

ALS Technichem (HK) Pty Ltd 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong **T:** +852 2610 1044 **F:** +852 2610 2021 www.alsglobal.com

# **REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION**

CONTACT: CLIENT:	THOMAS CHAN MOTT MACDONALD HONG KONG LIMITED	WORK ORDER:	HK2311853
ADDRESS:	3/F, MANULIFE PLACE, 348 KWUN TONG ROAD, KWUN TONG, KLN	SUB-BATCH: LABORATORY: DATE RECEIVED: DATE OF ISSUE:	0 HONG KONG 27-Mar-2023 06-Apr-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, Turbidity, Salinity and Temperature
Brand Name/ Model No.:	[HORIBA]/ [U-53]
Serial No./ Equipment No.:	[X42XKBNO/4BHN08KG]/ [N/A]
Date of Calibration:	04-April-2023

# **GENERAL COMMENTS**

This report superseded any previous report(s) with same work order number.

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Mr Chan Siu Ming, Vico Manager - Inorganics

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# **REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION**



WORK ORDER:	HK2311853		
SUB-BATCH: DATE OF ISSUE: CLIENT:	0 06-Apr-2023 MOTT MACDONALD HONG KC	NG LIMITED	
Equipment Type: Brand Name/ Model No.: Serial No./	Multifunctional Meter [HORIBA]/ [U-53] [X42XKBNO/4BHN08KG]/ [N/A]		
Equipment No.: Date of Calibration:	04-April-2023	Date of Next Calibration:	04-July-2023

### PARAMETERS:

Conductivity

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

Expected Reading (µS/cm)	Displayed Reading (µS/cm)	Tolerance (%)
146.9	155	+5.5
6667	6920	+3.8
12890	13000	+0.9
58670	54500	-7.1
	Tolerance Limit (%)	±10.0

### **Dissolved Oxygen**

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)		
2.13	2.23	+0.10		
4.95	5.06	+0.11		
7.46	7.62	+0.16		
	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	3.81	-0.19
7.0	6.94	-0.06
10.0	9.84	-0.16
	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: Brand Name/ Model No.: Serial No./ Equipment No.:	Multifunctional Meter [HORIBA]/ [U-53] [X42XKBNO/4BHN08KG]/ [N/A]		
Date of Calibration:	04-April-2023	Date of Next Calibration:	04-July-2023

### PARAMETERS:

### Turbidity

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

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.00	
4	3.95	-1.3
40	43.0	+7.5
80	83.8	+4.8
400	391	-2.3
800	783	-2.1
	Tolerance Limit (%)	±10.0

Salinity

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

Expected Reading (ppt) Displayed Reading (ppt) Tolerance (%)				
Expected Redding (ppt/		Toterance (70)		
0	0.01			
10	10.00	+0.0		
20	19.52	-2.4		
30	28.91	-3.6		
	Tolerance Limit (%)	±10.0		

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: Brand Name/ Model No.: Serial No./ Equipment No.:	Multifunctional Meter [HORIBA]/ [U-53] [X42XKBNO/4BHN08KG]/ [N/A]		
Date of Calibration:	04-April-2023	Date of Next Calibration:	04-July-2023

### **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)		
13.5	13.47	-0.0		
23.0	22.99	-0.0		
45.0	43.71	-1.3		
	Tolerance Limit (°C)	±2.0		

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