



PROJECT No.: TCS/00512/09

DSD CONTRACT NO. DC/2009/13
CONSTRUCTION OF SEWAGE TREATMENT WORKS AT
YUNG SHUE WAN AND SOK KWU WAN

YUNG SHUE WAN PORTION AREA
BASELINE AIR AND NOISE MONITORING REPORT
(VOLUME 1)

PREPARED FOR
LEADER CIVIL ENGINEERING CORPORATION LIMITED

Quality Index

Date	Reference No.	Prepared By	Approved By
30 August 2010	TCS00512/09/600/R0061v3		
		Nicola Hon Environmental Consultant	T.W. Tam Environmental Team Leader

Version	Date	Description
1	19 August 2010	First Submission
2	27 August 2010	Amended against IEC's comments on 26 August 2010
3	30 August 2010	Amended against IEC's comments on 30 August 2010

Scott Wilson CDM Joint Venture

Chief Engineer/Harbour Area Treatment Scheme
Drainage Services Department
5/F Western Magistracy
2A Pok Fu Lam Road
Hong Kong

Your reference:

Our reference: 05117/6/16/341133

Date: 31 August 2010

Attention: Mr. C K Au

BY FAX ONLY

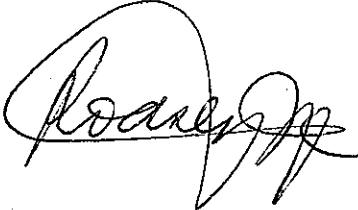
Dear Sir

Contract No. DC/2009/13

Construction of Sewage Treatment Works at Yung Shue Wan and Sok Kwu Wan
Baseline Air and Noise Monitoring Report (Volume 1) – Yung Shue Wan

We refer to the Environmental Permit (EP-282/2007) and the email from the environmental team, Action-United Environmental Services and Consulting (AUES) with the revised baseline air and noise monitoring report (volume 1) - Yung Shue Wan, dated 30 August 2010 for the captioned project. We do not have further comment and have verified the captioned report.

Yours faithfully
SCOTT WILSON LTD



Rodney Ip

ICWR/KKK/ecwc

cc Leader Civil Engineering (Attn: Mr Vincent Chan)
AUES (Attn: Mr T.W. Tam)
ER/LAMMA (Attn: Mr Toby Ng)
CDM (Attn: Mr Mark Sin)

EXECUTIVE SUMMARY

- ES.01. The Leader Civil Engineering Corporation Limited (Leader) has been awarded the *Contract DC/2009/13 - Construction of Sewage Treatment Works at Yung Shue Wan and Sok Kwn Wan* (the Project) by the Drainage Services Department (DSD) on 4 May 2010.
- ES.02. This Project is part of an overall plan approved under a statutory EIA for Outlying Islands Sewerage Stage 1 Phase 2 Package J – Sok Kwu Wan Sewage Collection and Treatment (Register No. AEIAR-075/2003) and Disposal Facilities and Outlying Islands Sewerage Stage 1 Phase 1 Package C – Yung Shue Wan Sewage Treatment Works and Outfall (Register No. EIA-124/BC). The Environmental Permit (No. EP-281/2007/A and EP-282/2007) for the Project have been obtained by the DSD on 29 June 2007 for the relevant works.
- ES.03. The Project involves construction of sewage treatment works at Sok Kwu Wan and Yung Shue Wan with a capacity of 1,430m³/day and 2,850m³/day respectively to provide secondary treatment, construction of 2 pumping stations at Sok Kwu Wan and 1 pumping station at Yung Shue Wan, construction of submarine outfall from the coastline and laying of underground sewerage pipes.
- ES.04. Action-United Environmental Services and Consulting (AUES) has been commissioned by Leader as the Environmental Team (ET) to implement the relevant EM&A program.
- ES.05. For ease of reporting, the proposed EM&A programme for baseline and impact monitoring is spilt to following two stand-alone parts:
- (a) Proposed EM&A Programme for Baseline and Impact Monitoring – Sok Kwu Wan (under EP No. EP-281/2007/A);
 - (b) Proposed EM&A Programme for Baseline and Impact Monitoring – Yung Shue Wan (under EP No. EP-282/2007)
- ES.06. According to the Particular Specification (PS) Section 25 and the Environmental Permit No. EP-282/2007, the overall scope of monitoring at Yung Shue Wan Working Site includes air quality, construction noise, water quality, and ecology survey with site environmental audit. These should be undertaken in accordance with the Environmental Monitoring and Audit Manual of Yung Shue Wan by the ET.
- ES.07. To base on the EM&A Manual of Yung Shue Wan requirements, baseline water quality monitoring should be carried out consecutive six months before the marine work commencement. Besides, ecology of coral survey should be undertaken in prior of marine work. Consider a long period baseline water quality monitoring to request and marine work commencement should be at after six months later, so baseline report of Yung Shue Wan is divided to two reports one for air and noise and one for water quality and ecology survey to submit.
- ES.08. This Baseline Monitoring Report Volume 1 presents the performance criteria of air and noise to adopt at Yung Shue Wan Portion Working Site of construction phase.
- ES.09. Before the Project award, there has one current DSD project, was commenced at Yung Shu Wan named “*DC/2007/18 Yung Shue Wan and Sok Kwu Wan Village Sewerage, Stage 1 Works*”. However the scale and scope is not covered in the EP-282/2007 as a Designated Project.
- ES.10. In total, 14 consecutive days of air quality and noise monitoring had been undertaken at the designated locations between **31 July 2010** and **16 August 2010**. During the noise and air quality baseline monitoring period, there were no construction activities of this project or other external influencing factors of significant concern observed by the ET.
- ES.11. This report summarizes the key findings and presents the process and rationale behind determining a set of Action and Limit Levels (A/L Levels) of air quality and noise based on the baseline data. These A/L Levels will serve as the yardsticks for assessing the acceptability of the environmental impact during the construction phase impart monitoring. They are statistical in nature and derived according to the criteria set out in the EM&A Manual.

ES.12. Results of the derived Action and Limit Levels for air and noise are given in *Tables ES-1* and *ES-2* as follows.

Table ES-1 Action and Limit Levels for Air Quality Monitoring

Monitoring Stations	Action Level ($\mu\text{g}/\text{m}^3$)		Limit Level ($\mu\text{g}/\text{m}^3$)	
	1-Hour	24-Hour	1-Hour	24-Hour
AC02b	288	161	500	260
AC04c	290	176	500	260

Table ES-2 Action and Limit Levels for Construction Noise Monitoring

Recommended Action & Limit Levels of Construction Noise		
Monitoring Location	Action Level	Limit Level
	0700-1900 hours on normal weekdays	
NC05	When one or more documented complaints are received	75 dB(A) of Leq(30min) during normal hours from 0700 to 1900 hours on normal weekdays, reduced to 70 dB(A) of Leq(30min) for schools and 65 dB(A) during school examination periods

ES.13. Action and Limit (A/L) levels for water quality will be established upon baseline water quality monitoring completion to be provided in future of the stand-alone Submission “*YUNG SHUE WAN PORTION AREA – BASELINE REPORT VOLUME 2 WATER QUALITY AND ECOLOGY SURVEY*”.

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1 INTRODUCTION

PROJECT BACKGROUND

- 1.01 The Leader Civil Engineering Corporation Limited (Leader) has been awarded the *Contract DC/2009/13 - Construction of Sewage Treatment Works at Yung Shue Wan and Sok Kwn Wan* (the Project) by the Drainage Services Department (DSD) on 4 May 2010. The Project is part of an overall plan approved under a statutory EIA for Outlying Islands Sewerage Stage 1 Phase 2 Package J – Sok Kwu Wan Sewage Collection and Treatment (Register No. AEIAR-075/2003) and Disposal Facilities and Outlying Islands Sewerage Stage 1 Phase 1 Package C – Yung Shue Wan Sewage Treatment Works and Outfall (Register No. EIA-124/BC). The Environmental Permit (No. EP-281/2007/A and EP-282/2007) for the Project have been obtained by the DSD on 29 June 2007 for the relevant works.
- 1.02 The Project involves construction of sewage treatment works at Sok Kwn Wan and Yung She Wan with a capacity of 1,430m³/day and 2,850m³/day respectively to provide secondary treatment, construction of 2 pumping stations at Sok Kwu Wan and 1 pumping station at Yung Shue Wan, construction of submarine outfall from the coastline and laying of underground sewerage pipeline. The site layout plan for the captioned work under the Project is showing in *Appendix A*
- 1.03 According to the Particular Specification (PS) and *Appendix 25* of the Project, Leader should establish an Environmental Team to implement the environmental monitoring and auditing works to fulfill the requirements as stipulated in the Environmental Monitoring and Audit (EM&A) Manuals.
- 1.04 Action-United Environmental Services and Consulting (AUES) has been commissioned by Leader as the ET to implement the relevant EM&A program. Organization chart of the Environmental Team for the Project is shown in *Appendix B*. For ease of reporting, the proposed EM&A programme for baseline and impact monitoring is spilt to following two stand-alone parts:
- (a) Proposed EM&A Programme for Baseline and Impact Monitoring – Sok Kwu Wan (under EP No. EP-281/2007/A varied on 23 September 2009)
 - (b) Proposed EM&A Programme for Baseline and Impact Monitoring – Yung Shue Wan (under EP No. EP-282/2007)
- 1.05 According to the EM&A Manual of Yung Shue Wan, baseline water quality monitoring should be carried out consecutive six months before the marine work commencement; ecology of coral survey should be undertaken in prior of marine work. Consider a long period baseline water quality monitoring to request and marine work commencement should be at after six months later, so baseline reports of Yung Shue Wan are divided to two report volumes i.e. the Volume 1 of air quality and noise monitoring; and the Volume II of water quality monitoring and ecology survey for subsequently submit. This report is the Volume 1 of baseline monitoring for air quality and noise at Yung Shue Wan.
- 1.06 Currently at Yung Shue Wan, there has one current project, named “*DC/2007/18 Yung Shue Wan and Sok Kwu Wan Village Sewerage, Stage 1 Works*”. However the scale and scope is not covered in the EP-282/2007 as a Designated Project. The contract DC/2007/18 works was commenced in April 2008 and also ongoing. Under that DSD contract as EM&A programme does not requested. Thus no air quality or construction noise or water quality monitoring work is undertaken; and also no Action/Limit levels established for that contract.
- 1.07 As part of the EM&A program, air quality and noise of the baseline monitoring were undertaken in total, 14 consecutive days at the designated locations between **31 July 2010** and **16 August 2010**. During the noise and air quality baseline monitoring period, there were no construction activities of this project or other external influencing factors of significant concern observed by the ET.

- 1.08 This “Baseline Monitoring Report of volume 1” is present including the project background, monitoring methodology and also established the proposed Action/Limit (A/L) levels for air quality and noise for the subsequent EM&A program during the construction period for the Project.

REPORT STRUCTURE

- 1.09 The “Baseline Monitoring Report of Volume 1” is structured into the following sections:

SECTION 1 INTRODUCTION

SECTION 2 SUMMARY OF BASELINE MONITORING REQUIREMENTS

SECTION 3 BASELINE MONITORING METHODOLOGIES

SECTION 4 BASELINE AIR QUALITY MONITORING

SECTION 5 BASELINE NOISE MONITORING

SECTION 6 CONCLUSION & RECOMMENDATION

2 SUMMARY OF BASELINE MONITORING REQUIREMENTS

ENVIRONMENTAL ASPECT

- 2.01 The EM&A baseline monitoring program cover the following environmental issues:
- Air quality;
 - Construction noise; and
 - Marine Water quality;
- 2.02 The ET implements the EM&A programme in accordance with the aforementioned requirements. Due to this report is only presented Air and Noise of two environmental issues, so marine water is absent to present in this report. Detailed air and noise of the EM&A program are presented in the following sub-sections.
- 2.03 A summary of the Air and noise monitoring parameters is presented in *Table 2-1*.

Table 2-1 Summary of the Air and Noise monitoring parameters of EM&A Requirements

Environmental Issue	Parameters
Air Quality	<ul style="list-style-type: none"> • 1-hour TSP Monitoring by Real-Time Portable Dust Meter; and • 24-hour TSP Monitoring by High Volume Air Sampler.
Noise	<ul style="list-style-type: none"> • Leq (30min) during normal working hours; and • Leq (15min) during Restricted Hours.

MONITORING LOCATIONS

Air Quality

- 2.04 Two designated monitoring stations, AC02a located at Yung Shue Wan Refuse Transfer Station and AC04 located at residential area nearby Yung Shue Wan football pitch, were recommended in the *EM&A Manual Section 2.5*. In order to identify and seek for the access of the air monitoring locations designated in the EM&A Manual, site visit was conducted by Leader and ET.
- 2.05 At the site visit, all designated monitoring locations were identified however the premises for high volume sampler installation were objected by the owner or the residents of nearby. So, an alternative air monitoring locations were proposed in accordance with the criteria set out in *EM&A manual Section 2.5.2 and 2.5.3*. The proposed alternative air monitoring stations was accepted by the ER and IEC, and EPD endorsed. Details of renewed air monitoring stations are described in *Table 2-2*. The graphical of air monitoring stations is shown in *Appendix C*.

Table 2-2 Location of the Renewed Air Quality Monitoring Station

Sensitive Receiver	Location	Remarks
AC02b	The entrance of RE's site office	As Location is only approximately 50 meters adjacent to the designated location AC02a
AC04c	Next to a power transformer station TP208 Yung Shue Wan and adjacent to the road direct to the construction site	As it is located in front of the residential area and less than 50 meters distance from the designated location AC04.

Construction Noise

- 2.06 According to *EM&A Manual Section 3.4*, one noise sensitive receivers (NC05) designated for the construction noise monitoring was recommended at Yung Shue Wan Portion Area of the Project. The designated monitoring station is identified and successfully granted the premises. The detailed construction noise monitoring station is described in *Table 2-3* and graphical is shown in *Appendix C*.

Table 2-3 Location of Construction Noise Monitoring Station

Sensitive Receiver	Location
NC05	Roof of North Lamma Clinic

MONITORING FREQUENCY AND PERIOD

2.07 The Baseline monitoring was carried out in the EM&A programme is basically in accordance with the requirements in *EM&A Manual Sections 2.6 and 3.5*. The air quality and noise monitoring requirements are listed as follows:

Air Quality Monitoring

Parameters: 1-hour TSP and 24-hour TSP.

Frequency: Daily for 24-hour TSP and three times a day for 1-hour TSP.

Duration: 14 consecutive days at before the construction commencement

Noise Monitoring

Parameters: Leq30 min, and Leq5 min, L10 and L90 as reference.

Frequency: Daily of continuous measurement:

- Leq30min for normal weekdays from 0700 – 1900;
- 3 consecutive Leq5min at restrict hour from 1700 – 2300;
- 3 consecutive Leq5min for restrict hour from 2300 – 0700 next day;
- 3 consecutive Leq5min for Sunday or public holiday from 0700 – 2300;

Duration: 2 weeks at before the construction commencement

MONITORING EQUIPMENT

Air Quality Monitoring

2.08 The 24-hour and 1-hour TSP levels shall be measured by following the standard high volume sampling method as set out in the *Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50), Appendix B*. If the ET proposes to use a direct reading dust meter to measure 1-hour TSP levels, it shall submit sufficient information to the IEC to approve.

2.09 The filter paper of 24-hour TSP measurement shall be determined by HOKLAS accredited laboratory.

Noise Monitoring

2.10 Sound level meter in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications shall be used for carrying out the noise monitoring. The sound level meter shall be checked using an acoustic calibrator. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in ms⁻¹.

DETERMINATION OF AIR AND NOISE CRITERIA

2.11 According to the Yung Shue Wan EM&A Manual *Sections 2.8.1 and 3.6.4*, the baseline monitoring results form the basis for determining the air quality and construction noise criteria set up, namely Action and Limit levels. *Table 2-4* and *Table 2-5* below shows the air quality and construction noise criteria to be used

Table 2-4 Derivation of Action and Limit Levels for Air Quality

Parameters	Action Level in µg/m ³	Limit Level in µg/m ³
24-hour TSP (µg/m³)	For baseline level ≤200 µg/m ³ Action level = (Baseline * 1.3 + Limit level)/2; For baseline level ≥200 µg/m ³ Action level = Limit level	260

Parameters	Action Level in $\mu\text{g}/\text{m}^3$	Limit Level in $\mu\text{g}/\text{m}^3$
1-hour TSP ($\mu\text{g}/\text{m}^3$)	For baseline level $\leq 384 \mu\text{g}/\text{m}^3$ Action level = (Baseline * 1.3 + Limit level)/2; For baseline level $\geq 384 \mu\text{g}/\text{m}^3$ Action level = Limit level	500

Table 2-5 Derivation of Action and Limit Levels for Construction Noise

Time Period	Action Level	Limit Level in dB(A)
Normal Hours 0700-1900 hours on normal weekdays	When one documented complaint is received	75*

Note: * Reduces to 70 dB(A) for schools and 65 dB(A) during the school examination periods.

- 2.12 Action and Limit levels set up to be used for the impact monitoring results with air quality and construction noise comparison. Should non-compliance of the air quality and construction noise criteria occur, the relevant action should be undertaken as stipulated in the Manual **Table 2-3** and **Table 3-3** “Event/Action Plan (Air Quality and Construction Noise)”, which is attached in **Appendix D**.

3 BASELINE MONITORING METHODOLOGIES

3.01 The baseline monitoring program of air and noise were conducted between **31 July 2010** and **16 August 2010**. During the baseline monitoring period, there were no construction activities of this project or other external influencing factors of significant concern observed by the ET

LOCATION OF BASELINE MONITORING

3.02 Baseline air quality and noise monitoring has been undertaken at the designated location or renewed location. The detailed information of monitoring stations to be referred to **Tables 2-2** and **2-3**, and the graphical of monitoring locations is shown in **Appendix C** in this report.

MONITORING EQUIPMENT AT BASELINE MONITORING

3.03 The monitoring equipments using for the EM&A program was proposed by ET and verified by prior of monitoring work commencement. The detail of equipments using for baseline monitoring is listed in **Table 3-1** as below

Table 3-1 Monitoring Equipments Used in EM&A Program

Equipment	Model
<i>Air Quality Monitoring</i>	
High Volume Sampler – 24-hour TSP	TE-5170 TSP MFC Sampler System
Calibration Kit – 24-hour TSP	TISCH Model TE-5028A
Portable dust meter – 1-hour TSP	TSI DustTrak Aerosol Monitor Model 8520
<i>Construction Noise</i>	
Integrating Sound Level Meter	B&K Type 2238
Calibrator	B&K Type 4231
Portable Wind Speed Indicator	Testo Anemometer

MONITORING PROCEDURES

Air Quality

1-hour TSP

3.04 The 1-hour TSP monitor, a TSI DustTrak Aerosol Monitor Model 8520 was used for baseline monitoring, which is a portable, battery-operated laser photometer. The 1-hour TSP meter provides a real time 1-hour TSP measurement based on 90° light scattering. The 1-hour TSP monitor consisted of the following:

- a. A pump to draw sample aerosol through the optic chamber where TSP is measured;
- b. A sheath air system to isolate the aerosol in the chamber to keep the optics clean for maximum reliability; and
- c. A built-in data logger compatible with Windows based program to facilitate data collection, analysis and reporting.

