

综合試驗 有限公司 SOILS & MATERIALS ENGINEERING CO., LTD. 香港黄竹坑道37號利達中心12樓 12/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. E-mail: smec@cigismec.com Website: www.cigismec.com

Tel: (852) 2873 6860 Fax: (852) 2555 7533



CERTIFICATE OF CALIBRATION

Certificate No.:	16CA1117 01-01			Page	1	of	2
Item tested							
Description: Manufacturer:	Sound Level Mete B & K	er (Type 1)	,	Microphone B & K			
Type/Model No.:	2236		3	4188			
Serial/Equipment No.:	2100736		,	2288941			
Adaptors used:	2100730		,	-			
			T	-			
Item submitted by							
Customer Name:	Lam Geotechnics	Limited					
Address of Customer:	-						
Request No.:	-						
Date of receipt:	17-Nov-2016						
Date of test:	18-Nov-2016						
Reference equipment	used in the calib	ration					
Description:	Model:	Serial No.		Expiry Date:		Traceab	le to:
Multi function sound calibrator	B&K 4226	2288444		18-Jun-2017		CIGISME	С
Signal generator	DS 360	33873		18-Apr-2017		CEPREI	
Signal generator	DS 360	61227		18-Apr-2017		CEPREI	
Ambient conditions							2
Temperature:	23 ± 1 °C						
Relative humidity:	50 ± 10 %						
Air pressure:	1005 ± 5 hPa						
in pressure.	1000 ± 0 m a						
Toot aposifications							

Test specifications

- 1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- 2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.
- The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.

Approved Signatory: Huang Jian Min/Feng Jun Qi

21-Nov-2016 Company Chop:



Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

Date:

O Soils & Materials Engineering Co., Ltd.

Form No.CARP152-1/Issue 1/Rev.C/01/02/2007



綜合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD. 香港黃竹坑道 37號利達中心 12樓

12/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. E-mail: smec@cigismec.com Website: www.cigismec.com Tel: (852) 2873 6860 Fax: (852) 2555 7533



CERTIFICATE OF CALIBRATION

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Certificate No.:

16CA1117 01-01

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1, Electrical Tests

The electrical tests were perfomed using an equivalent capacitance substituted for the microphone. The results are given in below with test status and the estimated uncertainties. The "Pass" means the result of the test is inside the tolerances stated in the test specifications. The "-" means the result of test is outside these tolerances.

			Expanded	Coverage
Test:	Subtest:	Status:	Uncertanity (dB)	Factor
Self-generated noise	A	Pass	0.3	
3	C	Pass	1.0	2.1
	Lin	Pass	2.0	2.2
Linearity range for Leg	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
, 3 1	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
Frequency weightings	A	Pass	0.3	
	C	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	Pass	0.3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/10 ³ at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/10 ⁴ at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leg	Pass	0.4	

2, Acoustic tests

The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

Test:	Subtest	Status	Expanded Uncertanity (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3	
	Weighting A at 8000 Hz	Pass	0.5	

3, Response to associated sound calibrator

N/A

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.



The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

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Form No.CARP152-2/Issue 1/Rev C/01/02/2007



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Tel: (852) 2873 6860 Fax: (852) 2555 7533



CERTIFICATE OF CALIBRATION

Certificate No.:	16CA0513 01-02		Page:	1 of	2
Item tested					
Description:	Acoustical Calibra	ator (Class 1)			
Manufacturer:	Rion Co., Ltd.				
Type/Model No.:	NC-73				
Serial/Equipment No.:	10465798				
Adaptors used:	15				
Item submitted by					
Curstomer:	Lam Geotechnics	Ltd			
Address of Customer:	-	LIU.			
Request No.:					
Date of receipt:	13-May-2016				
Date of test:	17-May-2016				
Reference equipment	used in the calib	ration			
Description:	Model:	Serial No.	English Bat		
Lab standard microphone	B&K 4180	2412857	Expiry Date:	Traceab	le to:
D	- 3411 1100	2412001	14-Apr-2017	SCL	

Lab standard microphoneB&K 41PreamplifierB&K 26Measuring amplifierB&K 26Signal generatorDS 360Digital multi-meter34401AAudio analyzer8903BUniversal counter53132A	73 2239857	14-Apr-2017 28-Apr-2017 26-Apr-2017 18-Apr-2017 18-Apr-2017 19-Apr-2017 19-Apr-2017	SCL CEPREI CEPREI CEPREI CEPREI CEPREI CEPREI CEPREI
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Ambient conditions

Temperature:	22 ± 1 °C
Relative humidity:	55 ± 10 %
Air pressure:	1010 ± 5 hPa

Test specifications

- The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.
- 2. The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
- 3. The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

Test results

This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942: 1997 for the conditions under which the test was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.

Details of the performed measurements are presented on page 2 of this certificate.

