

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

Unit 10, 5/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-BE030049  
Date of Issue : 18 March 2025  
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### PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited  
Unit 1608, 16/F, Tower B, Manulife Fin. Centre 223 - 231 Wai Yip Street, Kwun Tong,  
Kowloon (HK) Hong Kong

### PART B - SAMPLE INFORMATION

Name of Equipment : YSI ProDSS Multi Parameters  
Manufacturer : YSI  
Serial Number : 22C106561  
Date of Received : 13 March 2025  
Date of Calibration : 17 March 2025  
Date of Next Calibration : 16 June 2025  
Request No. : D-BE030049

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

Test Parameter	Reference Method
pH value	APHA 21e 4500-H <sup>+</sup> B
Temperature	Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure
Dissolved oxygen	APHA 23e 4500-O G (Membrane Electrode Method)
Salinity	APHA 21e 2520 B
Turbidity	APHA 21e 2130 B (Nephelometric Method)

### PART D - CALIBRATION RESULT

#### (1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance (pH unit)	Result
4.00	3.96	-0.04	Satisfactory
7.42	7.27	-0.15	Satisfactory
10.01	9.96	-0.05	Satisfactory

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

#### (2) Temperature

Reading of Ref. thermometer	Display Reading	Tolerance	Result
11.8	12.3	0.5	Satisfactory
21.8	21.1	-0.7	Satisfactory
34.1	33.0	-1.1	Satisfactory

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


#### (3) Dissolved oxygen

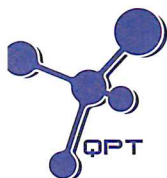
Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance (mg/L)	Result
8.84	9.11	0.27	Satisfactory
6.65	6.51	-0.14	Satisfactory
3.90	3.98	0.08	Satisfactory
0.01	0.34	0.33	Satisfactory

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

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AUTHORIZED  
SIGNATORY:

  
FUNG Yuen-ching  
Laboratory Manager



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### PART D - CALIBRATION RESULT

#### (4) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	10.35	3.5	Satisfactory
20	20.62	3.1	Satisfactory
30	30.38	1.3	Satisfactory

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

#### (5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance <sup>(a)</sup> (%)	Result
0	0.76	-	Satisfactory
10	10.80	8	Satisfactory
20	19.73	-1.35	Satisfactory
100	96.97	-3.03	Satisfactory
800	721.95	-9.8	Satisfactory

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

<sup>(a)</sup> For O NTU, Display Reading should be less than 1 NTU

#### Remark(s): -

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

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