3.05 The 1-hour TSP meter used is within the valid period, calibrated by the manufacturer prior to purchasing. Zero response of the instrument was checked before and after each monitoring event. Operation of the 1-hour TSP meter was follow manufacturer's Operation and Service Manual. A valid calibration certificate is attached in **Appendix E**.

24-hour TSP

3.06 The equipment used for 24-hour TSP measurement is a Tisch Environmental, Inc. Model TE-5170 TSP high volume air sampling system, which complied with EPA Code of Federal Regulation, Appendix B to Part 50. The High Volume Sampler (HVS) consists of the following:

- a. An anodized aluminum shelter;
- b. A 8"x10" stainless steel filter holder;
- c. A blower motor assembly;
- d. A continuous flow/pressure recorder;
- e. A motor speed-voltage control/elapsed time indicator;

- f. A 7-day mechanical timer, and
 - g. A power supply of 220v/50 hz
- 3.07 Prior of 24-hour TSP monitoring, the HVS was calibrated in accordance with the manufacturer's instruction using the NIST-certified standard calibrator (Tisch Calibration Kit Model TE-5028A). The 24-hour TSP Monitoring using the HVS was also processed in accordance with the manufacturer's Operations Manual. A valid calibration certificate of the calibration kit with the certificate of HVS calibrated is attached in *Appendix E*.
- 3.08 24-hour TSP was collected by the ET on filters of HVS and quantified by a local HOKLAS accredited laboratory, ALS Technichem (HK) Pty Ltd (ALS), upon receipt of the samples. The ET keeps all the sampled 24-hour TSP filters in normal air conditioned room conditions, i.e. 70% HR (Relative Humidity) and 25°C, for six months prior to disposal.

Construction Noise

- 3.09 Sound level meter listed above comply with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications, as recommended in Technical Memorandum (TM) issued under the Noise Control Ordinance (NCO), which was used for baseline noise monitoring. The valid calibration certificates for Sound Level Meter and Acoustical Calibrator were shown in *Appendix E*.
- 3.10 The noise measurement was performed with the meter set to FAST response and on the A-weighted equivalent continuous sound pressure level (Leq). Consecutive of Leq(5min) measurements were used as the monitoring parameter throughout the baseline monitoring period.
- 3.11 During the baseline monitoring, the sound level meter was mounted on a post at a height of about 1.2m and placed at the assessment point and oriented such that the microphone was pointed to the site with the microphone facing perpendicular to the line of sight. The windshield was fitted for the measurement. A free-field situation was performed for the baseline monitoring.
- 3.12 Prior baseline noise measurement, the accuracy of the sound level meter was checked using an acoustic calibrator generating a known sound pressure level at a known frequency. The calibration level from before and after the noise measurement agrees to within 1.0dB.

DATA MANAGEMENT AND DATA QA/QC CONTROL

- 3.13 The baseline monitoring data were handled by the ET's in-house data recording and management system.
- 3.14 The monitoring data recorded in the equipment were downloaded directly from the equipment at the end of each monitoring day. The downloaded monitoring data were input into a computerized database properly maintained by the ET. The laboratory results were input directly into the computerized database and checked by personnel other than those who input the data.
- 3.15 For monitoring parameters that require laboratory analysis, the local laboratory shall follow the QA/QC requirements as set out under the HOKLAS scheme for the relevant laboratory testing.

4 BASELINE AIR QUALITY MONITORING

4.01 The baseline monitoring schedule is presented in *Appendix F* and the monitoring results are detailed in the following sub-sections.

RESULTS OF AIR QUALITY MONITORING

4.02 Baseline air quality monitoring was carried out from **31 July 2010** to **13 August 2010**. The results for 24-hour and 1-hour TSP are summarized in *Tables 4-1* and *4-2*. The 24-hour TSP data are shown in *Appendix G*.

Table 4-1 Summary of 24-hour and 1-hour TSP Monitoring Results – AC02b

Date	24-hour TSP ($\mu\text{g}/\text{m}^3$)	1-hour TSP ($\mu\text{g}/\text{m}^3$)				
		Start Time	End Time	1 st Measurement	2 nd Measurement	3 rd Measurement
31-Jul-10	23	10:24	13:24	42	51	46
1-Aug-10	32	13:24	16:24	53	46	63
2-Aug-10	47	13:34	16:34	57	60	51
3-Aug-10	124	13:49	16:49	64	55	74
4-Aug-10	87	11:48	14:48	69	92	78
5-Aug-10	58	13:37	16:37	34	40	48
6-Aug-10	38	12:30	15:30	74	93	87
7-Aug-10	63	13:36	16:36	54	63	66
8-Aug-10	32	15:50	18:50	50	44	43
9-Aug-10	48	15:53	18:53	53	59	61
10-Aug-10	28	15:08	18:08	63	52	61
11-Aug-10	37	11:38	14:38	26	31	47
12-Aug-10	28	11:27	14:27	47	58	53
13-Aug-10	31	12:53	15:53	63	64	71
Average (Range)	48 (23 – 124)	Average (Range)		57 (26 – 93)		

Table 4-2 Summary of 24-hour and 1-hour TSP Monitoring Results – AC04c

Date	24-hour TSP ($\mu\text{g}/\text{m}^3$)	1-hour TSP ($\mu\text{g}/\text{m}^3$)				
		Start Time	End Time	1 st Measurement	2 nd Measurement	3 rd Measurement
31-Jul-10	50	13:30	16:30	54	58	60
1-Aug-10	140	10:17	13:17	48	44	51
2-Aug-10	107	10:20	13:20	63	40	43
3-Aug-10	79	10:38	13:38	74	83	80
4-Aug-10	73	14:58	17:58	85	71	64
5-Aug-10	99	10:26	13:26	42	38	47
6-Aug-10	67	15:35	18:35	81	86	93
7-Aug-10	58	10:11	13:11	46	65	53
8-Aug-10	26	12:44	15:44	119	78	52
9-Aug-10	43	12:42	15:42	49	56	50
10-Aug-10	36	11:00	14:00	59	54	67
11-Aug-10	62	14:46	17:46	45	37	22
12-Aug-10	57	14:31	17:31	59	55	56
13-Aug-10	93	09:46	12:46	75	62	64
Average (Range)	71 (26 – 140)	Average (Range)		60 (22 – 119)		

4.03 The meteorological data during the baseline monitoring period are summarized in *Appendix I*.

ACTION/LIMIT LEVELS FOR AIR QUALITY

- 4.04 Following the criteria shown in *Table 2-4* of this report, the proposed Action and Limit Levels for 24-hour and 1-hour TSP are listed in *Table 4-3*.

Table 4-3 Action and Limit Levels for Air Quality Monitoring

Monitoring Station	Action Level ($\mu\text{g}/\text{m}^3$)		Limit Level ($\mu\text{g}/\text{m}^3$)	
	1-hour TSP	24-hour TSP	1-hour TSP	24-hour TSP
AC02b	288	161	500	260
AC04c	290	176	500	260

Note: 1-hour & 24-hour TSP Action Level = (Baseline*1.3 + Limit level)/2

Discussion and Recommendations

- 4.05 The baseline monitoring was conducted from **31 July 2010** to **13 August 2010** during typical Hong Kong wet seasons. The baseline data so collected therefore represent the baseline air quality of the wet season immediately prior to commencement of the Project. They may not reflect the air quality conditions of dry seasons in Hong Kong, which are normally significantly different.
- 4.06 It is therefore recommended that the interpretation of the air quality monitoring data should take into account the influence of the seasonal changes, and the baseline conditions should be regularly reviewed, in particular during seasonal changes.

5 BASELINE NOISE MONITORING

5.01 The baseline monitoring schedules are presented in *Appendix F* and the measurement results are detailed in the following sub-sections.

RESULTS OF NOISE MONITORING

5.02 The baseline noise monitoring was undertaken between **1 August 2010** and **16 August 2010**. Due to the rainfall that affected the noise monitoring, two extra days monitoring were conducted after the tentative 14 consecutive days monitoring. The measurement data are shown in *Appendix G* and summarized in *Table 5-1*.

Table 5-1 Summaries of Noise Monitoring Results

Time Period	Mean ^(*)	Max ^(*)	Min ^(*)
Normal Daytime 0700-1900 – L_{eq} (30mins)	61.1	74.4	57.1
Restricted Hours 1900-2300 – L_{eq} (5mins)	58.9	77.7	52.6
Restricted Hours 2300-0700 of next day - L_{eq} (5mins)	56.6	72.3	53.5
Restricted Hours 0700-1900 holiday – L_{eq} (5mins)	57.1	63.7	53.0

Note Figures refer to the measurement recorded at the designated station during the entire baseline period for general reference.

(*) A façade correction of +3dB(A) has been added according to acoustical principles and EPD guidelines.

ACTION/LIMIT LEVELS FOR CONSTRUCTION NOISE

5.03 The Action and Limit Levels for construction noise are illustrated in *Table 5-2*

Table 5-2 Action and Limit Levels of Construction Noise Monitoring

Time Period	Action Level in dB(A)	Limit Level in dB(A)
0700-1900 hours on normal weekdays	When one documented complaint is received	75* dB(A)

Note: *Reduces to 70dB(A) for schools and 65dB(A) during the school examination periods.

Discussion and Recommendations

5.04 Any construction activities is intend to be carried out during restricted hours, the application construction noise permit (CNP) should be issued by EPD as before the work commencement. The construction noise at restricted hours work should be compliance with the acceptable level mentioned in CNP, and also the conditions stipulated in CNP to be followed.

6 CONCLUSIONS AND RECOMMENDATIONS

CONCLUSIONS

- 6.01 The baseline air and noise monitoring program was carried out during the period between **31 July 2010** and **16 August 2010** at the designated monitoring locations by the ET according to the Yung Shue Wan EM&A Manual. During the baseline monitoring, there were no construction activities undertaken under this Project.
- 6.02 Ecology of coral survey results and the Action and Limit (A/L) levels for water quality will be submitted and established upon baseline water quality monitoring completion to be provided in future of the stand-alone Submission “*YUNG SHUE WAN PORTION AREA – BASELINE REPORT VOLUME 2 WATER QUALITY AND ECOLOGY SURVEY*”.

RECOMMENDATIONS

- 6.03 Based on the baseline monitoring results, the recommended environmental performance criteria for air quality and construction noise are summarized as follows.

Table 6-1 Recommended Action and Limit Levels of Air Quality Monitoring

Recommended Action & Limit Levels of Air Quality				
Monitoring Station	Action Level ($\mu\text{g}/\text{m}^3$)		Limit Level ($\mu\text{g}/\text{m}^3$)	
	1-hour TSP	24-hour TSP	1-hour TSP	24-hour TSP
AC02b	288	161	500	260
AC04c	290	176	500	260

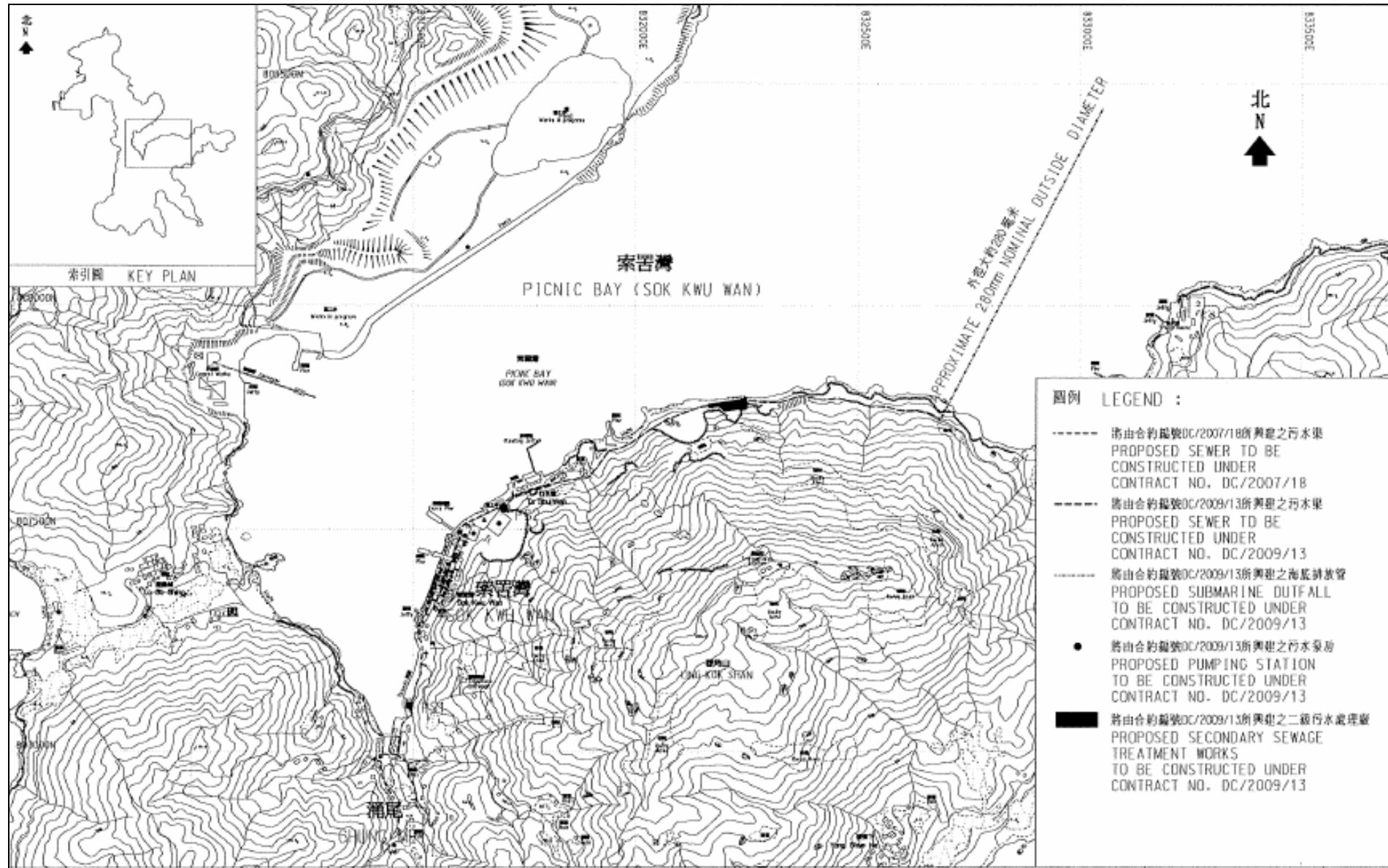
Table 6-2 Recommended Action and Limit Levels of Construction Noise Monitoring

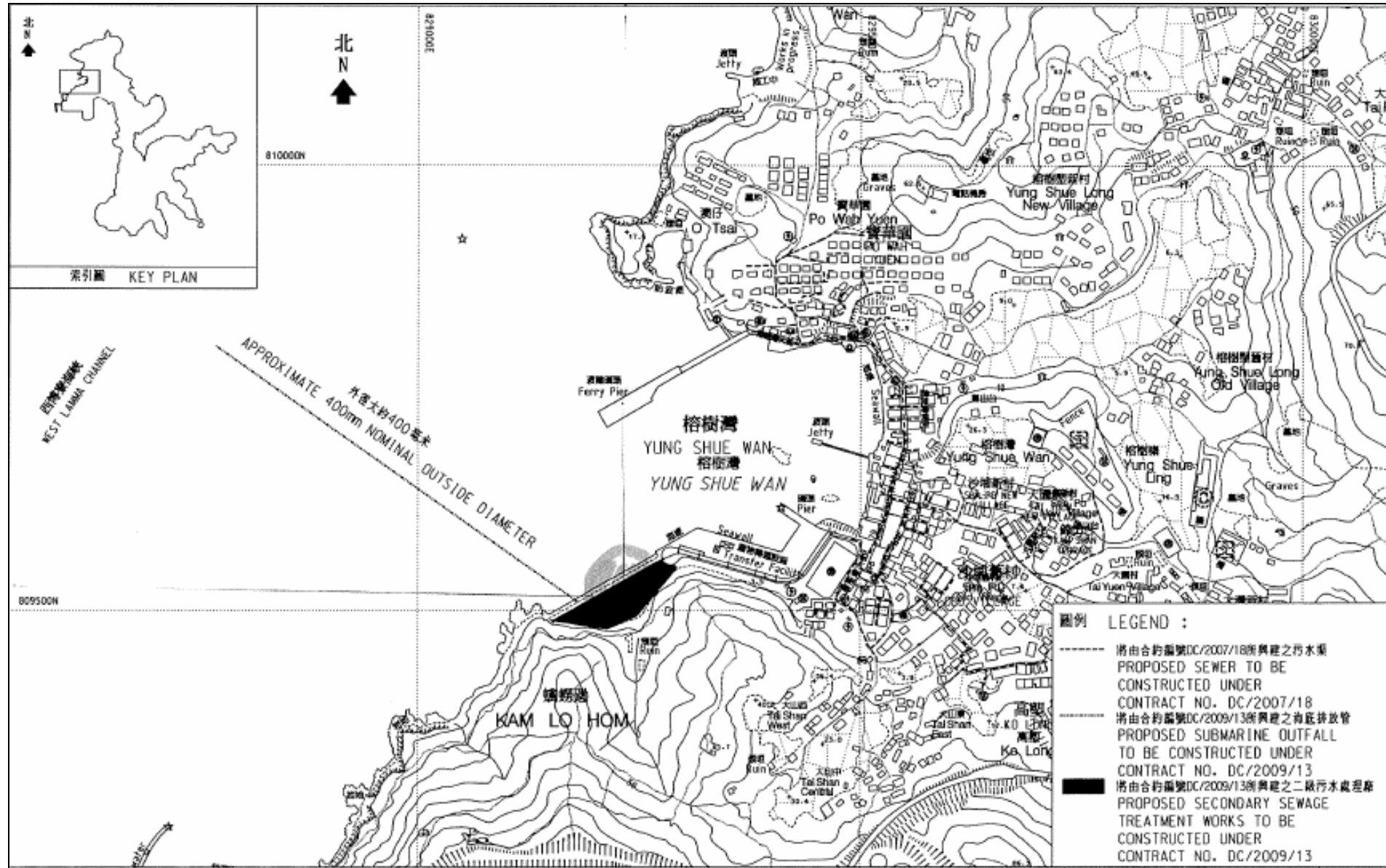
Recommended Action & Limit Levels of Construction Noise		
Monitoring Location	Action Level	Limit Level
	0700-1900 hours on normal weekdays	
NC05	When one or more documented complaints are received	75 dB(A) of Leq(30min) during normal hours from 0700 to 1900 hours on normal weekdays, reduced to 70 dB(A) of Leq(30min) for schools and 65 dB(A) during school examination periods

- 6.04 The baseline monitoring of air quality and noise was conducted during typical wet season (April to October) in Hong Kong. It is important to note that influence of seasonal changes should be taken into account when interpreting monitoring data obtained during dry season. Review of the baseline conditions may need to be conducted regularly, in particular during seasonal changes. If the changes in baseline conditions are evident, the environmental performance criteria should be re-established by agreement of the ER and IEC and submitted for EPD endorsement.
- 6.05 No any construction works can to be undertaken at restricted hours as without Construction Noise Permit.

