

Appendix E
Calibration Record
(Air Quality Monitoring)



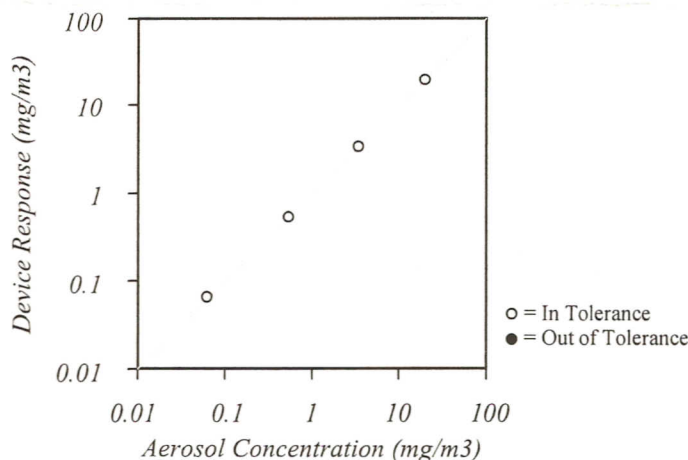
CERTIFICATE OF CALIBRATION AND TESTING

TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA
Tel: 1-800-874-2811 1-651-490-2811 Fax: 1-651-490-3824 http://www.tsi.com

Environment Condition			Model	8520
Temperature	74.7 (23.7)	°F (°C)		
Relative Humidity	35	%RH	Serial Number	22378
Barometric Pressure	28.87 (977.7)	inHg (hPa)		

- | | |
|---|--|
| <input checked="" type="checkbox"/> As Left | <input checked="" type="checkbox"/> In Tolerance |
| <input type="checkbox"/> As Found | <input type="checkbox"/> Out of Tolerance |

Concentration Linearity Plot



System ID: DTII01-02

Zero Stability Results

Average:	Minimum:	Maximum:	Time:
0.000 :mg/m ³	0.000 :mg/m ³	0.001 :mg/m ³	4.00 :hrs.

TSI Incorporated does hereby certify that all materials, components, and workmanship used in the manufacture of this equipment are in strict accordance with the applicable specifications agreed upon by TSI and the customer and with all published specifications. All performance and acceptance tests required under this contract were successfully conducted according to required specifications. There is no NIST standard for optical mass measurements. Calibration of this instrument performed by TSI has been done using emery oil and has been nominally adjusted to respirable mass of standard ISO 12103-1, A1 test dust (Arizona dust). Our calibration ratio is greater than 1.2:1

Measurement Variable	System ID	Last Cal.	Cal. Due	Measurement Variable	System ID	Last Cal.	Cal. Due
Barometric Pressure	E001329	04-23-09	04-23-10	Temperature	E002873	02-24-09	02-24-10
Humidity	E002873	02-24-09	02-24-10	DC Voltage	E003314	01-06-09	01-06-10
DC Voltage	E003315	01-06-09	01-06-10	Photometer	E003319	07-02-09	01-02-10
Microbalance	E003403	06-25-09	06-25-10	Flow and Temperature	E003512	02-16-09	02-16-10
Pressure	E003511	11-12-09	11-12-10				

Calibrated

Final Function Check

November 24, 2009

Date

High-Volume TSP Sampler
5-Point Calibration Record

Location : ASR2A
Calibrated by : P.F.Yeung
Date : 12/05/2010

Sampler

Model : GMWS-2310 ACCU-VOL
Serial Number : S/N 1061

Calibration Orifice and Standard Calibration Relationship

Serial Number : 1785
Service Date : 10 May 2010
Slope (m) : 2.01637
Intercept (b) : -0.02316
Correlation Coefficient(r) : 0.99996

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1012
Ta(K) : 297

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1 18 holes	10.4	3.228	1.633	50	50.0
2 13 holes	8.2	2.866	1.450	44	44.0
3 10 holes	6.2	2.492	1.261	37	37.0
4 7 holes	4.0	2.002	1.013	29	29.0
5 5 holes	2.5	1.583	0.801	22	22.0

