

Appendix 2.1. Calibration Certificates



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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: MR IVAN LEUNG
CLIENT: ALS TECHNICHEM (HK) PTY LTD
ADDRESS: 11/F., CHUNG SHUN KNITTING CENTRE,
1-3 WING YIP STREET,
KWAI CHUNG,
N.T., HONG KONG

WORK ORDER: HK1612311
SUB-BATCH: 0
LABORATORY: HONG KONG
DATE RECEIVED: 31/03/2016
DATE OF ISSUE: 06/04/2016

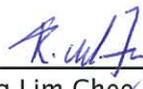
COMMENTS

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 ALS Hong Kong laboratory or quoted from relevant international standards.
The "Next Calibration Date" is recommended according to best practice principals as practised by the ALS Hong Kong laboratory or quoted from relevant international standards.

Scope of Test: Conductivity, Dissolved Oxygen, pH, Salinity, Turbidity and Temperature
Equipment Type: Multifunctional Meter
Brand Name: YSI
Model No.: 6920
Serial No.: 000109DF
Equipment No.: --
Date of Calibration: 31 March, 2016

NOTES

This is the Final Report and supersedes any preliminary report with this batch number.
Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.


Mr. Fung Lim Chee, Richard
General Manager
Greater China & Hong Kong

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Page 1 of 3

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Work Order: HK1612311
Sub-Batch: 0
Client: ALS TECHNICHEM (HK) PTY LTD
Date of Issue: 06/04/2016



Equipment Type: Multifunctional Meter
Brand Name: YSI
Model No.: 6920
Serial No.: 000109DF
Equipment No.: --
Date of Calibration: 31 March, 2016 **Date of next Calibration:** 30 June, 2016

Parameters:

Conductivity

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

Expected Reading (uS/cm)	Displayed Reading (uS/cm)	Tolerance (%)
146.9	141.9	-3.4
6667	6704	+0.6
12890	12956	+0.5
58670	58196	-0.8
Tolerance Limit (%)		±10.0

Dissolved Oxygen

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
1.50	1.44	-0.06
5.02	4.96	-0.06
9.04	9.00	-0.04
Tolerance Limit (mg/L)		±0.20

pH Value

Method Ref: APHA 21st Ed. 4500H:B

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.0	4.05	+0.05
7.0	7.02	+0.02
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.

Mr. Fung Lim Chee, Richard
 General Manager
 Greater China & Hong Kong

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



Work Order: HK1612311
Sub-Batch: 0
Client: ALS TECHNICHEM (HK) PTY LTD
Date of Issue: 06/04/2016

Equipment Type: Multifunctional Meter
Brand Name: YSI
Model No.: 6920
Serial No.: 000109DF
Equipment No.: --

Date of Calibration: 31 March, 2016 **Date of next Calibration:** 30 June, 2016

Parameters:

Salinity

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
10	9.94	-0.6
20	19.78	-1.1
30	29.81	-0.6
Tolerance Limit (%)		±10.0

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	13.1	+0.1
21	20.9	-0.1
31	30.6	-0.4
Tolerance Limit (°C)		±2.0

Turbidity

Method Ref: APHA 21st Ed. 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
4	3.9	-2.5
40	39.4	-1.5
80	78.1	-2.4
400	386.5	-3.4
800	788.2	-1.5
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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REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

CONTACT: MR THOMAS WONG
CLIENT: ENOVATIVE ENVIRONMENTAL SERVICE LTD
ADDRESS: RM811, HIN PUI HOUSE,
HIN KENG ESTATE,
TAI WAI,
N.T., HONG KONG

WORK ORDER: HK1628802
SUB-BATCH: 0
LABORATORY: HONG KONG
DATE RECEIVED: 16/07/2016
DATE OF ISSUE: 25/07/2016

COMMENTS

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 ALS Hong Kong laboratory or quoted from relevant international standards.

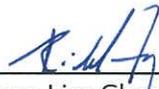
The "Next Calibration Date" is recommended according to best practice principals as practised by the ALS Hong Kong laboratory or quoted from relevant international standards.

Scope of Test: Conductivity, Dissolved Oxygen, pH, Salinity, Temperature and Turbidity
Equipment Type: Multifunctional Meter
Brand Name: YSI
Model No.: 6920V2
Serial No.: 000109DF
Equipment No.: --
Date of Calibration: 16 July, 2016

NOTES

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Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.