Huang Jian n/Feng Jun Qi

Date: 18-May-2016

Company Chop:



Comments: The results reported in this certificate refer to the conditon of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

C Soils & Materials Engineering Co Lld

Approved Signatory:

Form No CARP156-1/Issue 1 Rev D/01/03/2007



综合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD. 香港黄竹坑道37號利達中心12樓

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CERTIFICATE OF CALIBRATION

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Certificate No.:

16CA0513 01-02

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1, Measured Sound Pressure Level

The output Sound Pressure Level in the calibrator head was measured at the setting and frequency shown using a calibrated laboratory standard microphone and insert voltage technique. The results are given in below with the estimated uncertainties.

Ernnur	0.1.1.0		(Output level in dB re 20 µPa)
Frequency Shown Hz	Output Sound Pressure Level Setting dB	Measured Output Sound Pressure Level dB	Estimated Expanded Uncertainty dB
1000	94.00	93.96	0.10

2, Sound Pressure Level Stability - Short Term Fluctuations

The Short Term Fluctuations was determined by measuring the maximum and minimum of the fast weighted DC output of the B&K 2610 measuring amplifier over a 20 second time interval as required in the standard. The Short Term Fluctuation was found to be:

STF = 0.001 dB
0.005 dB

3, Actual Output Frequency

The determination of actual output frequency was made using a B&K 4180 microphone together with a B&K 2673 preamplifier connected to a B&K 2610 measuring amplifier. The AC output of the B&K 2610 was taken to an universal counter which was used to determine the frequency averaged over 20 second of operation as required by the standard. The actual output frequency at 1 KHz was:

At 1000 Hz	Actual Frequency = 967.3 Hz	
Estimated expanded uncertainty	0.1 Hz	Coverage factor k = 2.2

4, Total Noise and Distortion

For the Total Noise and Distortion measurement, the unfiltered AC output of the B&K 2610 measuring amplifier was connected to an Agilent Type 8903 B distortion analyser. The TND result at 1 KHz was:

At 1000 Hz	TND = 0.8 %
Estimated expanded uncertainty	0.7 %

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

/	1 1	- End -	7
Calibrated by:	Fung Chi Yip	Checked by:	L
Date:	17-May-2016	Date:	Lam Tze Wai 18-May-2016

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

C Soils & Materials Engineering Co. Ltd

Form No CARP156-2/Issue 1/Rev C/01/05/2005



EQUIPMENT PERFORMANCE CHECK / CALIBRATION REPORT

Report No.	: HK1710077
Project Name	EQUIPMENT PERFORMANCE CHECK/CALIBRATION REPORT
Date of Issue	: 27/01/2017
Customer	: LAM GEOTECHNICS LIMITED
Address	: 11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Calibration Job No.	: HK1710077
Test Item No.	: HK1710077-01
Test Item Details	
Test Item Description	: Sonde
Manufacturer	: YSI
Model No.	: Professional Plus
Serial No.	: 14E100105
Performance Method	: Checked according to in-house method CAL005
a a second to sear address a	(References: Temperature (Section 6 of Intermational Accreditation New Zealand Technical Guide
	No. 3 Second edition March 2008: Working Thermometer Calibration Procedure), pH value
	(APHA 21e 4500H:B), Salinity (Refer to Conductivity APHA 19e 2510B)
	, Dissolved oxygen (APHA 19e 4500-O.C))
Test Item Receipt Date	: 25/01/2017
Test Item Calibration Date	: 26/01/2017

Notes: 1. This report shall not be reproduced, except in full, without prior approval from Pilot Testing Limited.

- 2. Results relate to item(s) as received.
- 3. ± indicates the tolerance limit
- 4. N/A = Not applicable
- 5. APHA American Public Health Association, American Water Works Association and Water Environment Federation, Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WEF. USA
- 6. DO, pH, salinity and temperature performance check was conducted by Pilot Testing Limited.
- 7. Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.

Approved Signatory

Ms. Wong Po Yan, Pauline (Testing Engineer)

Issue Date:

27/01/2017

Pilot Testing Limited Address: Room B12, Block B, 5/F, Tonic Industrial Centre, 19 Lam Hing Street, Kowloon Bay, Kowloon Tel: (852) 2527 6691 email: test@pilot-testing.com



WORK ORDER:	HK1710077
DATE OF ISSUE:	27/01/2017
CLIENT:	LAM GEOTECHNICS LIMITED

Equipment Type	Sonde
Manufacturer	YSI
Model No.	Professional Plus
Serial No.	14E100105
Date of Calibration	26-Jan-17
Date of next Calibation	26-Apr-17

Parameters:

Temperature (Method Ref: Section 6 of Intermational Accreditation New Zealand Technical Guide No.3 Second edition March 2008: Working Thermometer Calibration Procedure)

Reference Reading (°C)	Display Reading (°C)	Deviation (°C)	
7.2	7.2	0.0	
14.9	15.1	0.2	
29.4	29.0	-0.4	
	Tolerance Limit	±2.0	

pH Value (Method Ref: APHA21e, 4500H:B)

Expected Reading (pH unit)	Reference Reading (pH unit)	Display Reading (pH unit)	Deviation (pH unit)
4.0	3.97	3.90	-0.07
7.0	7.00	7.17	0.17
10.0	10.00	9.95	-0.05
Tolerance Limit			±0.20

