Annex F4

Calibration Certificates for Effluent Quality Monitoring Equipment



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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: CLIENT:	MR IVAN LEUNG ALS TECHNICHEM (HK) PTY LTD	WORK ORDER:	HK2302854
ADDRESS:	11/F., CHUNG SHUN KNITTING CENTRE,	SUB-BATCH:	0
	1-3 WING YIP STREET, KWAI CHUNG, N.T.	LABORATORY:	HONG KONG
		DATE RECEIVED:	18-Jan-2023
		DATE OF ISSUE:	31-Jan-2023

SPECIFIC COMMENTS

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

Equipment Type:	Multifunctional Meter
Service Nature:	Performance Check
Scope:	Conductivity, Dissolved Oxygen, pH Value and Temperature
Brand Name/ Model No.:	[HORIBA]/ [U-52G]
Serial No./ Equipment No.:	[S1SXKFT0/RSV50V1T]/ [N/A]
Date of Calibration:	27-January-2023

GENERAL COMMENTS

This report superseded any previous report(s) with same work order number.

Ms. Lin Wai Yu, Iris Assistant Manager - Inorganics

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



WORK ORDER:	HK2302854		
SUB-BATCH: DATE OF ISSUE: CLIENT:	0 31-Jan-2023 ALS TECHNICHEM (HK) PTY LTD		
Equipment Type: Brand Name/ Model No.: Serial No./ Equipment No.:	Multifunctional Meter [HORIBA]/ [U-52G] [S1SXKFT0/RSV50V1T]/ [N/A]		
Date of Calibration:	27-January-2023	Date of Next Calibration:	27-April-2023

PARAMETERS:

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

Expected Reading (µS/cm)	Displayed Reading (µS/cm)	Tolerance (%)
146.9	155	+5.5
6667	6350	-4.8
12890	13000	+0.9
58670	54300	-7.4
	Tolerance Limit (%)	±10.0

Dissolved Oxygen

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.64	2.60	-0.04
4.92	4.90	-0.02
7.03	6.94	-0.09
	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	4.02	+0.02
7.0	7.07	+0.07
10.0	9.99	-0.01
	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.

Ms. Lin Wai Yu, Iris Assistant Manager - Inorganics

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



WORK ORDER:	HK2302854		
SUB-BATCH: DATE OF ISSUE: CLIENT:	0 31-Jan-2023 ALS TECHNICHEM (HK) PTY LTD		
Equipment Type: Brand Name/ Model No.: Serial No./ Equipment No.: Date of Calibration:	Multifunctional Meter [HORIBA]/ [U-52G] [S1SXKFT0/RSV50V1T]/ [N/A] 27-January-2023	Date of Next Calibration:	27-April-2023

PARAMETERS:

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

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Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)	
11.5	11.82	+0.3	
19.5	19.39	-0.1	
39.0	38.25	-0.8	
	Tolerance Limit (°C)	±2.0	

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

Ms. Lin Wai Yu, Iris Assistant Manager - Inorganics