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

SENSOR SERIAL NUMBER: 1802 CALIBRATION DATE: 09-Sep-23 SBE 39 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

## **COEFFICIENTS:**

a0 = -2.812574e-005 a1 = 2.816471e-004 a2 = -2.738958e-006 a3 = 1.667520e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	719718.4	-1.5000	0.0000
1.0000	643118.9	1.0000	-0.0000
4.5000	550949.3	4.5000	0.0000
8.0000	473524.4	8.0000	0.0000
11.5000	408265.9	11.5000	0.0000
15.0000	353081.5	15.0000	-0.0000
18.5000	306266.5	18.5000	-0.0000
22.0000	266428.4	22.0000	-0.0000
25.5000	232424.1	25.5001	0.0001
29.0001	203316.3	29.0001	-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