Conductivity (Method Ref: APHA 19e, 2510)

KCI concentration (mol/L)	Reference Reading (ms/cm)	Display Reading (ms/cm)	Deviation (%)
0.0000	0.00	0.00	
0.1000	11.82	11.59	-1.95
0.2000	22.60	22.35	-1.11
0.5000	51.30	50.50	-1.56
	Tolerance Limit		±2.0

Dissolved Oxygen (DO) (Method Ref: APHA 19e, 4500-O, C)

Reference DO reading (mg/L)	DO reading od DO probe (mg/L)	Deviation (mg/L)
9.90	9.98	0.08
8.30	8.17	-0.13
7.68	7.57	-0.11
	Tolerance Limit	±0.20

Remarks:

(1) Maxium tolerance and calibration frequency stated in the report, unless otherewise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

(2) Displayed reading presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.

(3) Because of high sensitivity and ease of measurement, the conductivity method (accoridng to APHA 19e 2510) is used to determine salinity.

- End of Report -



EQUIPMENT PERFORMANCE CHECK / CALIBRATION REPORT

Report No.	: HK1610730
Project Name	: EQUIPMENT PERFORMANCE CHECK/CALIBRATION REPORT
Date of Issue	: 23/12/2016
Customer	: LAM GEOTECHNICS LIMITED
Address	: 11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Calibration Job No.	: HK1610730
Test Item No.	: HK1610730-01
Test Item Details	
Test Item Description	: Sonde
Manufacturer	: YSI
Model No.	: Professional Plus
Serial No.	: 14M100277
Performance Method	: Checked according to in-house method CAL005
	(References: Temperature (Section 6 of Intermational Accreditation New Zealand Technical Guide
	No. 3 Second edition March 2008: Working Thermometer Calibration Procedure), pH value
	(APHA 21e 4500H:B), Salinity (Refer to Conductivity APHA 19e 2510B)
	, Dissolved oxygen (APHA 19e 4500-O,C))
Test Item Receipt Date	: 22-Dec-16
Test Item Calibration Date	: 23-Dec-16

Notes : 1. This report shall not be reproduced, except in full, without prior approval from Pilot Testing Limited.

- 2. Results relate to item(s) as received.
- 3. ± indicates the tolerance limit

1

- 4. N/A = Not applicable
- 5. APHA American Public Health Association, American Water Works Association and Water Environment Federation, Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WEF. USA
- 6. DO, pH, salinity and temperature performance check was conducted by Pilot Testing Limited.
- 7. Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.

Approved Signatory

Issue Date:

23/12/2016

Ms. Wong Po Yan, Pauline (Testing Engineer)

Pilot Testing Limited Address: Room B12, Block B, 5/F, Tonic Industrial Centre, 19 Lam Hing Street, Kowloon Bay, Kowloon Tel: (852) 2527 6691 email: test@pilot-testing.com



WORK ORDER:	HK1610730
DATE OF ISSUE:	23/12/2016
CLIENT:	LAM GEOTECHNICS LIMITED

Equipment Type	Sonde
Manufacturer	YSI
Model No.	Professional Plus
Serial No.	14M100277
Date of Calibration	23-Dec-16
Date of next Calibation	24-Mar-17

Parameters:

Temperature (Method Ref: Section 6 of Intermational Accreditation New Zealand Technical Guide No.3 Second edition March 2008: Working Thermometer Calibration Procedure)

Reference Reading (°C)	Display Reading (°C)	Deviation (°C)
9.6	9.4	-0.2
19.1	19.3	0.2
28.1	28.3	0.2
	Tolerance Limit	±2.0

pH Value (Method Ref: APHA21e, 4500H:B)

Expected Reading (pH unit)	Reference Reading (pH unit)	Display Reading (pH unit)	Deviation (pH unit)
4.0	4.07	4.10	0.03
7.0	6.95	7.04	0.09
10.0	9.92	9.90	-0.02
Tolerance Limit			±0.20

Conductivity (Method Ref: APHA 19e, 2510)

KCI concentration (mol/L)	Reference Reading (ms/cm)	Display Reading (ms/cm)	Deviation (%)
0.0000	0.00	0.00	
0.1000	12.40	12.37	-0.24
0.2000	23.80	23.36	-1.85
0.5000	53.10	52.80	-0.56
	Tolerance Limit		±2.0

Dissolved Oxygen (DO) (Method Ref: APHA 19e, 4500-O, C)

Reference DO reading (mg/L)	DO reading od DO probe (mg/L)	Deviation (mg/L)
8.96	9.05	0.09
5.84	5.88	0.04
4.95	5.01	0.06
	Tolerance Limit	±0.20

Remarks:

- (1) Maxium tolerance and calibration frequency stated in the report, unless otherewise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.
 (2) Displayed reading presents the first acceptance on item under calibration (abacting present)
- (2) Displayed reading presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.
- (3) Because of high sensitivity and ease of measurement, the conductivity method (accoridng to APHA 19e 2510) is used to determine salinity.
- (4) Due to the malfuction of pH sensor, there is no reading shown on the multimeter's screen. pH parameter is failed to comply with the tolerence.

