

## Appendix F Water Quality Equipment Calibration Certificate



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

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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BD120079  
Date of Issue : 23 December 2024  
Page No. : 1 of 2

### PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited  
Unit E, 12/F, Ford Glory Plaza 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

### PART B - SAMPLE INFORMATION

Name of Equipment : YSI ProDSS Multi Parameters  
Manufacturer : YSI  
Serial Number : 22C106561  
Date of Received : 18 December 2024  
Date of Calibration : 20 December 2024  
Date of Next Calibration : 19 March 2025

### 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
Salinity	APHA 21e 2520 B
Dissolved oxygen	APHA 23e 4500-O G (Membrane Electrode Method)
Turbidity	APHA 21e 2130 B (Nephelometric Method)

### PART D - CALIBRATION RESULT

#### (1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.03	0.03	Satisfactory
7.42	7.39	-0.03	Satisfactory
10.01	9.97	-0.04	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
18.5	17.8	-0.7	Satisfactory
21.0	20.8	-0.2	Satisfactory
36.0	36.0	0.0	Satisfactory

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


#### (3) Salinity

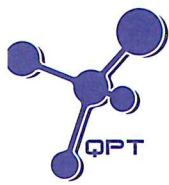
Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	10.15	1.50	Satisfactory
20	20.91	4.55	Satisfactory
30	31.93	6.43	Satisfactory

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

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AUTHORIZED  
SIGNATORY:

  
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FUNG Yuen-ching  
Laboratory Manager



## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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### (4) Dissolved oxygen

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance	Result
9.10	9.08	-0.02	Satisfactory
6.87	6.51	-0.36	Satisfactory
4.61	4.11	-0.50	Satisfactory
0.74	0.38	-0.36	Satisfactory

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

### (5) Turbidity

Expected Reading ( NTU )	Display Reading ( NTU )	Tolerance <sup>(a)</sup>	Result
0	0.39	--	Satisfactory
10	10.15	1.5	Satisfactory
20	19.75	-1.3	Satisfactory
100	97.55	-2.5	Satisfactory
800	753.00	-5.9	Satisfactory

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

<sup>(a)</sup> For 0 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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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BE010185  
Date of Issue : 13 January 2025  
Page No. : 1 of 2

### PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited  
Unit E, 12/F, Ford Glory Plaza 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

### PART B - SAMPLE INFORMATION

Name of Equipment : YSI ProDSS (Multi-Parameters)  
Manufacturer : YSI  
Serial Number : 22D100436  
Date of Received : 07 January 2025  
Date of Calibration : 09 January 2025  
Date of Next Calibration : 08 April 2025  
Request No. : D-BE010185

### 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
Salinity	APHA 21e 2520 B
Dissolved oxygen	APHA 23e 4500-O G (Membrane Electrode Method)
Turbidity	APHA 21e 2130 B (Nephelometric Method)

### PART D - CALIBRATION RESULT

#### (1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.13	0.13	Satisfactory
7.42	7.54	0.12	Satisfactory
10.01	10.10	0.09	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
17.0	17.2	0.2	Satisfactory
21.5	21.4	-0.1	Satisfactory
32.0	31.8	-0.2	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	9.70	-3.00	Satisfactory
20	19.88	-0.60	Satisfactory
30	30.35	1.17	Satisfactory

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

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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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### (4) Dissolved oxygen

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance	Result
8.55	8.48	-0.07	Satisfactory
5.48	5.08	-0.40	Satisfactory
3.01	2.89	-0.12	Satisfactory
0.70	0.21	-0.49	Satisfactory

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

### (5) Turbidity

Expected Reading ( NTU )	Display Reading ( NTU )	Tolerance <sup>(a)</sup>	Result
0	0.19	--	Satisfactory
10	10.89	8.9	Satisfactory
20	19.48	-2.6	Satisfactory
100	94.42	-5.6	Satisfactory
800	728.89	-8.9	Satisfactory

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

<sup>(a)</sup> For 0 NTU, Display Reading should be less than 1 NTU

### Remark(s)

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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BE020046  
Date of Issue : 18 February 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 : 15M101091  
Date of Received : 12 February 2025  
Date of Calibration : 14 February 2025  
Date of Next Calibration : 13 May 2025  
Request No. : D-BE020046

### 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
Salinity	APHA 21e 2520 B
Dissolved oxygen	APHA 23e 4500-O G (Membrane Electrode Method)
Turbidity	APHA 21e 2130 B (Nephelometric Method)

### PART D - CALIBRATION RESULT

#### (1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.16	0.16	Satisfactory
7.42	7.54	0.12	Satisfactory
10.01	10.20	0.19	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
17.0	16.8	-0.2	Satisfactory
23.0	22.6	-0.4	Satisfactory
31.5	31.7	0.2	Satisfactory

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


#### (3) Salinity

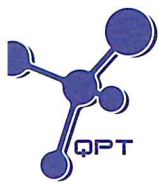
Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	9.76	-2.40	Satisfactory
20	20.08	0.40	Satisfactory
30	30.90	3.00	Satisfactory

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

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**REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION**

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**(4) Dissolved oxygen**

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance	Result
9.17	9.43	0.26	Satisfactory
5.41	5.85	0.44	Satisfactory
3.54	3.49	-0.05	Satisfactory
0.00	0.17	0.17	Satisfactory

Tolerance of Dissolved oxygen should be less than  $\pm 0.5$  ( mg/L )**(5) Turbidity**

Expected Reading ( NTU )	Display Reading ( NTU )	Tolerance <sup>(a)</sup>	Result
0	0.78	--	Satisfactory
10	9.06	-9.4	Satisfactory
20	19.62	-1.9	Satisfactory
100	105.00	5.0	Satisfactory
800	780.87	-2.4	Satisfactory

Tolerance of Turbidity should be less than  $\pm 10.0$  ( % )<sup>(a)</sup> For 0 NTU, Display Reading should be less than 1 NTU**Remark(s)**

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