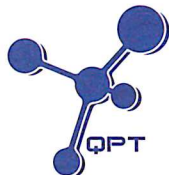


Appendix F Water Quality Equipment Calibration Certificate



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-BB080029
Date of Issue : 05 August 2022
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 (HK) Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment : HORIBA U-53
Manufacturer : HORIBA
Serial Number : PPHNOMXY
Date of Received : 02 August 2022
Date of Calibration : 04 August 2022
Date of Next Calibration : 03 November 2022
Request No. : D-BB080029

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	3.99	-0.01	Satisfactory
7.42	7.27	-0.15	Satisfactory
10.01	9.84	-0.17	Satisfactory

Tolerance of pH value should be less than ± 0.2 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
18.0	18.3	0.3	Satisfactory
27.0	26.8	-0.2	Satisfactory
32.0	31.9	-0.1	Satisfactory

Tolerance of Temperature should be less than ± 2.0 (°C)

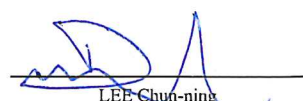
(3) Salinity

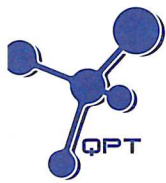
Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	10.60	6.00	Satisfactory
20	21.97	9.85	Satisfactory
30	32.96	9.87	Satisfactory

Tolerance of Salinity should be less than ± 10.0 (%)

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AUTHORIZED
SIGNATORY:


LEE Chun-ning
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專業化驗有限公司

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BB080029

Date of Issue : 05 August 2022

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(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
7.76	7.69	-0.07	Satisfactory
5.19	5.06	-0.13	Satisfactory
2.88	2.49	-0.39	Satisfactory
0.07	0.21	0.14	Satisfactory

Tolerance of Dissolved oxygen should be less than ± 0.5 (mg/L)

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	0.00	--	Satisfactory
10	9.87	-1.30	Satisfactory
20	19.9	-0.50	Satisfactory
100	101	1.00	Satisfactory
800	805	0.60	Satisfactory

Tolerance of Turbidity should be less than ± 10.0 (%)

Remark(s)

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--- END OF REPORT ---



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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BB070028
Date of Issue : 13 July 2022
Page No. : 1 of 2

PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited
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 Hong Street, Cheung Sha Wan
 Kowloon (HK) Hong Kong
 Attn :

PART B - SAMPLE INFORMATION

Name of Equipment : YSI ProDSS (Multi-Parameters)
 Manufacturer : YSI (a xylem brand)
 Serial Number : 22C106561
 Date of Received : 08 July 2022
 Date of Calibration : 11 July 2022
 Date of Next Calibration : 10 October 2022

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

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

PART D - CALIBRATION RESULT

(1) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	0.13	--	Satisfactory
10	9.91	-0.90	Satisfactory
20	19.52	-2.40	Satisfactory
100	96.50	-3.50	Satisfactory
800	783.45	-2.10	Satisfactory

Tolerance of Turbidity should be less than ± 10.0 (%)

(2) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
7.71	7.67	-0.04	Satisfactory
4.57	4.88	0.31	Satisfactory
2.73	2.67	-0.06	Satisfactory
0.05	0.26	0.21	Satisfactory

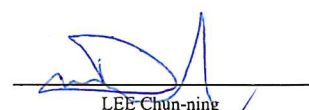
Tolerance of Dissolved oxygen should be less than ± 0.5 (mg/L)

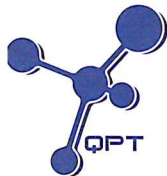
(3) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BB070028

Date of Issue : 13 July 2022

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Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	3.97	-0.03	Satisfactory
7.42	7.49	0.07	Satisfactory
10.01	10.07	0.06	Satisfactory

Tolerance of pH value should be less than ± 0.2 (pH unit)

(4) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	9.72	-2.80	Satisfactory
20	20.35	1.75	Satisfactory
30	31.26	4.20	Satisfactory

Tolerance of Salinity should be less than ± 10.0 (%)

(5) Temperature

Reading of Ref. thermometer ($^{\circ}\text{C}$)	Display Reading ($^{\circ}\text{C}$)	Tolerance	Result
16.0	15.8	-0.2	Satisfactory
26.0	25.7	-0.3	Satisfactory
32.1	32.0	-0.1	Satisfactory

Tolerance of Temperature should be less than ± 2.0 ($^{\circ}\text{C}$)

Remark(s)

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BB080077
Date of Issue : 29 August 2022
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 (HK) Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment : HORIBA U-53
Manufacturer : HORIBA
Serial Number : NEKVM2XU
Date of Received : 24 August 2022
Date of Calibration : 26 August 2022
Date of Next Calibration : 25 November 2022
Request No. : D-BB080077

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	4.09	0.09	Satisfactory
7.42	7.52	0.10	Satisfactory
10.01	10.09	0.08	Satisfactory

Tolerance of pH value should be less than ± 0.2 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
15.0	14.16	-0.84	Satisfactory
22.0	22.25	0.25	Satisfactory
38.0	37.68	-0.32	Satisfactory

Tolerance of Temperature should be less than ± 2.0 (°C)

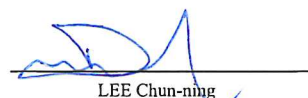
(3) Salinity

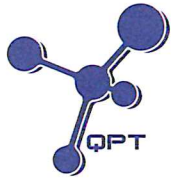
Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	9.14	-8.60	Satisfactory
20	18.96	-5.20	Satisfactory
30	29.19	-2.70	Satisfactory

Tolerance of Salinity should be less than ± 10.0 (%)

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BB080077
Date of Issue : 29 August 2022
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(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
8.13	7.70	-0.43	Satisfactory
6.54	6.87	0.33	Satisfactory
1.28	1.23	-0.05	Satisfactory
0.15	0.00	-0.15	Satisfactory

Tolerance of Dissolved oxygen should be less than ± 0.5 (mg/L)

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	0.00	--	Satisfactory
10	9.61	-3.90	Satisfactory
20	19.8	-1.00	Satisfactory
100	105	5.00	Satisfactory
800	759	-5.10	Satisfactory

Tolerance of Turbidity should be less than ± 10.0 (%)

Remark(s)

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