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SENSOR SERIAL NUMBER: 0661
CALIBRATION DATE: 20-Sep-24

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

COEFFICIENTS:

g = -1.043115e+000
h = 1.563315e-001
i = -1.274516e-004
j = 3.641244e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -2.7375e-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	2584.60	0.00000	0.00000
1.0000	34.6205	2.96082	5056.26	2.96082	0.00000
4.5000	34.6006	3.26637	5245.13	3.26637	-0.00000
14.9999	34.5576	4.24321	5807.31	4.24320	-0.00001
18.5000	34.5482	4.58662	5992.23	4.58663	0.00001
24.0000	34.5377	5.14174	6279.41	5.14175	0.00001
29.0000	34.5313	5.66087	6536.31	5.66086	-0.00001
32.5000	34.5262	6.03110	6713.39	6.03110	0.00000

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

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

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

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

