Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0930

SBE 43 OXYGEN CALIBRATION DATA

CALIBRATION DATE: 11-Nov-16

COEFFICIENTS: A = -5.4434e-003NOMINAL DYNAMIC COEFFICIENTS B = 3.0175e-004Soc = 0.4612D1 = 1.92634e-4H1 = -3.300000e-2Voffset = -0.5100C = -4.2964e-006D2 = -4.64803e-2H2 = 5.00000e+3Tau20 = 1.04E nominal = 0.036H3 = 1.45000e + 3

BATH OXYGEN (ml/l)	BATH TEMPERATURE (° C)	BATH SALINITY (PSU)	INSTRUMENT OUTPUT (volts)	INSTRUMENT OXYGEN (ml/l)	RESIDUAL (ml/l)
1.08	6.00	0.00	0.786	1.08	-0.00
1.09	2.00	0.00	0.756	1.09	0.00
1.10	12.00	0.00	0.836	1.10	0.00
1.13	20.00	0.00	0.904	1.13	0.00
1.15	26.00	0.00	0.956	1.15	0.00
1.16	30.00	0.00	0.991	1.16	0.00
3.86	6.00	0.00	1.493	3.86	-0.00
3.87	12.00	0.00	1.655	3.87	-0.00
3.87	2.00	0.00	1.387	3.88	0.00
3.92	20.00	0.00	1.876	3.92	-0.00
3.96	26.00	0.00	2.038	3.95	-0.01
4.00	30.00	0.00	2.161	4.00	-0.00
6.65	6.00	0.00	2.203	6.65	-0.00
6.66	2.00	0.00	2.016	6.66	0.00
6.66	12.00	0.00	2.482	6.66	0.00
6.70	20.00	0.00	2.848	6.71	0.00
6.77	26.00	0.00	3.131	6.77	0.00
6.80	30.00	0.00	3.321	6.80	0.00

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