Sampler Calibration Relationship

Slope(m): 33.788 Intercept(b): -5.179 Correlation Coefficient(r): 0.9998

Checked by: Magnum Fan

Date: 15/05/2010

High-Volume TSP Sampler
5-Point Calibration Record

Location : ASR4
Calibrated by : P.F.Yeung
Date : 12/05/2010

Sampler

Model : GMWS-2310 ACCU-VOL
Serial Number : S/N 1273

Calibration Orifice and Standard Calibration Relationship

Serial Number : 1785
Service Date : 10 May 2010
Slope (m) : 2.01637
Intercept (b) : -0.02316
Correlation Coefficient(r) : 0.99996

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1012
Ta(K) : 297

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1 18 holes	7.6	2.760	1.396	50	50.1
2 13 holes	6.0	2.452	1.241	43	43.1
3 10 holes	4.6	2.147	1.086	36	36.0
4 7 holes	3.1	1.762	0.892	28	28.1
5 5 holes	2.0	1.416	0.716	20	20.0

Sampler Calibration Relationship

Slope(m):43.920 Intercept(b): -11.394 Correlation Coefficient(r): 0.9998

Checked by: Magnum Fan

Date: 15/05/2010

High-Volume TSP Sampler
5-Point Calibration Record

Location : ASR3
Calibrated by : K.T.Ho
Date : 12/05/2010

Sampler

Model : GMWS-2310 ACCU-VOL
Serial Number : S/N 7577

Calibration Orifice and Standard Calibration Relationship

Serial Number : 1785
Service Date : 10 May 2010
Slope (m) : 2.01637
Intercept (b) : -0.02316
Correlation Coefficient(r) : 0.99996

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1012
Ta(K) : 297

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1 18 holes	10.5	3.244	1.641	58	58.1
2 13 holes	9.0	3.003	1.519	53	53.1
3 10 holes	7.0	2.648	1.340	47	47.1
4 7 holes	4.4	2.100	1.062	37	37.0
5 5 holes	2.6	1.614	0.817	28	28.0

Sampler Calibration Relationship

Slope(m):36.093 Intercept(b): -1.406 Correlation Coefficient(r): 0.9997

Checked by: Magnum Fan

Date: 15/05/2010

High-Volume TSP Sampler
5-Point Calibration Record

Location : ASR1
 Calibrated by : P.F.Yeung
 Date : 12/05/2010

Sampler

Model : GMWS-2310 ACCU-VOL
 Serial Number : S/N 1806

Calibration Orifice and Standard Calibration Relationship

Serial Number : 1785
 Service Date : 10 May 2010
 Slope (m) : 2.01637
 Intercept (b) : -0.02316
 Correlation Coefficient(r) : 0.99996

Standard Condition

Pstd (hpa) : 1013
 Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1012
 Ta(K) : 297

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1 18 holes	10.6	3.259	1.649	55	55.1
2 13 holes	8.5	2.918	1.476	49	49.1
3 10 holes	6.4	2.532	1.281	42	42.0
4 7 holes	4.3	2.076	1.050	34	34.0
5 5 holes	2.6	1.614	0.817	26	26.0

Sampler Calibration Relationship

Slope(m): 34.945 Intercept(b): -2.605 Correlation Coefficient(r): 0.9999

Checked by: Magnum Fan

Date: 15/05/2010

Appendix E
Calibration Record
(Noise Monitoring)

Certificate No. : C093598

Certificate of Calibration

This is to certify that the equipment

Description : Sound Level Calibrator

Manufacturer : Rion

Model No. : NC-73

Serial No. : 10786708

*has been calibrated for the specific items and ranges.
The results are shown in the Calibration Report No. C093598.*

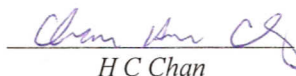
The equipment is supplied by

Co. Name : Envirotech Services Co.

