

專業化驗有限公司

QUALITY PRO TEST-CONSULT LIMITED

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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BD060014

Date of Issue : 04 June 2024

Page No. : 1 of 2

### PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.

Flat 2207, Yu Fun House Yu Chui Court, Shatin

New Territories (HK) Hong Kong

### PART B - SAMPLE INFORMATION

Name of Equipment : YSI ProDSS Multi Parameters

Manufacturer : YSI

Serial Number : 15M100005

Date of Received : 03 June 2024

Date of Calibration : 03 June 2024

Date of Next Calibration : 02 September 2024

Request No. : D-BD060014

### PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

#### Test Parameter

#### Reference Method

pH value

APHA 21e 4500-H<sup>+</sup> B

Temperature

Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure

Salinity

APHA 21e 2520 B

Dissolved oxygen

APHA 23e 4500-O G (Membrane Electrode Method)

Turbidity

APHA 21e 2130 B (Nephelometric Method)

Conductivity

APHA 21e 2510 B

### PART D - CALIBRATION RESULT

#### (1) pH value

Target ( pH unit )	Display Reading ( pH unit )	Tolerance	Result
4.00	4.06	0.06	Satisfactory
7.42	7.51	0.09	Satisfactory
10.01	10.07	0.06	Satisfactory

Tolerance of pH value should be less than  $\pm 0.2$  ( pH unit )

#### (2) Temperature

Reading of Ref. thermometer ( °C )	Display Reading ( °C )	Tolerance	Result
15.0	15.0	0.0	Satisfactory
25.0	25.0	0.0	Satisfactory
45.0	45.0	0.0	Satisfactory

Tolerance of Temperature should be less than  $\pm 2.0$  ( °C )

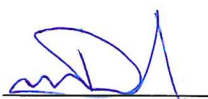
#### (3) Salinity

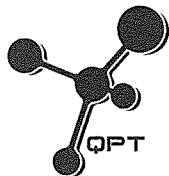
Expected Reading ( g/L )	Display Reading ( g/L )	Tolerance ( % )	Result
10	9.89	-1.10	Satisfactory
20	20.36	1.80	Satisfactory
30	29.88	-0.40	Satisfactory

Tolerance of Salinity should be less than  $\pm 10.0$  ( % )

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### (4) Dissolved oxygen

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance	Result
8.07	8.03	-0.04	Satisfactory
6.09	6.08	-0.01	Satisfactory
3.63	3.49	-0.14	Satisfactory
0.88	0.68	-0.20	Satisfactory

Tolerance of Dissolved oxygen should be less than  $\pm 0.5$  ( mg/L )

### (5) Turbidity

Expected Reading ( NTU )	Display Reading ( NTU )	Tolerance ( % )	Result
0	0.08	--	Satisfactory
10	10.16	1.6	Satisfactory
20	19.80	-1.0	Satisfactory
100	104.31	4.3	Satisfactory
800	810.25	1.3	Satisfactory

Tolerance of Turbidity should be less than  $\pm 10.0$  ( % )

### (6) Conductivity

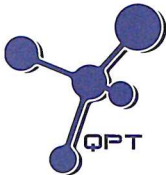
Expected Reading ( $\mu\text{S}/\text{cm}$ at $25^{\circ}\text{C}$ )	Display Reading	Tolerance ( % )	Result
146.9	150.8	2.7	Satisfactory
1412	1432	1.4	Satisfactory
12890	12937	0.4	Satisfactory
58670	59268	1.0	Satisfactory
111900	113876	1.8	Satisfactory

Tolerance of Conductivity should be less than  $\pm 10.0$  ( % )

### Remark(s)

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--- END OF REPORT ---



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BD060015  
Date of Issue : 04 June 2024  
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PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.  
Flat 2207, Yu Fun House Yu Chui Court, Shatin  
New Territories (HK) Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment : YSI ProDSS Multi Parameters  
Manufacturer : YSI  
Serial Number : 16H104233  
Date of Received : 03 June 2024  
Date of Calibration : 03 June 2024  
Date of Next Calibration : 02 September 2024  
Request No. : D-BD060015

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter	Reference Method
pH value	APHA 21e 4500-H <sup>+</sup> B
Temperature	Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure
Salinity	APHA 21e 2520 B
Dissolved oxygen	APHA 23e 4500-O G (Membrane Electrode Method)
Turbidity	APHA 21e 2130 B (Nephelometric Method)
Conductivity	APHA 21e 2510 B

