



專業化驗有限公司  
QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong  
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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AI010080  
Date of Issue : 08 January, 2019  
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### PART A – CUSTOMER INFORMATION

Enovative Environmental Service Ltd.  
Flat 2207, Yu Fun House,  
Yu Chui Court, Shatin  
New Territories, Hong Kong  
Attn: Mr. Thomas WONG

### PART B – DESCRIPTION

Name of Equipment : YSI ProDSS (Multi-Parameters)  
Manufacturer : YSI (a xylem brand)  
Serial Number : 16H104233  
Date of Received : Dec 31, 2018  
Date of Calibration : Dec 31, 2018  
Date of Next Calibration<sup>(a)</sup> : Mar 31, 2019

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

| <u>Parameter</u>     | <u>Reference Method</u>  |
|----------------------|--|
| pH at 25°C           | APHA 21e 4500-H <sup>+</sup> B   |
| Dissolved Oxygen     | APHA 21e 4500-O G  |
| Conductivity at 25°C | APHA 21e 2510 B  |
| Salinity             | APHA 21e 2520 B  |
| Turbidity            | APHA 21e 2130 B  |
| Temperature          | Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure. |

### PART D – CALIBRATION RESULTS<sup>(b,c)</sup>

#### (1) pH at 25°C

| Target (pH unit) | Displayed Reading <sup>(d)</sup> (pH Unit) | Tolerance <sup>(e)</sup> (pH Unit) | Results      |
|------------------|--|------------------------------------|--------------|
| 4.00             | 3.92                                       | -0.08                              | Satisfactory |
| 7.42             | 7.23                                       | -0.19                              | Satisfactory |
| 10.01            | 10.15                                      | 0.14                               | Satisfactory |

Tolerance of pH should be less than  $\pm 0.20$  (pH unit)

#### (2) Temperature

| Reading of Ref. thermometer (°C) | Displayed Reading (°C) | Tolerance (°C) | Results      |
|----------------------------------|------------------------|----------------|--------------|
| 8.8                              | 9.0                    | 0.2            | Satisfactory |
| 18.0                             | 17.3                   | -0.7           | Satisfactory |
| 39.5                             | 38.9                   | -0.6           | Satisfactory |


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

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#### Remark(s): -

- The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted from relevant international standards.
- The results relate only to the calibrated equipment as received
- The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
- "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
- The "Tolerance Limit" mentioned is referenced to YSI product specifications.

APPROVED SIGNATORY:

  
LAM Ho-ye, Emma  
Assistant Laboratory Manager



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QUALITY PRO TEST-CONSULT LIMITED

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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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### PART D – CALIBRATION RESULTS (Cont'd)

#### (3) Dissolved Oxygen

| Expected Reading (mg/L) | Displayed Reading (mg/L) | Tolerance (mg/L) | Results      |
|-------------------------|--------------------------|------------------|--------------|
| 0.41                    | 0.33                     | -0.08            | Satisfactory |
| 5.71                    | 5.59                     | -0.12            | Satisfactory |
| 7.78                    | 7.68                     | -0.10            | Satisfactory |
| 9.33                    | 9.28                     | -0.05            | Satisfactory |

Tolerance limit of dissolved oxygen should be less than  $\pm 0.20$  (mg/L)

#### (4) Conductivity at 25°C

| Conc. of KCl (M) | Expected Reading ( $\mu\text{S}/\text{cm}$ ) | Displayed Reading ( $\mu\text{S}/\text{cm}$ ) | Tolerance (%) | Results      |
|------------------|--|---|---------------|--------------|
| 0.001            | 146.9  | 153.2   | 4.3           | Satisfactory |
| 0.01             | 1412   | 1350  | -4.4          | Satisfactory |
| 0.1              | 12890  | 12848   | -0.3          | Satisfactory |
| 0.5              | 58670  | 57860   | -1.4          | Satisfactory |
| 1.0              | 111900                                       | 111233  | -0.6          | Satisfactory |

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

#### (5) Salinity

| Expected Reading (g/L) | Displayed Reading (g/L) | Tolerance (%) | Results      |
|------------------------|-------------------------|---------------|--------------|
| 10                     | 9.88                    | -1.2          | Satisfactory |
| 20                     | 19.80                   | -1.0          | Satisfactory |
| 30                     | 30.30                   | 1.0           | Satisfactory |