*Address : Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,
Hong Kong*

Date of Issue : 10 July 2009

Certified by :


H C Chan

Report No. : C093598

Calibration Report

ITEM TESTED

DESCRIPTION : Sound Level Calibrator
MANUFACTURER : Rion
MODEL NO. : NC-73
SERIAL NO. : 10786708

TEST CONDITIONS

AMBIENT TEMPERATURE : $(23 \pm 2)^{\circ}\text{C}$ RELATIVE HUMIDITY : $(55 \pm 20)\%$
LINE VOLTAGE : ---

TEST SPECIFICATIONS

Calibration check

DATE OF TEST : 9 July 2009

JOB NO. : IC09-1664

TEST RESULTS

The results apply to the particular unit-under-test only.
All results are within manufacturer's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

Tested by :



K/C Lee

Date : 10 July 2009

The test equipment used for calibration are traceable to the National Standards as specified in this report.
This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration Report

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours before the commencement of the test.
2. The results presented are the mean of 3 measurements at each calibration point.
3. Test equipment :

Equipment ID	Description	Certificate No.
TST150A	Measuring Amplifier	C080751
CL129	Universal Counter	C093121
CL281	Multifunction Acoustic Calibrator	DC090052

4. Test procedure : MA100N.

5. Results :

5.1 Sound Level Accuracy

UUT Nominal Value	Measured Value (dB)	Mfr's Spec. (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	93.9	± 0.5	± 0.2

5.2 Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (Hz)	Mfr's Spec.	Uncertainty of Measured Value (Hz)
1	0.991 6	1 kHz ± 2 %	± 0.1

Remark : - The uncertainties are for a confidence probability of not less than 95 %.

Note :

The values given in this Calibration Report only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.



輝創工程有限公司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate No. : C093733

Certificate of Calibration

This is to certify that the equipment

Description : Sound Level Meter

Manufacturer : Rion

Model No. : NL-31

Serial No. : 00320533

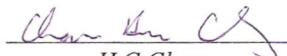
*has been calibrated for the specific items and ranges.
The results are shown in the Calibration Report No. C093733.*

The equipment is supplied by

Co. Name : Envirotech Services Co.

*Address : Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,
Hong Kong*

Date of Issue : 16 July 2009

Certified by : 
H C Chan

The test equipment used for calibration are traceable to the National Standards as specified in this report.
This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration and Testing Laboratory of Sun Creation Engineering Limited

c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

Tel: 2927 2606

Fax: 2744 8986

E-mail: callab@suncreation.com

Website: www.suncreation.com



輝創工程有限公司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Report No. : C093733

Calibration Report

ITEM TESTED

DESCRIPTION : Sound Level Meter
MANUFACTURER : Rion
MODEL NO. : NL-31
SERIAL NO. : 00320533

TEST CONDITIONS

AMBIENT TEMPERATURE : $(23 \pm 2)^{\circ}\text{C}$ RELATIVE HUMIDITY : $(55 \pm 20)\%$
LINE VOLTAGE : ---

TEST SPECIFICATIONS

Calibration check

DATE OF TEST : 15 July 2009

JOB NO. : IC09-1740

TEST RESULTS

The results apply to the particular unit-under-test only.
All results are within manufacturer's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

Tested by :


K C Lee

Date : 16 July 2009

The test equipment used for calibration are traceable to the National Standards as specified in this report.
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Calibration and Testing Laboratory of Sun Creation Engineering Limited

c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

Tel: 2927 2606

Fax: 2744 8986

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Website: www.suncreation.com

Page 1 of 4

Calibration Report

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
2. Self-calibration was performed before the test.
3. The results presented are the mean of 3 measurements at each calibration point.
4. Test equipment :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL280	40 MHz Arbitrary Waveform Generator	C090024
CL281	Multifunction Acoustic Calibrator	DC090052

5. Test procedure : MA101N.

6. Results :

- 6.1 Sound Pressure Level

- 6.1.1 Reference Sound Pressure Level

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
30 - 120	L _A	A	Fast	94.00	1	94.2	± 0.7

- 6.1.2 Linearity

UUT Setting				Applied Value		UUT Reading (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
30 - 120	L _A	A	Fast	94.00	1	94.2 (Ref.)
				104.00		104.2
				114.00		114.2

IEC 60651 Type 1 Spec. : ± 0.4 dB per 10 dB step and ± 0.7 dB for overall different.