Appendix A

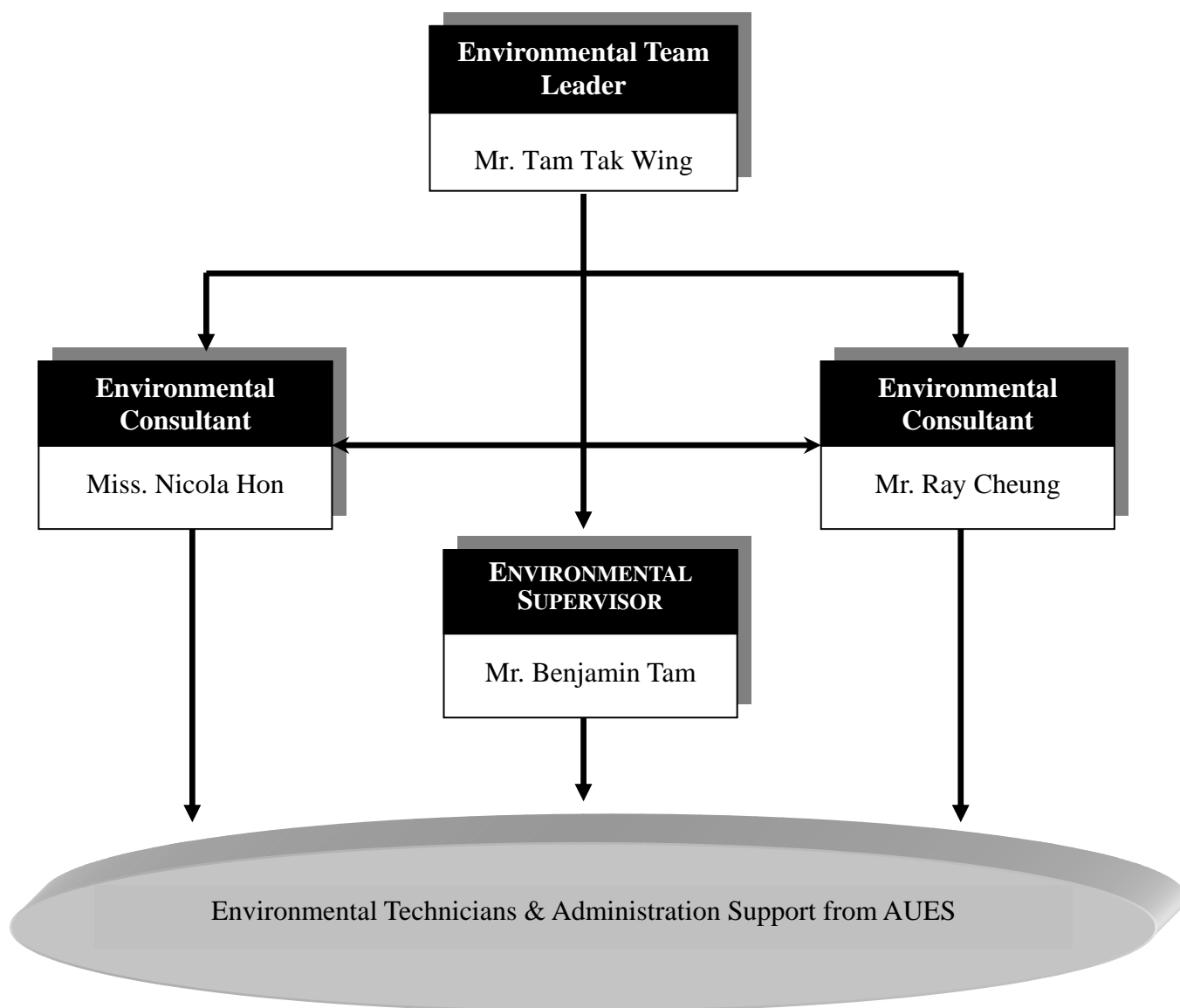
Project Site Layout Plan





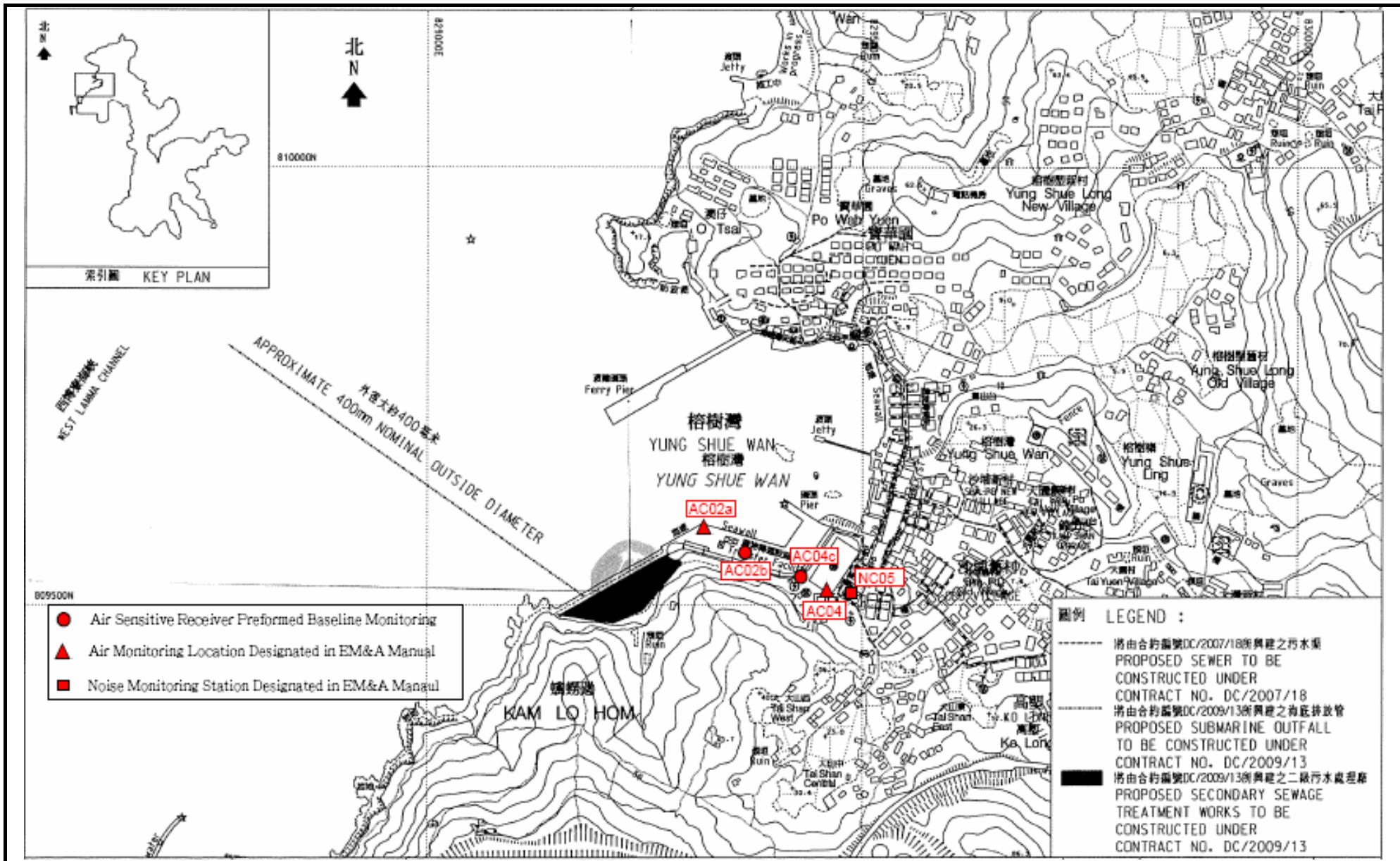
Appendix B

Organization Chart of Environmental Team



Appendix C

Monitoring Locations Designated in the EM&A Manual and Proposed Monitoring Locations (Air Quality and Noise)



Appendix D

Event/Action Plan

Air Quality

EVENT	ACTION	IC(E)	ER	CONTRACTOR
ACTION LEVEL				
1. Exceedance for one sample	<ol style="list-style-type: none"> 1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IC(E) and ER; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method. 	<ol style="list-style-type: none"> 1. Notify Contractor. 	<ol style="list-style-type: none"> 1. Rectify any unacceptable practice; 2. Amend working methods if appropriate.
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 1. Identify source; 2. Inform IC(E) and ER; 3. Advise the ER on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IC(E) and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IC(E) and ER; 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET on the effectiveness of the proposed remedial measures; 5. Supervise Implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. 	<ol style="list-style-type: none"> 1. Submit proposals for remedial to ER within 3 working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.
LIMIT LEVEL				
1. Exceedance for one sample	<ol style="list-style-type: none"> 1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform ER, Contractor and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IC(E) within 3 working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 1. Notify IC(E), ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IC(E) and ER to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IC(E), agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IC(E) within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Construction Noise

EVENT	ACTION	IC(E)	ER	CONTRACTOR
Action Level	<ol style="list-style-type: none"> 1. Notify IC(E) and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IC(E), ER and Contractor; 4. Discuss with the Contractor and formulate remedial measures; 5. Increase monitoring frequency to check mitigation effectiveness 	<ol style="list-style-type: none"> 1. Review the analysed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented. 	<ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IC(E); 2. Implement noise mitigation proposals.
Limit Level	<ol style="list-style-type: none"> 1. Identify source; 2. Inform IC(E), ER, EPD and Contractor; 3. Repeat measurements to confirm findings; 4. Increase monitoring frequency; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Inform IC(E), ER and EPD the causes and actions taken for the exceedances; 7. Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IC(E) within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Appendix E

Calibration Certificates



TISCH ENVIROMENTAL, INC.
 145 SOUTH MIAMI AVE.
 VILLAGE OF CLEVES, OH 45002
 513.467.9000
 877.263.7610 TOLL FREE
 513.467.9009 FAX
 WWW.TISCH-ENV.COM

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Jun 02, 2010 Rootsmeter S/N 9833620 Ta (K) - 297
 Operator Tisch Orifice I.D. - 1483 Pa (mm) - 746.76

PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER	ORFICE
					DIFF Hg (mm)	DIFF H2O (in.)
1	NA	NA	1.00	1.3990	3.2	2.00
2	NA	NA	1.00	0.9820	6.4	4.00
3	NA	NA	1.00	0.8770	7.9	5.00
4	NA	NA	1.00	0.8350	8.8	5.50
5	NA	NA	1.00	0.6910	12.8	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
0.9816	0.7017	1.4042	0.9957	0.7117	0.8919
0.9775	0.9954	1.9858	0.9914	1.0096	1.2613
0.9754	1.1122	2.2202	0.9893	1.1281	1.4102
0.9742	1.1668	2.3286	0.9882	1.1835	1.4790
0.9689	1.4023	2.8084	0.9828	1.4223	1.7837
Qstd slope (m) = 2.00279			Qa slope (m) = 1.25411		
intercept (b) = -0.00494			intercept (b) = -0.00314		
coefficient (r) = 0.99994			coefficient (r) = 0.99994		
y axis = SQRT[H2O(Pa/760)(298/Ta)]			y axis = SQRT[H2O(Ta/Pa)]		

CALCULATIONS

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

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

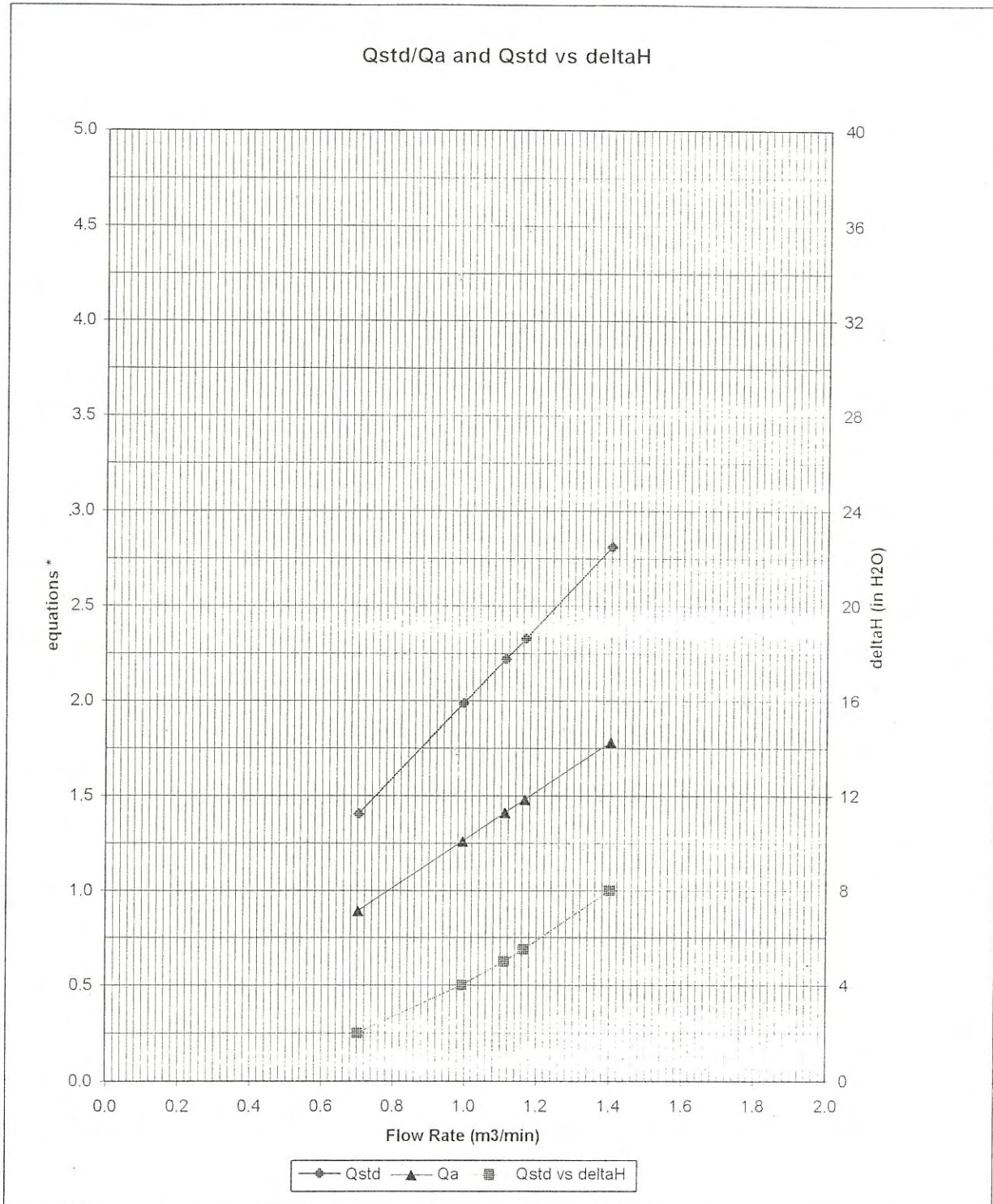
For subsequent flow rate calculations:

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



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 877.263.7610 TOLL FREE
 513.467.9009 FAX
 WWW.TISCH-ENV.COM

AIR POLLUTION MONITORING EQUIPMENT



* y-axis equations:

Qstd series:
$$\sqrt{\Delta H \left(\frac{P_a}{P_{std}} \right) \left(\frac{T_{std}}{T_a} \right)}$$

Qa series:
$$\sqrt{(\Delta H (T_a / P_a))}$$

#1483

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location : YSW RE Offices
 Location ID : AC02b

Date of Calibration: 31-Jul-10
 Next Calibration Date: 30-Sep-10
 Technician: Mr. Ben Tam

CONDITIONS

Sea Level Pressure (hPa)	1008.2	Corrected Pressure (mm Hg)	756.15
Temperature (°C)	30.1	Temperature (K)	303

CALIBRATION ORIFICE

Make->	TISCH	Qstd Slope ->	2.00279
Model->	5025A	Qstd Intercept ->	-0.00494
Serial # ->	1483		

CALIBRATION

Plate No.	H2O (L) (in)	H2O (R) (in)	H2O (in)	Qstd (m3/min)	I (chart)	IC corrected	LINEAR REGRESSION
18	5.2	5.2	10.4	1.595	61	59.82	Slope = 33.4643 Intercept = 5.5462 Corr. coeff. = 0.9957
13	4.2	4.2	8.4	1.434	54	52.96	
10	3.5	3.5	7	1.309	50	49.03	
7	2.2	2.2	4.4	1.038	40	39.23	
5	1.5	1.5	3	0.858	36	35.30	

Calculations :

$$Qstd = 1/m[\text{Sqrt}(H2O(Pa/Pstd)(Tstd/Ta))-b]$$

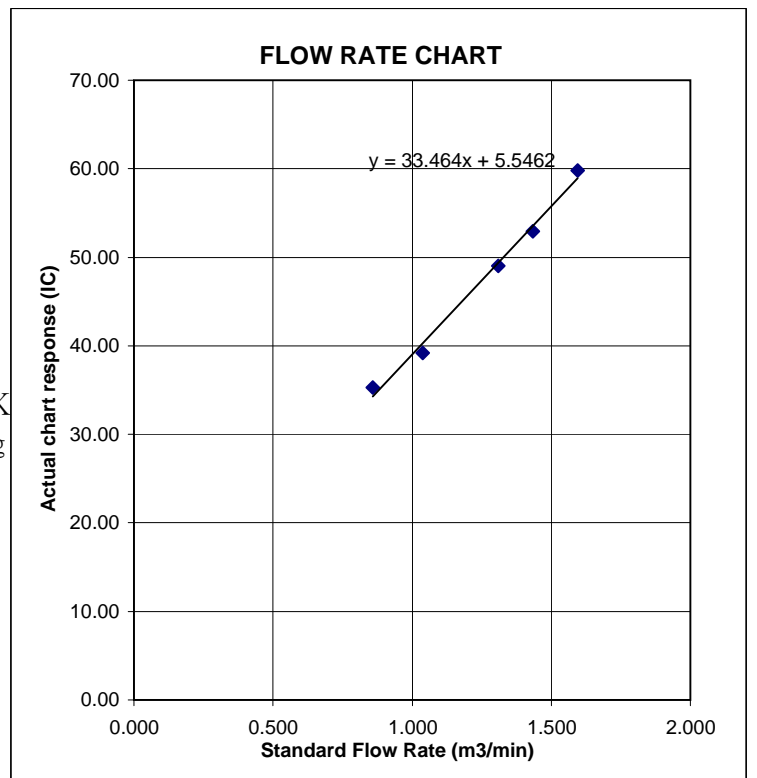
$$IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$$

Qstd = standard flow rate
 IC = corrected chart responses
 I = actual chart response
 m = calibrator Qstd slope
 b = calibrator Qstd intercept
 Ta = actual temperature during calibration (deg K)
 Pstd = actual pressure during calibration (mm Hg)

For subsequent calculation of sampler flow:

$$1/m((I)[\text{Sqrt}(298/Tav)(Pav/760)]-b)$$

m = sampler slope
 b = sampler intercept
 I = chart response
 Tav = daily average temperature
 Pav = daily average pressure



TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location : YSW Playground
 Location ID : AC04c

Date of Calibration: 31-Jul-10
 Next Calibration Date: 30-Sep-10
 Technician: Mr. Ben Tam

