Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0219
CALIBRATION DATE: 15-Feb-17

SBE 45 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

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g = -1.011333e+000
h =  1.554041e-001
i =  2.959353e-004
j =  1.762136e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC = -2.4451e-005
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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	2544.63	0.00000	0.00000
1.0000	34.7695	2.97235	5031.88	2.97237	0.00002
4.5000	34.7494	3.27903	5220.71	3.27901	-0.00003
15.0000	34.7062	4.25953	5782.39	4.25952	-0.00001
18.5000	34.6971	4.60426	5967.03	4.60427	0.00001
24.0000	34.6870	5.16151	6253.67	5.16153	0.00002
29.0000	34.6813	5.68269	6510.01	5.68268	-0.00001
32.5000	34.6778	6.05456	6686.72	6.05451	-0.00005

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

t = temperature (°C); p = pressure (decibars); δ = CTcor; ε = 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