- 6.2 Time Weighting

- 6.2.1 Continuous Signal

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
30 - 120	L _A	A	Fast	94.00	1	94.2	Ref.
			Slow			94.1	± 0.1

The test equipment used for calibration are traceable to the National Standards as specified in this report.
This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration Report

6.2.2 Tone Burst Signal (2 kHz)

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Burst Duration		
20 - 110	L _A	A	Fast	106.00	Continuous	106.0	Ref.
	L _{Amax}				200 ms	105.0	-1.0 ± 1.0
	L _A	Slow	Continuous		106.0	Ref.	
	L _{Amax}		500 ms		102.0	-4.1 ± 1.0	

6.3 Frequency Weighting

6.3.1 A-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
30 - 120	L _A	A	Fast	94.00	31.5 Hz	55.0	-39.4 ± 1.5
					63 Hz	68.3	-26.2 ± 1.5
					125 Hz	78.3	-16.1 ± 1.0
					250 Hz	85.7	-8.6 ± 1.0
					500 Hz	91.0	-3.2 ± 1.0
					1 kHz	94.2	Ref.
					2 kHz	95.2	+1.2 ± 1.0
					4 kHz	94.4	+1.0 ± 1.0
					8 kHz	90.1	-1.1 (+1.5 ; -3.0)
12.5 kHz	83.9	-4.3 (+3.0 ; -6.0)					

6.3.2 C-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
30 - 120	L _C	C	Fast	94.00	31.5 Hz	91.4	-3.0 ± 1.5
					63 Hz	93.6	-0.8 ± 1.5
					125 Hz	94.1	-0.2 ± 1.0
					250 Hz	94.3	0.0 ± 1.0
					500 Hz	94.3	0.0 ± 1.0
					1 kHz	94.2	Ref.
					2 kHz	93.9	-0.2 ± 1.0
					4 kHz	92.7	-0.8 ± 1.0
					8 kHz	88.3	-3.0 (+1.5 ; -3.0)
12.5 kHz	82.1	-6.2 (+3.0 ; -6.0)					

The test equipment used for calibration are traceable to the National Standards as specified in this report. This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration Report

6.4 Time Averaging

UUT Setting				Applied Value					UUT	IEC 60804
Range (dB)	Mode	Frequency Weighting	Time Weighting	Freq. (kHz)	Burst Duration (ms)	Burst Duty Factor	Burst Level (dB)	Equivalent Level (dB)	Reading (dB)	Type 1 Spec. (dB)
20 - 110	L _{Aeq}	A	10 sec.	4	1	1/10	110.0	100	100.3	± 0.5
			60 sec.			1/10 ²		90	90.3	± 0.5
			5 min.			1/10 ³		80	80.3	± 1.0
						1/10 ⁴		70	70.3	± 1.0

Remarks : - Mfr's Spec. : IEC 60651 & IEC 60804 Type 1

- Uncertainties of Applied Value : 94 dB : 31.5 Hz - 125 Hz : ± 0.35 dB
 250 Hz - 500 Hz : ± 0.30 dB
 1 kHz : ± 0.20 dB
 2 kHz - 4 kHz : ± 0.35 dB
 8 kHz : ± 0.45 dB
 12.5 kHz : ± 0.70 dB
 104 dB : 1 kHz : ± 0.10 dB (Ref. 94 dB)
 114 dB : 1 kHz : ± 0.10 dB (Ref. 94 dB)
 Burst equivalent level : ± 0.2 dB (Ref. 110 dB continuous sound level)

- The uncertainties are for a confidence probability of not less than 95 %.

