# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2357
CALIBRATION DATE: 18-Oct-16

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

COEFFICIENTS:

```
g = -1.080859e+000
h =  1.675896e-001
i =  1.180673e-004
j =  2.203685e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  1.0910e-005
```

| BATH TEMP (° C) | BATH SAL (PSU) | BATH COND (S/m) | INSTRUMENT OUTPUT (Hz) | INSTRUMENT COND (S/m) | RESIDUAL (S/m) |
|---|---|---|---|---|---|
| 22.0000 | 0.0000 | 0.00000 | 2535.93 | 0.00000 | 0.00000 |
| 1.0000 | 34.5922 | 2.95863 | 4893.39 | 2.95862 | -0.00001 |
| 4.5000 | 34.5730 | 3.26402 | 5074.01 | 3.26403 | 0.00000 |
| 15.0000 | 34.5315 | 4.24036 | 5611.83 | 4.24037 | 0.00001 |
| 18.5000 | 34.5229 | 4.58363 | 5788.80 | 4.58363 | -0.00000 |
| 24.0000 | 34.5137 | 5.13856 | 6063.73 | 5.13856 | -0.00000 |
| 29.0000 | 34.5080 | 5.65748 | 6309.70 | 5.65746 | -0.00001 |
| 32.5000 | 34.5060 | 6.02797 | 6479.46 | 6.02798 | 0.00001 |

f = Instrument Output(Hz) * sqrt(1.0 + WBOTC * t) / 1000.0

t = temperature (°C); p = pressure (decibars); $\delta$ = CTcor; $\varepsilon$ = CPcor;

Conductivity (S/m) = $(g + h * f^2 + i * f^3 + j * f^4) / 10 (1 + \delta * t + \varepsilon * p)$

Residual (Siemens/meter) = instrument conductivity - bath conductivity