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SENSOR SERIAL NUMBER: 0290  
 CALIBRATION DATE: 19-Feb-19

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

COEFFICIENTS:

g = -1.013847e+000      CPcor = -9.5700e-008  
 h = 1.611516e-001      CTcor = 3.2500e-006  
 i = -3.020680e-004      WBOTC = 3.9812e-007  
 j = 4.984139e-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	2511.69	0.00000	0.00000
1.0000	34.8317	2.97716	4980.65	2.97716	0.00000
4.5000	34.8117	3.28433	5168.17	3.28433	-0.00000
15.0000	34.7694	4.26647	5725.96	4.26646	-0.00001
18.5000	34.7602	4.61173	5909.29	4.61173	0.00000
24.0473	34.7497	5.17470	6196.31	5.17471	0.00001
29.0183	34.7432	5.69363	6449.24	5.69362	-0.00000
32.5000	34.7375	6.06380	6623.56	6.06374	-0.00006

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

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

