## **SEA-BIRD ELECTRONICS, INC.**

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SENSOR SERIAL NUMBER: 3767 CALIBRATION DATE: 22-Dec-10 SBE 37 CONDUCTIVITY CALIBRATION DATA PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

## **COEFFICIENTS:**

| g = -1.050534e + 000 | CPcor = -9.5700e-008   |
|----------------------|------------------------|
| h = 1.527566e - 001  | CTcor = 3.2500e-006    |
| i = -2.285236e - 004 | WBOTC = $-8.4102e-006$ |
| j = 4.179800e - 005  |                        |

| BATH TEMP<br>(ITS-90) | BATH SAL<br>(PSU) | BATH COND (Siemens/m) | INST FREQ<br>(Hz) | INST COND (Siemens/m) | RESIDUAL (Siemens/m) |
|-----------------------|-------------------|-----------------------|-------------------|-----------------------|----------------------|
| 22.0000               | 0.0000            | 0.00000               | 2625.36           | 0.0000                | 0.00000              |
| 1.0000                | 34.6342           | 2.96188               | 5126.38           | 2.96192               | 0.00004              |
| 4.5000                | 34.6138           | 3.26750               | 5317.40           | 3.26747               | -0.00003             |
| 15.0000               | 34.5695           | 4.24453               | 5886.04           | 4.24448               | -0.00005             |
| 18.4999               | 34.5596           | 4.58797               | 6073.06           | 4.58795               | -0.00001             |
| 23.9999               | 34.5476           | 5.14304               | 6363.47           | 5.14315               | 0.00011              |
| 29.0000               | 34.5399           | 5.66212               | 6623.10           | 5.66207               | -0.00005             |

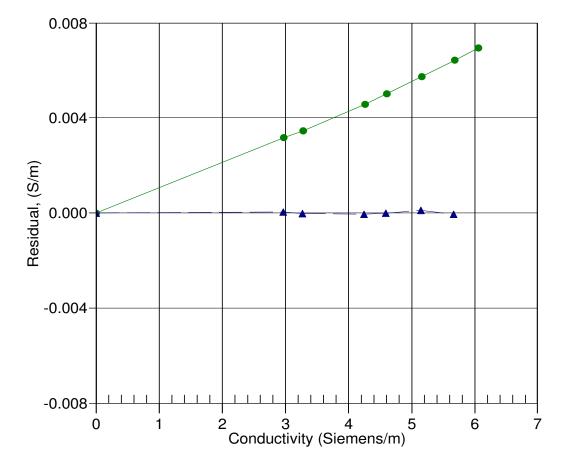
f = INST FREQ \* sqrt(1.0 + WBOTC \* t) / 1000.0

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

 $t = temperature [°C)]; \ p = pressure [decibars]; \ \delta = CTcor; \ \epsilon = CPcor;$ 

Residual = instrument conductivity - bath conductivity

Date, Slope Correction



13-Jan-09 0.9988921 22-Dec-10 1.0000000