- End of Report -



EQUIPMENT PERFORMANCE CHECK / CALIBRATION REPORT

Report No.	: HK1710208
Project Name	EQUIPMENT PERFORMANCE CHECK/CALIBRATION REPORT
Date of Issue	17/03/2017
Customer	: LAM GEOTECHNICS LIMITED
Address	: 11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Calibration Job No.	: HK1710208
Test Item No.	: HK1710208-01
Test Item Details	
Test Item Description	: Sonde
Manufacturer	: YSI
Model No.	: Professional Plus
Serial No.	: 14M100277
Performance Method	: Checked according to in-house method CAL005
	(References: Temperature (Section 6 of Intermational Accreditation New Zealand Technical Guide
	No. 3 Second edition March 2008: Working Thermometer Calibration Procedure), pH value
	(APHA 21e 4500H:B), Salinity (Refer to Conductivity APHA 19e 2510B)
	, Dissolved oxygen (APHA 19e 4500-O,C))
Test Item Receipt Date	: 15/03/2017
Test Item Calibration Date	: 17/03/2017

Notes: 1. This report shall not be reproduced, except in full, without prior approval from Pilot Testing Limited.

- 2. Results relate to item(s) as received.
- 3. ± indicates the tolerance limit
- 4. N/A = Not applicable
- 5. APHA American Public Health Association, American Water Works Association and Water Environment Federation, Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WEF. USA
- 6. DO, pH, salinity and temperature performance check was conducted by Pilot Testing Limited.
- 7. Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.

Issue Date:

17/03/2017

Approved Signatory

Ms. Wong Po Yan, Pauline (Testing Engineer)

Pilot Testing Limited

Address: Room B12, Block B, 5/F, Tonic Industrial Centre, 19 Lam Hing Street, Kowloon Bay, Kowloon Tel: (852) 2527 6691 email: test@pilot-testing.com

WORK ORDER:	HK1710208
DATE OF ISSUE:	17/03/2017
CLIENT:	LAM GEOTECHNICS LIMITED

Equipment Type	Sonde	
Manufacturer	YSI	
Model No.	Professional Plus	
Serial No.	14M100277	
Date of Calibration	17-Mar-17	
Date of next Calibation	17-Jun-17	

Parameters:

Temperature (Method Ref: Section 6 of International Accreditation New Zealand Technical Guide No.3 Second edition March 2008: Working Thermometer Calibration Procedure)

Reference Reading (°C)	Display Reading (°C)	Deviation (°C)
6.3	6.4	0.1
14.6	14.6	0.0
21.1	20.7	-0.4
1	olerance Limit	±2.0

pH Value (Method Ref: APHA21e, 4500H:B)

Expected Reading (pH unit)	Reference Reading (pH unit)	Display Reading (pH unit)	Deviation (pH unit)
4.0	3.96	4.08	0.12
7.0	6.91	7.06	0.15
10.0	9.99	9.80	-0.19
	Tolerance Limit		±0.20

Conductivity (Method Ref: APHA 19e, 2510)

KCI concentration (mol/L)	Reference Reading (ms/cm)	Display Reading (ms/cm)	Deviation (%)
0.0000	0.00	0.00	
0.1000	11.92	11.85	-0.59
0.2000	22.90	22.74	-0.70
0.5000	54.20	53.40	-1.48
	Tolerance Limit		±2.0

Dissolved Oxygen (DO) (Method Ref: APHA 19e, 4500-O, C)

Reference DO reading (mg/L)	DO reading od DO probe (mg/L)	Deviation (mg/L)	
8.85	8.68	-0.17	
6.24	6.36	0.12	
5.70	5.85	0.15	
	Tolerance Limit	±0.20	

Remarks:

(1) Maxium tolerance and calibration frequency stated in the report, unless otherewise stated,

the internal acceptance criteria of Pilot Testing Limited will be followed.

(2) Displayed reading presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.

(3) Because of high sensitivity and ease of measurement, the conductivity method (accoridng to APHA 19e 2510) is used to determine salinity.

- End of Report -



Information supplied	l by customer:		
CONTACT:	MR. SAM LAM	WORK ORDER:	HK1710060
CLIENT:	LAM GEOTECHNICS LIMITED		and a second second
DATE RECEIVED:	19/01/2017		
DATE OF ISSUE:	23/01/2017		
ADDRESS:	11/F, CENTRE POINT, 181-185, GI	LOUCESTER ROAL	D.
	WANCHAI, HONG KONG		
PROJECT:			

METHOD OF PERFORMANCE CHECK/ CALIBRATION:

Ref: APHA22nd ed 2130B

COMMENTS

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.

Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Turbidity	
Turbidimeter	
Xin Rui	
WGZ-3B	
1309192	
	C
21/01/2017	
	Turbidimeter Xin Rui WGZ-3B 1309192

Remarks:

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

Approved Signatory:

Ms. Wong Po Yan, Pauline Testing Engineer Issue Date:

23/01/2017

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WORK ORDER:	HK1710060
DATE OF ISSUE:	23/01/2017
CLIENT:	LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1309192	
Equipment No.:		
Date of Calibration:	21/01/2017	
Date of next Calibation:	21/04/2017	

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance
	0.00	
4	4.11	2.8%
10	9.91	-0.9%
40	39.8	-0.4%
100	100	0.0%
400	400	0.0%
1000	1000	0.0%
	Tolerance Limit (±)	10%

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



Information supplied	by customer:		
CONTACT:	MR. SAM LAM	WORK ORDER:	HK1710016
CLIENT:	LAM GEOTECHNICS LIMITED		
DATE RECEIVED:	05/01/2017		
DATE OF ISSUE:	10/01/2017		
ADDRESS:	11/F, CENTRE POINT, 181-185, G	LOUCESTER ROAI	D,
	WANCHAI, HONG KONG		
PROJECT:			

METHOD OF PERFORMANCE CHECK/ CALIBRATION: Ref: APHA22nd ed 2130B

COMMENTS

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.

Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity	
Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1403009	
Equipment No.:		
Date of Calibration:	09/01/2017	

Remarks:

This is the Final Report, Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Approved Signatory:

Ms. Wong Po Yan, Pauline

Testing Engineer

Issue Date:

10/01/2017

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WORK ORDER:HK1710016DATE OF ISSUE:10/01/2017CLIENT:LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1403009	
Equipment No.:		
Date of Calibration:	09/01/2017	
Date of next Calibation:	09/04/2017	

Parameters: Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance	
0	0.00		
4	4.02	0.5%	
10	9.81	-1.9%	
40	38.7	-3.2%	
100	93.4	-6.6%	
400	392	-2.0%	
1000	1000	0.0%	
	Tolerance Limit (±)	10%	

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



Information supplied	l by customer:		
CONTACT:	MR. SAM LAM	WORK ORDER:	HK1610696
CLIENT:	LAM GEOTECHNICS LIMITED		
DATE RECEIVED:	05/12/2016		
DATE OF ISSUE:	12/12/2016		
ADDRESS:	11/F, CENTRE POINT, 181-185, G	LOUCESTER ROAL),
	WANCHAI, HONG KONG		
PROJECT:			

METHOD OF PERFORMANCE CHECK/ CALIBRATION: Ref: APHA22nd ed 2130B

Kel. AFTIAZZIIU eu 2150

COMMENTS

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.

Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity	
Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1512046	
Equipment No.:		
Date of Calibration:	05/12/2016	

Remarks:

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

Approved Signatory:

Ms. Wong Po Yan, Pauline Testing Engineer Issue Date:

12/12/2016

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WORK ORDER:	HK1610696
DATE OF ISSUE:	12/12/2016
CLIENT:	LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1512046	
Equipment No.:		
Date of Calibration:	05/12/2016	
Date of next Calibation:	05/03/2017	

Parameters: Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance	
0	0.00		
4	3.94	-1.5%	
10	9.30	-7.0%	
40	38.4	-4.0%	
100	102	2.0%	
400	380	-5.0%	
1000	1000	0.0%	
	Tolerance Limit (±)	10%	

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



Information supplied	l by customer:		
CONTACT:	MR. SAM LAM	WORK ORDER:	HK1710176
CLIENT:	LAM GEOTECHNICS LIMITED		
DATE RECEIVED:	3/3/2017		
DATE OF ISSUE:	6/3/2017		
ADDRESS:	11/F, CENTRE POINT, 181-185, G	LOUCESTER ROAL	Э,
	WANCHAI, HONG KONG		
PROJECT:			

METHOD OF PERFORMANCE CHECK/ CALIBRATION: Ref: APHA22nd ed 2130B

COMMENTS

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.

Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity	
Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1512046	
Equipment No.:		
Date of Calibration:	04/03/2017	

Remarks:

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

Approved Signatory:

Ms. Wong Po Yan, Pauline

Testing Engineer

Issue Date:

6/3/2017

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WORK ORDER:	HK1710176
DATE OF ISSUE:	6/3/2017
CLIENT:	LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1512046	
Equipment No.:		
Date of Calibration:	04/03/2017	
Date of next Calibation:	04/06/2017	

Parameters: Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance	
0	0.00		
4	3.99	-0.2%	
10	10.3	3.0%	
40	42.6	6.5%	
100	97.3	-2.7%	
400	384	-4.0%	
1000	1000	0.0%	
	Tolerance Limit (±)	10%	

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



Information supplied	by customer:		
CONTACT:	MR. SAM LAM	WORK ORDER:	HK1610731
CLIENT:	LAM GEOTECHNICS LIMITED		
DATE RECEIVED:	21/12/2016		
DATE OF ISSUE:	23/12/2016		
ADDRESS:	11/F, CENTRE POINT, 181-185, GI	LOUCESTER ROAL	D,
	WANCHAI, HONG KONG		
PROJECT:			

METHOD OF PERFORMANCE CHECK/ CALIBRATION: Ref: APHA22nd ed 2130B

Ker: APHA22nd ed 2130

COMMENTS

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.

Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity	
Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1512036	
Equipment No.:		
Date of Calibration:	22/12/2016	

Remarks:

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

Approved Signatory:

Ms. Wong Po Yan, Pauline

Testing Engineer

Issue Date:

23/12/2016

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WORK ORDER:	HK1610731
DATE OF ISSUE:	23/12/2016
CLIENT:	LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1512036	
Equipment No.:		
Date of Calibration:	22/12/2016	
Date of next Calibation:	22/03/2017	

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance	
0	0.00		
4	4.17	4.3%	
10	9.99	-0.1%	
40	40.3	0.7%	
100	99.2	-0.8%	
400	411	2.8%	
1000	1000	0.0%	
	Tolerance Limit (±)	10%	

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



Information supplied	l by customer:		
CONTACT:	MR. SAM LAM	WORK ORDER:	HK1710202
CLIENT:	LAM GEOTECHNICS LIMITED		
DATE RECEIVED:	14/3/2017		
DATE OF ISSUE:	15/3/2017		
ADDRESS:	11/F, CENTRE POINT, 181-185, G	LOUCESTER ROAI),
	WANCHAI, HONG KONG		
PROJECT:			

METHOD OF PERFORMANCE CHECK/ CALIBRATION: Ref: APHA22nd ed 2130B

COMMENTS

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.

Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity	
Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1512036	
Equipment No.:		
Date of Calibration:	15/03/2017	

Remarks:

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

Approved Signatory:

Ms. Wong Po Yan, Pauline Testing Engineer Issue Date:

15/3/2017

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WORK ORDER:	HK1710202
DATE OF ISSUE:	15/3/2017
CLIENT:	LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1512036	
Equipment No.:		
Date of Calibration:	15/03/2017	
Date of next Calibation:	15/06/2017	

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance	
0	0.00		
4	3.99	-0.2%	
10	9.70	-3.0%	
40	40.4	1.0%	
100	95.0	-5.0%	
400	404	1.0%	
1000	1000	0.0%	
	Tolerance Limit (±)	10%	

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



TISCH ENVIRONMENTAL, INC. 145 SOUTH MIAMI AVE VILLAGE OF CLEVES, OH 45002 513.467.9000 877.263.7610 TOLL FREE 513.467.9009 FAX

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

	ay 20, 2010 Tisch	6 Rootsmeter Orifice I.I		438320 3166	Ta (K) - Pa (mm) -	293 - 748.03
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1	NA	NA	1.00	1.4270	3.2	2.00
2	NA	NA	1.00	1.0220	6.4	4.00
3	NA	NA	1.00	0.9100	7.9	5.00
4	NA	NA	1.00	0.8730	8.8	5.50
5	NA	NA	1.00	0.7180	12.7	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
0.9967 0.9925 0.9904 0.9892 0.9840	0.6985 0.9711 1.0883 1.1332 1.3705	1.4150 2.0010 2.2372 2.3464 2.8299	0.9957 0.9915 0.9893 0.9882 0.9830	0.6977 0.9701 1.0872 1.1320 1.3691	0.8851 1.2517 1.3995 1.4678 1.7702
Qstd slop intercept coefficie v axis =	t (b) = ent (r) =	2.10714 -0.05158 0.99978 	Qa slop intercep coeffici	t (b) =	1.31946 -0.03226 0.99978

CALCULATIONS

Vstd = Diff. Vol[(Pa-Diff. Hg)/760](298/Ta)
Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa] Qa = Va/Time

For subsequent flow rate calculations:

Qstd = $1/m\{ [SQRT(H2O(Pa/760)(298/Ta))] - b \}$ Qa = $1/m\{ [SQRT H2O(Ta/Pa)] - b \}$



Location

Equipment no.

CMA1b

HVS001

Calibration Date

:

:

Calibration Due Date

CALIBRATION OF CONTINUOUS FLOW RECORDER

:

				Ambient C	Condition			
Temperature, T _a		292		Kelvin	Pressure, P _a	1	1	022 mmHg
			Orifice	Transfer Sta	Indard Inform	ation		
Equipment No.		Ori002		Slope, m _c	2.107	14	Intercept, bc	-0.05158
Last Calibration Date		20-May-1	6		(H	xP _a /	1013.3 x 298 /	T _a) ^{1/2}
Next Calibration Date	alibration Date 20-May-17 = $m_c \times Q_{std} + b_c$							
				Calibratio	n of TSP			
Calibration	Ma	nometer R	eading	a	std	Con	tinuous Flow	IC
Point	н	inches of v	water)	(m ³ /	/ min.)	R	ecorder, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-	axis		(CFM)	Y-axis
1	1.5	1.5	3.0	0.8	3584		22	22.3201
2	2.4	2.4	4.8	1.0)794		32	32.4656
3	3.8	3.8	7.6	1.3	3518		41	41.5965
4	5.2	5.2	10.4	1.5	5772		48	48.6984
5	6.5	6.5	13.0	1.7	7605		52	52.7566
By Linear Regression of Y o	on X							
	Slope, m	=	33.0	6324	In	tercept, b	= -5.	.0111
Correlation C	Coefficient*	=	0.9	938				
Calibration	Accepted	=	Yes	/ No **	_			
			-		_			

