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SENSOR SERIAL NUMBER: 0194
CALIBRATION DATE: 05-Feb-20

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

COEFFICIENTS:

g = -1.008545e+000
h = 1.385619e-001
i = -3.221613e-005
j = 2.090916e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -1.1460e-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	2697.60	0.00000	0.00000
1.0000	34.7936	2.97421	5353.11	2.97422	0.00001
4.5000	34.7736	3.28109	5554.85	3.28109	-0.00001
15.0000	34.7315	4.26231	6155.10	4.26229	-0.00002
18.4999	34.7221	4.60721	6352.42	4.60719	-0.00002
24.0000	34.7113	5.16473	6658.84	5.16479	0.00006
29.0000	34.7040	5.68599	6932.76	5.68597	-0.00003
32.5001	34.6977	6.05765	7121.11	6.05680	-0.00085

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

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