CONDITIONS

Sea Level Pressure (hPa)	1008.2	Corrected Pressure (mm Hg)	756.15
Temperature (°C)	30.1	Temperature (K)	303

CALIBRATION ORIFICE

Make->	TISCH	Qstd Slope ->	2.00279
Model->	5025A	Qstd Intercept ->	-0.00494
Serial # ->	1483		

CALIBRATION

Plate No.	H2O (L) (in)	H2O (R) (in)	H2O (in)	Qstd (m3/min)	I (chart)	IC corrected	LINEAR REGRESSION
18	5.4	5.4	10.8	1.625	62	60.80	Slope = 33.0599 Intercept = 6.3215 Corr. coeff. = 0.9978
13	4.1	4.1	8.2	1.417	54	52.96	
10	3.4	3.4	6.8	1.290	49	48.05	
7	2.3	2.3	4.6	1.062	42	41.19	
5	1.4	1.4	2.8	0.829	35	34.32	

Calculations :

$$Qstd = 1/m[\text{Sqrt}(H2O(Pa/Pstd)(Tstd/Ta))-b]$$

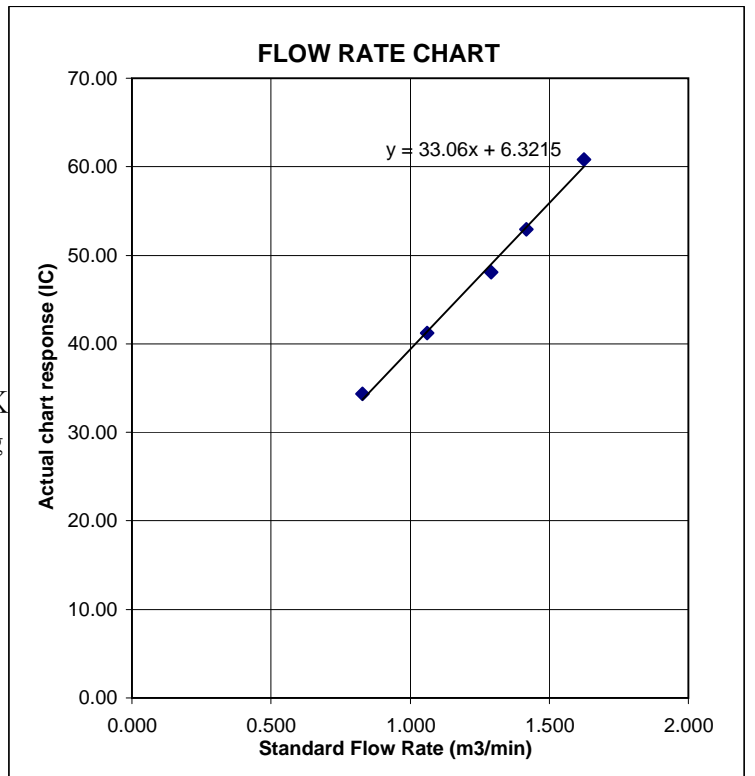
$$IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$$

Qstd = standard flow rate
 IC = corrected chart responses
 I = actual chart response
 m = calibrator Qstd slope
 b = calibrator Qstd intercept
 Ta = actual temperature during calibration (deg K)
 Pstd = actual pressure during calibration (mm Hg)

For subsequent calculation of sampler flow:

$$1/m((I)[\text{Sqrt}(298/Tav)(Pav/760)]-b)$$

m = sampler slope
 b = sampler intercept
 I = chart response
 Tav = daily average temperature
 Pav = daily average pressure



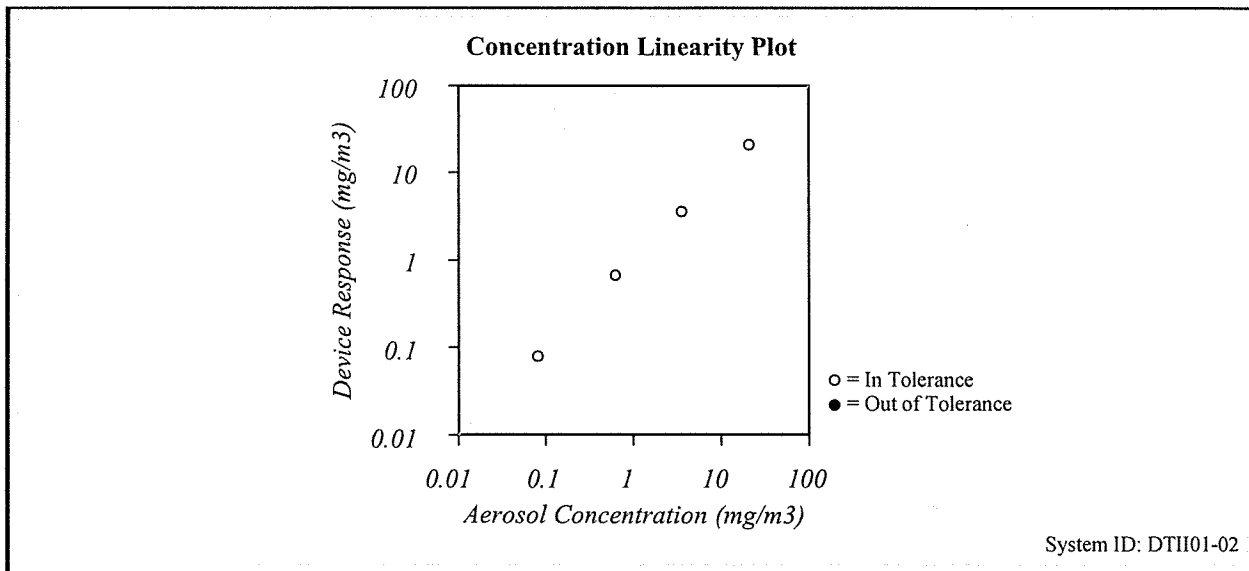


CERTIFICATE OF CALIBRATION AND TESTING

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	75.0 (23.9)	°F (°C)		
Relative Humidity	24	%RH	Serial Number	23079
Barometric Pressure	28.58 (967.8)	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



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

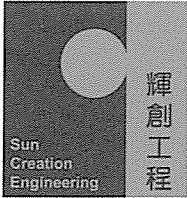
Measurement Variable	System ID	Last Cal.	Cal. Due	Measurement Variable	System ID	Last Cal.	Cal. Due
Barometric Pressure	E003733	12-26-09	12-26-10	Temperature	E002873	02-23-10	02-23-11
Humidity	E002873	02-23-10	02-23-11	DC Voltage	E003314	01-06-09	07-06-10
DC Voltage	E003315	01-06-09	07-06-10	Photometer	E003319	12-30-09	06-30-10
Microbalance	E003403	01-07-10	01-07-11	Flow and Temperature	E003512	02-03-10	02-03-11
Pressure	E003511	11-12-09	11-12-10				

Tom Jay

Calibrated

Final Function Check

May 5, 2010
Date



輝創工程有限公司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate No. : C102350

Certificate of Calibration

This is to certify that the equipment

Description : Integrating Sound Level Meter (EQ008)

Manufacturer : Bruel & Kjaer

Model No. : 2238

Serial No. : 2285690

*has been calibrated for the specific items and ranges.
The results are shown in the Calibration Report No. C102350.*

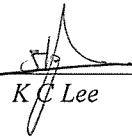
The equipment is supplied by

Co. Name : Action-United Environmental Services and Consulting

*Address : Unit A, 20/F., Gold King Industrial Building,
35-41 Tai Lin Pai Road, Kwai Chung, N.T.*

Date of Issue : 30 April 2010

Certified by :


K.C. Lee

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

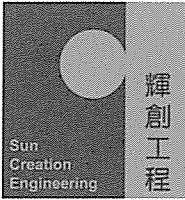
c/o 4/F. Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

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. : C102350

Calibration Report

ITEM TESTED

DESCRIPTION : Integrating Sound Level Meter (EQ008)
MANUFACTURER : Bruel & Kjaer
MODEL NO. : 2238
SERIAL NO. : 2285690

TEST CONDITIONS

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

TEST SPECIFICATIONS

Calibration check

DATE OF TEST : 29 April 2010

JOB NO. : IC10-0951


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
- Agilent Technologies, USA
- Fluke Everett Service Center, USA
- Rohde & Schwarz Laboratory, Germany

Tested by :


L L Cheung

Date : 30 April 2010

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

Page 1 of 4

Report No. : C102350

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 using the laboratory acoustic calibrator was performed before the test 6.1.1.2 to 6.4.
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	C100067
CL281	Multifunction Acoustic Calibrator	DC090052

5. Test procedure : MA101N.

6. Results :

6.1 Sound Pressure Level

6.1.1 Reference Sound Pressure Level

6.1.1.1 Before Self-calibration

UUT Setting				Applied Value		UUT Reading (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
50 - 130	L _{AFP}	A	F	94.00	1	94.1

6.1.1.2 After Self-calibration

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
50 - 130	L _{AFP}	A	F	94.00	1	94.0	± 0.7

6.1.2 Linearity

UUT Setting				Applied Value		UUT Reading (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
50 - 130	L _{AFP}	A	F	94.00	1	94.0 (Ref.)
				104.00		104.0
				114.00		114.0

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

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 Time Weighting

6.2.1 Continuous Signal

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
50 - 130	L _{AFP}	A	F	94.00	1	94.0	Ref.
	L _{ASP}		S			94.1	± 0.1
	L _{AIP}		I			94.1	± 0.1

6.2.2 Tone Burst Signal (2 kHz)

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Burst Duration		
30 - 110	L _{AFP}	A	F	106.0	Continuous	106.0	Ref.
	L _{AFMax}				200 ms	105.0	-1.0 ± 1.0
	L _{ASP}	S	Continuous		106.0	Ref.	
	L _{ASMax}		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)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
50 - 130	L _{AFP}	A	F	94.00	31.5 Hz	54.7	-39.4 ± 1.5
					63 Hz	67.8	-26.2 ± 1.5
					125 Hz	77.8	-16.1 ± 1.0
					250 Hz	85.3	-8.6 ± 1.0
					500 Hz	90.7	-3.2 ± 1.0
					1 kHz	94.0	Ref.
					2 kHz	95.2	+1.2 ± 1.0
					4 kHz	95.0	+1.0 ± 1.0
					8 kHz	92.9	-1.1 (+1.5 ; -3.0)
12.5 kHz	89.8	-4.3 (+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

6.3.2 C-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
50 - 130	L _{CFP}	C	F	94.00	31.5 Hz	91.1	-3.0 ± 1.5
					63 Hz	93.2	-0.8 ± 1.5
					125 Hz	93.8	-0.2 ± 1.0
					250 Hz	93.9	0.0 ± 1.0
					500 Hz	94.0	0.0 ± 1.0
					1 kHz	94.0	Ref.
					2 kHz	93.8	-0.2 ± 1.0
					4 kHz	93.2	-0.8 ± 1.0
					8 kHz	91.0	-3.0 (+1.5 ; -3.0)
					12.5 kHz	87.8	-6.2 (+3.0 ; -6.0)

6.4 Time Averaging

UUT Setting				Applied Value					UUT Reading (dB)	IEC 60804 Type 1 Spec. (dB)	
Range (dB)	Mode	Frequency Weighting	Integrating Time	Frequency (kHz)	Burst Duration (ms)	Burst Duty Factor	Burst Level (dB)	Equivalent Level (dB)			
30 - 110	L _{Aeq}	A	10 sec.	4	1	1/10	110.0	100	99.9	± 0.5	
								90	89.6	± 0.5	
			60 sec.					1/10 ³	80	79.7	± 1.0
			5 min.					1/10 ⁴	70	69.7	± 1.0

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

- Uncertainties of Applied Value :

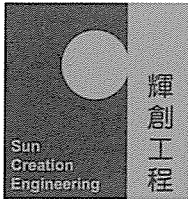
94 dB : 31.5 Hz - 125 Hz	: ± 0.40 dB
250 Hz - 500 Hz	: ± 0.30 dB
1 kHz	: ± 0.20 dB
2 kHz	: ± 0.40 dB
4 kHz	: ± 0.50 dB
8 kHz	: ± 0.70 dB
12.5 kHz	: ± 1.20 dB
104 dB : 1 kHz	: ± 0.10 dB (Ref. 94 dB)
114 dB : 1 kHz	: ± 0.10 dB (Ref. 94 dB)
Burst equivalent level	: ± 0.2 dB (Ref. 110 dB continuous sound 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.

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.



輝創工程有限公司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate No. : C102285

Certificate of Calibration

This is to certify that the equipment

Description : Acoustical Calibrator (EQ081)

Manufacturer : Bruel & Kjaer

Model No. : 4231

Serial No. : 2326408

*has been calibrated for the specific items and ranges.
The results are shown in the Calibration Report No. C102285.*

The equipment is supplied by

Co. Name : Action-United Environmental Services and Consulting

*Address : Unit A, 20/F., Gold King Industrial Building,
35-41 Tai Lin Pai Road, Kwai Chung, N.T.*

Date of Issue : 27 April 2010

Certified by :

K.C. Lee

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

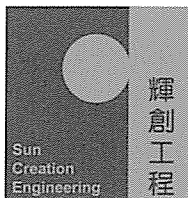
c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

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. : C102285

Calibration Report

ITEM TESTED

DESCRIPTION : Acoustical Calibrator (EQ081)
MANUFACTURER : Bruel & Kjaer
MODEL NO. : 4231
SERIAL NO. : 2326408

TEST CONDITIONS

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

TEST SPECIFICATIONS

Calibration check

DATE OF TEST : 26 April 2010

JOB NO. : IC10-0951

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 Precision Measurement Ltd., UK
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

Tested by :


W L Lai

Date : 27 April 2010

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

Page 1 of 2

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 :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
TST150A	Measuring Amplifier	C101008
CL130	Universal Counter	C093122
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	94.0	± 0.2	± 0.2
114 dB, 1 kHz	114.0		

- 5.2 Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Spec.	Uncertainty of Measured Value (Hz)
1	1.000 0	1 kHz ± 0.1 %	± 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.

Appendix F

Baseline Monitoring Schedule

Baseline Air Quality and Noise Monitoring Schedule – Yung ShueWan

Date		Noise Monitoring	Air Quality	
			1-hour TSP Monitoring	24-hour TSP Monitoring
Sat	31-July-10		✓	✓
Sun	1- August-10	✓	✓	✓
Mon	2- August-10	✓	✓	✓
Tue	3- August-10	✓	✓	✓
Wed	4- August-10	✓	✓	✓
Thu	5- August-10	✓	✓	✓
Fri	6- August-10	✓	✓	✓
Sat	7- August-10	✓	✓	✓
Sun	8- August-10	✓	✓	✓
Mon	9- August-10	✓	✓	✓
Tue	10- August-10	✓	✓	✓
Wed	11- August-10	✓	✓	✓
Thu	12- August-10	✓	✓	✓
Fri	13- August-10	✓	✓	✓
Sat	14- August-10	✓		
Sun	15- August-10	✓		
Mon	16- August-10	✓		

Appendix G

Data Base of Monitoring Results

Appendix G (1)

**Data Base of Monitoring Results
(Air Quality Monitoring)**

24-hour TSP Baseline Monitoring Results - AC04c

Date of Calibration: 31-Jul-10 Slope = 33.0599
 Next Calibration Date: 30-Sep-10 Intercept = 6.3215

DATE	SAMPLE NUMBER	ELAPSED TIME			CHART READING			AVG TEMP (oC)	STANDARD			INITIAL FILTER WEIGHT (g)	FINAL FILTER WEIGHT (g)	WEIGHT DUST COLLECTED (g)	DUST 24-hour TSP IN AIR (ug/m ³)
		INITIAL	FINAL	ACTUAL (min)	MIN	MAX	AVG		AVG PRESS (hPa)	FLOW RATE (m3/min)	AIR VOLUME (std m3)				
31-Jul-10	022464	5055.17	5079.23	1443.60	25	27	26.0	30.1	1008.2	0.59	847	2.911	2.9531	0.0421	50
1-Aug-10	022377	5079.23	5104.04	1488.60	25	27	26.0	30	1010.3	0.59	875	2.814	2.9363	0.1223	140
2-Aug-10	022391	5104.04	5127.84	1428.00	26	27	26.5	29.4	1010.3	0.60	862	2.8154	2.9079	0.0925	107
3-Aug-10	022393	5127.84	5152.19	1461.00	32	34	33.0	29.1	1007.5	0.80	1165	2.8366	2.9282	0.0916	79
4-Aug-10	022410	5152.19	5175.79	1416.00	33	34	33.5	30	1005.1	0.81	1146	2.8709	2.9549	0.0840	73
5-Aug-10	022411	5175.79	5199.73	1436.40	31	35	33.0	29.4	1005.5	0.80	1143	2.8552	2.9687	0.1135	99
6-Aug-10	022423	5199.73	5222.83	1386.00	32	34	33.0	28.4	1006	0.80	1106	2.884	2.9577	0.0737	67
7-Aug-10	022398	5222.83	5245.91	1384.80	35	37	36.0	28.8	1004.5	0.89	1227	2.8476	2.9189	0.0713	58
8-Aug-10	022404	5245.91	5269.35	1406.40	33	36	34.5	28.8	1003.5	0.84	1182	2.8522	2.8826	0.0304	26
9-Aug-10	022431	5269.35	5292.84	1409.40	32	34	33.0	29.6	1003.9	0.79	1120	2.8694	2.9179	0.0485	43
10-Aug-10	022421	5292.84	5315.99	1389.00	31	33	32.0	30.2	1006.2	0.77	1063	2.8554	2.8933	0.0379	36
11-Aug-10	022425	5315.99	5339.52	1411.80	32	36	34.0	28.3	1008.7	0.83	1171	2.8935	2.966	0.0725	62
12-Aug-10	022458	5339.52	5362.64	1387.20	32	34	33.0	29.3	1009.5	0.80	1107	2.8916	2.9545	0.0629	57
13-Aug-10	022429	5362.64	5385.89	1395.00	31	33	32.0	29.8	1008.7	0.77	1070	2.877	2.977	0.1000	93

24-hour TSP Baseline Monitoring Results - AC02b

Date of Calibration: 31-Jul-10 Slope = 33.4643
 Next Calibration Date: 30-Sep-10 Intercept = 5.5462

