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SENSOR SERIAL NUMBER: 0454
 CALIBRATION DATE: 21-May-17

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

COEFFICIENTS:

g = -1.011478e+000 CPcor = -9.5700e-008
 h = 1.357878e-001 CTcor = 3.2500e-006
 i = -4.949703e-004 WBOTC = 2.4343e-006
 j = 5.548163e-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 | 2738.70 | 0.00000 | 0.00000 |
| 1.0000 | 34.7560 | 2.97130 | 5436.90 | 2.97133 | 0.00003 |
| 4.5000 | 34.7366 | 3.27794 | 5641.78 | 3.27793 | -0.00002 |
| 15.0000 | 34.6948 | 4.25828 | 6251.00 | 4.25823 | -0.00005 |
| 18.5000 | 34.6860 | 4.60295 | 6451.21 | 4.60293 | -0.00001 |
| 24.0001 | 34.6766 | 5.16015 | 6761.98 | 5.16024 | 0.00009 |
| 29.0000 | 34.6717 | 5.68129 | 7039.66 | 5.68125 | -0.00005 |
| 32.5000 | 34.6698 | 6.05333 | 7230.63 | 6.05225 | -0.00108 |

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

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

$\text{Conductivity (S/m)} = (g + h * f^2 + i * f^3 + j * f^4) / 10 (1 + \delta * t + \epsilon * p)$

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