Mr. Fung Lim Chee, Richard
General Manager -
Greater China & Hong Kong

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Work Order: HK1628802
Sub-Batch: 0
Date of Issue: 25/07/2016
Client: ENOVATIVE ENVIRONMENTAL SERVICE LTD



Description: Multifunctional Meter
Brand Name: YSI
Model No.: 6920V2
Serial No.: 000109DF
Equipment No.: --
Date of Calibration: 16 July, 2016

Date of next Calibration: 16 October, 2016

Parameters:

Conductivity

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

Expected Reading (uS/cm)	Displayed Reading (uS/cm)	Tolerance (%)
146.9	146	-0.6
6667	6022	-9.7
12890	12910	+0.2
58670	56608	-3.5
Tolerance Limit (%)		±10.0

Dissolved Oxygen

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.30	2.43	+0.13
5.18	5.30	+0.12
7.41	7.52	+0.11
Tolerance Limit (mg/L)		±0.20

pH Value

Method Ref: APHA 21st Ed. 4500H:B

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.0	4.03	+0.03
7.0	7.09	+0.09
10.0	9.93	-0.07
Tolerance Limit (pH unit)		±0.20

Salinity

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.00	--
10	10.01	+0.1
20	19.65	-1.8
30	28.38	-5.4
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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REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Work Order: HK1628802
Sub-Batch: 0
Date of Issue: 25/07/2016
Client: ENOVATIVE ENVIRONMENTAL SERVICE LTD



Description: Multifunctional Meter
Brand Name: YSI
Model No.: 6920V2
Serial No.: 000109DF
Equipment No.: --
Date of Calibration: 16 July, 2016

Date of next Calibration: 16 October, 2016

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)
15.0	14.0	-1.0
25.5	24.5	-1.0
39.0	38.3	-0.7
	Tolerance Limit (°C)	±2.0

Turbidity

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

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.4	--
4	4.2	+5.0
40	41.6	+4.0
80	82.2	+2.8
400	411	+2.8
800	824	+3.0
	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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REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

CONTACT: MR THOMAS WONG
CLIENT: ENOVATIVE ENVIRONMENTAL SERVICE LTD
ADDRESS: RM811, HIN PUI HOUSE,
HIN KENG ESTATE,
TAI WAI,
N.T., HONG KONG

WORK ORDER: HK1612309
SUB-BATCH: 0
LABORATORY: HONG KONG
DATE RECEIVED: 31/03/2016
DATE OF ISSUE: 06/04/2016

COMMENTS

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 ALS Hong Kong laboratory or quoted from relevant international standards.

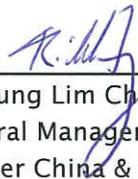
The "Next Calibration Date" is recommended according to best practice principals as practised by the ALS Hong Kong laboratory or quoted from relevant international standards.

Scope of Test: Conductivity, Dissolved Oxygen, pH, Salinity, Temperature and Turbidity
Equipment Type: Multifunctional Meter
Brand Name: YSI
Model No.: 6920 V2
Serial No.: 00019CB2
Equipment No.: --
Date of Calibration: 31 March, 2016

NOTES

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

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.


Mr. Fung Lim Chee, Richard
General Manager -
Greater China & Hong Kong

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1612309
Sub-Batch: 0
Date of Issue: 06/04/2016
Client: ENOVATIVE ENVIRONMENTAL SERVICE LTD



Description: Multifunctional Meter
Brand Name: YSI
Model No.: 6920 V2
Serial No.: 00019CB2
Equipment No.: --
Date of Calibration: 31 March, 2016

Date of next Calibration: 30 June, 2016

Parameters:

Conductivity

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

Expected Reading (uS/cm)	Displayed Reading (uS/cm)	Tolerance (%)
146.9	149.2	+1.6
6667	6689	+0.3
12890	12920	+0.2
58670	58062	-1.0
Tolerance Limit (%)		±10.0

Dissolved Oxygen

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
1.50	1.54	+0.04
5.02	5.09	+0.07
9.04	8.96	-0.08
Tolerance Limit (mg/L)		±0.20

pH Value

Method Ref: APHA 21st Ed. 4500H:B

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.0	4.06	+0.06
7.0	7.06	+0.06
10.0	9.94	-0.06
Tolerance Limit (pH unit)		±0.20

Salinity

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
10	9.92	-0.8
20	19.82	-0.9
30	29.88	-0.4
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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 Greater China & Hong Kong

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1612309
Sub-Batch: 0
Date of Issue: 06/04/2016
Client: ENOVATIVE ENVIRONMENTAL SERVICE LTD



Description: Multifunctional Meter
Brand Name: YSI
Model No.: 6920 V2
Serial No.: 00019CB2
Equipment No.: --
Date of Calibration: 31 March, 2016