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.08	0.08	Satisfactory
7.42	7.35	-0.07	Satisfactory
10.01	10.15	0.14	Satisfactory

Tolerance of pH value should be less than ± 0.2 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
15.0	15.0	0.0	Satisfactory
25.0	25.0	0.0	Satisfactory
45.0	45.0	0.0	Satisfactory

Tolerance of Temperature should be less than ± 2.0 (°C)

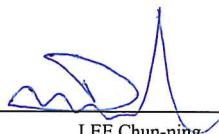
(3) Salinity

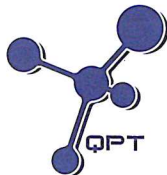
Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	9.92	-0.80	Satisfactory
20	20.41	2.05	Satisfactory
30	29.85	-0.50	Satisfactory

Tolerance of Salinity should be less than ± 10.0 (%)

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### (4) Dissolved oxygen

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance	Result
8.07	8.00	-0.07	Satisfactory
6.09	6.14	0.05	Satisfactory
3.63	3.52	-0.11	Satisfactory
0.88	0.70	-0.18	Satisfactory

Tolerance of Dissolved oxygen should be less than  $\pm 0.5$  ( mg/L )

### (5) Turbidity

Expected Reading ( NTU )	Display Reading ( NTU )	Tolerance ( % )	Result
0	0.08	--	Satisfactory
10	9.80	-2.0	Satisfactory
20	18.89	-5.6	Satisfactory
100	102.72	2.7	Satisfactory
800	813.34	1.7	Satisfactory

Tolerance of Turbidity should be less than  $\pm 10.0$  ( % )

### (6) Conductivity

Expected Reading ( $\mu\text{S/cm}$ at $25^\circ\text{C}$ )	Display Reading	Tolerance ( % )	Result
146.9	149.5	1.8	Satisfactory
1412	1446	2.4	Satisfactory
12890	12807	-0.6	Satisfactory
58670	59334	1.1	Satisfactory
111900	114215	2.1	Satisfactory

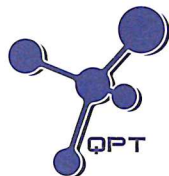
Tolerance of Conductivity should be less than  $\pm 10.0$  ( % )

### Remark(s)

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--- END OF REPORT ---





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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BD050061

Date of Issue : 20 May 2024

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### PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.  
Flat 2207, Yu Fun House Yu Chui Court, Shatin  
New Territories (HK) Hong Kong

### PART B - SAMPLE INFORMATION

Name of Equipment : YSI ProDSS Multi Parameters  
Manufacturer : YSI  
Serial Number : 21G105356  
Date of Received : 17 May 2024  
Date of Calibration : 17 May 2024  
Date of Next Calibration : 16 August 2024  
Request No. : D-BD050061

### PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter	Reference Method
pH value	APHA 21e 4500-H <sup>+</sup> B
Temperature	Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure
Salinity	APHA 21e 2520 B
Dissolved oxygen	APHA 23e 4500-O G (Membrane Electrode Method)
Turbidity	APHA 21e 2130 B (Nephelometric Method)
Conductivity	APHA 21e 2510 B

### PART D - CALIBRATION RESULT

#### (1) pH value

Target ( pH unit )	Display Reading ( pH unit )	Tolerance	Result
4.00	4.04	0.04	Satisfactory
7.42	7.50	0.08	Satisfactory
10.01	10.10	0.09	Satisfactory

Tolerance of pH value should be less than  $\pm 0.2$  ( pH unit )

#### (2) Temperature

Reading of Ref. thermometer ( °C )	Display Reading ( °C )	Tolerance	Result
10.0	10.0	0.0	Satisfactory
25.0	25.0	0.0	Satisfactory
40.0	40.0	0.0	Satisfactory

Tolerance of Temperature should be less than  $\pm 2.0$  ( °C )

#### (3) Salinity

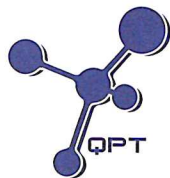
Expected Reading ( g/L )	Display Reading ( g/L )	Tolerance ( % )	Result
10	9.96	-0.40	Satisfactory
20	20.10	0.50	Satisfactory
30	30.11	0.37	Satisfactory

Tolerance of Salinity should be less than  $\pm 10.0$  ( % )

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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BD050061

Date of Issue : 20 May 2024

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### (4) Dissolved oxygen

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance	Result
7.93	8.00	0.07	Satisfactory
6.02	6.12	0.10	Satisfactory
4.98	4.90	-0.08	Satisfactory
1.41	1.40	-0.01	Satisfactory