DATE	SAMPLE NUMBER	ELAPSED TIME			CHART READING			AVG TEMP (oC)	STANDARD			INITIAL FILTER WEIGHT (g)	FINAL FILTER WEIGHT (g)	WEIGHT DUST COLLECTED (g)	DUST 24-hour TSP IN AIR (ug/m ³)
		INITIAL	FINAL	ACTUAL (min)	MIN	MAX	AVG		AVG PRESS (hPa)	FLOW RATE (m3/min)	AIR VOLUME (std m3)				
31-Jul-10	022376	2548.90	2573.16	1455.60	42	46	44.0	30.1	1008.2	1.13	1652	2.8089	2.8477	0.0388	23
1-Aug-10	022395	2573.16	2596.49	1399.80	43	45	44.0	30	1010.3	1.14	1591	2.833	2.8839	0.0509	32
2-Aug-10	022392	2596.49	2619.64	1389.00	42	45	43.5	29.4	1010.3	1.12	1559	2.8272	2.9001	0.0729	47
3-Aug-10	022394	2619.64	2642.89	1395.00	43	46	44.5	29.1	1007.5	1.15	1606	2.8421	3.042	0.1999	124
4-Aug-10	022409	2642.89	2666.44	1413.00	42	46	44.0	30	1005.1	1.13	1601	2.8637	3.0032	0.1395	87
5-Aug-10	022412	2666.44	2690.4	1437.60	44	46	45.0	29.4	1005.5	1.16	1673	2.8778	2.9751	0.0973	58
6-Aug-10	022424	2690.40	2713.49	1385.40	45	47	46.0	28.4	1006	1.20	1657	2.8923	2.9547	0.0624	38
7-Aug-10	022413	2713.49	2736.77	1396.80	45	48	46.5	28.8	1004.5	1.21	1689	2.8146	2.9213	0.1067	63
8-Aug-10	022405	2736.77	2760.3	1411.80	44	46	45.0	28.8	1003.5	1.16	1643	2.8773	2.9301	0.0528	32
9-Aug-10	022430	2760.30	2783.72	1405.20	42	45	43.5	29.6	1003.9	1.12	1571	2.8456	2.9213	0.0757	48
10-Aug-10	022449	2783.72	2806.92	1392.00	42	46	44.0	30.2	1006.2	1.13	1577	2.8455	2.8891	0.0436	28
11-Aug-10	022426	2806.92	2830.26	1400.40	43	45	44.0	28.3	1008.7	1.14	1595	2.8121	2.871	0.0589	37
12-Aug-10	022455	2830.26	2853.91	1419.00	42	45	43.5	29.3	1009.5	1.12	1593	2.8617	2.9062	0.0445	28
13-Aug-10	022428	2853.91	2877.24	1399.80	43	45	44.0	29.8	1008.7	1.14	1590	2.8494	2.8982	0.0488	31

Appendix G (2)

Data Base of Monitoring Results
(Noise Monitoring)

Noise Monitoring Station
AC05 - North Lamma Clinic (* The shadowed box - rainy condition and no noise monitoring was conducted)

Baseline Data for Normal Daytime 0700-1900

Date	2 Aug 2009			3 Aug 2009			4 Aug 2009			5 Aug 2009			6 Aug 2009			7 Aug 2009			9 Aug 2009																
	Leq(5mins)	Leq(30mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(30mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(30mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(30mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(30mins)	L10(5mins)	L90(5mins)															
07:00	54.4	52.3	57.5	48.0	52.5	51.1	52.5	47.5	54.9	55.4	56.0	53.0	52.1	53.3	53.5	49.0	52.5	52.5	53.0	51.0	53.4	55.0	54.5	51.5	52.5	53.2	53.5	51.0							
07:05	50.8		52.0	47.5	51.3		53.5	47.5	56.1		57.5	53.0	54.5		57.0	53.0	52.5		52.6	53.5	51.0		55.2	56.0	51.5		52.8	57.5	52.0	52.8	54.0	51.0			
07:10	51.2		52.0	47.5	50.5		52.0	47.0	55.5		57.0	52.5	53.9		55.5	50.0	52.9		53.5	51.0	55.4		53.5	51.0	55.0		57.0	52.0	53.8	57.0	52.0	53.8	55.0	51.5	
07:15	51.0		52.5	47.5	50.2		51.5	46.5	53.6		54.5	52.0	52.4		55.5	52.5	53.5		53.5	53.5	50.5		52.7	54.5	50.0		55.9	58.0	52.0	52.7	57.0	52.0	53.8	55.5	51.0
07:20	52.8		55.0	49.0	50.6		52.5	47.0	54.4		55.5	52.5	53.5		58.0	53.0	52.9		54.5	50.0	50.6		52.0	47.0	55.0		57.0	52.0	54.1	57.0	52.0	54.1	56.5	51.5	
07:25	52.7	54.5	49.5	51.3	53.0	47.5	57.0	56.0	47.5	57.1	59.5	53.0	55.7	59.5	50.0	51.7	52.5	47.5	54.0	55.0	52.0	54.7	55.0	52.0	54.7	54.0	51.0								
07:30	56.1	57.5	51.0	54.8	59.0	49.0	56.5	59.0	52.5	55.6	59.0	50.5	60.2	59.0	50.5	60.2	65.0	49.0	56.4	57.5	52.0	52.9	57.5	52.0	52.9	54.0	51.0								
07:35	58.2	62.5	51.5	55.6	55.0	48.5	56.7	59.5	53.0	54.5	56.5	50.5	55.3	58.0	50.5	52.3	59.0	49.0	55.0	57.5	52.0	52.5	56.5	52.0	54.3	53.0	51.0								
07:40	58.3	63.0	49.5	52.5	56.5	49.0	56.1	57.5	53.5	55.6	56.5	50.5	55.6	56.5	51.5	53.8	54.5	48.5	54.9	58.0	52.5	54.5	56.0	51.5	54.3	56.0	51.5								
07:45	56.4	60.5	49.5	53.5	54.5	49.5	55.8	57.5	53.5	56.4	56.5	51.5	53.8	56.5	51.5	53.8	55.5	50.5	55.6	58.0	52.5	54.5	58.0	52.5	54.5	55.5	52.0								
07:50	55.2	57.0	52.5	53.0	55.5	51.0	55.7	57.0	53.5	54.4	56.0	51.5	53.3	56.0	51.5	53.3	56.0	49.0	54.0	56.0	51.5	54.5	56.0	51.5	54.5	56.5	51.5								
07:55	54.5	58.5	54.0	53.0	55.0	50.0	54.2	55.0	53.0	55.0	57.0	50.5	53.5	57.0	50.5	53.5	54.5	48.5	55.0	57.0	52.0	53.7	57.0	52.0	53.7	55.0	51.5								
08:00	56.6	57.5	54.0	52.0	53.0	49.0	53.8	53.0	49.0	53.8	54.5	52.5	53.6	57.0	49.5	56.1	59.0	49.0	53.3	54.5	52.0	57.8	54.5	52.0	57.8	55.5	50.5								
08:05	56.2	59.5	53.5	53.6	55.0	50.0	56.5	59.0	53.0	53.5	59.0	53.0	53.5	55.0	49.5	53.7	55.5	49.5	53.2	57.0	50.0	55.5	57.5	52.0	55.0	57.5	50.5								
08:10	57.5	57.5	53.5	54.8	56.5	50.5	58.7	62.5	53.0	53.4	60.0	53.5	55.3	55.0	50.5	54.5	57.0	50.0	55.5	56.5	52.5	52.2	58.0	53.0	58.1	58.0	52.0								
08:15	55.7	58.5	53.5	54.3	56.0	50.5	58.9	60.0	53.5	55.3	60.0	53.5	56.4	56.5	52.5	52.2	63.0	49.5	57.8	58.0	53.0	58.1	60.5	53.0	58.1	60.5	52.0								
08:20	57.7	58.0	51.0	56.3	58.5	51.5	55.3	56.0	53.5	56.4	57.0	54.5	58.0	57.0	54.0	61.5	64.0	52.0	57.5	59.5	53.0	55.8	59.5	53.0	55.8	58.5	52.5								
08:25	55.0	58.0	51.0	55.7	57.0	52.0	57.8	58.0	54.5	58.0	58.0	54.5	58.0	59.5	54.5	59.9	63.0	52.0	53.5	63.0	54.5	63.7	59.5	53.0	57.3	59.5	53.0								
08:30	56.9	57.5	51.0	60.2	64.0	51.5	56.4	57.5	54.5	56.6	58.0	54.5	58.6	58.0	54.5	58.6	61.0	54.5	63.7	67.0	55.5	56.5	58.0	52.5	57.8	60.0	52.5								
08:35	55.8	56.0	51.0	59.5	63.0	55.5	59.0	61.0	54.5	58.7	63.0	54.5	57.8	60.0	55.0	63.5	67.0	55.5	56.5	67.0	55.5	56.6	58.0	53.0	63.2	66.0	58.0								
08:40	53.9	54.0	51.5	60.4	63.0	56.5	60.0	63.0	55.0	60.4	63.0	55.0	60.4	62.5	53.0	66.0	68.0	58.0	59.0	68.0	58.0	59.0	60.5	54.5	64.1	64.0	52.0								
08:45	56.2	57.0	51.5	65.1	66.5	55.0	56.6	67.0	58.0	56.6	59.5	53.5	55.9	59.5	53.5	62.6	66.0	56.5	58.2	66.0	56.5	54.6	60.5	54.5	54.6	56.5	51.5								
08:50	52.9	56.0	52.0	62.5	66.5	55.0	60.2	62.0	55.0	59.8	61.0	54.5	64.2	61.0	54.5	64.2	68.0	55.0		68.0	55.0		55.5	51.0		55.5	51.0								
08:55	55.5	57.0	51.5	65.4	67.5	58.5	58.3	60.5	54.0	55.4	56.0	54.0	64.9	56.0	54.0	64.9	68.5	55.0		68.5	55.0		56.0	52.0		56.5	52.0								
09:00	54.4	56.5	52.0	66.1	68.5	60.0	56.4	58.0	54.5	61.5	64.0	55.5	66.9	64.0	55.5	66.9	68.5	59.0		68.5	59.0		59.3	57.2		61.5	52.0								
09:05	54.9	58.0	54.5	65.0	66.5	57.5	57.5	58.5	55.5	60.7	63.5	56.0	65.4	63.5	56.0	65.4	67.5	56.5		67.5	56.5		56.3	59.0		59.0	52.0								
09:10	54.7	59.5	55.0	62.9	65.0	55.0	58.3	59.0	56.5	63.5	67.0	55.5	66.2	67.0	55.5	66.2	69.0	57.0		69.0	57.0		58.3	62.0		62.0	53.0								
09:15	56.9	59.0	54.5	63.8	66.0	57.5	57.6	58.5	56.5	61.5	66.0	55.0	67.1	66.0	55.0	67.1	69.5	58.0		69.5	58.0		57.3	58.0		58.0	52.0								
09:20	58.2	61.5	52.5	62.8	64.5	54.5	58.6	59.5	56.5	57.5	58.5	55.0	65.8	69.0	55.0	65.8	69.0	55.0		69.0	55.0		57.2	59.0		59.0	53.0								
09:25	57.4	64.0	53.0	63.4	65.5	54.5	57.4	58.5	55.5	58.1	61.0	54.5	64.8	61.0	54.5	64.8	68.0	56.0		68.0	56.0		56.9	57.5		57.5	53.0								
09:30	58.2	69.0	66.5	59.7	63.5	54.5	58.9	63.5	54.5	58.9	61.0	55.5	57.1	59.0	54.0	63.9	67.0	55.0		67.0	55.0		54.8	55.5		55.5	53.0								
09:35	60.5	62.5	57.0	62.1	64.0	54.5	57.7	59.5	54.5	55.1	57.0	53.0	63.0	57.0	53.0	63.0	67.0	54.0		67.0	54.0		54.9	55.0		55.0	52.0								
09:40	68.0	58.0	54.5	63.4	65.0	57.5	57.5	60.0	54.5	56.4	57.5	53.5	64.6	57.5	53.5	64.6	68.0	56.5		68.0	56.5		55.0	55.5		55.5	52.0								
09:45	59.8	61.0	53.5	63.8	66.5	56.5	61.4	64.5	55.0	55.9	58.5	53.0	63.2	58.5	53.0	63.2	66.5	55.0		66.5	55.0		55.7	58.0		58.0	52.5								
09:50	57.4	67.5	59.0	58.0	67.5	59.0	58.0	60.5	53.0	55.9	60.5	53.0	55.9	57.5	53.5	61.1	63.0	55.0		63.0	55.0		58.5	59.0		59.0	52.5								
09:55	60.0	62.5	54.0	64.6	65.5	55.5	59.3	61.5	54.0	59.0	61.5	54.0	59.0	62.0	53.5	63.5	66.5	55.0		66.5	55.0		53.6	54.5		54.5	51.5								
10:00		59.8	59.8	62.5	62.0	54.5	64.3	62.0	53.0	56.3	69.0	53.0	56.3	58.0	53.0	63.2	67.0	55.0		67.0	55.0		53.6	56.0		56.0	51.5								
10:05		62.1	62.1	62.1	63.5	55.5	55.3	63.5	55.5	55.3	66.5	53.0	54.7	56.0	53.0	64.2	68.0	56.0		68.0	56.0		58.6	60.0		60.0	53.0								
10:10		62.4	62.4	62.4	65.0	54.0	59.2	62.5	53.0	54.8	62.5	53.0	54.8	56.0	53.0	62.1	67.0	54.0		67.0	54.0		57.6	56.0		56.0	52.0								
10:15		63.3	63.3	63.3	65.5	56.0	56.8	65.5	56.0	55.9	58.0	54.5	55.9	56.0	52.5	66.1	69.5	55.5		69.5	55.5		58.8	60.0		60.0	52.5								
10:20		60.6	60.6	60.6	63.5	53.0	57.4	58.5	56.0	56.5	58.0	53.5	66.2	58.0	53.5	66.2	69.0	56.5		69.0	56.5		60.9	61.0		61.0	53.5								
10:25		64.4	64.4	64.4	66.0	55.5	57.6	59.0	55.0	57.3	60.5	53.5	65.3	60.5	53.5	65.3	66.5	55.0		66.5	55.0		53.8	55.5		55.5	51.5								
10:30		60.0	60.0	60.0	61.5	53.5	56.7	58.0	54.5	55.3	57.0	53.5	60.2	57.0	53.5	60.2	63.0	54.0		63.0	54.0		57.5	55.0		55.0	51.5								
10:35		61.2	61.2	61.2	63.5	54.0	59.7	58.5	53.0	56.7	58.5	53.0	60.5	59.0	54.0	60.5	64.0	54.0		64.0	54.0		54.6	56.0		56.0	51.5								
10:40		63.1	63.1	63.1	63.0	53.5	55.0	56.5	53.0	56.0	56.5	53.0	56.0	57.0	54.5	59.5	62.5	53.5		62.5	53.5		56.0	58.5		58.5	51.5								
10:45		60.8	60.8	60.8	61.5	54.0	58.3	59.5	53.5	56.8	58.0	55.0	59.0	58.0	55.0	59.0	61.5	53.5		61.5	53.5		55.7	56.0		56.0	51.5								
10:50		62.0	62.0	62.0	63.5	53.0	59.4	63.0	54.0	56.8	63.0	54.0	56.8	58.0	54.5	58.4	61.5	53.5	56.9	58.0	53.5	55.8	58.0	53.5	55.8										

Noise Monitoring Station
 AC05 - North Lamna Clinic (* The shadowed box - rainy condition and no noise monitoring was conducted)