Date of next Calibration: 30 June, 2016

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	13.2	+0.2
21	21.1	+0.1
31	30.6	-0.4
	Tolerance Limit (°C)	±2.0

Turbidity

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

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
4	4.2	+5.0
40	40.5	+1.3
80	78.9	-1.4
400	384.1	-4.0
800	786.7	-1.7
	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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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: MR THOMAS WONG
CLIENT: ENOVATIVE ENVIRONMENTAL SERVICE LTD
ADDRESS: RM811, HIN PUI HOUSE,
HIN KENG ESTATE,
TAI WAI,
N.T., HONG KONG

WORK ORDER: HK1628798
SUB-BATCH: 0
LABORATORY: HONG KONG
DATE RECEIVED: 16/07/2016
DATE OF ISSUE: 25/07/2016

COMMENTS

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 ALS Hong Kong laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principals as practised by the ALS Hong Kong laboratory or quoted from relevant international standards.

Scope of Test: Conductivity, Dissolved Oxygen, pH, Salinity, Temperature and Turbidity
Equipment Type: Multifunctional Meter
Brand Name: YSI
Model No.: 6920V2
Serial No.: 00019CB2
Equipment No.: --
Date of Calibration: 16 July, 2016

NOTES

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Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.


Mr. Fung Lim Chee, Richard
General Manager -
Greater China & Hong Kong

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Page 1 of 3

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Work Order: HK1628798
Sub-Batch: 0
Date of Issue: 25/07/2016
Client: ENOVATIVE ENVIRONMENTAL SERVICE LTD



Description: Multifunctional Meter
Brand Name: YSI
Model No.: 6920V2
Serial No.: 00019CB2
Equipment No.: --
Date of Calibration: 16 July, 2016 **Date of next Calibration:** 16 October, 2016

Parameters:

Conductivity

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

Expected Reading (uS/cm)	Displayed Reading (uS/cm)	Tolerance (%)
146.9	147	+0.1
6667	6548	-1.8
12890	13168	+2.2
58670	57511	-2.0
Tolerance Limit (%)		±10.0

Dissolved Oxygen

Method Ref: APHA (21st edition), 45000: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.30	2.44	+0.14
5.18	5.26	+0.08
7.41	7.51	+0.10
Tolerance Limit (mg/L)		±0.20

pH Value

Method Ref: APHA 21st Ed. 4500H:B

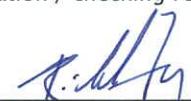
Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.0	4.05	+0.05
7.0	7.03	+0.03
10.0	10.06	+0.06
Tolerance Limit (pH unit)		±0.20

Salinity

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.01	--
10	9.92	-0.8
20	19.31	-3.5
30	27.95	-6.8
Tolerance Limit (%)		±10.0

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



 Mr. Fung Lim Chee, Richard
 General Manager -
 Greater China & Hong Kong

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Work Order: HK1628798
Sub-Batch: 0
Date of Issue: 25/07/2016
Client: ENOVATIVE ENVIRONMENTAL SERVICE LTD



Description: Multifunctional Meter
Brand Name: YSI
Model No.: 6920V2
Serial No.: 00019CB2
Equipment No.: --

Date of Calibration: 16 July, 2016 **Date of next Calibration:** 16 October, 2016

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	13.9	+0.4
26.5	26.7	+0.2
37.0	37.3	+0.3
	Tolerance Limit (°C)	±2.0

Turbidity

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

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.4	--
4	4.2	+5.0
40	40.7	+1.8
80	81.6	+2.0
400	397	-0.8
800	807	+0.9
	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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CLIENT: ENOVATIVE ENVIRONMENTAL SERVICE LTD
ADDRESS: RM811, HIN PUI HOUSE,
HIN KENG ESTATE,
TAI WAI,
N.T., HONG KONG

WORK ORDER: HK1612385
SUB-BATCH: 0
LABORATORY: HONG KONG
DATE RECEIVED: 30/03/2016
DATE OF ISSUE: 12/04/2016

COMMENTS

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 ALS Hong Kong laboratory or quoted from relevant international standards.

Scope of Test: Volume
Description: Digital Burette
Brand Name: Titrette
Model No.: Digital Burette 50ml Class A
Serial No.: 10N64701
Equipment No.: --
Date of Calibration: 01 April, 2016

NOTES

This is the Final Report and supersedes any preliminary report with this batch number.
Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.