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

#### (6) Turbidity

| Expected Reading (NTU) | Displayed Reading <sup>(f)</sup> (NTU) | Tolerance <sup>(g)</sup> (%) | Results      |
|------------------------|--|------------------------------|--------------|
| 0                      | 0.31                                   | --                           | --           |
| 10                     | 10.08                                  | 0.8                          | Satisfactory |
| 20                     | 19.88                                  | -0.6                         | Satisfactory |
| 100                    | 98.74                                  | -1.3                         | Satisfactory |
| 800                    | 730.58                                 | -8.7                         | Satisfactory |

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

~ END OF REPORT ~

#### Remark(s): -

<sup>(f)</sup> "Displayed Reading" presents the figures shown on item under calibration/ checking regardless of equipment precision or significant figures.

<sup>(g)</sup> The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted from relevant international standards.



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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH100180  
Date of Issue : 26 October 2018  
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### PART A – CUSTOMER INFORMATION

Enovative Environmental Service Ltd.  
Flat 2207, Yu Fun House,  
Yu Chui Court, Shatin,  
New Territories, Hong Kong  
Attn: Mr. Thomas WONG

### PART B – DESCRIPTION

Name of Equipment : YSI ProDSS (Multi-Parameters)  
Manufacturer : YSI (a xylem brand)  
Serial Number : 16H104234  
Date of Received : Oct 26, 2018  
Date of Calibration : Oct 26, 2018  
Date of Next Calibration<sup>(a)</sup> : Jan 26, 2019

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

| Parameter            | Reference Method   |
|----------------------|--|
| pH at 25°C           | APHA 21e 4500-H <sup>+</sup> B   |
| Dissolved Oxygen     | APHA 21e 4500-O G  |
| Conductivity at 25°C | APHA 21e 2510 B  |
| Salinity             | APHA 21e 2520 B  |
| Turbidity            | APHA 21e 2130 B  |
| Temperature          | Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure. |

### PART D – CALIBRATION RESULTS<sup>(b,c)</sup>

#### (1) pH at 25°C

| Target (pH unit) | Displayed Reading <sup>(d)</sup> (pH Unit) | Tolerance <sup>(e)</sup> (pH Unit) | Results      |
|------------------|--|------------------------------------|--------------|
| 4.00             | 4.05                                       | 0.05                               | Satisfactory |
| 7.42             | 7.46                                       | 0.04                               | Satisfactory |
| 10.01            | 9.98                                       | -0.03                              | Satisfactory |

Tolerance of pH should be less than ±0.10 (pH unit)

#### (2) Temperature

| Reading of Ref. thermometer (°C) | Displayed Reading (°C) | Tolerance (°C) | Results      |
|----------------------------------|------------------------|----------------|--------------|
| 10.8                             | 10.7                   | -0.1           | Satisfactory |
| 23.5                             | 23.4                   | -0.1           | Satisfactory |
| 45.0                             | 45.5                   | 0.5            | Satisfactory |


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

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#### Remark(s): -

- <sup>(a)</sup> The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted from relevant international standards.  
<sup>(b)</sup> The results relate only to the calibrated equipment as received  
<sup>(c)</sup> The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.  
<sup>(d)</sup> "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.  
<sup>(e)</sup> The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by QPT or quoted from relevant international standards.

APPROVED SIGNATORY:

  
LAM Ho-ye, Emma  
Assistant Laboratory Manager





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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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### PART D – CALIBRATION RESULTS (Cont'd)

#### (3) Dissolved Oxygen

| Expected Reading (mg/L) | Displayed Reading (mg/L) | Tolerance (mg/L) | Results      |
|-------------------------|--------------------------|------------------|--------------|
| 0.00                    | 0.00                     | 0.00             | Satisfactory |
| 1.70                    | 1.81                     | 0.11             | Satisfactory |
| 4.79                    | 4.81                     | 0.02             | Satisfactory |
| 7.70                    | 7.74                     | 0.04             | Satisfactory |

Tolerance limit of dissolved oxygen should be less than  $\pm 0.20$  (mg/L)