Baseline Data for Normal Daytime 0700-1900

Date	2 Aug 2009			3 Aug 2009			4 Aug 2009			5 Aug 2009			6 Aug 2009			7 Aug 2009			9 Aug 2009						
	Leq(5mins)	Leq(30mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(30mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(30mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(30mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(30mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(30mins)	L10(5mins)	L90(5mins)	
13:00	59.9		64.0	54.0	58.8		59.5	54.0	59.2		62.5	54.0	59.3		61.5	54.0	56.2		58.5	52.5	59.1		61.0	53.0	55.0
13:05	58.7		61.5	54.5	61.8		63.5	57.0	58.1		60.0	54.0	57.7		59.0	53.5	54.3		55.5	52.5	60.1		63.5	53.5	56.9
13:10	58.2	60.0	60.0	54.5	59.2	60.5	61.5	55.0	59.3	59.0	61.0	55.5	55.7	57.6	56.5	54.0	56.3	56.5	59.0	53.0	58.3	59.0	60.0	53.5	62.2
13:15	60.3		62.0	55.0	60.1		62.0	55.0	59.9		62.0	55.5	56.3		58.0	53.5	57.3		60.0	53.5	57.8		58.0	52.5	55.5
13:20	61.5		64.0	57.0	61.8		64.0	56.5	59.7		61.0	56.5	57.7		59.0	54.5	57.8		61.0	53.0	57.8		58.5	53.5	56.5
13:25	60.3		62.5	55.5	60.2		62.5	55.5	57.1		59.5	54.0	57.8		60.0	55.0	56.4		58.0	53.0	60.3		62.5	54.0	57.4
13:30	58.7		60.0	55.0	61.0		63.0	56.0	56.2		63.0	54.5	59.1		60.5	55.5	65.3		68.0	55.0	61.1		63.0	54.0	58.3
13:35	60.4		61.5	54.0	62.7		64.0	56.0	59.1		62.0	55.5	60.4		63.0	55.0	57.6		60.0	53.0	58.1		60.5	54.0	57.2
13:40	56.1		57.5	54.0	62.0		64.0	56.0	57.8		59.0	56.0	58.7		61.0	55.5	60.1		63.0	54.0	55.7		57.0	54.0	57.5
13:45	60.3	58.9	63.5	55.0	61.7	62.3	64.5	55.5	59.5	58.4	61.0	56.5	57.5	58.5	59.0	55.0	57.9	60.8	60.5	53.5	57.1	58.3	59.0	54.5	54.8
13:50	58.9		60.5	53.5	63.4		67.0	55.0	59.4		61.5	55.0	57.1		58.5	55.5	60.2		63.5	53.0	56.3		57.5	54.0	58.3
13:55	57.9		60.0	53.5	62.7		66.0	55.0	57.4		59.0	54.5	57.1		59.5	54.0	57.5		60.5	53.0	59.0		61.5	54.5	61.1
14:00	58.9		61.5	54.5	60.1		62.5	56.0	57.0		58.5	54.5	56.7		58.0	54.0	58.6		57.0	53.0	59.2		61.5	54.5	57.9
14:05	58.8		61.5	54.5	58.9		60.5	55.5	57.3		59.5	54.0	57.5		59.5	54.0	57.8		59.5	52.0	56.1		57.5	54.0	57.5
14:10	61.0	59.6	64.5	54.5	61.9	61.6	65.0	55.5	57.8	57.4	60.5	54.5	56.7	57.8	57.5	54.5	56.0	58.0	58.5	52.5	56.4	57.4	58.0	54.0	59.1
14:15	60.5		64.0	54.0	60.2		62.5	56.0	58.1		60.0	55.0	57.6		59.0	55.5	58.5		60.5	52.0	58.4		58.5	53.5	60.2
14:20	59.1		60.0	54.0	65.3		66.5	56.0	57.4		58.0	54.0	59.0		61.5	56.0	59.5		62.0	54.0	57.4		59.5	54.0	56.8
14:25	59.0		61.5	55.0	59.9		60.0	55.0	56.4		58.0	53.5	58.6		60.0	56.0	56.8		58.0	52.5	55.5		56.0	54.0	55.1
14:30	56.8		58.5	54.0	57.9		58.5	55.0	56.5		58.0	54.0	58.7		60.0	56.5	58.1		59.0	53.0	60.1		63.0	54.5	56.7
14:35	58.0		60.5	54.0	59.9		63.0	55.5	58.5		61.0	54.5	57.6		58.5	56.5	57.5		60.5	53.0	56.2		58.5	53.5	58.1
14:40	55.9		57.5	53.0	56.6		57.5	55.0	56.9		58.0	55.5	58.1		59.0	56.5	55.8		57.5	53.5	57.9		60.5	53.5	56.5
14:45	57.4	57.1	60.0	54.0	58.5	59.3	61.0	55.5	58.4	57.9	59.5	55.5	57.1	57.9	58.0	55.0	58.4	57.2	61.5	53.5	57.0	57.6	59.5	53.0	56.1
14:50	57.7		59.5	54.0	61.4		63.5	56.0	59.1		61.5	55.0	56.8		58.0	54.0	57.0		57.5	53.5	56.2		58.0	52.5	54.9
14:55	56.4		58.5	53.5	60.0		61.5	55.5	57.2		58.5	54.5	58.5		60.5	54.0	55.9		57.5	53.0	56.7		58.0	52.5	56.3
15:00	54.7		55.5	52.5	60.9		62.5	57.0	57.1		58.0	54.5	56.8		58.5	54.0	56.2		58.5	53.0	55.7		57.0	52.0	57.3
15:05	56.9		59.0	52.5	60.2		62.0	56.5	60.2		62.0	55.0	60.1		60.0	54.0	56.3		58.0	53.0	55.2		57.0	52.5	56.6
15:10	57.9	56.7	60.0	53.0	61.8	60.2	63.0	56.5	57.5	59.2	59.0	54.5	58.4	57.8	60.5	56.0	62.9	60.8	68.0	54.0	57.6	57.0	59.5	53.5	57.1
15:15	55.6		56.5	52.0	61.1		63.0	56.0	60.7		63.5	55.5	58.1		58.5	54.5	65.2		70.0	54.0	58.5		59.0	52.5	57.9
15:20	55.6		57.0	52.0	56.9		59.0	54.0	58.4		61.5	54.5	56.4		57.5	54.5	59.0		62.0	53.5	58.3		61.0	53.5	58.8
15:25	58.4		59.5	52.5	58.1		60.0	54.5	60.0		63.0	55.0	55.3		56.5	53.5	55.0		57.0	51.5	55.0		57.0	52.5	55.1
15:30	57.2		59.0	53.0	60.4		63.5	55.0	57.7		59.0	55.0	56.1		57.5	53.5	56.8		58.5	52.0	57.6		60.5	53.0	56.1
15:35	55.0		57.0	52.0	60.8		64.0	55.0	58.9		61.0	54.5	55.4		56.5	53.5	58.0		59.5	52.5	59.1		62.0	53.0	58.2
15:40	58.4	58.0	60.0	53.0	57.6	59.4	60.5	53.5	56.6	57.9	58.0	54.5	56.1	56.1	57.5	54.0	55.1	56.4	57.0	52.0	57.5	57.5	60.0	52.5	55.3
15:45	57.3		59.0	54.0	60.4		62.5	54.5	57.2		58.0	56.0	57.8		59.0	54.0	56.9		58.0	52.5	56.3		58.0	52.5	58.5
15:50	58.6		60.5	54.5	58.1		59.5	55.0	57.0		58.5	55.0	55.4		57.0	53.5	54.9		57.0	52.0	55.3		57.0	52.5	57.2
15:55	59.8		62.5	53.5	57.9		59.5	55.0	59.1		61.0	56.5	55.1		56.0	53.5	56.2		58.5	52.0	58.4		60.5	52.5	58.6
16:00	55.9		58.0	53.0	60.5		62.5	56.5	58.3		59.5	56.5	56.3		57.5	53.5	57.3		59.0	52.5	55.2		56.0	52.5	65.0
16:05	57.8		60.5	53.0	62.1		64.5	56.5	56.2		57.0	55.0	57.0		58.0	54.0	58.0		60.0	52.0	57.2		59.5	52.5	55.5
16:10	62.7	58.7	64.5	53.0	66.5	62.5	70.0	58.5	60.1	58.3	59.5	54.5	56.3	56.6	58.0	54.0	60.2	57.9	63.0	53.5	57.0	56.6	58.5	53.0	55.6
16:15	57.8		59.5	53.0	63.4		67.0	55.0	56.2		57.0	54.5	55.9		57.5	54.0	57.4		59.5	53.5	56.9		59.0	53.0	55.9
16:20	55.9		57.5	53.0	57.8		60.0	54.5	57.6		58.0	55.0	56.8		58.0	54.0	55.5		57.5	52.5	57.6		60.0	53.5	55.4
16:25	58.0		59.0	52.5	58.0		60.5	54.5	59.6		60.5	54.5	57.4		59.5	54.0	57.6		60.0	52.5	54.9		57.0	52.5	58.9
16:30	56.7		59.5	53.5	59.2		61.5	55.5	55.8		56.5	54.0	57.1		58.5	55.0	56.2		60.0	51.5	56.4		59.0	52.5	59.1
16:35	56.7		59.0	53.5	59.8		62.5	55.5	56.1		57.5	53.0	59.2		61.5	55.0	55.4		57.5	52.0	55.0		57.0	52.0	60.1
16:40	58.5	57.2	61.5	53.0	59.8	60.0	61.5	55.5	56.5	56.4	56.5	53.0	57.8	57.8	59.0	54.0	61.6	59.1	62.0	52.5	56.2	55.0	58.5	52.5	55.2
16:45	56.9		57.0	52.5	59.6		62.0	55.0	57.2		59.0	54.0	58.1		60.5	54.0	62.4		62.0	52.5	54.5		56.0	52.5	33.7
16:50	55.6		58.0	52.5	62.8		65.5	56.0	56.7		58.5	53.5	56.9		57.5	54.0	56.5		58.5	53.0	53.9		55.0	51.5	57.9
16:55	58.1		60.0	52.5	56.8		58.0	55.0	56.0		57.0	54.0	57.0		58.5	54.0	57.3		59.5	52.5	53.4		54.5	52.0	54.1
17:00	56.7		59.0	52.5	57.0		58.5	55.0	58.1		60.0	55.0	58.1		59.5	53.5	54.7		56.5	52.0	55.1		57.0	52.5	53.0
17:05	55.1		56.5	52.5	59.4		62.5	54.5	59.1		60.0	55.5	58.9		62.0	54.0	58.4		61.5	53.0	58.5		58.5	52.5	53.3
17:10	57.2	57.0	59.0	53.0	57.9	57.4	60.5	54.0	58.0	58.0	61.0	53.5	58.3	58.0	60.5	53.5	55.3	56.3	60.5	53.5	55.3	56.3	56.5	53.0	53.0
17:15	55.4		57.5	52.0	56.7		58.5	54.0	55.8		57.5	54.0	57.4		58.5	53.0	57.7		60.0	54.0	57.1		59.0	53.0	52.6
17:20	58.3		60.5	53.0	56.4		56.0	53.5	59.0		61.5	53.0	55.7		61.5	53.0	55.7		57.0	53.0	55.3		57.0	52.5	52.9
17:25	58.1		60.0	52.0	56.2		57.5	53.5	58.1		59.0	54.0	54.3		55.5	52.5	55.6		56.5	53.0	54.9		56.0	52.5	57.2
17:30	55.9		58.0	51.5	58.9		61.0	54.5	56.8		57.5	54.0	54.3		55.5	53.0	57.3		60.5	53.0	54.6		55.5	52.5	58.8</

Noise Monitoring Station

AC05 - North Lamna Clinic (* The shadowed box - rainy condition and no noise monitoring was conducted)

Baseline Data for Normal Daytime 0700-1900

Date Time	10 Aug 2009			11 Aug 2009			12 Aug 2009			13 Aug 2009			14 Aug 2009			15 Aug 2009			16 Aug 2009				
	Leq(5mins)	Leq(30mins)	L10(5mins)	L90(5mins)	Leq(5mins)	L10(5mins)	L90(5mins)	Leq(5mins)	L10(5mins)	L90(5mins)	Leq(5mins)	L10(5mins)	L90(5mins)	Leq(5mins)	L10(5mins)	L90(5mins)	Leq(5mins)	L10(5mins)	L90(5mins)	Leq(5mins)	L10(5mins)	L90(5mins)	
07:00	53.7		55.0	52.0	52.9		53.5	51.0		55.6		58.0	52.0	54.1		58.0	49.0	67.3		70.5	62.0		
07:05	52.6		53.5	51.5	50.3		52.5	47.0		56.2		57.5	51.5	52.4		53.5	49.0	67.2		71.0	52.0		
07:10	53.1		54.0	51.5	50.1		51.5	47.5		54.4		56.5	52.0	51.8		53.5	49.0	56.3		58.5	51.5		
07:15	52.8		53.5	51.5	50.0		51.0	48.0		53.8		55.0	52.0	67.7		71.5	49.5	56.0		58.5	51.5		
07:20	52.6		53.0	51.5	51.8		53.5	49.5		53.2		54.0	51.5	62.4		69.5	49.5	55.6		57.5	51.5		
07:25	53.1		54.0	51.5	51.2		52.5	49.0		53.7		55.0	51.5	68.4		71.5	51.0	52.4		53.0	51.0		
07:30	54.2		58.0	50.0	56.7		56.5	48.5		54.2		55.5	52.0	51.5		52.5	48.5	53.7		55.5	51.5		
07:35	52.0		54.5	49.0	50.9		52.5	48.0		53.8		54.5	51.5	53.2		53.0	48.0	54.9		57.5	51.0		
07:40	52.4		53.5	50.0	52.1		53.5	49.5		54.1		55.5	51.5	56.6		57.0	49.5	53.5		54.5	51.5		
07:45	55.3		56.5	50.5	53.5		54.5	49.0		52.7		54.0	49.0	51.3		53.0	48.5	53.9		55.0	52.0		
07:50	53.4		56.0	49.5	54.0		57.5	49.0		54.3		57.0	48.5	53.3		55.5	49.5	56.3		58.5	50.0		
07:55	52.8		54.5	50.0	55.8		55.0	49.0		53.2		54.0	48.0	55.1		56.0	48.5	54.9		56.5	50.0		
08:00	53.9		56.0	50.0	53.3		55.0	50.5	53.9		55.5	52.0	51.9		53.0	48.5	52.7		55.0	50.0	54.3		
08:05	52.4		54.5	49.0	55.2		57.0	49.0	53.8		54.5	52.5	52.8		54.0	49.5	54.2		54.5	49.5	58.1		
08:10	55.0		56.5	50.0	55.2		56.5	50.0	56.0		58.0	52.5	54.1		56.5	50.5	53.8		55.5	49.0	57.9		
08:15	55.9		55.5	49.5	53.9		56.0	50.0	54.5		55.5	52.5	54.1		55.5	50.0	69.0		71.5	51.5	70.1		
08:20	58.8		59.5	51.0	52.0		54.0	49.5	57.3		58.5	53.0	56.3		58.5	50.0	54.5		56.5	51.0	54.6		
08:25	59.0		59.5	53.5	54.7		54.5	50.5	55.5		56.5	53.5	53.2		56.0	49.5	60.6		63.5	52.0	56.4		
08:30	55.7		57.0	53.0	59.3		58.5	51.0	56.9		59.0	53.5	55.6		58.5	50.5	64.1		69.0	53.0	61.0		
08:35	56.0		58.5	52.5	54.6		57.5	50.5	56.6		58.5	53.5	55.4		57.5	50.5	68.9		71.5	61.5	58.9		
08:40	55.9		58.0	52.5	55.7		58.0	52.0	59.2		61.5	54.0	55.4		57.5	51.5	70.3		72.5	64.0	69.6		
08:45	54.7		55.5	53.0	53.4		55.5	51.0	60.4		62.5	54.5	56.4		57.5	51.0	67.4		71.5	55.0	68.9		
08:50	55.5		57.0	53.5	52.9		54.0	51.0	59.8		61.0	55.0	56.1		58.5	51.5	62.4		61.0	53.5	66.9		
08:55	57.2		59.0	53.5	54.3		56.5	51.5	58.1		60.5	54.5	58.1		62.5	51.5	61.2		63.5	53.0	57.6		
09:00	56.7		59.0	53.0	53.8		55.5	51.5	58.7		60.0	55.0	57.7		60.0	52.5	58.3		60.0	52.0	54.3		
09:05	58.1		60.0	54.0	53.9		55.5	51.5	60.3		61.0	54.5	57.0		59.5	53.0	68.9		73.0	61.0	53.9		
09:10	60.0		62.5	54.5	54.0		55.5	52.0	61.1		63.0	55.0	55.7		57.0	53.5	70.6		73.5	64.5	57.3		
09:15	60.4		63.0	54.5	55.7		57.5	52.5	59.8		62.0	55.5	56.3		57.0	54.0	71.5		74.0	64.0	64.5		
09:20	57.5		59.0	54.5	57.5		60.5	52.5	57.1		59.0	54.5	55.0		56.0	53.0	70.6		73.0	65.5	57.1		
09:25	59.1		62.0	55.0	56.6		60.0	52.5	57.4		59.0	55.0	55.9		57.0	53.5	71.3		74.0	66.5	53.6		
09:30	57.0		59.0	54.0	56.5		58.0	53.5	58.8		61.0	54.5	55.1		56.0	53.0	71.7		74.0	66.5	54.4		
09:35	57.8		59.0	55.5	55.1		56.5	52.5	59.6		61.5	55.0	57.0		58.0	53.0	70.6		73.5	65.0	68.5		
09:40	56.6		58.5	53.5	54.5		56.0	52.0	59.9		61.0	54.5	54.1		55.5	52.5	69.8		73.0	63.0	68.3		
09:45	58.3		61.0	53.5	60.3		63.0	53.0	59.4		61.0	55.5	53.2		54.0	51.5	65.2		70.5	53.0	67.7		
09:50	59.1		61.5	54.0	55.8		57.0	53.5	61.5		64.0	56.0	54.6		55.5	53.0	56.3		58.0	54.0	53.1		
09:55	62.6		64.5	55.5	53.7		54.5	52.0	61.3		64.0	57.0	57.0		58.5	52.5	55.6		57.5	53.5	53.3		
10:00	59.8		63.0	53.5	53.7		54.5	52.0	58.5		62.0	53.0	61.7		62.0	53.0	61.7		65.5	53.5	55.0		
10:05	61.2		65.0	54.0	54.4		56.0	52.0			62.3				65.5	54.0	69.2		71.5	64.0			
10:10	60.2		62.5	54.5	54.1		55.0	52.0	56.6		61.5	55.0	57.0		62.0	53.0	66.9		71.5	53.5	60.2		
10:15	57.8		59.0	53.0	54.3		56.0	52.0	57.1		61.0	54.5	54.1		58.0	52.5	62.1		62.0	53.5	58.3		
10:20	60.5		62.5	53.0	54.5		56.5	52.0	57.4		61.0	55.5	53.2		59.0	53.0	61.4		66.0	53.5	56.9		
10:25	59.9		61.5	53.0	54.8		55.5	52.0	56.9		61.0	53.5	56.9		58.0	53.5	69.3		72.5	63.0	54.5		
10:30	61.3		63.5	53.5	55.3		56.5	52.0	59.6		60.5	54.5	73.4		60.5	54.5	73.4		77.0	65.5	57.9		
10:35	55.9		57.5	53.0	54.2		55.5	52.5	57.3		60.0	54.0	73.7		77.0	66.5			77.0	66.5	57.0		
10:40	56.0		58.0	53.0	55.8		57.0	53.0	57.1		59.5	54.0	72.8		76.0	65.5			76.0	65.5	58.2		
10:45	57.1		59.0	53.5	54.9		56.0	52.0	57.3		58.5	54.5	71.7		75.0	62.5			75.0	62.5	58.4		
10:50	60.9		65.5	53.5	53.4		54.5	52.0	58.1		60.0	54.5	62.1		66.5	54.0			66.5	54.0	56.4		
10:55	56.8		59.0	53.5	56.8		57.0	52.0	58.7		61.5	55.0	57.3		59.0	54.5			59.0	54.5	57.7		
11:00	61.0		65.0	54.5	59.1		61.5	52.0	58.9		61.5	55.5	58.3		60.0	55.0	60.0		63.0	54.5	72.1		
11:05	57.0		59.0	54.5	53.1		54.0	51.0	60.2		60.5	54.5	57.7		60.5	53.5	60.0		64.0	53.0	66.9		
11:10	55.2		56.5	53.0	54.0		55.5	51.5	57.6		59.5	54.5	57.6		59.0	53.0	54.9		56.5	52.5	68.1		
11:15	58.9		62.0	54.0	54.5		56.5	51.0	56.6		57.5	54.0	58.2		60.0	53.5	56.6		58.0	52.5	71.9		
11:20	59.2		62.0	54.0	55.1		55.0	51.0	55.4		57.0	53.5	57.2		59.5	52.0	60.5		63.0	53.5	68.9		
11:25	54.3		55.5	52.5	55.6		58.5	51.0	57.2		59.5	54.0	59.6		63.0	53.0	69.8		70.5	55.5	71.5		
11:30	57.9		61.5	53.0	58.8		61.5	52.0	56.6		57.5	53.5	56.8		59.5	53.0	66.8		66.0	53.0	70.4		
11:35	55.7		57.0	52.5	56.6		59.5	51.5	58.0		59.5	53.5	53.9		55.0	51.5	62.2		64.0	53.5	78.5		
11:40	55.1		57.0	52.5	54.0		56.0	50.5	55.0		56.0	53.0	54.6		55.0	51.0	58.9		62.5	53.0	56.4		
11:45	60.6		64.5	52.5	56.8		58.0	51.5	57.4		59.0	53.0	54.0		55.5	51.5	60.0		63.5	53.5	60.1		
11:50	55.9		56.0	50.5	56.9		59.5	52.5	55.0		57.0	52.5	53.1		54.5	50.5	60.6		64.5	52.5	53.8		
11:55	60.7		60.0	51.0	54.3		55.5	51.0	55.3		56.5	53.0	54.6		56.0	51.0	56.9		55.5	52.0	54.3		
12:00	60.8		61.0	52.0	53.4		54.5	51.5	55.8		56.5	53.5	53.7		54.5	51.0	54.5		55.5	52.5			
12:05	57.4		57.0	51.0	53.2		54.5	50.5	57.0		57.0	53.0	53.6		54.5	50.5	59.6		61.0	52.5			
12:10	56.0		56.5	51.5	52.2		53.0	50.0	57.5		59.5	53.5	53.6		54.0	50.0	54.4		56.5	52.0			
12:15	57.1		59.0	52.0	52.5		53.5	50.0	5														

Noise Monitoring Station
AC05 - North Lamma Clinic (* The shadowed box - rainy condition and no noise monitoring was conducted)