Mr. Fung Lim Chee, Richard
General Manager
Greater China & Hong Kong

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Page 1 of 2

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1612385
Sub-Batch: 0
Date of Issue: 12/04/2016
Client: ENOVATIVE ENVIRONMENTAL SERVICE LTD



Description: Digital Burette
Brand Name: Titrette
Model No.: Digital Burette 50ml Class A
Serial No.: 10N64701
Equipment No.: --
Date of Calibration: 01 April, 2016

Parameters:

Volume **Method Reference: In House Method – Titrette and Digital Burette**
Testing Instruction (SOP) May 2014

Trial	Nominal vol (ml)				
	5	10	25	35	50
Weight (g)					
1	4.9703	9.9659	24.9114	34.8627	49.8305
2	4.9889	9.9596	24.9083	34.8780	49.8208
3	4.9726	9.9660	24.9039	34.8787	49.8232
4	4.9859	9.9623	24.9120	34.8706	49.8300
5	4.9820	9.9663	24.9064	34.8746	49.8278
6	4.9818	9.9570	24.9176	34.8787	49.8210
7	4.9806	9.9573	24.9094	34.8718	49.8197
8	4.9795	9.9608	24.9157	34.8728	49.8230
9	4.9829	9.9654	24.9229	34.8763	49.8281
10	4.9869	9.9634	24.9124	34.8743	49.8233
Average	4.9811	9.9624	24.9120	34.8739	49.8247
Standard deviation	0.0059	0.0036	0.0056	0.0048	0.0040
Calculate volume (mL)	4.9980	9.9963	24.9967	34.9925	49.9941
Error (%)	-0.04%	-0.04%	-0.01%	-0.02%	-0.01%
RSD (%)	0.12%	0.04%	0.02%	0.01%	0.01%

Acceptance Criteria:

Accuracy (% Error)	< ± 1%	< ± 1%	< ± 0.5%	< ± 0.5%	< ± 0.5%
Precision (%RSD)	<1%	<1%	<1%	<1%	<1%


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CLIENT: ENOVATIVE ENVIRONMENTAL SERVICE LTD
ADDRESS: RM811, HIN PUI HOUSE,
HIN KENG ESTATE,
TAI WAI,
N.T., HONG KONG

WORK ORDER: HK1628456
SUB-BATCH: 0
LABORATORY: HONG KONG
DATE RECEIVED: 14/07/2016
DATE OF ISSUE: 18/07/2016

COMMENTS

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 ALS Hong Kong laboratory or quoted from relevant international standards.

Scope of Test: Volume
Description: Digital Burette
Brand Name: Titrette
Model No.: Digital Burette 50ml Class A
Serial No.: 10N64701
Equipment No.: --
Date of Calibration: 15 July, 2016

NOTES

This is the Final Report and supersedes any preliminary report with this batch number.
Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

PP 
Mr. Fung Lim Chee, Richard
General Manager -
Greater China & Hong Kong

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Work Order: HK1628456
Sub-Batch: 0
Date of Issue: 18/07/2016
Client: ENOVATIVE ENVIRONMENTAL SERVICE LTD



Description: Digital Burette
Brand Name: Titrette
Model No.: Digital Burette 50ml Class A
Serial No.: 10N64701
Equipment No.: --
Date of Calibration: 15 July, 2016

Parameters:

Volume **Method Reference: In House Method - Titrette and Digital Burette**
Testing Instruction (SOP) May 2014

Trial	Nominal vol (ml) (at interval)				
	3 (1-4)	3 (16-19)	3 (23-26)	3 (34-37)	3 (42-45)
	Weight (g)				
1	2.9903	2.9954	2.9877	2.9800	2.9874
2	2.9888	2.9865	2.9899	2.9852	2.9855
3	2.9787	2.9873	2.9853	2.9844	2.9853
4	2.9929	2.9873	2.9895	2.9893	2.9881
5	2.9763	2.9872	2.9884	2.9824	2.9813
6	2.9929	2.9870	2.9857	2.9761	2.9812
7	2.9900	2.9887	2.9856	2.9854	2.9867
8	2.9894	2.9889	2.9880	2.9824	2.9899
9	2.9876	2.9893	2.9835	2.9882	2.9936
10	2.9899	2.9880	2.9918	2.9787	2.9789
Average	2.9877	2.9886	2.9875	2.9832	2.9858
Standard deviation	0.0056	0.0026	0.0025	0.0041	0.0044
Calculate volume (mL)	2.9975	2.9984	2.9974	2.9931	2.9956
Error (%)	-0.08%	-0.05%	-0.09%	-0.23%	-0.15%
RSD (%)	0.19%	0.09%	0.08%	0.14%	0.15%

Acceptance Criteria:

