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SENSOR SERIAL NUMBER: 0454
 CALIBRATION DATE: 16-Jul-23

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

COEFFICIENTS:

g = -1.011135e+000 CPcor = -9.5700e-008
 h = 1.356124e-001 CTcor = 3.2500e-006
 i = -4.511660e-004 WBOTC = 2.4343e-006
 j = 5.110511e-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	2739.13	0.00000	0.00000
1.0000	34.4891	2.95065	5423.90	2.95065	0.00000
4.5000	34.4707	3.25531	5628.11	3.25532	0.00000
15.0000	34.4309	4.22930	6235.35	4.22929	-0.00002
18.5000	34.4227	4.57175	6434.94	4.57175	-0.00000
24.0000	34.4139	5.12534	6744.73	5.12536	0.00002
29.0000	34.4085	5.64299	7021.63	5.64299	-0.00000
32.5000	34.4038	6.01214	7212.37	6.01213	-0.00001

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

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

