SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0387
CALIBRATION DATE: 16-Jul-10p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.5068
Voffset = -0.4908
Tau20 = 1.25

A = -2.7938e-003
B = 1.3822e-004
C = -2.6884e-006
E nominal = 0.036

NOMINAL DYNAMIC COEFFICIENTS

D1 = 1.92634e-4 H1 = -3.30000e-2
D2 = -4.64803e-2 H2 = 5.00000e+3
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)
1.25	2.00	0.01	0.748	1.25	0.00
1.27	6.00	0.01	0.783	1.27	0.00
1.28	12.00	0.02	0.834	1.29	0.01
1.29	20.00	0.02	0.903	1.30	0.01
1.31	26.00	0.02	0.960	1.32	0.01
1.31	30.00	0.02	1.001	1.32	0.01
4.32	2.00	0.01	1.371	4.29	-0.02
4.34	6.00	0.01	1.482	4.32	-0.01
4.36	20.00	0.02	1.873	4.36	-0.01
4.37	12.00	0.02	1.652	4.36	-0.01
4.38	26.00	0.02	2.052	4.37	-0.00
4.41	30.00	0.02	2.189	4.41	-0.00
6.96	30.00	0.02	3.174	6.96	-0.00
7.05	20.00	0.02	2.726	7.05	0.00
7.05	26.00	0.02	3.009	7.05	0.00
7.05	12.00	0.02	2.372	7.06	0.00
7.06	6.00	0.01	2.113	7.07	0.01
7.09	2.00	0.01	1.947	7.11	0.01

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 [deg K]
OxSol(T,S) = oxygen saturation [ml/l], P = pressure [dbar], Residual = instrument oxygen - bath oxygen