Note :

The values given in this Calibration Report only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

Appendix E
Calibration Record
(Water Quality Monitoring)



CERTIFICATE OF ANALYSIS

CONTACT: MR THOMAS WONG
CLIENT: ENOVATIVE ENVIRONMENTAL TECHNOLOGY COMPANY
ADDRESS: RM 3704, SIK MAN HOUSE,
HOMANTIN ESTATE,
KOWLOON, HONG KONG.
ORDER No.:

Batch: HK1005529
LABORATORY: HONG KONG
DATE RECEIVED: 01/03/2010
DATE OF ISSUE: 15/03/2010
SAMPLE TYPE: EQUIPMENT
No. of SAMPLES: 1

COMMENTS

The calibration procedure used for the analysis has been applied for the calibration of the above instrument.

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.

ISSUING LABORATORY: HONG KONG

Address

ALS Technichem (HK) Pty Ltd
11/F
Chung Shun Knitting Centre
1-3 Wing Yip Street
Kwai Chung
HONG KONG

Phone: 852-2610 1044
Fax: 852-2610 2021
Email: hongkong@alsenviro.com


Mr Chan Kwok Fai, Godfrey
Laboratory Manager - Hong Kong

Other ALS Environmental Laboratories

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AUSTRALIA		AMERICAS
Brisbane	Hong Kong	Vancouver
Melbourne	Singapore	Santiago
Sydney	Kuala Lumpur	Amtofagasta
Newcastle	Bogor	Lima

Abbreviations: % SPK REC denotes percentage spike recovery
CHK denotes duplicate check sample
LOR denotes limit of reporting
LCS % REC denotes Laboratory Control Sample percentage recovery

CERTIFICATE OF ANALYSIS



Batch: HK1005529
Date of Issue: 15/03/2010
Client: ENOVATIVE ENVIRONMENTAL TECHNOLOGY COMPANY
Client Reference:

Calibration of Turbidimeter

Item : Hach Turbidimeter Serial No.: 09120C000514
Model No.: 2100Q Equipment No.: N/A
ALS Lab ID: HK1005529 -001 Date of Calibration: 01 March, 2010

Testing Results :

Turbidimeter	Expected Reading	Recording Reading
	4.00 NTU	4.20 NTU
	20.0 NTU	20.1 NTU
	100 NTU	100 NTU
	Allowing Deviation	±10%

Testing Method:

APHA (20th edition), 2130 B



CERTIFICATE OF ANALYSIS

CONTACT: MR THOMAS WONG
CLIENT: ENOVATIVE ENVIRONMENTAL TECHNOLOGY COMPANY
ADDRESS: RM 3704, SIK MAN HOUSE,
HOMANTIN ESTATE,
KOWLOON, HONG KONG.

Batch: HK1013955
LABORATORY: HONG KONG
DATE RECEIVED: 01/06/2010
DATE OF ISSUE: 15/06/2010
SAMPLE TYPE: EQUIPMENT
No. of SAMPLES: 1

ORDER No.:

COMMENTS

The calibration procedure used for the analysis has been applied for the calibration of the above instrument.

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.

ISSUING LABORATORY: HONG KONG

Address

ALS Technichem (HK) Pty Ltd
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Chung Shun Knitting Centre
1-3 Wing Yip Street
Kwai Chung
HONG KONG

Phone: 852-2610 1044
Fax: 852-2610 2021
Email: hongkong@alsenviro.com


Mr Chan Kwok Fai, Godfrey
Laboratory Manager - Hong Kong

Other ALS Environmental Laboratories

AUSTRALIA		AMERICAS
Brisbane	Hong Kong	Vancouver
Melbourne	Singapore	Santiago
Sydney	Kuala Lumpur	Amtofagasta
Newcastle	Bogor	Lima

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Abbreviations: % SPK REC denotes percentage spike recovery
CHK denotes duplicate check sample
LOR denotes limit of reporting
LCS % REC denotes Laboratory Control Sample percentage recovery

CERTIFICATE OF ANALYSIS



Batch: HK1013955
Date of Issue: 15/06/2010
Client: ENOVATIVE ENVIRONMENTAL TECHNOLOGY COMPANY
Client Reference:

Calibration of Turbidimeter

Item : Hach Turbidimeter Serial No.: 09120C000514
Model No.: 2100Q Equipment No.: N/A
ALS Lab ID: HK1013955 -001 Date of Calibration: 01 June, 2010

