Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0904

SBE 43 OXYGEN CALIBRATION DATA

CALIBRATION DATE: 26-Nov-15

COEFFICIENTS: A = -3.4182e-003 NOMINAL DYNAMIC COEFFICIENTS
Soc = 0.4625 B = 1.7261e-004 D1 = 1.92634e-4 H1 = -3.300000e-2
Voffset = -0.4833 C = -2.5189e-006 D2 = -4.64803e-2 H2 = 5.00000e+3
Tau20 = 1.35 E nominal = 0.036 H3 = 1.45000e+3

BATH OXYGEN (ml/l)	BATH TEMPERATURE (° C)	BATH SALINITY (PSU)	INSTRUMENT OUTPUT (volts)	INSTRUMENT OXYGEN (ml/l)	RESIDUAL (ml/l)
1.15	6.00	0.00	0.772	1.15	-0.00
1.16	30.00	0.00	0.964	1.16	0.00
1.16	12.00	0.00	0.822	1.16	-0.00
1.16	20.00	0.00	0.884	1.16	-0.00
1.16	26.00	0.00	0.933	1.16	0.00
1.17	2.00	0.00	0.746	1.17	-0.00
3.93	6.00	0.00	1.474	3.93	0.00
3.93	30.00	0.00	2.116	3.93	0.00
3.94	2.00	0.00	1.368	3.93	-0.00
3.94	20.00	0.00	1.848	3.94	0.00
3.94	12.00	0.00	1.636	3.94	0.00
3.95	26.00	0.00	2.014	3.95	0.01
6.64	12.00	0.00	2.426	6.64	-0.01
6.65	26.00	0.00	3.059	6.65	0.00
6.68	30.00	0.00	3.256	6.68	-0.00
6.70	20.00	0.00	2.804	6.70	-0.00
6.70	2.00	0.00	1.989	6.70	-0.00
6.70	6.00	0.00	2.174	6.71	0.01

V = instrument output (volts); T = temperature (°C); S = salinity (PSU); K = temperature (°K)

Oxsol(T,S) = oxygen saturation (ml/l); P = pressure (dbar)

Oxygen (ml/l) = Soc * (V + Voffset) * (1.0 + A * T + B * T^2 + C * T^3) * Oxsol(T,S) * exp(E * P / K)

Residual (ml/l) = instrument oxygen - bath oxygen

