



# Appendix H Water Quality Monitoring Equipment Calibration Certificate



# 專業化驗有限公司 QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email: info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

# REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BB080078

Date of Issue

: 29 August 2022

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#### PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited

Unit E, 12/F, Ford Glory Plaza 37-39 Wing Hong Street, Cheung Sha Wan

Kowloon (HK) Hong Kong

#### **PART B - SAMPLE INFORMATION**

Name of Equipment:

HORIBA U-53

Manufacturer:

**HORIBA** 

Serial Number :

THAUKESL

Date of Received:

26 August 2022

Date of Calibration:

26 August 2022

Date of Next Calibration:

25 November 2022

Request No.:

D-BB080078

#### PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

**Test Parameter** 

Reference Method

pH value

APHA 21e 4500 H+

Temperature

Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March

2008: Working Thermometer Calibration Procedure

Salinity

APHA 21e 2520B

Dissolved oxygen

APHA 21e 4500 O

Turbidity

APHA 21e 2130B

## PART D - CALIBRATION RESULT

## (1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.12	0.12	Satisfactory
7.42	7.51	0.09	Satisfactory
10.01	10.17	0.16	Satisfactory

Tolerance of pH value should be less than  $\pm$  0.2 (pH unit)

### (2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
15.0	14.66	-0.34	Satisfactory
22.0	20.20	-1.80	Satisfactory
38.0	36.09	-1.91	Satisfactory

Tolerance of Temperature should be less than  $\pm\,2.0$  ( °C )

#### (3) Salinity

Expected Reading (g/L)	Display Reading ( g/L )	Tolerance (%)	Result
10	10.11	1.10	Satisfactory
20	20.56	2.80	Satisfactory
30	30.19	0.63	Satisfactory

Tolerance of Salinity should be less than  $\pm 10.0$  (%)

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AUTHORIZED SIGNATORY:

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#### (4) Dissolved oxygen

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance	Result
8.13	7.87	-0.26	Satisfactory
6.54	6.80	0.26	Satisfactory
1.28	1.23	-0.05	Satisfactory
0.15	0.11	-0.04	Satisfactory

Tolerance of Dissolved oxygen should be less than  $\pm 0.5$  ( mg/L )

## (5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	0.51		Satisfactory
10	9.70	-3.00	Satisfactory
20	19.2	-4.00	Satisfactory
100	94.6	-5.40	Satisfactory
800	768	-4.00	Satisfactory

Tolerance of Turbidity should be less than  $\pm 10.0$  (%)

#### Remark(s)

- 'The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.
- 'The results relate only to the calibrated equipment as received
- ·The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
- "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
- 'The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.

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