



## REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:	MR K.W.FAN	WORK ORDER:	HK2123008
CLIENT:	ENVIROTECH SERVICES CO.		
ADDRESS:	RM113, 1/F, MY LOFT, 9 HOI WING ROAD, TUEN MUN, N.T. HONG KONG	SUB-BATCH:	0
		LABORATORY:	HONG KONG
		DATE RECEIVED:	07-Jun-2021
		DATE OF ISSUE:	18-Jun-2021

### 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.:	[N/A]/ [U-53]
Serial No./ Equipment No.:	[KP23RR5M]/ [N/A]
Date of Calibration:	17-June-2021

### GENERAL COMMENTS

This is the Final Report and supersedes any preliminary report with this batch number.

Mr Chan Siu Ming, Vico  
Manager - Inorganic

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# REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



WORK ORDER: HK2123008  
 SUB-BATCH: 0  
 DATE OF ISSUE: 18-Jun-2021  
 CLIENT: ENVIROTECH SERVICES CO.

Equipment Type: Multifunctional Meter  
 Brand Name/ Model No.: [N/A]/ [U-53]  
 Serial No./ Equipment No.: [KP23RR5M]/ [N/A]  
 Date of Calibration: 17-June-2021

Date of Next Calibration: 17-September-2021

**PARAMETERS:**

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

Expected Reading ( $\mu\text{S/cm}$ )	Displayed Reading ( $\mu\text{S/cm}$ )	Tolerance (%)
146.9	150.0	+2.1
6667	6600	-1.0
12890	12700	-1.5
58670	57800	-1.5
Tolerance Limit (%)		$\pm 10.0$

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.29	2.37	+0.08
4.32	4.22	-0.10
7.30	7.23	-0.07
Tolerance Limit (mg/L)		$\pm 0.20$

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

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)
4.0	4.06	+0.06
7.0	7.01	+0.01
10.0	9.94	-0.06
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.

Mr Chan Siu Ming, Vico  
 Manager - Inorganic

# REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



WORK ORDER: HK2123008  
 SUB-BATCH: 0  
 DATE OF ISSUE: 18-Jun-2021  
 CLIENT: ENVIROTECH SERVICES CO.

Equipment Type: Multifunctional Meter  
 Brand Name/ Model No.: [N/A]/ [U-53]  
 Serial No./ Equipment No.: [KP23RR5M]/ [N/A]  
 Date of Calibration: 17-June-2021

Date of Next Calibration: 17-September-2021

**PARAMETERS:**

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

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.00	--
4	4.03	+0.8
40	39.2	-2.0
80	81.8	+2.3
400	425	+6.3
800	798	-0.3
	Tolerance Limit (%)	±10.0

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.00	--
10	10.51	+5.1
20	20.35	+1.8
30	30.59	+2.0
	Tolerance Limit (%)	±10.0

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 Manager - Inorganic

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WORK ORDER: HK2123008  
SUB-BATCH: 0  
DATE OF ISSUE: 18-Jun-2021  
CLIENT: ENVIROTECH SERVICES CO.

Equipment Type: Multifunctional Meter  
Brand Name/ Model No.: [N/A]/ [U-53]  
Serial No./ Equipment No.: [KP23RR5M]/ [N/A]  
Date of Calibration: 17-June-2021

Date of Next Calibration: 17-September-2021

## 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	13.69	+1.7
20.0	21.28	+1.3
40.0	40.85	+0.9
	Tolerance Limit (°C)	±2.0

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

A handwritten signature in black ink, appearing to read 'Chan Siu Ming'.

Mr Chan Siu Ming, Vico  
Manager - Inorganic



## REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:	MR K.W.FAN	WORK ORDER:	HK2139235
CLIENT:	ENVIROTECH SERVICES CO.		
ADDRESS:	RM113, 1/F, MY LOFT, 9 HOI WING ROAD, TUEN MUN, N.T. HONG KONG	SUB-BATCH:	0
		LABORATORY:	HONG KONG
		DATE RECEIVED:	28-Sep-2021
		DATE OF ISSUE:	04-Oct-2021

### 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-5000/U-53]
Serial No./ Equipment No.:	[LUAVCDWU]/ [FXMONLLF]
Date of Calibration:	04-October-2021

### GENERAL COMMENTS

This is the Final Report and supersedes any preliminary report with this batch number.

Ms. Lin Wai Yu, Iris  
Assistant Manager - Inorganic

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# REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



WORK ORDER: **HK2139235**  
 SUB-BATCH: **0**  
 DATE OF ISSUE: **04-Oct-2021**  
 CLIENT: **ENVIROTECH SERVICES CO.**

Equipment Type: **Multifunctional Meter**  
 Brand Name/  
 Model No.: **[HORIBA]/ [U-5000/U-53]**  
 Serial No./  
 Equipment No.: **[LUAVCDWU]/ [FXMONLLF]**  
 Date of Calibration: **04-October-2021**      Date of Next Calibration: **04-January-2022**

**PARAMETERS:**

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

Expected Reading (µS/cm)	Displayed Reading (µS/cm)	Tolerance (%)
146.9	149.0	+1.4
6667	6230	-6.6
12890	12670	-1.7
58670	56300	-4.0
	Tolerance Limit (%)	±10.0

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.91	4.10	+0.19
5.80	5.93	+0.13
7.22	7.17	-0.05
	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	4.11	+0.11
7.0	7.08	+0.08
10.0	10.06	+0.06
	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 - Inorganic

# REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



WORK ORDER: HK2139235  
 SUB-BATCH: 0  
 DATE OF ISSUE: 04-Oct-2021  
 CLIENT: ENVIROTECH SERVICES CO.

Equipment Type: Multifunctional Meter  
 Brand Name/ Model No.: [HORIBA]/ [U-5000/U-53]  
 Serial No./ Equipment No.: [LUAVCDWU]/ [FXMONLLF]  
 Date of Calibration: 04-October-2021      Date of Next Calibration: 04-January-2022

PARAMETERS:

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

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.08	--
4	4.02	+0.5
40	39.4	-1.5
80	80.4	+0.5
400	428	+7.0
800	835	+4.4
	Tolerance Limit (%)	±10.0

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.00	--
10	10.06	+0.6
20	19.91	-0.4
30	29.61	-1.3
	Tolerance Limit (%)	±10.0

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Ms. Lin Wai Yu, Iris  
 Assistant Manager - Inorganic

# REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



WORK ORDER: HK2139235  
SUB-BATCH: 0  
DATE OF ISSUE: 04-Oct-2021  
CLIENT: ENVIROTECH SERVICES CO.

Equipment Type: Multifunctional Meter  
Brand Name/ Model No.: [HORIBA]/ [U-5000/U-53]  
Serial No./ Equipment No.: [LUAVCDWU]/ [FXMONLLF]  
Date of Calibration: 04-October-2021 Date of Next Calibration: 04-January-2022

## 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)
10.5	10.97	+0.5
21.5	20.62	-0.9
39.5	39.41	-0.1
	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 - Inorganic