Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1876 CALIBRATION DATE: 08-Feb-14

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS	A = -2.8234e - 003	NOMINAL DYNAMIC COEFFICIENTS		
Soc = 0.5305	B = 1.6925e-004	D1 = 1.92634e-4 $H1 = -3.30000e-2$		
Voffset = -0.5165	C = -3.0564e - 006	D2 = -4.64803e - 2 $H2 = 5.00000e + 3$		
Tau20 = 1.50	E nominal = 0.036	H3 = 1.45000e + 3		

BATH OX (ml/l)	BATH TEMP ITS-90	BATH SAL PSU	INSTRUMENT OUTPUT(VOLTS)	INSTRUMENT OXYGEN(ml/l)	RESIDUAL (ml/l)
1.28	2.00	0.00	0.765	1.27	-0.01
1.28	6.00	0.00	0.796	1.28	-0.00
1.28	12.00	0.00	0.841	1.28	-0.00
1.29	30.00	0.00	0.986	1.30	0.01
1.29	20.00	0.00	0.905	1.30	0.00
1.30	26.00	0.00	0.955	1.30	0.01
4.01	30.00	0.00	1.969	4.02	0.00
4.02	20.00	0.00	1.726	4.03	0.00
4.03	2.00	0.00	1.305	4.03	-0.00
4.03	26.00	0.00	1.872	4.03	-0.00
4.04	6.00	0.00	1.400	4.04	-0.00
4.04	12.00	0.00	1.543	4.05	0.00
6.72	26.00	0.00	2.777	6.72	0.00
6.76	30.00	0.00	2.959	6.75	-0.00
6.78	6.00	0.00	2.001	6.78	-0.00
6.79	12.00	0.00	2.240	6.79	0.00
6.80	20.00	0.00	2.556	6.79	-0.01
6.81	2.00	0.00	1.851	6.81	0.00

Oxygen (ml/l) = Soc * (V + Voffset) * $(1.0 + A * T + B * T^2 + C * T^3) * OxSol(T,S) * exp(E * P / K)$ V = voltage output from SBE43, T = temperature [deg C], S = salinity [PSU], K = temperature [Kelvin] OxSol(T,S) = oxygen saturation [ml/l], P = pressure [dbar], Residual = instrument oxygen - bath oxygen

Date, Delta Ox (ml/l)

