Sea-Bird Scientific 13431 NE 20th Street Bellevue, WA 98005 USA +1 425-643-9866 seabird@seabird.com www.seabird.com

SENSOR SERIAL NUMBER: 2357 CALIBRATION DATE: 28-Apr-19

SBE 37 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -7.814534e-005 a1 = 2.944318e-004 a2 = -3.759626e-006 a3 = 1.886414e-007

BATH TEMP	INSTRUMENT	INST TEMP	RESIDUAL
(° C)	OUTPUT (counts)	(° C)	(° C)
1.0000	663553.9	1.0000	-0.0000
4.5000	567705.7	4.5000	0.0000
15.0000	362466.2	15.0000	0.0000
18.5000	314042.3	18.4999	-0.0001
24.0000	252160.7	24.0001	0.0001
29.0000	207803.1	28.9999	-0.0001
32.5000	182079.5	32.5000	0.0000

n = Instrument Output (counts)

Temperature ITS-90 (°C) = $1/{a0 + a1[ln(n)] + a2[ln^2(n)] + a3[ln^3(n)]} - 273.15$

Residual ($^{\circ}$ C) = instrument temperature - bath temperature