#### (4) Conductivity at 25°C

| Conc. of KCl (M) | Expected Reading ( $\mu\text{S}/\text{cm}$ ) | Displayed Reading ( $\mu\text{S}/\text{cm}$ ) | Tolerance (%) | Results      |
|------------------|--|---|---------------|--------------|
| 0.001            | 146.9  | 153.0   | 4.2           | Satisfactory |
| 0.01             | 1412   | 1359  | -3.8          | Satisfactory |
| 0.1              | 12890  | 12520   | -2.9          | Satisfactory |
| 0.5              | 58670  | 57672   | -1.7          | Satisfactory |
| 1.0              | 111900                                       | 112190  | 0.3           | Satisfactory |

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

#### (5) Salinity

| Expected Reading (g/L) | Displayed Reading (g/L) | Tolerance (%) | Results      |
|------------------------|-------------------------|---------------|--------------|
| 10                     | 10.11                   | 1.1           | Satisfactory |
| 20                     | 20.47                   | 2.3           | Satisfactory |
| 30                     | 30.18                   | 0.6           | Satisfactory |

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

#### (6) Turbidity

| Expected Reading (NTU) | Displayed Reading <sup>(1)</sup> (NTU) | Tolerance <sup>(2)</sup> (%) | Results      |
|------------------------|--|------------------------------|--------------|
| 0                      | 0.40                                   | --                           | --           |
| 10                     | 9.80                                   | -2.0                         | Satisfactory |
| 20                     | 19.36                                  | -3.2                         | Satisfactory |
| 100                    | 102.34                                 | 2.3                          | Satisfactory |
| 800                    | 803.10                                 | 0.4                          | Satisfactory |

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

~ END OF REPORT ~

#### Remark(s): -

<sup>(1)</sup> "Displayed Reading" presents the figures shown on item under calibration/ checking regardless of equipment precision or significant figures.

<sup>(2)</sup> The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted from relevant international standards.



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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AI010081  
Date of Issue : 08 January, 2019  
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### PART A – CUSTOMER INFORMATION

Enovative Environmental Service Ltd.  
Flat 2207, Yu Fun House,  
Yu Chui Court, Shatin  
New Territories, Hong Kong  
Attn: Mr. Thomas WONG

### PART B – DESCRIPTION

Name of Equipment : YSI ProDSS (Multi-Parameters)  
Manufacturer : YSI (a xylem brand)  
Serial Number : 17E100747  
Date of Received : Dec 31, 2018  
Date of Calibration : Dec 31, 2018  
Date of Next Calibration<sup>(a)</sup> : Mar 31, 2019

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

| <u>Parameter</u>     | <u>Reference Method</u>   |
|----------------------|---|
| pH at 25°C           | APHA 21e 4500-H <sup>+</sup> B  |
| Dissolved Oxygen     | APHA 21e 4500-O G   |
| Conductivity at 25°C | APHA 21e 2510 B   |
| Salinity             | APHA 21e 2520 B   |
| Turbidity            | APHA 21e 2130 B   |
| Temperature          | Section 6 of international Accreditation New Zealand Technical<br>Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure. |

### PART D – CALIBRATION RESULTS<sup>(b,c)</sup>

#### (1) pH at 25°C

| Target (pH unit) | Displayed Reading <sup>(d)</sup> (pH Unit) | Tolerance <sup>(e)</sup> (pH Unit) | Results      |
|------------------|--|------------------------------------|--------------|
| 4.00             | 4.08                                       | 0.08                               | Satisfactory |
| 7.42             | 7.55                                       | 0.13                               | Satisfactory |
| 10.01            | 10.17                                      | 0.16                               | Satisfactory |

Tolerance of pH should be less than  $\pm 0.20$  (pH unit)

#### (2) Temperature

| Reading of Ref. thermometer (°C) | Displayed Reading (°C) | Tolerance (°C) | Results      |
|----------------------------------|------------------------|----------------|--------------|
| 8.8                              | 9.2                    | 0.4            | Satisfactory |
| 18.0                             | 17.6                   | -0.4           | Satisfactory |
| 39.5                             | 39.3                   | -0.2           | Satisfactory |


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

~ CONTINUED ON NEXT PAGE ~

#### Remark(s): -

- <sup>(a)</sup> The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted from relevant international standards.  
<sup>(b)</sup> The results relate only to the calibrated equipment as received  
<sup>(c)</sup> The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.  
<sup>(d)</sup> "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.  
<sup>(e)</sup> The "Tolerance Limit" mentioned is referenced to YSI product specifications.