Accuracy (% Error)	< ± 1%	< ± 1%	< ± 1%	< ± 1%	< ± 1%
Precision (%RSD)	<1%	<1%	<1%	<1%	<1%

PP 
 Mr. Fung Lim Chee, Richard
 General Manager -
 Greater China & Hong Kong



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REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

CONTACT: MR THOMAS WONG
CLIENT: ENOVATIVE ENVIRONMENTAL SERVICE LTD
ADDRESS: RM811, HIN PUI HOUSE,
HIN KENG ESTATE,
TAI WAI,
N.T., HONG KONG

WORK ORDER: HK1612384
SUB-BATCH: 0
LABORATORY: HONG KONG
DATE RECEIVED: 30/03/2016
DATE OF ISSUE: 12/04/2016

COMMENTS

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 ALS Hong Kong laboratory or quoted from relevant international standards.

Scope of Test: Volume
Description: Digital Burette
Brand Name: Titrette
Model No.: Digital Burette 50ml Class A
Serial No.: 10N60623
Equipment No.: --
Date of Calibration: 01 April, 2016

NOTES

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

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.


Mr. Fung Lim Chee Richard
General Manager -
Greater China & Hong Kong

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1612384
Sub-Batch: 0
Date of Issue: 12/04/2016
Client: ENOVATIVE ENVIRONMENTAL SERVICE LTD



Description: Digital Burette
Brand Name: Titrette
Model No.: Digital Burette 50ml Class A
Serial No.: 10N60623
Equipment No.: --
Date of Calibration: 01 April, 2016

Parameters:

Volume **Method Reference: In House Method – Titrette and Digital Burette**
Testing Instuction (SOP) May 2014

Trial	Nominal vol (ml)				
	5	10	25	35	50
	Weight (g)				
1	4.9721	9.9553	24.9020	34.8598	49.8184
2	4.9668	9.9518	24.9013	34.8754	49.8262
3	4.9697	9.9544	24.9056	34.8677	49.8176
4	4.9719	9.9590	24.8995	34.8698	49.8224
5	4.9689	9.9626	24.9018	34.8675	49.8302
6	4.9640	9.9495	24.9042	34.8728	49.8287
7	4.9675	9.9625	24.9119	34.8670	49.8216
8	4.9670	9.9510	24.9116	34.8659	49.8222
9	4.9746	9.9539	24.9102	34.8765	49.8284
10	4.9733	9.9535	24.9041	34.8701	49.8252
Average	4.9696	9.9554	24.9052	34.8693	49.8241
Standard deviation	0.0034	0.0046	0.0045	0.0049	0.0043
Calculate volume (mL)	4.9865	9.9892	24.9899	34.9879	49.9935
Error (%)	-0.27%	-0.11%	-0.04%	-0.03%	-0.01%
RSD (%)	0.07%	0.05%	0.02%	0.01%	0.01%

Acceptance Criteria:

Accuracy (% Error)	< ± 1%	< ± 1%	< ± 0.5%	< ± 0.5%	< ± 0.5%
Precision (%RSD)	<1%	<1%	<1%	<1%	<1%


 Mr. Fung Lim Chee, Richard
 General Manager -
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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: MR THOMAS WONG
CLIENT: ENOVATIVE ENVIRONMENTAL SERVICE LTD
ADDRESS: RM811, HIN PUI HOUSE,
HIN KENG ESTATE,
TAI WAI,
N.T., HONG KONG

WORK ORDER: HK1628461
SUB-BATCH: 0
LABORATORY: HONG KONG
DATE RECEIVED: 14/07/2016
DATE OF ISSUE: 18/07/2016

COMMENTS

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 ALS Hong Kong laboratory or quoted from relevant international standards.

Scope of Test: Volume
Description: Digital Burette
Brand Name: Titrette
Model No.: Digital Burette 50ml Class A
Serial No.: 10N60623
Equipment No.: --
Date of Calibration: 15 July, 2016

NOTES

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

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

PP 
Mr. Fung Lim Chee, Richard
General Manager -
Greater China & Hong Kong

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Work Order: HK1628461
Sub-Batch: 0
Date of Issue: 18/07/2016
Client: ENOVATIVE ENVIRONMENTAL SERVICE LTD



Description: Digital Burette
Brand Name: Titrette
Model No.: Digital Burette 50ml Class A
Serial No.: 10N60623
Equipment No.: --
Date of Calibration: 15 July, 2016

Parameters:

Volume **Method Reference: In House Method - Titrette and Digital Burette**
Testing Instruction (SOP) May 2014

