



ANNEX F7

CALIBRATION CERTIFICATES FOR  
GROUNDWATER MONITORING  
EQUIPMENT



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## REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

**CONTACT:** MR IVAN LEUNG  
**CLIENT:** ALS TECHNICHEM (HK) PTY LTD  
**ADDRESS:** 11/F., CHUNG SHUN KNITTING CENTRE,  
1-3 WING YIP STREET, KWAI CHUNG, N.T.

**WORK ORDER:** HK2423815  
**SUB-BATCH:** 0  
**LABORATORY:** HONG KONG  
**DATE RECEIVED:** 14-Jun-2024  
**DATE OF ISSUE:** 21-Jun-2024

### 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This report superseded any previous report(s) with same work order number.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.: [AWE7D2V4]/ [N/A]

Date of Calibration: 18-June-2024

Ms. Lin Wai Yu, Iris  
Assistant Manager - Inorganics

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**DATE OF ISSUE:** 21-Jun-2024  
**CLIENT:** ALS TECHNICHEM (HK) PTY LTD

Equipment Type: Multifunctional Meter  
Brand Name/ Model No.: [HORIBA]/ [U-52G]  
Serial No./ Equipment No.: [AWE7D2V4]/ [N/A]  
Date of Calibration: 18-June-2024 Date of Next Calibration: 18-September-2024

## PARAMETERS:

### Conductivity

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

Expected Reading ( $\mu\text{S}/\text{cm}$ )	Displayed Reading ( $\mu\text{S}/\text{cm}$ )	Tolerance (%)
146.9	155	+5.5
6667	6190	-7.2
12890	12300	-4.6
58670	54300	-7.4
	Tolerance Limit (%)	$\pm 10.0$

### Dissolved Oxygen

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.88	2.76	-0.12
4.53	4.60	+0.07
6.85	6.91	+0.06
	Tolerance Limit (mg/L)	$\pm 0.20$

### pH Value

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

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)
4.0	3.98	-0.02
7.0	6.92	-0.08
10.0	9.86	-0.14
	Tolerance Limit (pH unit)	$\pm 0.20$

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

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Date of Calibration: 18-June-2024 Date of Next Calibration: 18-September-2024

## PARAMETERS:

### Turbidity

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

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.0	--
4	4.3	+7.5
40	40.1	+0.3
80	77.3	-3.4
400	363	-9.3
800	786	-1.8
	Tolerance Limit (%)	±10.0

### Salinity

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.01	--
10	9.12	-8.8
20	18.15	-9.3
30	27.08	-9.7
	Tolerance Limit (%)	±10.0

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Equipment Type: Multifunctional Meter  
Brand Name/ Model No.: [HORIBA]/ [U-52G]  
Serial No./ Equipment No.: [AWE7D2V4]/ [N/A]  
Date of Calibration: 18-June-2024 Date of Next Calibration: 18-September-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)
12.0	12.82	+0.8
24.5	23.85	-0.6
40.5	39.14	-1.4
	Tolerance Limit (°C)	±2.0

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