APPROVED SIGNATORY:

  
LAM Ho-ye, Emma  
Assistant Laboratory Manager



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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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Date of Issue : 08 January, 2019  
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### PART D – CALIBRATION RESULTS (Cont'd)

#### (3) Dissolved Oxygen

| Expected Reading (mg/L) | Displayed Reading (mg/L) | Tolerance (mg/L) | Results      |
|-------------------------|--------------------------|------------------|--------------|
| 0.41                    | 0.32                     | -0.09            | Satisfactory |
| 5.71                    | 5.63                     | -0.08            | Satisfactory |
| 7.78                    | 7.91                     | 0.13             | Satisfactory |
| 9.33                    | 9.23                     | -0.10            | Satisfactory |

Tolerance limit of dissolved oxygen should be less than  $\pm 0.20$  (mg/L)

#### (4) Conductivity at 25°C

| Conc. of KCl (M) | Expected Reading ( $\mu\text{S}/\text{cm}$ ) | Displayed Reading ( $\mu\text{S}/\text{cm}$ ) | Tolerance (%) | Results      |
|------------------|--|---|---------------|--------------|
| 0.001            | 146.9  | 155.4   | 5.8           | Satisfactory |
| 0.01             | 1412   | 1366  | -3.3          | Satisfactory |
| 0.1              | 12890  | 12823   | -0.5          | Satisfactory |
| 0.5              | 58670  | 57898   | -1.3          | Satisfactory |
| 1.0              | 111900                                       | 111575  | -0.3          | Satisfactory |

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

#### (5) Salinity

| Expected Reading (g/L) | Displayed Reading (g/L) | Tolerance (%) | Results      |
|------------------------|-------------------------|---------------|--------------|
| 10                     | 10.06                   | 0.6           | Satisfactory |
| 20                     | 20.02                   | 0.1           | Satisfactory |
| 30                     | 30.79                   | 2.6           | Satisfactory |

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

#### (6) Turbidity

| Expected Reading (NTU) | Displayed Reading <sup>(f)</sup> (NTU) | Tolerance <sup>(g)</sup> (%) | Results      |
|------------------------|--|------------------------------|--------------|
| 0                      | 0.22                                   | --                           | --           |
| 10                     | 9.89                                   | -1.1                         | Satisfactory |
| 20                     | 20.68                                  | 3.4                          | Satisfactory |
| 100                    | 98.82                                  | -1.2                         | Satisfactory |
| 800                    | 748.91                                 | -6.4                         | Satisfactory |

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

~ END OF REPORT ~

#### Remark(s): -

<sup>(f)</sup> "Displayed Reading" presents the figures shown on item under calibration/ checking regardless of equipment precision or significant figures.

<sup>(g)</sup> The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted from relevant international standards.





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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH100181  
Date of Issue : 26 October 2018  
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### PART A – CUSTOMER INFORMATION

Enovative Environmental Service Ltd.  
Flat 2207, Yu Fun House,  
Yu Chui Court, Shatin,  
New Territories, Hong Kong  
Attn: Mr. Thomas WONG

### PART B – DESCRIPTION

Name of Equipment : YSI ProDSS (Multi-Parameters)  
Manufacturer : YSI (a xylem brand)  
Serial Number : 17H105557  
Date of Received : Oct 26, 2018  
Date of Calibration : Oct 26, 2018  
Date of Next Calibration<sup>(a)</sup> : Jan 26, 2019

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

| Parameter            | Reference Method   |
|----------------------|--|
| pH at 25°C           | APHA 21e 4500-H <sup>+</sup> B   |
| Dissolved Oxygen     | APHA 21e 4500-O G  |
| Conductivity at 25°C | APHA 21e 2510 B  |
| Salinity             | APHA 21e 2520 B  |
| Turbidity            | APHA 21e 2130 B  |
| Temperature          | Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure. |

### PART D – CALIBRATION RESULTS<sup>(b,c)</sup>

#### (1) pH at 25°C

| Target (pH unit) | Displayed Reading <sup>(d)</sup> (pH Unit) | Tolerance <sup>(e)</sup> (pH Unit) | Results      |
|------------------|--|------------------------------------|--------------|
| 4.00             | 4.07                                       | 0.07                               | Satisfactory |
| 7.42             | 7.42                                       | 0.00                               | Satisfactory |
| 10.01            | 10.01                                      | 0.00                               | Satisfactory |

Tolerance of pH should be less than ±0.10 (pH unit)

