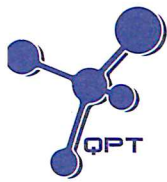


Appendix F Water Quality Equipment Calibration Certificate



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
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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BC010055
Date of Issue : 17 January 2023
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 (a xylem brand)
Serial Number : 22C106561
Date of Received : 12 January 2023
Date of Calibration : 17 January 2023
Date of Next Calibration : 16 April 2023
Request No. : D-BC010055

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

PART D - CALIBRATION RESULT

(1) pH value

| Target (pH unit) | Display Reading (pH unit) | Tolerance | Result |
|------------------|---------------------------|-----------|--------------|
| 4.00 | 4.18 | 0.18 | Satisfactory |
| 7.42 | 7.58 | 0.16 | Satisfactory |
| 10.01 | 10.14 | 0.13 | 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 |
|----------------------------------|----------------------|-----------|--------------|
| 10 | 9.6 | -0.4 | Satisfactory |
| 23 | 23.4 | 0.4 | Satisfactory |
| 33 | 33.2 | 0.2 | Satisfactory |

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

(3) Salinity

| Expected Reading (g/L) | Display Reading (g/L) | Tolerance (%) | Result |
|------------------------|-----------------------|---------------|--------------|
| 10 | 9.99 | -0.10 | Satisfactory |
| 20 | 20.29 | 1.45 | Satisfactory |
| 30 | 31.38 | 4.60 | Satisfactory |

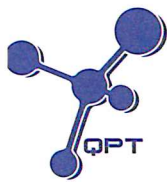
Tolerance of Salinity should be less than ± 10.0 (%)

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AUTHORIZED
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LEE Chun-ning

Assistant Manager (Chemical Testing)



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BC010055
Date of Issue : 17 January 2023
Page No. : 2 of 2

(4) Dissolved oxygen

| Expected Reading (mg/L) | Display Reading (mg/L) | Tolerance | Result |
|---------------------------|--------------------------|-----------|--------------|
| 9.00 | 9.03 | 0.03 | Satisfactory |
| 5.88 | 6.07 | 0.19 | Satisfactory |
| 2.65 | 3.07 | 0.42 | Satisfactory |
| 1.14 | 1.31 | 0.17 | Satisfactory |

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

(5) Turbidity

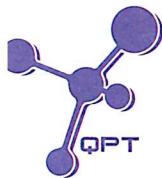
| Expected Reading (NTU) | Display Reading (NTU) | Tolerance (%) | Result |
|--------------------------|-------------------------|-----------------|--------------|
| 0 | 0.16 | -- | Satisfactory |
| 10 | 9.67 | -3.3 | Satisfactory |
| 20 | 18.45 | -7.8 | Satisfactory |
| 100 | 92.80 | -7.2 | Satisfactory |
| 800 | 768.00 | -4.0 | Satisfactory |

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

Remark(s)

- The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted from relevant international standards.
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--- END OF REPORT ---



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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BB110080
Date of Issue : 30 November 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, Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment : HORIBA U-53
Manufacturer : HORIBA
Serial Number : NEKVM2XU
Date of Received : 24 November 2022
Date of Calibration : 29 November 2022
Date of Next Calibration : 28 February 2023
Request No. : D-BB110080

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

PART D - CALIBRATION RESULT

(1) pH value

| Target (pH unit) | Display Reading (pH unit) | Tolerance | Result |
|------------------|---------------------------|-----------|--------------|
| 4.00 | 4.06 | 0.06 | Satisfactory |
| 7.42 | 7.51 | 0.09 | Satisfactory |
| 10.01 | 9.82 | -0.19 | 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 |
|----------------------------------|----------------------|-----------|--------------|
| 13 | 14.36 | 1.36 | Satisfactory |
| 24 | 25.45 | 1.45 | Satisfactory |
| 31 | 31.90 | 0.90 | Satisfactory |