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been Remarks :

re-ass	signed from	n EL452 to HVS001 with re	spect to the update in quality management system.		
Calibrated by	:	Jackey MA	Checked by	:	Pauline Wong
Date	:	16-Feb-17	Date	:	16-Feb-17



Location	:	CMA2a	Calibration Date	:	16-Feb-17
Equipment no.	:	HVS002	Calibration Due Date	:	16-Apr-17

CALIBRATION OF CONTINUOUS FLOW RECORDER

				Ambient C	ondition			
Temperature, T _a		292		Kelvin	Pressure, P _a	l	1()22 mmHg
			Orifice	Transfer Sta	ndard Inform	ation		
Equipment No.		Ori002		Slope, m _c	2.107	14	Intercept, bc	-0.05158
Last Calibration Date		20-May-1	6		(H	x P _a / 1	013.3 x 298 /	$(T_a)^{1/2}$
Next Calibration Date		20-May-1	7		=	m _c	$x Q_{std} + b_c$	
				Calibration	n of TSP			
Calibration	Ma	nometer Re	eading	Q	std	Con	inuous Flow	IC
Point	H (inches of v	water)	(m ³ /	min.)	Re	ecorder, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-a	ixis		(CFM)	Y-axis
1	1.7	1.7	3.4	0.9	123		30	30.4365
2	2.6	2.6	5.2	1.1	224		36	36.5238
3	4.2	4.2	8.4	1.4	199		44	44.6402
4	5.5	5.5	11.0	1.6	214		50	50.7275
5	6.9	6.9	13.8	1.8	131		56	56.8148
By Linear Regression of Y o	n X							
	Slope, m	=	29.0	0457	Int	tercept, b	= 3.8	3086
Correlation C	oefficient*	=	0.9	996				
Calibration	Accepted	=	Yes	/ No **				

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

Remarks : As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been

re-ass	signed from	EL449 to HVS002 with res	spect to the update in quality management system.		
Calibrated by	:	Jackey MA	Checked by	:	Pualine Wong
Date	:	16-Feb-17	Date	:	16-Feb-17



Location	:	СМАЗа	Calibration Date	:	23-Feb-17
Equipment no.	1	HVS012	Calibration Due Date	:	23-Apr-17

CALIBRATION OF CONTINUOUS FLOW RECORDER

				Ambient Con	lition					
Temperature, T _a		29	1	Kelvin Pr	essure, P _a	-	1017	mmHg		
			Orifice T	ransfer Standa	rd Information					
Equipment No.		Ori00	2	Slope, m _c	2.10714	Intercept, b	c	-0.05158		
Last Calibration Date		20-May-16			(HxPa/	1013.3 x 298	/Ta) 1/2	2		
Next Calibration Date		20-May-	17		= m _c	$x Q_{std} + b_c$				
		-		Calibration of	TSP					
Calibration Point		nometer F (inches of		Q _{std} (m ³ / m		tinuous Flow ecorder, W	(W(P _e /10	IC 013.3x298/T _a) ^{1/2} /35.31		
· · · · · · · · · · · · · · · · · · ·	(up)	(down)	(difference)	X-axi	5	(CFM)		Y-axis		
1	1.3	1.3	2.6	0.800	3	30		30 30.4		30.4141
2	2.2	2.2	4.4	1.033	7	36		36.4969		
3	3.5	3.5	7.0	1.297	t.	43		43.5935		
4	4.5	4.5	9.0	1.467)	48		48.6625		
5	5.6	5.6	11.2	1.634	3	52		52.7177		
By Linear Regression of Y	on X						-			
	Slope, m	=	26.9	932	Intercept, b	=	8.7224			
Correlation Co	efficient*	-	0.99	97		0				
Calibration A	Accepted	=	Yes/	4 0 **						

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

Remarks : As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been

			update in quality management system.		
Calibrated by	3	Jackey MA	Checked by	Ť	Pauline Wong
Date	3	23-Feb-17	Date	-	23-Feb-17



Location	1	CMA4a	Calibration Date	\$	23-Feb-17
Equipment no.		HVS004	Calibration Due Date	:	23-Apr-17

CALIBRATION OF CONTINUOUS FLOW RECORDER

		Ambient (Condition				
Femperature, T _a	291	Kelvin	Pressure, P _a	1017	mmHg		
	Orifi	ce Transfer Sta	Indard Information				
Equipment No.	Ori002	Slope, m _c	2.10714	Intercept, bc	-0.05158		
Last Calibration Date	20-May-16	(HxP _a /1013.3 x 298/T _a) ^{1/2}					
Next Calibration Date	20-May-17	$= m_c \times Q_{std} + b_c$					
		Calibratio	n of TSP				
Calibration	Manometer Reading	Q	std C.	ontinuous Flow	IC		