#### (2) Temperature

| Reading of Ref. thermometer (°C) | Displayed Reading (°C) | Tolerance (°C) | Results      |
|----------------------------------|------------------------|----------------|--------------|
| 10.8                             | 10.7                   | -0.1           | Satisfactory |
| 23.5                             | 23.3                   | -0.2           | Satisfactory |
| 45.0                             | 45.7                   | 0.7            | Satisfactory |


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

~ CONTINUED ON NEXT PAGE ~

#### Remark(s): -

- <sup>(a)</sup> The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted from relevant international standards.  
<sup>(b)</sup> The results relate only to the calibrated equipment as received  
<sup>(c)</sup> The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.  
<sup>(d)</sup> "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.  
<sup>(e)</sup> The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by QPT or quoted from relevant international standards.

APPROVED SIGNATORY:

  
LAM Ho-ye, Emma  
Assistant Laboratory Manager



## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH100181  
Date of Issue : 26 October 2018  
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### PART D – CALIBRATION RESULTS (Cont'd)

#### (3) Dissolved Oxygen

| Expected Reading (mg/L) | Displayed Reading (mg/L) | Tolerance (mg/L) | Results      |
|-------------------------|--------------------------|------------------|--------------|
| 0.00                    | 0.00                     | 0.00             | Satisfactory |
| 1.70                    | 1.77                     | 0.07             | Satisfactory |
| 4.79                    | 4.83                     | 0.04             | Satisfactory |
| 7.70                    | 7.81                     | 0.11             | Satisfactory |

Tolerance limit of dissolved oxygen should be less than  $\pm 0.20$  (mg/L)

#### (4) Conductivity at 25°C

| Conc. of KCl (M) | Expected Reading ( $\mu\text{S}/\text{cm}$ ) | Displayed Reading ( $\mu\text{S}/\text{cm}$ ) | Tolerance (%) | Results      |
|------------------|--|---|---------------|--------------|
| 0.001            | 146.9  | 150.0   | 2.1           | Satisfactory |
| 0.01             | 1412   | 1439  | 1.9           | Satisfactory |
| 0.1              | 12890  | 11949   | -7.3          | Satisfactory |
| 0.5              | 58670  | 58670   | 0.0           | Satisfactory |
| 1.0              | 111900                                       | 111563  | -0.3          | Satisfactory |

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

#### (5) Salinity

| Expected Reading (g/L) | Displayed Reading (g/L) | Tolerance (%) | Results      |
|------------------------|-------------------------|---------------|--------------|
| 10                     | 10.13                   | 1.3           | Satisfactory |
| 20                     | 20.16                   | 0.8           | Satisfactory |
| 30                     | 30.26                   | 0.9           | Satisfactory |

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

#### (6) Turbidity

| Expected Reading (NTU) | Displayed Reading <sup>(f)</sup> (NTU) | Tolerance <sup>(g)</sup> (%) | Results      |
|------------------------|--|------------------------------|--------------|
| 0                      | 0.30                                   | --                           | --           |
| 10                     | 9.70                                   | -3.0                         | Satisfactory |
| 20                     | 19.76                                  | -1.2                         | Satisfactory |
| 100                    | 98.33                                  | -1.7                         | Satisfactory |
| 800                    | 804.22                                 | 0.5                          | Satisfactory |

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

~ END OF REPORT ~

Remark(s): -

<sup>(f)</sup> "Displayed Reading" presents the figures shown on item under calibration/ checking regardless of equipment precision or significant figures.

<sup>(g)</sup> The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted from relevant international standards.





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# REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH110107  
Date of Issue : 20 November 2018  
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## PART A – CUSTOMER INFORMATION

Enovative Environmental Service Ltd.  
Flat 2207, Yu Fun House,  
Yu Chui Court, Shatin  
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Attn: Mr. Thomas WONG

## PART B – DESCRIPTION

Name of Equipment : YSI 6920 v2 (Multi-Parameters)  
Manufacturer : YSI (a xylem brand)  
Serial Number : 00019CB2  
Date of Received : Nov 19, 2018  
Date of Calibration : Nov 19, 2018  
Date of Next Calibration<sup>(a)</sup> : Feb 19, 2019