Testing Results :

Turbidimeter	Expected Reading	Recording Reading
	4.00 NTU	4.40 NTU
	16.0 NTU	16.3 NTU
	40.0 NTU	40.7 NTU
	400 NTU	402 NTU
	Allowing Deviation	±10%

Testing Method:

APHA (20th edition), 2130 B



CERTIFICATE OF ANALYSIS

CONTACT: MR THOMAS WONG
CLIENT: ENOVATIVE ENVIRONMENTAL TECHNOLOGY COMPANY
ADDRESS: RM 3704, SIK MAN HOUSE,
HOMANTIN ESTATE,
KOWLOON, HONG KONG.

Batch: HK1010466
LABORATORY: HONG KONG
DATE RECEIVED: 23/04/2010
DATE OF ISSUE: 13/05/2010
SAMPLE TYPE: EQUIPMENT
No. of SAMPLES: 1

COMMENTS

The calibration procedure used for the analysis has been applied for the calibration of the above instrument.

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.

ISSUING LABORATORY: HONG KONG

Address

ALS Technichem (HK) Pty Ltd
11/F
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1-3 Wing Yip Street
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HONG KONG

Phone: 852-2610 1044
Fax: 852-2610 2021
Email: hongkong@alsenviro.com


Mr Chan Kwok Fai, Godfrey
Laboratory Manager - Hong Kong

Other ALS Environmental Laboratories

AUSTRALIA		AMERICAS
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Newcastle	Bogor	Lima

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*Abbreviations: % SPK REC denotes percentage spike recovery
CHK denotes duplicate check sample
LOR denotes limit of reporting
LCS % REC denotes Laboratory Control Sample percentage recovery*

ALS Technichem (HK) Pty Ltd
Part of the **ALS Laboratory Group**

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., H.K.
Phone: 852-2610 1044 Fax: 852-2610 2021 www.alsenviro.com
A Campbell Brothers Limited Company

CERTIFICATE OF ANALYSIS



Batch: HK1010466
Date of Issue: 13/05/2010
Client: ENOVATIVE ENVIRONMENTAL TECHNOLOGY COMPANY
Client Reference:

Calibration of Multimeter

Item : YSI Professional Plus
 ALS Lab ID: HK1010466 -001
 Date of Calibration: 23 April, 2010

Model No.: YSI Professional Plus
 Equipment No.: N/A
 Serial No.: 09K100735

Testing Results :

pH	Expected Reading	Recording Reading	Testing Method: APHA (20th edition), 4500-H*B
	4.0	4.0	
	7.0	7.1	
	10.0	10.0	
	Allowing Deviation	± 0.2 unit	
Conductivity	Expected Reading	Recording Reading	Testing Method: APHA (20th edition), 2510B
	146.9 uS/cm	135.5 uS/cm	
	6667 uS/cm	6305 uS/cm	
	12890 uS/cm	12183 uS/cm	
	58670 uS/cm	55467 uS/cm	
	Allowing Deviation	± 10%	
Temperature	Expected Reading	Recording Reading	Testing Method: In-House Method
	21.3 °C	21.4 °C	
	Allowing Deviation	±2.0°C	
Salinity	Expected Reading	Recording Reading	Testing Method: APHA (20th edition), 2520 A and B
	10.0 g/L	10.3 g/L	
	20.0 g/L	20.5 g/L	
	30.0 g/L	30.5 g/L	
	Allowing Deviation	± 10%	
Dissolved Oxygen	Expected Reading	Recording Reading	Testing Method: APHA (20th edition), 4500-OC & G
	4.36 mg/L	4.30 mg/L	
	6.10 mg/L	6.05 mg/L	
	8.32 mg/L	8.45 mg/L	
	Allowing Deviation	± 0.2 mg/L	
ORP	Solution	Recording Reading	Testing Method: In house method
	Solution A	195 mV	
	Solution B	270.3 mV	

Acceptance Criteria for ORP:

Reading of solution B should be about 66mV higher than solution A.

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