Tolerance of Dissolved oxygen should be less than  $\pm 0.5$  ( mg/L )

### (5) Turbidity

Expected Reading ( NTU )	Display Reading ( NTU )	Tolerance ( % )	Result
0	0.10	--	Satisfactory
10	9.86	-1.4	Satisfactory
20	19.34	-3.3	Satisfactory
100	98.21	-1.8	Satisfactory
800	798.52	-0.2	Satisfactory

Tolerance of Turbidity should be less than  $\pm 10.0$  ( % )

### (6) Conductivity

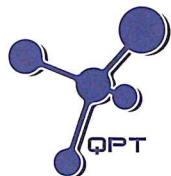
Expected Reading ( $\mu\text{S}/\text{cm}$ at $25^{\circ}\text{C}$ )	Display Reading	Tolerance ( % )	Result
146.9	151.1	2.9	Satisfactory
1412	1496	5.9	Satisfactory
12890	13015	1.0	Satisfactory
58670	58390	-0.5	Satisfactory
111900	112816	0.8	Satisfactory

Tolerance of Conductivity should be less than  $\pm 10.0$  ( % )

### Remark(s)

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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BD050060

Date of Issue : 20 May 2024

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### PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.

Flat 2207, Yu Fun House Yu Chui Court, Shatin

New Territories (HK) Hong Kong

### PART B - SAMPLE INFORMATION

Name of Equipment : YSI ProDSS Multi Parameters

Manufacturer : YSI

Serial Number : 21K101468

Date of Received : 17 May 2024

Date of Calibration : 17 May 2024

Date of Next Calibration : 16 August 2024

Request No. : D-BD050060

### PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

#### Test Parameter

pH value

Temperature

Salinity

Dissolved oxygen

Turbidity

Conductivity

#### Reference Method

APHA 21e 4500-H<sup>+</sup> B

Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure

APHA 21e 2520 B

APHA 23e 4500-O G (Membrane Electrode Method)

APHA 21e 2130 B (Nephelometric Method)

APHA 21e 2510 B

### PART D - CALIBRATION RESULT

#### (1) pH value

Target ( pH unit )	Display Reading ( pH unit )	Tolerance	Result
4.00	4.06	0.06	Satisfactory
7.42	7.48	0.06	Satisfactory
10.01	10.13	0.12	Satisfactory

Tolerance of pH value should be less than  $\pm 0.2$  ( pH unit )

#### (2) Temperature

Reading of Ref. thermometer ( °C )	Display Reading ( °C )	Tolerance	Result
10.0	10.0	0.0	Satisfactory
25.0	25.0	0.0	Satisfactory
40.0	40.0	0.0	Satisfactory

Tolerance of Temperature should be less than  $\pm 2.0$  ( °C )

#### (3) Salinity

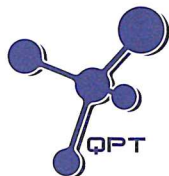
Expected Reading ( g/L )	Display Reading ( g/L )	Tolerance ( % )	Result
10	9.94	-0.60	Satisfactory
20	20.09	0.45	Satisfactory
30	30.08	0.27	Satisfactory

Tolerance of Salinity should be less than  $\pm 10.0$  ( % )

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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BD050060

Date of Issue : 20 May 2024

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### (4) Dissolved oxygen

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance	Result
7.93	8.00	0.07	Satisfactory
6.02	6.20	0.18	Satisfactory
4.98	4.93	-0.05	Satisfactory
1.41	1.26	-0.15	Satisfactory

Tolerance of Dissolved oxygen should be less than  $\pm 0.5$  ( mg/L )

### (5) Turbidity

Expected Reading ( NTU )	Display Reading ( NTU )	Tolerance ( % )	Result
0	0.10	--	Satisfactory
10	10.09	0.9	Satisfactory
20	19.12	-4.4	Satisfactory
100	97.57	-2.4	Satisfactory
800	793.46	-0.8	Satisfactory

Tolerance of Turbidity should be less than  $\pm 10.0$  ( % )

### (6) Conductivity

Expected Reading ( $\mu\text{S}/\text{cm}$ at $25^\circ\text{C}$ )	Display Reading	Tolerance ( % )	Result
146.9	152.1	3.5	Satisfactory
1412	1376	-2.5	Satisfactory
12890	12810	-0.6	Satisfactory
58670	57307	-2.3	Satisfactory
111900	110841	-0.9	Satisfactory

Tolerance of Conductivity should be less than  $\pm 10.0$  ( % )

### Remark(s)

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