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SENSOR SERIAL NUMBER: 0471
CALIBRATION DATE: 08-Nov-19

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

COEFFICIENTS:

g = -1.053734e+000
h = 1.505873e-001
i = -4.203723e-004
j = 5.544940e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -7.2184e-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	2653.78	0.00000	0.00000
1.0000	34.8401	2.97781	5186.24	2.97780	-0.00000
4.4999	34.8201	3.28504	5380.36	3.28504	0.00000
15.0000	34.7781	4.26742	5958.38	4.26742	0.00000
18.5000	34.7693	4.61281	6148.56	4.61283	0.00002
24.0000	34.7594	5.17110	6443.89	5.17106	-0.00003
29.0000	34.7521	5.69299	6708.06	5.69300	0.00001
32.5000	34.7446	6.06490	6890.05	6.06502	0.00012

$f = \text{Instrument Output(Hz)} * \sqrt{1.0 + \text{WBOTC} * t} / 1000.0$

t = temperature (°C); p = pressure (decibars); $\delta = \text{CTcor}$; $\epsilon = \text{CPcor}$;

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

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