Baseline Data for Normal Daytime 0700-1900

Date	10 Aug 2009			11 Aug 2009			12 Aug 2009			13 Aug 2009			14 Aug 2009			15 Aug 2009			16 Aug 2009						
	Time	Leq(5mins)	Leq(30mins)	L10(5mins)	L90(5mins)	Leq(30mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(30mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(30mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(30mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(30mins)	L10(5mins)	L90(5mins)	
13:00	55.6			56.0	52.0	57.6			59.5	53.0	58.8			62.5	54.0	56.9			58.5	53.0	54.9			56.0	52.0
13:05	53.3			54.0	51.5	55.7			56.0	52.5	59.1			60.5	55.5	56.0			57.5	53.0	57.7			59.5	53.0
13:10	56.4		56.9	58.0	53.0	56.0			57.5	53.5	57.8			59.5	54.5	55.7			57.0	53.5	59.5			61.5	53.0
13:15	55.2			57.0	52.5	60.3		57.3	64.0	53.5	59.0			60.0	54.5	66.9			72.0	53.5	66.9			70.0	59.5
13:20	56.3			58.0	53.5	56.2			58.0	53.5	62.6			62.0	55.0	60.0			59.0	53.0	66.3			69.5	60.5
13:25	60.7			62.0	52.5	55.6			57.0	54.0	58.8			61.0	55.0	58.8			61.0	54.0	67.1			70.5	60.5
13:30	55.0			57.0	53.0	57.9			58.5	54.0	57.0			59.0	54.5	64.0			60.5	54.0	67.6			70.5	60.5
13:35	55.8			57.5	53.0	55.6			57.0	54.0	59.3			61.5	54.5	64.8			69.0	53.5	69.8			71.5	65.5
13:40	58.3			61.5	53.5	58.0			61.0	54.0	60.6			62.0	54.0	59.7			63.5	54.5	67.9			70.5	59.5
13:45	59.8			62.5	55.0	59.3			62.0	54.0	56.6			58.5	54.0	56.1			57.5	53.5	63.5			65.5	53.0
13:50	57.5			60.0	53.5	57.7			60.0	54.5	56.6			58.5	54.0	58.4			60.5	53.5	60.2			62.5	52.0
13:55	62.9			62.5	53.5	56.4			58.0	54.5	57.2			59.5	54.0	66.9			65.0	53.5	61.5			64.5	53.5
14:00	56.1			58.5	53.5	58.6			59.0	54.5	55.9			57.5	54.0	59.9			60.5	54.0	68.9			72.5	59.5
14:05	59.6			61.0	53.5	56.4			57.5	54.5	58.6			60.5	55.0	57.9			60.0	54.5	70.7			74.0	64.0
14:10	59.4			62.0	54.5	62.5			61.0	54.5	57.5			59.0	55.0	62.3			66.0	53.5	71.5			74.0	65.5
14:15	61.9			65.5	55.0	58.4			59.5	53.5	58.5			60.5	54.0	55.2			56.5	52.5	71.4			74.0	64.0
14:20	60.2			64.0	54.5	61.4			65.5	53.0	61.0			63.0	55.0	58.7			62.0	52.5	71.3			73.5	65.0
14:25	58.1			61.0	54.0	56.2			58.5	52.0	58.1			59.5	54.0	59.0			62.0	53.5	71.7			74.5	64.5
14:30	56.6			59.0	53.0	55.7			57.0	53.0	56.1			58.0	54.0	61.5			64.0	53.0	71.2			73.5	64.5
14:35	59.5			62.5	54.0	58.0			58.5	53.0	62.9			59.5	54.0	58.0			59.0	54.0	69.0			72.5	58.0
14:40	60.6			64.5	53.5	57.0			58.5	53.5	58.2			60.5	54.5	63.7			65.0	54.5	58.3			61.0	54.5
14:45	58.6			61.5	53.5	56.3		56.9	57.5	54.0	57.8			59.5	54.0	56.3			57.5	53.0	58.7			62.0	54.5
14:50	60.6			63.5	54.0	58.7			59.0	53.0	57.5			58.5	54.0	58.8			60.0	53.5	58.1			61.0	54.0
14:55	59.7			62.0	53.0	53.8			55.0	52.0	57.6			59.0	54.5	56.5			57.5	54.5	64.3			67.5	55.0
15:00	61.5			64.0	53.5	54.9			56.5	52.0	57.4			59.5	54.0	60.6			64.0	54.5	66.6			70.0	59.0
15:05	57.3			58.5	53.0	53.9			55.0	52.0	58.8			60.5	54.0	66.9			68.5	54.5	60.8			64.5	54.5
15:10	57.2			59.5	53.5	54.0			55.5	52.0	56.5			59.0	53.5	60.1			61.0	54.5	58.2			58.0	54.5
15:15	59.1			62.5	53.5	56.2			57.5	52.5	56.3			58.0	54.0	56.6			58.5	54.0	58.1			59.0	54.0
15:20	55.4			57.0	52.5	55.2			57.0	52.5	56.2			58.0	54.0	63.0			63.5	55.0	64.9			67.5	60.0
15:25	55.1			56.5	53.0	53.8			55.0	51.5	55.7			58.0	53.5	64.2			66.0	54.0	67.4			70.0	60.5
15:30	56.0			57.5	52.5	55.9			59.0	52.0	56.7			58.0	53.5	67.9			67.0	54.5	65.3			68.5	58.0
15:35	56.6			58.0	53.0	57.7			61.0	52.5	56.1			57.5	53.5	59.7			62.0	53.5	56.6			58.5	54.0
15:40	56.6			58.0	53.5	57.3			59.5	52.5	57.9			59.5	54.0	58.1			58.0	54.0	56.6			58.5	54.5
15:45	60.7			63.0	53.5	54.9			56.5	52.5	59.4			61.0	55.0	67.5			69.5	54.0	61.0			65.0	54.0
15:50	55.4			58.0	52.0	58.3			60.5	53.0	62.5			63.5	55.0	59.3			59.0	55.0	62.3			64.5	58.0
15:55	56.4			58.5	51.5	57.6			58.5	53.0	59.5			61.0	55.5	56.8			58.5	55.0	71.4			74.5	64.0
16:00	56.8			60.5	51.5	56.8			59.5	52.5	60.4			63.0	56.0	67.1			70.5	56.0	72.0			74.5	65.5
16:05	54.9			57.0	51.5	56.1			58.0	53.0	58.9			60.5	55.5	60.9			60.5	55.5	71.0			73.5	64.0
16:10	56.8			60.0	51.5	55.8			57.5	53.0	57.2			59.0	55.0	57.5			59.0	55.5	70.9			73.5	63.5
16:15	54.1			56.0	51.5	56.6			59.0	52.5	56.2			57.5	54.5	62.8			57.0	52.5	72.0			74.5	65.0
16:20	57.1			59.5	52.5	56.8			59.0	53.0	58.5			59.0	55.0	64.8			68.0	52.5	70.0			73.0	63.0
16:25	55.8			57.5	53.0	57.3			59.5	53.5	59.2			60.0	55.5	68.3			65.5	52.0	69.4			72.5	62.5
16:30	57.6			60.0	52.5	55.2			56.5	52.5	59.0			60.5	55.0	59.7			62.0	53.0	66.7			71.0	54.5
16:35	64.4			68.0	54.5	54.7			57.0	52.0	60.0			61.0	55.0	60.5			65.0	52.5	58.8			61.0	55.0
16:40	63.7			67.0	53.5	55.0			56.5	52.0	59.7			61.0	54.5	58.5			61.5	54.0	58.4			61.0	54.5
16:45	54.3			56.0	52.0	55.3			57.5	52.0	60.0			61.5	54.5	58.1			59.5	54.0	56.7			58.5	54.5
16:50	58.5			59.5	53.5	54.1			55.5	51.5	57.5			59.0	54.5	57.1			60.0	52.5	58.2			57.5	54.0
16:55	59.1			60.0	53.5	57.2			58.5	52.0	57.7			60.5	54.5	69.2			74.0	53.5	57.2			58.5	54.0
17:00	58.3			58.5	52.5	55.0			57.0	52.0	55.4			56.5	53.5	72.5			74.0	69.0	56.4			58.0	54.0
17:05	55.1			56.5	53.0	54.1			56.0	51.5	58.3			59.5	55.0	71.3			73.5	68.0	58.5			60.5	54.0
17:10	57.7			60.5	52.5	63.8			66.0	54.0	57.6			59.5	53.5	70.0			73.5	52.5	56.8			58.5	53.5
17:15	54.7			57.0	52.0	65.5			67.0	54.0	57.5			60.0	53.5	53.2			54.5	51.0	56.8			58.0	53.5
17:20	55.9			57.5	52.0	54.2			56.0	51.5	59.3			61.5	55.0	54.3			55.5	51.0	58.8			62.0	53.5
17:25	56.0			57.0	52.0	56.5			59.5	51.5	57.6			59.5	54.0	53.6			55.5	51.0	72.5			77.0	53.5
17:30	57.8			60.5	52.5	53.5			54.5	51.0	56.0			57.5	53.5	57.2			61.0	51.0	54.8			56.0	53.0
17:35	65.0			67.0	54.5	55.1			57.0	51.5	56.2			58.0	54.0	54.6			56.5	51.0	68.3			71.0	55.5
17:40	64.6			67.5	52.5	55.9			57.5	51.5	55.7			57.5	53.5	54.4			56.5	51.5	66.5			70.5	53.0
17:45	54.4			56.5	51.5	57.6			59.5	51.5	56.0			57.5	53.5	54.9			56.5	51.0	56.0			60.0	53.0
17:50	58.1			59.5	53.0	61.1			64.5	52.5	57.6			60.5	53.0	65.5			67.5	52.0	54.8			56.0	53.0
17:55	56.7			58.5	52.0	55.0			56.5	51.5	59.2			62.0	54.5	53.6			55.5	51.0	57.0			56.5	53.0
18:00	56.7			58.0	51.5	58.0			59.5	52.0	55.7			57.0	53.0	55.8			58.5	51.5	54.1			55.0	53.0
18:05	53.5			55.0	51.5	55.0			57.0	51.5	55.2			57.0	52.5	54.8			56.5	51.5	54.1			54.5	53.0

Noise Monitoring Station

AC05 - North Lamma Clinic (* The shadowed box - rainy condition and no noise monitoring was conducted)

Baseline Data for Restricted Hour 1900-2300

Date	1 Aug 2010				2 Aug 2010				3 Aug 2010				4 Aug 2010				5 Aug 2010				6 Aug 2010					
	Time	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)	
19:00	54.4			57.0	50.5	53.3			54.5	49.0	55.2			56.5	53.0	54.4			55.0	52.0			51.6		53.5	48.5
19:05	56.1	57.1		59.0	50.0	53.9			55.5	50.0	57.3			59.0	54.0	54.1			54.0	52.5			51.2	51.4	52.0	49.0
19:10	59.4			60.0	58.0	54.3			55.5	50.5	57.0			59.0	54.0	57.1			57.0	53.0			51.3		52.0	49.0
19:15	57.7			60.0	50.0	54.4			56.0	49.5	55.4			56.5	53.5	53.4			54.0	52.5			55.1		56.0	48.5
19:20	50.8	54.5		51.5	49.0	53.6			55.5	49.0	54.5			55.5	53.0	53.7			54.0	52.5			50.8	52.8	52.0	48.0
19:25	51.3			52.5	49.0	52.6			54.0	49.0	54.8			56.0	52.5	53.6			54.0	52.0			50.9		51.5	48.0
19:30	55.5			58.0	52.0	52.6			54.0	49.5	55.4			57.0	53.0	53.7			54.0	52.5			51.0		52.0	48.5
19:35	54.8	54.7		56.5	51.5	59.4			62.0	50.5	55.8			57.5	53.0	53.8			54.5	52.5			51.9	52.4	53.5	49.0
19:40	53.5			54.5	52.0	54.5			57.0	50.0	57.4			59.5	53.5	54.8			55.5	52.5			53.9		56.0	49.5
19:45	52.8			53.5	51.5	55.4			57.0	50.0	55.8			57.5	53.0	57.1			59.5	53.0			54.2		56.5	49.5
19:50	52.6	52.7		54.0	50.5	58.0			59.0	51.0	55.2			56.5	53.0	55.3			56.0	53.0			55.0	54.5	56.5	50.0
19:55	52.6			53.5	51.0	56.1			58.5	51.5	55.4			57.0	53.0	55.5			56.5	53.0			54.4		56.5	50.0
20:00	51.8			52.5	50.5	55.5			57.5	51.0	54.7			56.0	52.5	58.3			57.0	53.5			53.0		54.5	49.5
20:05	52.0	52.1		52.5	50.5	62.2			64.0	51.5	55.1			56.5	52.5	56.5			58.0	53.5			53.2	54.8	55.5	49.5
20:10	52.5			53.5	51.0	57.5			60.0	51.0	57.4			59.5	53.0	54.5			55.5	52.5			56.9		58.0	50.0
20:15	51.9			52.5	50.5	53.7			55.5	50.0	54.6			55.5	52.5	54.6			55.0	53.0			53.8		56.0	50.0
20:20	51.4	57.5		52.0	50.0	53.6			55.5	50.0	56.4			58.5	53.0	54.8			55.5	52.5			55.2	54.2	57.5	49.5
20:25	61.4			66.0	50.5	53.4			54.5	50.5	54.8			55.5	52.5	54.5			55.5	52.5			53.3		55.5	49.5
20:30	62.0			63.5	59.5	54.0			55.0	51.0	54.7			56.0	52.0	55.0			56.0	52.5			56.8		58.0	52.5
20:35	64.1	61.6		67.0	50.5	54.0			55.0	50.5	54.8			56.0	52.0	54.6			55.5	52.5			55.7	56.0	57.5	52.0
20:40	52.4			52.0	49.0	54.4			56.5	51.0	56.9			59.0	52.0	54.8			55.0	53.0			55.2		57.0	52.0
20:45	51.4			52.5	48.5	55.2			57.5	50.5	56.5			58.5	52.0	54.1			54.5	52.5			55.3		57.5	52.5
20:50	51.4	51.1		53.5	49.0	54.8			57.0	51.5	54.5			56.0	52.0	54.1			54.5	53.0			55.6	56.6	58.0	52.5
20:55	50.3			51.0	48.0	54.5			56.0	51.5	53.7			54.5	52.0	54.0			54.5	53.0			58.2		59.5	52.5
21:00	49.8			50.5	47.5	55.3			57.0	51.5	53.6			54.5	52.0	53.5			54.0	52.5			57.1		60.5	52.5
21:05	51.7	50.5		54.5	47.5	55.6			57.0	52.0	54.1			55.0	52.5	53.5			54.0	52.5			55.4	56.0	57.5	52.5
21:10	49.8			50.5	47.0	55.1			56.0	52.0	55.6			57.0	53.0	54.2			55.0	53.0			55.1		56.5	52.0
21:15	50.2			51.0	48.0	53.8			55.5	51.5	57.1			59.5	52.5	55.0			56.5	53.5			53.8		54.5	52.0
21:20	52.1	51.0		54.0	48.5	56.0			58.0	51.0	56.2			57.5	52.0	54.6			56.5	52.5			54.4	54.1	55.0	52.0
21:25	50.4			51.0	48.5	54.8			57.0	51.0	55.8			57.5	52.5	52.8			53.5	51.5			54.1		55.0	52.0
21:30	50.8			51.5	49.0	68.4			71.5	57.0	56.8			59.0	52.5	52.7			53.5	51.5			55.9		58.0	52.0
21:35	51.4	51.0		52.0	48.5	69.2			74.0	54.5	56.6			59.0	52.5	53.1			54.0	52.0			53.8	55.0	55.0	52.0
21:40	50.7			51.5	49.0	55.1			56.0	51.5	57.3			59.5	52.5	53.4			54.0	52.0			54.9		56.0	52.0
21:45	50.6			51.5	48.5	54.4			55.5	51.5	56.2			58.5	52.0	54.0			55.5	52.0			55.2		55.5	52.0
21:50	52.3	51.7		55.0	49.5	55.2			56.0	52.5	56.6			57.5	52.0	57.2			60.0	53.0			54.5	54.7	56.0	52.0
21:55	52.1			52.5	50.5	55.6			56.5	53.5	54.5			56.5	52.0	57.1			59.0	53.0			54.3		55.0	51.5
22:00	52.2			53.5	50.0	56.1			57.5	53.5	55.2			56.0	52.0	55.6			57.0	53.0			53.0		54.0	51.5
22:05	52.1	51.8		53.5	50.0	55.5			56.5	53.0	53.9			55.0	52.0	54.9			56.0	53.0			53.6	53.1	54.5	51.5
22:10	51.1			52.0	49.5	55.6			56.5	53.0	53.8			55.0	51.5	55.5			56.5	52.5			52.8		53.5	51.5
22:15	51.3			52.0	50.0	54.9			56.0	53.5	54.3			55.5	51.5	54.0			55.0	52.5			52.9		53.5	51.5
22:20	50.9	51.6		52.0	49.0	67.1			71.0	54.0	54.8			56.5	51.5	54.4			55.5	52.5			52.5	52.5	53.0	51.0
22:25	52.4			51.5	48.5	69.8			74.0	52.5	54.7			56.5	51.5	53.1			53.5	51.5			52.2		52.5	51.0
22:30	50.4			51.0	48.0	54.7			55.5	52.5	57.3			57.0	51.5	54.9			55.5	52.0			52.2		52.5	51.0
22:35	50.2	50.3		51.0	48.5	54.7			55.5	52.5	54.9			56.5	51.5	53.0			54.0	51.5			52.3	52.3	53.0	51.0
22:40	50.3			51.0	48.5	54.1			54.5	52.5	55.7			57.0	52.0	53.1			53.5	51.5			52.4		53.0	51.0
22:45	50.7			52.0	48.5	54.1			55.0	52.5	55.2			57.5	51.5	52.9			53.5	51.5			52.7		54.0	51.0
22:50	50.3	50.6		51.0	48.5	54.2			55.0	52.5	52.9			53.5	51.0	52.7			53.0	51.5			52.5	52.6	53.0	51.0
22:55	50.9			52.5	48.5	54.3			55.5	52.5	52.4			53.0	51.0	52.7			53.5	51.5			52.5		53.5	51.0

Noise Monitoring Station

AC05 - North Lamma Clinic (* The shadowed box - rainy condition and no noise monitoring was conducted)