Trial	Nominal vol (ml) (at interval)				
	3 (4-7)	3 (12-15)	3 (25-28)	3 (32-35)	3 (46-49)
	Weight (g)				
1	2.9862	2.9787	2.9784	2.9805	2.9807
2	2.9795	2.9827	2.9814	2.9823	2.9741
3	2.9832	2.9844	2.9778	2.9864	2.9832
4	2.9865	2.9859	2.9831	2.9855	2.9865
5	2.9837	2.9980	2.9795	2.9859	2.9845
6	2.9833	2.9872	2.9819	2.9897	2.9773
7	2.9826	2.9840	2.9859	2.9893	2.9826
8	2.9826	2.9868	2.9761	2.9869	2.9809
9	2.9842	2.9909	2.9817	2.9900	2.9867
10	2.9839	2.9884	2.9875	2.9900	2.9866
Average	2.9836	2.9867	2.9813	2.9867	2.9823
Standard deviation	0.0020	0.0052	0.0036	0.0033	0.0042
Calculate volume (mL)	2.9934	2.9966	2.9912	2.9965	2.9922
Error (%)	-0.22%	-0.11%	-0.29%	-0.12%	-0.26%
RSD (%)	0.07%	0.17%	0.12%	0.11%	0.14%

Acceptance Criteria:

Accuracy (% Error)	< ± 1%	< ± 1%	< ± 1%	< ± 1%	< ± 1%
Precision (%RSD)	<1%	<1%	<1%	<1%	<1%


 PP _____
 Mr. Fung Lim Chee, Richard
 General Manager -
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REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

CONTACT: MR THOMAS WONG
CLIENT: ENOVATIVE ENVIRONMENTAL SERVICE LTD
ADDRESS: RM811, HIN PUI HOUSE,
HIN KENG ESTATE,
TAI WAI,
N.T., HONG KONG

WORK ORDER: HK1628802
SUB-BATCH: 0
LABORATORY: HONG KONG
DATE RECEIVED: 16/07/2016
DATE OF ISSUE: 25/07/2016

COMMENTS

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 ALS Hong Kong laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principals as practised by the ALS Hong Kong laboratory or quoted from relevant international standards.

Scope of Test: Conductivity, Dissolved Oxygen, pH, Salinity, Temperature and Turbidity
Equipment Type: Multifunctional Meter
Brand Name: YSI
Model No.: 6920V2
Serial No.: 000109DF
Equipment No.: --
Date of Calibration: 16 July, 2016

NOTES

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

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.


Mr. Fung Lim Chee, Richard
General Manager -
Greater China & Hong Kong

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Work Order: HK1628802
Sub-Batch: 0
Date of Issue: 25/07/2016
Client: ENOVATIVE ENVIRONMENTAL SERVICE LTD



Description: Multifunctional Meter
Brand Name: YSI
Model No.: 6920V2
Serial No.: 000109DF
Equipment No.: --
Date of Calibration: 16 July, 2016

Date of next Calibration: 16 October, 2016

Parameters:

Conductivity

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

Expected Reading (uS/cm)	Displayed Reading (uS/cm)	Tolerance (%)
146.9	146	-0.6
6667	6022	-9.7
12890	12910	+0.2
58670	56608	-3.5
Tolerance Limit (%)		±10.0

Dissolved Oxygen

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.30	2.43	+0.13
5.18	5.30	+0.12
7.41	7.52	+0.11
Tolerance Limit (mg/L)		±0.20

pH Value

Method Ref: APHA 21st Ed. 4500H:B

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.0	4.03	+0.03
7.0	7.09	+0.09
10.0	9.93	-0.07
Tolerance Limit (pH unit)		±0.20

Salinity

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.00	--
10	10.01	+0.1
20	19.65	-1.8
30	28.38	-5.4
Tolerance Limit (%)		±10.0

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



 Mr. Fung Lim Chee, Richard
 General Manager -
 Greater China & Hong Kong

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Work Order: HK1628802
Sub-Batch: 0
Date of Issue: 25/07/2016
Client: ENOVATIVE ENVIRONMENTAL SERVICE LTD



Description: Multifunctional Meter
Brand Name: YSI
Model No.: 6920V2
Serial No.: 000109DF
Equipment No.: --
Date of Calibration: 16 July, 2016

Date of next Calibration: 16 October, 2016

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)
15.0	14.0	-1.0
25.5	24.5	-1.0
39.0	38.3	-0.7
	Tolerance Limit (°C)	±2.0

Turbidity

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

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.4	--
4	4.2	+5.0
40	41.6	+4.0
80	82.2	+2.8
400	411	+2.8
800	824	+3.0
	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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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: MR THOMAS WONG
CLIENT: ENOVATIVE ENVIRONMENTAL SERVICE LTD
ADDRESS: RM811, HIN PUI HOUSE,
HIN KENG ESTATE,
TAI WAI,
N.T., HONG KONG

WORK ORDER: HK1628798
SUB-BATCH: 0
LABORATORY: HONG KONG
DATE RECEIVED: 16/07/2016
DATE OF ISSUE: 25/07/2016

COMMENTS

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 ALS Hong Kong laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principals as practised by the ALS Hong Kong laboratory or quoted from relevant international standards.