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

(3) Salinity

| Expected Reading (g/L) | Display Reading (g/L) | Tolerance (%) | Result |
|------------------------|-----------------------|---------------|--------------|
| 10 | 9.84 | -1.60 | Satisfactory |
| 20 | 18.91 | -5.45 | Satisfactory |
| 30 | 27.97 | -6.77 | Satisfactory |

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

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AUTHORIZED
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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BB110080
Date of Issue : 30 November 2022
Page No. : 2 of 2

(4) Dissolved oxygen

| Expected Reading (mg/L) | Display Reading (mg/L) | Tolerance | Result |
|---------------------------|--------------------------|-----------|--------------|
| 8.01 | 7.96 | -0.05 | Satisfactory |
| 5.43 | 5.67 | 0.24 | Satisfactory |
| 2.06 | 2.39 | 0.33 | Satisfactory |
| 0.55 | 0.21 | -0.34 | Satisfactory |

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

(5) Turbidity

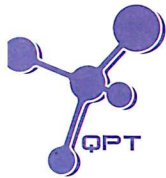
| Expected Reading (NTU) | Display Reading (NTU) | Tolerance (%) | Result |
|--------------------------|-------------------------|-----------------|--------------|
| 0 | 0.60 | -- | Satisfactory |
| 10 | 9.60 | -4.0 | Satisfactory |
| 20 | 18.1 | -9.5 | Satisfactory |
| 100 | 99.9 | -0.1 | Satisfactory |
| 800 | 775 | -3.1 | 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-BB110035
Date of Issue : 17 November 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, Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment : HORIBA U-53
Manufacturer : HORIBA
Serial Number : PPHNOMXY
Date of Received : 16 November 2022
Date of Calibration : 16 November 2022
Date of Next Calibration : 16 February 2023
Request No. : D-BB110035

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

| <u>Test Parameter</u> | <u>Reference Method</u> |
|-----------------------|---|
| 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 2520 B |
| Dissolved oxygen | APHA 21e 4500 O |
| Turbidity | APHA 21e 2130 B |

PART D - CALIBRATION RESULT

(1) pH value

| Target (pH unit) | Display Reading (pH unit) | Tolerance | Result |
|------------------|---------------------------|-----------|--------------|
| 4.00 | 4.15 | 0.15 | Satisfactory |
| 7.42 | 7.34 | -0.08 | Satisfactory |
| 10.01 | 9.92 | -0.09 | 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 |
|----------------------------------|----------------------|-----------|--------------|
| 14 | 15.45 | 1.45 | Satisfactory |
| 21 | 21.44 | 0.44 | Satisfactory |
| 34 | 34.68 | 0.68 | Satisfactory |

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

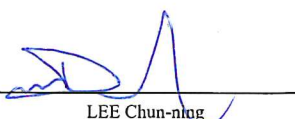
(3) Salinity

| Expected Reading (g/L) | Display Reading (g/L) | Tolerance (%) | Result |
|------------------------|-----------------------|---------------|--------------|
| 10 | 9.61 | -3.90 | Satisfactory |
| 20 | 21.04 | 5.20 | Satisfactory |
| 30 | 32.03 | 6.77 | Satisfactory |

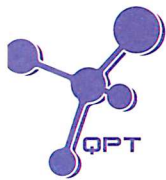
Tolerance of Salinity should be less than ± 10.0 (%)

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BB110035
Date of Issue : 17 November 2022
Page No. : 2 of 2

(4) Dissolved oxygen

| Expected Reading (mg/L) | Display Reading (mg/L) | Tolerance | Result |
|---------------------------|--------------------------|-----------|--------------|
| 7.88 | 7.70 | -0.18 | Satisfactory |
| 4.52 | 5.00 | 0.48 | Satisfactory |
| 1.43 | 1.00 | -0.43 | Satisfactory |
| 0.00 | 0.03 | 0.03 | 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 | 9.80 | -2.0 | Satisfactory |
| 20 | 19.5 | -2.5 | Satisfactory |
| 100 | 104 | 4.0 | Satisfactory |
| 800 | 811 | 1.4 | Satisfactory |

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

Remark(s)

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