

ANNEX F7

CALIBRATION CERTIFICATES FOR GROUNDWATER MONITORING EQUIPMENT



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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: MR IVAN LEUNG WORK ORDER: HK2343082

CLIENT: ALS TECHNICHEM (HK) PTY LTD

ADDRESS: 11/F., CHUNG SHUN KNITTING CENTRE, SUB-BATCH: (

1-3 WING YIP STREET, KWAI CHUNG, N.T. LABORATORY: HONG KONG

DATE RECEIVED: 28-Oct-2023 **DATE OF ISSUE:** 06-Nov-2023

GENERAL COMMENTS

The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principle as practised by the laboratory or quoted from relevant international standards.

The validity of equipment/ meter performance only applies to the result(s) stated in the report.

This report superseded any previous report(s) with same work order number.

EQUIPMENT INFORMATION

Equipment information (Brand name, Model No., Serial No. and Equipment No.) is provided by client.

Equipment Type: Multifunctional Meter Service Nature: Performance Check

Scope: Conductivity, Dissolved Oxygen, pH Value, Turbidity, Salinity and Temperature

Brand Name/ Model No.: [HORIBA]/ [U-52G]
Serial No./ Equipment No.: [NVAE08GT]/ [N/A]
Date of Calibration: 06-November-2023

16:5

Ms. Lin Wai Yu, Iris

Assistant Manager - Inorganics

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER: HK2343082

SUB-BATCH: 0

DATE OF ISSUE: 06-Nov-2023

CLIENT: ALS TECHNICHEM (HK) PTY LTD

Equipment Type:

Multifunctional Meter

Brand Name/ Model No.:

[HORIBA]/[U-52G]

Serial No./

[NVAE08GT]/ [N/A]

Equipment No.: Date of Calibration:

[....

tion: 06-November-2023

Date of Next Calibration: 06-February-2024

PARAMETERS:

Conductivity Method Ref: APHA (23rd edition), 2510B

Expected Reading (µS/cm)	Displayed Reading (μS/cm)	Tolerance (%)
146.9	145	-1.3
6667	6250	-6.3
12890	12500	-3.0
58670	53600	-8.6
	Tolerance Limit (%)	±10.0

Dissolved Oxygen

Method Ref: APHA (23rd edition), 4500O: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
1.74	1.65	-0.09
4.68	4.61	-0.07
8.29	8.17	-0.12
	Tolerance Limit (mg/L)	±0.20

pH Value

Method Ref: APHA (23rd edition), 4500H: B

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)
4.0	3.93	-0.07
7.0	6.95	-0.05
10.0	10.00	+0.00
	Tolerance Limit (pH unit)	±0.20

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

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Equipment Type:

Multifunctional Meter

Brand Name/ Model No.:

[HORIBA]/[U-52G]

Serial No./

Equipment No.:

[NVAE08GT]/[N/A]

Date of Calibration:

06-November-2023

Date of Next Calibration: 06-February-2024

PARAMETERS:

Turbidity Method Ref: APHA (23rd edition), 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.0	
4	4.0	+0.0
40	40.4	+1.0
80	79.1	-1.1
400	371	-7.3
800	779	-2.6
	Tolerance Limit (%)	±10.0

Salinity Method Ref: APHA (23rd edition), 2520B

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.00	
10	9.36	-6.4
20	18.80	-6.0
30	27.92	-6.9
	Tolerance Limit (%)	±10.0

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WORK ORDER: HK2343082

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CLIENT: ALS TECHNICHEM (HK) PTY LTD

Equipment Type:

Multifunctional Meter

Brand Name/ Model No.:

[HORIBA]/[U-52G]

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[NVAE08GT]/ [N/A]

Equipment No.:

06-November-2023

Date of Calibration:

Date of Next Calibration:

06-February-2024

PARAMETERS:

Temperature Method Ref: Section 6 of International Accreditation New Zealand Technical

Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
6.5	6.77	+0.3
24.0	24.83	+0.8
47.5	46.27	-1.2
	Tolerance Limit (°C)	±2.0

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