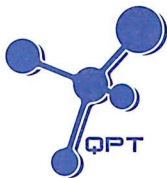


Appendix F Water Quality Equipment Calibration Certificate



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-BB010050
Date of Issue : 13 January 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
Attn :

PART B - SAMPLE INFORMATION

Name of Equipment : HORIBA U-53
Manufacturer : HORIBA
Serial Number : S2A98W8H
Date of Received : 10 January 2022
Date of Calibration : 11 January 2022
Date of Next Calibration : 10 April 2022

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter	Reference Method
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	--	Satisfactory
10	10.4	4.0	Satisfactory
20	20.2	1.0	Satisfactory
100	105	5.0	Satisfactory
800	798	-0.3	Satisfactory

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

(2) Dissolved oxygen

EXPECTED READING (MG/L)	DISPLAY READING (MG/L)	TOLERANCE (MG/L)	RESULT
8.87	8.84	-0.03	Satisfactory
6.05	6.43	0.38	Satisfactory
4.47	4.67	0.20	Satisfactory
2.03	2.37	0.34	Satisfactory

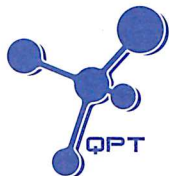
Tolerance of Dissolved oxygen should be less than ± 0.5 (mg/L)

(3) pH value

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BB010050

Date of Issue : 13 January 2022

Page No. : 2 of 2

TARGET (PH UNIT)	DISPLAY READING (PH UNIT)	TOLERANCE	RESULT
4.00	3.96	-0.04	Satisfactory
7.42	7.24	-0.18	Satisfactory
10.01	9.87	-0.14	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	9.23	-7.70	Satisfactory
20	19.19	-4.05	Satisfactory
30	29.14	-2.87	Satisfactory

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

(5) Temperature

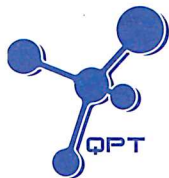
READING OF REF. THERMOMETER (°C)	DISPLAY READING (°C)	TOLERANCE (°C)	RESULT
19	19.25	0.25	Satisfactory
24	23.70	-0.30	Satisfactory
33	32.84	-0.16	Satisfactory

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

Remark(s)

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--- END OF REPORT ---



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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BB020007
Date of Issue : 10 February 2022
Page No. : 1 of 2

PART A - CUSTOMER INFORMATION

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Kowloon (HK) Hong Kong
Attn :

PART B - SAMPLE INFORMATION

Name of Equipment : HORIBA U-53
Manufacturer : HORIBA
Serial Number : PORBNFNT
Date of Received : 07 February 2022
Date of Calibration : 07 February 2022
Date of Next Calibration : 07 May 2022

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter	Reference Method
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	--	Satisfactory
10	9.78	-2.2	Satisfactory
20	20.7	3.5	Satisfactory
100	99.5	-0.5	Satisfactory
800	792	-1.0	Satisfactory

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

(2) Dissolved oxygen

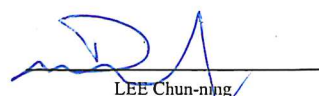
EXPECTED READING (MG/L)	DISPLAY READING (MG/L)	TOLERANCE (MG/L)	RESULT
9.26	9.29	0.03	Satisfactory
6.81	6.98	0.17	Satisfactory
4.52	5.01	0.49	Satisfactory
3.94	4.37	0.43	Satisfactory

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

(3) pH value

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BB020007
Date of Issue : 10 February 2022
Page No. : 2 of 2

TARGET (PH UNIT)	DISPLAY READING (PH UNIT)	TOLERANCE	RESULT
4.00	3.99	-0.01	Satisfactory
7.42	7.42	0.00	Satisfactory
10.01	10.12	0.11	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	9.31	-6.90	Satisfactory
20	20.25	1.25	Satisfactory
30	31.68	5.60	Satisfactory

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

(5) Temperature

READING OF REF. THERMOMETER (°C)	DISPLAY READING (°C)	TOLERANCE (°C)	RESULT
18	17.80	-0.2	Satisfactory
26	25.82	-0.18	Satisfactory
32.5	32.14	-0.36	Satisfactory

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

Remark(s)

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BA120081
Date of Issue : 16 December 2021
Page No. : 1 of 2

PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited
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Attn :

PART B - SAMPLE INFORMATION

Name of Equipment : HORIBA U-53
Manufacturer : HORIBA
Serial Number : NEKVM2XU
Date of Received : 09 December 2021
Date of Calibration : 15 December 2021
Date of Next Calibration : 14 March 2022

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
Dissolved oxygen	APHA 21e 4500 O
Salinity	APHA 21e 2520B
Turbidity	APHA 21e 2130B

PART D - CALIBRATION RESULT

(1) pH value

TARGET (PH UNIT)	DISPLAY READING	TOLERANCE	RESULT
4.00	3.99	-0.01	Satisfactory
7.42	7.22	-0.20	Satisfactory
10.01	9.81	-0.20	Satisfactory

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

(2) Temperature

READING OF REF. THERMOMETER (°C)	DISPLAY READING (°C)	TOLERANCE (°C)	RESULT
16	16.30	0.30	Satisfactory
22	22.00	0.00	Satisfactory
34	33.38	-0.62	Satisfactory


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

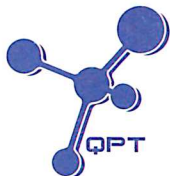
(3) Dissolved oxygen

EXPECTED READING (MG/L)	DISPLAY READING (MG/L)	TOLERANCE (MG/L)	RESULT
8.39	8.17	-0.22	Satisfactory
6.59	6.79	0.20	Satisfactory

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BA120081

Date of Issue : 16 December 2021

Page No. : 2 of 2

EXPECTED READING (MG/L)	DISPLAY READING (MG/L)	TOLERANCE (MG/L)	RESULT
5.96	6.10	0.14	Satisfactory
2.21	1.76	-0.45	Satisfactory

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

(4) Salinity

EXPECTED READING (G/L)	DISPLAY READING (G/L)	TOLERANCE (%)	RESULT
10	9.69	-3.10	Satisfactory
20	20.50	2.50	Satisfactory
30	31.18	3.93	Satisfactory

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

(5) Turbidity

EXPECTED READING (NTU)	DISPLAY READING (NTU)	TOLERANCE (%)	RESULT
0	0.17	--	Satisfactory
10	9.90	-1.0	Satisfactory
20	19.7	-1.5	Satisfactory
100	104	4.0	Satisfactory
800	796	-0.5	Satisfactory

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

Remark(s)

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--- END OF REPORT ---