



## REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: THOMAS CHAN  
CLIENT: MOTT MACDONALD HONG KONG LIMITED  
ADDRESS: 3/F, MANULIFE PLACE,  
348 KWUN TONG ROAD,  
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WORK ORDER: HK2211534  
SUB-BATCH: 0  
LABORATORY: HONG KONG  
DATE RECEIVED: 31-Mar-2022  
DATE OF ISSUE: 11-Apr-2022

### 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: 11-April-2022

### GENERAL COMMENTS

This report superseded any previous report(s) with same work order number.

Mr Chan Siu Ming, Vico  
Manager - Inorganics

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**DATE OF ISSUE:** 11-Apr-2022  
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**Equipment Type:** Multifunctional Meter  
**Brand Name/ Model No.:** [HORIBA]/ [U-53]  
**Serial No./ Equipment No.:** [X42XKBNO/4BHN08KG]/ [N/A]  
**Date of Calibration:** 11-April-2022                      **Date of Next Calibration:** 11-July-2022

**PARAMETERS:**

Conductivity                      Method Ref: APHA (21st edition), 2510B

Expected Reading (µS/cm)	Displayed Reading (µS/cm)	Tolerance (%)
146.9	142	-3.3
6667	6370	-4.5
12890	12200	-5.4
58670	54200	-7.6
Tolerance Limit (%)		±10.0

Dissolved Oxygen                      Method Ref: APHA (21st edition), 4500O: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.84	3.68	-0.16
6.28	6.17	-0.11
8.49	8.50	+0.01
Tolerance Limit (mg/L)		±0.20

pH Value                      Method Ref: APHA (21st edition), 4500H: B

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)
4.0	4.00	+0.00
7.0	7.00	+0.00
10.0	9.98	-0.02
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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**Date of Calibration:** 11-April-2022                      **Date of Next Calibration:** 11-July-2022

**PARAMETERS:**

**Turbidity**                      Method Ref: APHA (21st edition), 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.00	--
4	4.18	+4.5
40	42.0	+5.0
80	78.2	-2.3
400	440	+10.0
800	856	+7.0
	<b>Tolerance Limit (%)</b>	<b>±10.0</b>

**Salinity**                      Method Ref: APHA (21st edition), 2520B

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.00	--
10	9.45	-5.5
20	18.57	-7.2
30	28.65	-4.5
	<b>Tolerance Limit (%)</b>	<b>±10.0</b>

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## 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)
8.5	9.05	+0.6
20.5	21.00	+0.5
36.5	37.34	+0.8
	Tolerance Limit (°C)	±2.0

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