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

| Parameter            | Reference Method   |
|----------------------|--|
| pH at 25°C           | APHA 21e 4500-H <sup>+</sup> B   |
| Dissolved Oxygen     | APHA 21e 4500-O G  |
| Conductivity at 25°C | APHA 21e 2510 B  |
| Salinity             | APHA 21e 2520 B  |
| Turbidity            | APHA 21e 2130 B  |
| Temperature          | Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure. |

## PART D – CALIBRATION RESULTS<sup>(b,c)</sup>

### (1) pH at 25°C

| Target (pH unit) | Displayed Reading <sup>(d)</sup> (pH Unit) | Tolerance <sup>(e)</sup> (pH Unit) | Results      |
|------------------|--|------------------------------------|--------------|
| 4.00             | 4.01                                       | 0.01                               | Satisfactory |
| 7.42             | 7.38                                       | -0.04                              | Satisfactory |
| 10.01            | 10.00                                      | -0.01                              | Satisfactory |

Tolerance of pH should be less than ±0.10 (pH unit)

### (2) Temperature

| Reading of Ref. thermometer (°C) | Displayed Reading (°C) | Tolerance (°C) | Results      |
|----------------------------------|------------------------|----------------|--------------|
| 12                               | 11.98                  | -0.02          | Satisfactory |
| 24                               | 23.97                  | -0.03          | Satisfactory |
| 57                               | 57.62                  | 0.62           | Satisfactory |


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

~ CONTINUED ON NEXT PAGE ~

#### Remark(s): -

- <sup>(a)</sup> The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted from relevant international standards.  
<sup>(b)</sup> The results relate only to the calibrated equipment as received  
<sup>(c)</sup> The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.  
<sup>(d)</sup> "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.  
<sup>(e)</sup> The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by QPT or quoted from relevant international standards.

APPROVED SIGNATORY:

  
LAM Ho-ye, Emma  
Assistant Laboratory Manager



## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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### PART D – CALIBRATION RESULTS (Cont'd)

#### (3) Dissolved Oxygen

| Expected Reading (mg/L) | Displayed Reading (mg/L) | Tolerance (mg/L) | Results      |
|-------------------------|--------------------------|------------------|--------------|
| 0                       | 0.08                     | 0.08             | Satisfactory |
| 3.32                    | 3.30                     | -0.02            | Satisfactory |
| 5.51                    | 5.48                     | -0.03            | Satisfactory |
| 8.14                    | 8.09                     | -0.05            | Satisfactory |

Tolerance limit of dissolved oxygen should be less than  $\pm 0.20$  (mg/L)

#### (4) Conductivity at 25°C

| Conc. of KCl (M) | Expected Reading ( $\mu\text{S/cm}$ ) | Displayed Reading ( $\mu\text{S/cm}$ ) | Tolerance (%) | Results      |
|------------------|---------------------------------------|--|---------------|--------------|
| 0.001            | 146.9                                 | 151                                    | 2.8           | Satisfactory |
| 0.01             | 1412                                  | 1405                                   | -0.5          | Satisfactory |
| 0.1              | 12890                                 | 12917                                  | 0.2           | Satisfactory |
| 0.5              | 58670                                 | 58726                                  | 0.1           | Satisfactory |
| 1.0              | 111900                                | 112876                                 | 0.9           | Satisfactory |

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

#### (5) Salinity

| Expected Reading (g/L) | Displayed Reading (g/L) | Tolerance (%) | Results      |
|------------------------|-------------------------|---------------|--------------|
| 10                     | 9.97                    | -0.3          | Satisfactory |
| 20                     | 20.25                   | 1.3           | Satisfactory |
| 30                     | 30.37                   | 1.2           | Satisfactory |

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

#### (6) Turbidity

| Expected Reading (NTU) | Displayed Reading <sup>(f)</sup> (NTU) | Tolerance <sup>(g)</sup> (%) | Results      |
|------------------------|--|------------------------------|--------------|
| 0                      | 0.1                                    | --                           | --           |
| 10                     | 10.4                                   | 4.0                          | Satisfactory |
| 20                     | 20.9                                   | 4.5                          | Satisfactory |
| 100                    | 100.6                                  | 0.6                          | Satisfactory |
| 800                    | 792.8                                  | -0.9                         | Satisfactory |

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

~ END OF REPORT ~

**Remark(s): -**

<sup>(f)</sup> "Displayed Reading" presents the figures shown on item under calibration/ checking regardless of equipment precision or significant figures.

<sup>(g)</sup> The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted from relevant international standards.