Point	н (inches of	water)	(m ³ / min.)	Recorder,	W (W(P ₂ /1013.	3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-axis	(CFM)		-axis
1	1.3	1.3	2.6	0.8003	20	2	0.2760
2	2.2	2.2	4.4	1.0337	32	3	2.4417
3	3.4	3.4	6.8	1.2791	40	4	0.5521
4	4.4	4.4	8.8	1.4517	48	4	8.6625
5	5.6	5.6	11.2	1.6346	53	5	3.7315
By Linear Regression o	f Y on X						
	Slope, m	(a	39.967	78	Intercept, b =	-10.4229	
Correlation Coefficient*		=	0.9953				
Calibrati	ion Accepted	=	Yes/Ne)**			

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

Remarks : As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been

Calibrated by Jackey MA Checked by :	Pauline Wong



Location Equipment no.

	CMA5b	
_	HVS010	

Calibration Date Calibration Due Date 23-Feb-17 23-Apr-17

CALIBRATION OF CONTINUOUS FLOW RECORDER

.

				Ambient Con					
emperature, T _a		291	1	Kelvin Pr	essure, P _a		1017 mmHg		
		-	Orifice	Transfer Standa	ard Information				
Equipment No.		Ori002		Slope, m _c	Slope, m _c 2.10714 Intercept, bc -(
Last Calibration Date		20-May-1	16	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$					
Next Calibration Date		20-May-1	17	$= m_c \times Q_{std} + b_c$					
				Calibration of	TSP				
Calibration	Mai	nometer R	eading	Q std	C	ontinuous Flow	IC		
Point	н	inches of	water)	(m ³ / mi		Recorder, W	and the second second		
1 onit		inches of	water	(m / m	n.)	Recorder, w	(W(P _a /1013.3×298/T _a) ^{1/2} /35.31		
	(up)	(down)	(difference)	X-axis		(CFM)	Y-axis		
1	1.4	1.4	2.8	0.8296	5	36	36.4969		
2	2.2	2.2	4.4	1.0337		42	42.5797		
3	3.6	3.6	7.2	1.3155		52	52.7177		
4	4.6	4.6	9.2	1.4838		57	57.7867		
5	5.8	5.8	11.6	1.6631		63	63.8695		
y Linear Regression of Y o	n X								
	Slope, m	=	33.0	908	Intercept, b	9 = 8	.8257		
Correlation Co	pefficient*	(<u>∓</u>))	0.99	996					
Calibration	Accepted	ré.	Yes/	No**					

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

Remarks : As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been re-assigned from EL222 to HVS010 with respect to the update in quality management system.

Calibrated by Date Jackey MA 23-Feb-17

Checked by Date Pauline Wong 23-Feb-17



Location Equipment no. CMA6a HVS013

Calibration Date	1	
Calibration Due Date	:	

23-Feb-17 23-Apr-17

CALIBRATION OF CONTINUOUS FLOW RECORDER

Temperature, T _a	291		Ambient Condition Kelvin Pressure, Pa			1017 mmHg				
remperature, ra		29		Reivingrie						
			Orifice T	A STREET OF COMPANY OF THE STREET	ard Information					
Equipment No.		Ori002		Slope, m _c						
Last Calibration Date		20-May-1	6		(H x P _a / 1013.3 x 298 / T _a) ^{1/2}					
Next Calibration Date		20-May-1	7	$= m_c \times Q_{std} + b_c$						
	-			Calibration o	f TSP					
Calibration	Ма	nometer R	eading	Q std	Co	ontinuous Flow		IC		
Point		linghan -f	unter l	. 3		Recorder, W		10 0-000 T 1805 01		
Point	H (inches of water)		(m ³ / min.)		Recorder, w		(W(P_1013.3x298/T_) ¹² /35.31			
	(up)	(down)	(difference)	X-axis	s	(CFM)	Y-axis			
1	1.5	1.5	3.0	0.857	8	34	34.4693			
2	2.4	2.4	4.8	1.078	6	42		42.5797		
3	3.7	3.7	7.4	1.333	3	51		51.7039		
4	4.9	4.9	9.8	1.530	6	57		57.7867		
5	6.2	6.2	12.4	1.718	7	64		64.8833		
By Linear Regression of Y or	ηX									
	Slope, m	ä	34.9	914	Intercept, b) = 4	.6626			
		0.99	996			1 2 4 M KA				
Calibration Accepted = Yes		Yes/	NO**							

* if Correlation Coefficient < 0.990, check and recalibration again.

:

** Delete as appropriate.

Remarks : As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been re-assigned from EL551 to HVS013 with respect to the update in quality management system.

Calibrated by Date Jackey MA 23-Feb-17 Checked by Date Pauline Wong 23-Feb-17