | 2.97412 | 5035.28 | 2.97417 | 0.00005 |
| 4.5000 | 34.7718 | 3.28094 | 5223.23 | 3.28091 | -0.00003 |
| 15.0000 | 34.7279 | 4.26192 | 5782.77 | 4.26186 | -0.00006 |
| 24.0000 | 34.7087 | 5.16439 | 6252.66 | 5.16440 | 0.00001 |
| 29.0000 | 34.7036 | 5.68593 | 6508.43 | 5.68605 | 0.00012 |
| 32.5000 | 34.7011 | 6.05817 | 6684.70 | 6.05809 | -0.00008 |

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]; $\delta$ = CTcor; $\varepsilon$ = CPcor;

Residual = instrument conductivity - bath conductivity