Scope of Test: Conductivity, Dissolved Oxygen, pH, Salinity, Temperature and Turbidity
Equipment Type: Multifunctional Meter
Brand Name: YSI
Model No.: 6920V2
Serial No.: 00019CB2
Equipment No.: --
Date of Calibration: 16 July, 2016

NOTES

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

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.


Mr. Fung Lim Chee, Richard
General Manager -
Greater China & Hong Kong

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Work Order: HK1628798
Sub-Batch: 0
Date of Issue: 25/07/2016
Client: ENOVATIVE ENVIRONMENTAL SERVICE LTD



Description: Multifunctional Meter
Brand Name: YSI
Model No.: 6920V2
Serial No.: 00019CB2
Equipment No.: --
Date of Calibration: 16 July, 2016 **Date of next Calibration:** 16 October, 2016

Parameters:

Conductivity

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

Expected Reading (uS/cm)	Displayed Reading (uS/cm)	Tolerance (%)
146.9	147	+0.1
6667	6548	-1.8
12890	13168	+2.2
58670	57511	-2.0
Tolerance Limit (%)		±10.0

Dissolved Oxygen

Method Ref: APHA (21st edition), 45000: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.30	2.44	+0.14
5.18	5.26	+0.08
7.41	7.51	+0.10
Tolerance Limit (mg/L)		±0.20

pH Value

Method Ref: APHA 21st Ed. 4500H:B

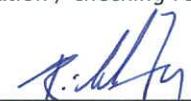
Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.0	4.05	+0.05
7.0	7.03	+0.03
10.0	10.06	+0.06
Tolerance Limit (pH unit)		±0.20

Salinity

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.01	--
10	9.92	-0.8
20	19.31	-3.5
30	27.95	-6.8
Tolerance Limit (%)		±10.0

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



 Mr. Fung Lim Chee, Richard
 General Manager -
 Greater China & Hong Kong

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Work Order: HK1628798
Sub-Batch: 0
Date of Issue: 25/07/2016
Client: ENOVATIVE ENVIRONMENTAL SERVICE LTD



Description: Multifunctional Meter
Brand Name: YSI
Model No.: 6920V2
Serial No.: 00019CB2
Equipment No.: --

Date of Calibration: 16 July, 2016 **Date of next Calibration:** 16 October, 2016

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	13.9	+0.4
26.5	26.7	+0.2
37.0	37.3	+0.3
	Tolerance Limit (°C)	±2.0

Turbidity

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

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.4	--
4	4.2	+5.0
40	40.7	+1.8
80	81.6	+2.0
400	397	-0.8
800	807	+0.9
	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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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: MR THOMAS WONG
CLIENT: ENOVATIVE ENVIRONMENTAL SERVICE LTD
ADDRESS: RM811, HIN PUI HOUSE,
HIN KENG ESTATE,
TAI WAI,
N.T., HONG KONG

WORK ORDER: HK1628456
SUB-BATCH: 0
LABORATORY: HONG KONG
DATE RECEIVED: 14/07/2016
DATE OF ISSUE: 18/07/2016

COMMENTS

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 ALS Hong Kong laboratory or quoted from relevant international standards.

Scope of Test: Volume
Description: Digital Burette
Brand Name: Titrette
Model No.: Digital Burette 50ml Class A
Serial No.: 10N64701
Equipment No.: --
Date of Calibration: 15 July, 2016

NOTES

This is the Final Report and supersedes any preliminary report with this batch number.
Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

PP 
Mr. Fung Lim Chee, Richard
General Manager -
Greater China & Hong Kong

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Work Order: HK1628456
Sub-Batch: 0
Date of Issue: 18/07/2016
Client: ENOVATIVE ENVIRONMENTAL SERVICE LTD



Description: Digital Burette
Brand Name: Titrette
Model No.: Digital Burette 50ml Class A
Serial No.: 10N64701
Equipment No.: --
Date of Calibration: 15 July, 2016

Parameters:

Volume **Method Reference: In House Method - Titrette and Digital Burette**
Testing Instruction (SOP) May 2014

Trial	Nominal vol (ml) (at interval)				
	3 (1-4)	3 (16-19)	3 (23-26)	3 (34-37)	3 (42-45)
	Weight (g)				
1	2.9903	2.9954	2.9877	2.9800	2.9874
2	2.9888	2.9865	2.9899	2.9852	2.9855
3	2.9787	2.9873	2.9853	2.9844	2.9853
4	2.9929	2.9873	2.9895	2.9893	2.9881
5	2.9763	2.9872	2.9884	2.9824	2.9813
6	2.9929	2.9870	2.9857	2.9761	2.9812
7	2.9900	2.9887	2.9856	2.9854	2.9867
8	2.9894	2.9889	2.9880	2.9824	2.9899
9	2.9876	2.9893	2.9835	2.9882	2.9936
10	2.9899	2.9880	2.9918	2.9787	2.9789
Average	2.9877	2.9886	2.9875	2.9832	2.9858
Standard deviation	0.0056	0.0026	0.0025	0.0041	0.0044
Calculate volume (mL)	2.9975	2.9984	2.9974	2.9931	2.9956
Error (%)	-0.08%	-0.05%	-0.09%	-0.23%	-0.15%
RSD (%)	0.19%	0.09%	0.08%	0.14%	0.15%

Acceptance Criteria:

Accuracy (% Error)	< ± 1%	< ± 1%	< ± 1%	< ± 1%	< ± 1%
Precision (%RSD)	<1%	<1%	<1%	<1%	<1%

PP 
 Mr. Fung Lim Chee, Richard
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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: MR THOMAS WONG
CLIENT: ENOVATIVE ENVIRONMENTAL SERVICE LTD
ADDRESS: RM811, HIN PUI HOUSE,
HIN KENG ESTATE,
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WORK ORDER: HK1628461
SUB-BATCH: 0
LABORATORY: HONG KONG
DATE RECEIVED: 14/07/2016
DATE OF ISSUE: 18/07/2016

COMMENTS

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 ALS Hong Kong laboratory or quoted from relevant international standards.

Scope of Test: Volume
Description: Digital Burette
Brand Name: Titrette
Model No.: Digital Burette 50ml Class A
Serial No.: 10N60623
Equipment No.: --
Date of Calibration: 15 July, 2016

NOTES

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

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

PP 
Mr. Fung Lim Chee, Richard
General Manager -
Greater China & Hong Kong

REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Work Order: HK1628461
Sub-Batch: 0
Date of Issue: 18/07/2016
Client: ENOVATIVE ENVIRONMENTAL SERVICE LTD



Description: Digital Burette
Brand Name: Titrette
Model No.: Digital Burette 50ml Class A
Serial No.: 10N60623
Equipment No.: --
Date of Calibration: 15 July, 2016

Parameters:

Volume **Method Reference: In House Method - Titrette and Digital Burette**
Testing Instruction (SOP) May 2014

Trial	Nominal vol (ml) (at interval)				
	3 (4-7)	3 (12-15)	3 (25-28)	3 (32-35)	3 (46-49)
	Weight (g)				
1	2.9862	2.9787	2.9784	2.9805	2.9807
2	2.9795	2.9827	2.9814	2.9823	2.9741
3	2.9832	2.9844	2.9778	2.9864	2.9832
4	2.9865	2.9859	2.9831	2.9855	2.9865
5	2.9837	2.9980	2.9795	2.9859	2.9845
6	2.9833	2.9872	2.9819	2.9897	2.9773
7	2.9826	2.9840	2.9859	2.9893	2.9826
8	2.9826	2.9868	2.9761	2.9869	2.9809
9	2.9842	2.9909	2.9817	2.9900	2.9867
10	2.9839	2.9884	2.9875	2.9900	2.9866
Average	2.9836	2.9867	2.9813	2.9867	2.9823
Standard deviation	0.0020	0.0052	0.0036	0.0033	0.0042
Calculate volume (mL)	2.9934	2.9966	2.9912	2.9965	2.9922
Error (%)	-0.22%	-0.11%	-0.29%	-0.12%	-0.26%
RSD (%)	0.07%	0.17%	0.12%	0.11%	0.14%

Acceptance Criteria:

Accuracy (% Error)	< ± 1%	< ± 1%	< ± 1%	< ± 1%	< ± 1%
Precision (%RSD)	<1%	<1%	<1%	<1%	<1%


 PP _____
 Mr. Fung Lim Chee, Richard
 General Manager -
 Greater China & Hong Kong