Baseline Data for Restricted Hour 1900-23

Date	7 Aug 2010				8 Aug 2010			9 Aug 2010			10 Aug 2010			11 Aug 2010							
Time	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)	
19:00	53.6		55.5	51.0	51.6		52.5	49.5	53.4		55.0	51.0	51.8		52.5	49.5	56.9			60.0	50.0
19:05	55.1	54.7	57.0	51.5	52.2	53.7	54.0	49.0	55.4	54.6	57.5	51.5	52.3	52.1	53.5	50.0	51.4	54.0	54.0	52.0	49.0
19:10	55.2		57.5	51.0	55.9		55.5	48.0	54.9		55.5	51.0	52.2		53.0	49.5	51.1			52.0	48.5
19:15	56.6		58.0	50.0	51.9		53.5	48.0	54.6		56.0	50.0	51.4		52.5	49.0	51.4			52.0	48.5
19:20	52.2	54.4	53.5	50.0	50.1	50.9	51.0	48.0	54.3	54.1	56.5	50.5	51.5	52.8	53.0	49.0	51.5	51.8	51.8	52.0	49.0
19:25	53.1		54.5	50.0	50.5		51.0	48.0	53.2		55.0	50.5	54.7		55.5	49.5	52.4			54.0	49.0
19:30	54.5		56.0	50.5	49.6		50.5	47.5	52.4		53.5	50.5	52.6		54.0	50.0	52.5			54.5	50.0
19:35	54.1	54.1	56.0	50.5	55.5	52.7	57.5	48.0	52.5	53.0	54.0	50.5	53.0	53.2	55.0	50.0	54.1	54.1	54.1	56.5	50.0
19:40	53.5		55.0	50.5	50.4		51.0	48.0	53.9		55.5	50.5	53.9		55.5	50.0	55.2			57.0	50.0
19:45	53.1		54.5	50.5	50.7		51.0	48.0	55.5		57.5	52.0	54.1		56.0	50.5	54.1			56.0	50.0
19:50	54.2	53.8	56.0	50.5	50.3	51.3	51.0	48.5	56.0	55.4	58.5	52.0	53.6	53.6	55.0	50.0	55.0	54.6	54.6	56.5	50.5
19:55	54.1		55.5	51.0	52.6		54.0	48.5	54.6		56.5	51.5	53.0		54.5	49.5	54.7			57.0	50.5
20:00	54.4		56.0	51.0	50.4		51.0	48.5	55.6		58.0	51.5	52.4		54.0	49.5	55.0			57.0	50.0
20:05	55.9	54.7	58.5	51.0	50.0	50.2	51.0	48.0	55.0	55.6	57.0	51.0	59.0	56.0	59.5	50.0	53.1	53.9	53.9	54.5	49.5
20:10	53.5		55.5	50.0	50.2		51.0	48.5	56.0		58.0	52.0	53.3		55.0	49.5	53.5			54.5	50.0
20:15	54.0		55.5	50.0	51.8		52.5	48.5	55.6		58.0	52.0	55.2		54.5	49.5	55.0			55.5	49.5
20:20	53.9	54.8	56.0	50.5	50.5	50.8	51.5	48.5	56.4	56.2	57.5	52.0	63.2	63.4	65.0	49.5	54.7	54.9	54.9	55.5	52.5
20:25	56.1		57.0	50.0	50.0		51.0	48.0	56.5		57.5	52.0	66.1		67.5	63.5	55.0			56.0	53.0
20:30	54.4		56.5	49.5	50.0		51.0	48.0	53.5		54.5	51.0	68.1		70.0	64.0	55.9			58.5	53.0
20:35	52.5	53.6	54.5	49.0	52.3	51.0	53.0	48.5	55.1	54.4	58.0	51.0	54.3	63.8	57.0	50.0	55.5	55.8	55.8	57.0	52.5
20:40	53.7		55.5	49.0	50.4		51.0	48.0	54.5		55.0	52.0	56.7		59.5	51.0	56.0			57.0	53.0
20:45	56.1		58.5	50.0	51.2		52.5	48.5	53.3		54.0	50.5	53.2		55.0	49.5	57.1			60.0	53.0
20:50	55.7	55.5	57.5	50.0	54.1	52.3	57.0	50.0	55.4	54.7	57.5	51.0	57.1	55.1	60.0	51.0	57.4	56.7	56.7	59.0	53.0
20:55	54.5		56.5	50.0	50.7		51.5	48.5	55.2		57.5	51.0	53.9		56.0	50.0	55.3			56.5	52.5
21:00	52.9		55.0	49.0	51.9		53.5	49.0	54.8		56.5	51.0	54.5		57.5	50.5	56.1			58.0	53.0
21:05	55.1	54.8	56.5	49.0	53.2	52.7	53.5	51.5	55.0	54.9	57.0	50.5	55.8	55.5	58.0	51.0	56.3	56.1	56.1	57.5	53.0
21:10	55.9		58.0	50.0	52.9		53.5	51.5	55.0		57.0	51.5	56.1		57.5	52.0	55.9			57.0	53.0
21:15	54.1		56.5	49.5	52.9		54.0	51.5	55.8		58.5	51.0	57.5		60.5	52.5	54.7			56.0	52.5
21:20	56.0	55.5	58.5	49.5	53.5	53.0	55.0	52.0	57.9	57.4	60.5	51.0	53.9	55.3	54.5	52.0	55.2	55.3	55.3	56.5	52.5
21:25	56.0		59.0	50.0	52.6		53.0	51.5	58.2		61.5	51.5	53.2		53.5	52.0	55.8			58.0	53.0
21:30	58.1		56.0	52.0	53.3		54.0	51.5	57.0		59.5	51.5	54.3		55.0	52.0	54.7			56.0	52.5
21:35	53.7	56.7	55.0	51.5	54.5	53.7	57.0	51.5	55.8	55.9	58.5	51.0	53.6	53.8	54.5	52.0	55.4	55.2	55.2	56.5	52.5
21:40	57.1		59.0	54.5	53.1		54.0	51.5	54.4		56.0	50.5	53.3		54.0	52.0	55.4			57.0	52.5
21:45	53.5		54.5	51.5	53.0		54.0	51.5	54.9		57.0	50.5	54.2		56.5	52.0	55.4			57.0	52.0
21:50	53.7	53.6	54.0	51.5	52.3	52.5	53.0	51.0	55.6	55.2	58.5	51.0	52.9	53.3	53.5	52.0	54.7	54.8	54.8	56.0	52.0
21:55	53.7		54.5	52.0	52.0		52.5	51.0	55.0		56.5	50.5	52.8		53.5	52.0	54.3			55.5	52.0
22:00	53.9		54.5	52.0	52.0		52.5	51.0	55.2		57.0	50.5	52.7		53.0	51.5	57.7			58.5	52.0
22:05	54.1	54.4	55.5	52.0	52.3	52.2	52.5	51.0	55.7	55.9	58.0	50.5	54.6	53.6	57.0	52.0	55.8	57.6	57.6	58.0	52.0
22:10	55.2		55.5	51.5	52.4		53.0	51.0	56.7		58.5	51.0	53.2		53.5	52.0	58.8			61.5	52.5
22:15	55.3		57.5	52.5	52.2		53.0	51.0	56.2		59.5	50.5	52.8		53.5	52.0	58.7			60.5	52.5
22:20	56.6	55.6	59.0	52.5	52.7	52.5	53.5	51.0	56.2	56.1	58.0	51.0	53.1	53.1	53.5	52.0	58.1	58.3	58.3	59.5	52.5
22:25	54.5		56.0	52.0	52.5		53.5	51.0	55.8		57.0	50.5	53.5		54.5	52.0	58.2			60.5	52.5
22:30	68.6		71.5	61.0	52.9		53.0	51.0	54.6		56.5	51.5	53.2		54.0	52.0	56.0			58.0	52.0
22:35	69.5	68.7	72.0	64.5	52.5	52.6	53.0	51.0	56.1	56.1	59.0	52.0	53.0	53.1	53.5	52.0	56.3	55.9	55.9	56.5	52.0
22:40	67.7		70.0	62.5	52.4		53.5	51.0	57.2		58.0	52.0	53.2		54.0	52.0	55.4			57.0	52.0
22:45	60.7		62.0	55.5	51.9		52.5	50.5	58.2		59.0	52.0	54.4		56.0	52.0	57.0			58.0	52.0
22:50	61.2	59.8	61.0	53.5	53.4	52.5	54.0	51.0	55.1	56.0	56.5	52.0	54.4	54.2	56.0	52.5	55.2	55.8	55.8	57.0	52.5
22:55	55.5		55.5	52.5	52.1		52.5	51.0	53.2		54.0	51.5	53.8		54.5	52.5	55.0			56.0	52.5

Noise Monitoring Station

AC05 - North Lamma Clinic (* The shadowed box - rainy condition and no noise monitoring was conducted)

00

Date	12 Aug 2010				13 Aug 2010				14 Aug 2010				15 Aug 2010				16 Aug 2010			
Time	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)
19:00	57.8		60.0	53.5	55.7		57.5	53.0	71.2		73.5	66.0	56.1		58.5	51.0	50.4		51.0	48.5
19:05	54.9	55.8	56.0	53.0	55.4		57.0	51.5	69.9		73.0	63.0	63.0		66.0	56.0	51.3	51.2	52.5	49.0
19:10	53.8		54.0	52.5	55.4		57.5	52.0	68.2	69.9	71.5	61.5	64.0	62.1	66.5	59.5	51.8		53.5	49.0
19:15	54.3		54.5	52.5	65.8		71.5	52.0	69.4		72.0	64.0	64.2		67.0	57.0	55.1		57.5	49.5
19:20	53.7	53.9	54.5	52.5	67.9		71.0	60.0	70.6	68.3	73.0	61.0	63.7	62.9	66.5	57.5	50.8	52.7	51.5	49.0
19:25	53.6		54.5	52.5	69.9		73.5	61.0	53.0		54.5	50.0	59.7		63.0	54.0	50.7		51.5	49.0
19:30	53.8		54.0	52.5	70.3		73.0	63.5	51.4		52.5	49.5	55.8		57.5	53.5	50.8		51.5	49.0
19:35	55.2	54.2	56.0	52.5	71.5		75.0	63.5	52.9	52.4	54.0	49.5	55.9	55.5	57.5	52.5	50.6	50.7	51.5	49.0
19:40	53.3		55.0	50.5	69.6		72.5	62.0	52.7		54.0	49.5	54.7		56.5	52.5	50.7		51.5	49.0
19:45	52.4		54.0	50.0	60.4		63.0	52.0	53.6		55.0	50.5	60.9		64.0	54.0	52.1		53.0	50.5
19:50	52.5	52.9	53.0	50.0	55.4		57.0	52.0	54.2	59.9	55.5	50.5	61.3	60.5	64.0	55.0	52.7	52.5	53.5	51.5
19:55	53.8		54.5	50.0	55.1		57.0	51.5	63.9		66.5	57.0	58.9		61.0	54.5	52.6		53.5	51.0
20:00	53.6		54.5	49.0	61.7		66.0	52.0	60.8		63.5	55.5	58.4		61.5	53.0	50.9		52.0	49.0
20:05	52.4	53.9	54.0	49.0	65.7		67.5	61.0	66.2	67.5	69.0	58.5	56.0	57.4	57.5	52.5	51.5	51.1	52.5	49.0
20:10	55.3		58.0	49.0	64.8		68.5	52.5	70.6		73.5	63.5	57.4		58.5	53.0	51.0		51.5	49.0
20:15	54.1		56.5	50.0	66.7		69.5	60.5	71.7		74.5	64.0	54.8		56.0	52.0	53.5		52.5	49.0
20:20	53.1	53.3	54.5	49.5	66.9		69.0	62.0	71.4	71.4	73.5	67.0	60.0	58.7	63.0	53.5	50.6	52.0	51.5	49.0
20:25	52.4		54.0	49.0	70.5		73.5	65.0	71.2		73.5	65.0	59.6		62.5	54.0	51.2		52.0	49.5
20:30	54.6		56.0	49.5	70.5		73.5	64.5	72.3		75.0	67.0	63.0		66.0	57.0	52.0		53.0	49.5
20:35	55.7	55.4	57.5	50.0	72.9		75.0	69.0	68.0	69.8	71.0	61.0	60.8	62.4	64.5	53.0	51.7	52.6	53.0	49.5
20:40	55.9		57.0	52.0	72.8		75.0	68.0	67.4		71.0	60.5	63.1		65.5	58.5	53.8		55.5	50.5
20:45	56.2		58.5	52.5	67.4		70.0	60.0	72.0		74.5	66.5	61.3		64.5	54.0	54.7		57.0	51.5
20:50	54.8	55.6	56.0	52.5	65.6	65.0	69.5	51.5	73.1	71.6	75.5	68.5	60.8	60.1	64.0	54.0	56.1	55.2	57.5	51.5
20:55	55.6		57.0	53.0	55.5		57.0	51.0	68.8		72.5	62.0	57.3		60.0	54.0	54.7		56.5	51.0
21:00	55.7		58.0	52.5	56.4		57.5	51.5	68.4		71.0	63.0	56.5		59.0	54.0	54.9		56.0	50.5
21:05	56.2	55.5	58.0	52.5	68.5	66.2	72.5	61.5	68.2	70.3	71.0	63.0	58.7	58.9	61.0	54.5	56.0	55.8	56.5	51.0
21:10	54.5		56.0	52.0	67.1		71.0	53.5	72.7		74.5	68.0	60.5		63.0	55.0	56.3		58.5	52.5
21:15	53.6		55.0	52.0	57.2		59.5	53.5	72.7		74.5	68.5	68.1		73.0	54.5	55.1		56.5	52.0
21:20	53.2	53.3	54.0	51.5	56.3	62.4	57.0	53.5	73.5	73.1	76.0	68.5	66.6	67.1	67.5	65.0	54.6	54.9	56.0	52.0
21:25	53.2		53.5	51.5	66.3		69.0	58.5	73.1		76.0	54.0	66.5		70.5	54.0	55.1		56.0	51.5
21:30	53.2		54.0	51.5	68.9		71.5	63.5	55.8		58.5	52.5	56.9		59.0	53.5	55.1		56.5	52.0
21:35	55.9	54.4	59.0	52.0	68.6	69.3	71.5	62.5	54.2	54.8	55.5	52.0	57.3	57.2	59.0	54.0	55.1	54.8	56.0	51.5
21:40	53.6		55.0	51.5	70.2		73.0	65.5	54.1		55.0	52.0	57.5		59.5	54.0	54.0		55.0	52.0
21:45	53.1		54.0	51.5	65.6		70.5	53.0	59.1		64.0	52.0	58.0		60.0	53.5	55.2		56.0	52.0
21:50	53.1	53.8	54.0	51.5	55.7	65.1	57.5	53.0	68.9	68.1	72.0	61.0	58.6	57.8	60.5	53.5	54.3	55.7	56.5	50.0
21:55	54.9		56.5	52.5	67.5		72.0	53.0	70.3		73.0	64.0	56.6		58.5	53.0	57.1		60.5	50.0
22:00	54.3		56.0	52.0	67.4		71.5	53.0	63.9		71.0	52.0					55.5		58.5	49.5
22:05	55.1	54.7	57.0	52.0	57.7	63.4	59.5	53.0	52.7	59.9	53.5	51.5					55.3	55.7	58.0	49.5
22:10	54.7		56.0	52.0	56.4		58.5	52.5	54.2		55.5	52.0					56.3		58.0	49.5
22:15	53.5		54.5	52.0	56.7		58.5	52.5	53.4		54.5	52.0					56.9		59.5	52.5
22:20	53.6	53.6	54.5	51.5	57.2	56.7	59.5	52.5	54.1	53.7	55.0	52.0					58.2	56.9	60.0	52.5
22:25	53.7		55.0	52.0	56.0		58.5	52.0	53.5		54.0	52.0					55.1		56.5	52.0
22:30	54.2		55.5	52.0	54.9		56.5	52.5	54.0		54.5	52.0					55.4		57.5	52.0
22:35	54.2	54.0	55.5	52.0	54.9	55.3	56.0	52.0	54.3	53.8	54.0	51.5					54.3	55.1	55.5	51.5
22:40	53.6		54.5	52.0	56.0		58.0	52.5	53.0		53.5	51.5					55.6		58.0	52.0
22:45	52.9		53.5	51.5	56.8		58.5	52.5	55.1		55.5	52.0					54.6		56.0	52.0
22:50	53.0	54.0	53.5	51.5	56.9	56.2	58.5	52.5	53.0	54.0	53.5	52.0					54.8	54.2	57.0	52.0
22:55	55.6		57.5	52.5	54.6		56.5	52.0	53.5		54.0	52.0					52.8		53.5	51.5

Baseline Data for Restricted Hour 2300-0700 next day

Date	1 Aug 2010				2 Aug 2010				3 Aug 2010				4 Aug 2010						
	Time	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)		
00:00	56.2			58.5	52.5	54.8			56.5	52.5	54.0			54.5	53.0	53.1	53.5	52.0	
00:05	54.6	55.4		56.0	52.5	54.3	54.1		56.0	52.0	54.6	54.1		54.0	52.5	53.3	53.2	54.0	52.0
00:10	55.4			57.5	53.0	53.0			53.5	52.0	53.7			55.0	52.5	53.3	54.0	52.0	54.0
00:15	54.1			55.0	52.5	53.4			54.5	52.0	53.2			53.5	52.0	55.1	55.0	52.0	
00:20	53.6	53.7		54.5	52.0	53.8	53.4		55.0	52.0	52.9	52.9		53.5	51.5	53.6	54.2	54.0	52.5
00:25	53.5			55.0	51.5	53.1			53.5	52.0	52.6			53.5	51.0	53.9	54.0	52.0	54.5
00:30	55.1			58.0	51.5	57.5			62.0	52.5	52.1			52.5	51.0	53.3	53.1	54.0	52.0
00:35	54.9	54.9		57.5	52.0	56.7	56.2		60.0	53.0	52.8	52.6		53.5	51.5	53.3	53.1	54.0	52.5
00:40	54.7			57.0	52.0	53.5			54.5	52.0	52.8			53.5	51.5	52.7	53.0	51.5	52.7
00:45	54.8			57.5	51.5	57.6			59.5	52.0	52.7			53.5	51.5	54.4	56.5	52.0	
00:50	54.4	54.1		56.0	52.0	56.4	56.5		60.0	52.0	52.6	52.8		53.0	51.5	53.1	53.5	53.5	52.0
00:55	52.7			53.5	51.5	55.0			57.5	51.5	53.0			54.0	51.5	52.8	54.0	51.5	52.8
01:00	52.6			53.5	51.5	54.7			56.5	52.0	52.8			54.0	51.0	53.0	53.5	52.0	
01:05	52.5	52.6		53.0	51.0	53.5	54.3		55.0	52.0	53.6	52.8		54.0	52.5	52.3	52.6	53.0	51.0
01:10	52.6			53.0	51.0	54.5			57.0	51.5	52.0			52.5	51.0	52.5	54.0	51.0	52.5
01:15	52.7			53.5	51.5	53.7			55.5	51.5	52.0			52.5	51.0	52.0	52.5	51.0	
01:20	52.5	52.7		53.0	51.5	54.6	53.7		56.5	52.0	52.1	52.0		52.5	51.0	51.9	52.0	52.5	50.5
01:25	52.9			54.0	51.5	52.7			53.0	51.5	52.0			52.5	51.0	52.2	52.5	51.0	52.2
01:30	54.2			56.5	51.5	52.8			53.5	51.5	52.0			52.5	51.0	52.0	52.5	51.0	
01:35	52.3	53.1		53.0	51.0	54.0	53.1		56.5	51.5	52.0	52.0		52.5	51.0	52.1	52.0	52.5	51.0
01:40	52.4			53.0	51.0	52.3			53.0	51.0	52.0			52.5	51.0	52.0	52.5	51.0	52.0
01:45	55.4			58.5	51.5	52.5			53.0	51.5	52.0			52.5	51.0	51.9	52.5	50.5	
01:50	52.5	53.7		53.0	51.0	52.8	52.7		53.5	51.5	51.9	52.0		52.5	51.0	51.9	51.9	52.5	50.5
01:55	52.4			53.0	51.0	52.7			53.5	51.5	52.0			52.5	51.0	52.0	52.5	51.0	52.0
02:00	52.4			53.0	51.0	52.4			53.0	51.5	52.0			52.5	51.0	52.0	52.5	51.0	
02:05	52.3	52.6		53.0	51.0	52.4	52.4		53.0	51.5	52.0	52.0		52.5	51.0	52.0	52.0	52.5	51.0
02:10	53.0			54.5	51.5	52.3			53.0	51.0	52.0			52.5	51.0	52.1	52.5	51.0	52.1
02:15	52.9			54.0	51.0	52.3			53.0	51.0	52.0			52.5	51.0	51.9	52.0	50.5	
02:20	53.8	53.1		56.0	51.5	54.9	53.5		57.5	51.5	52.0	52.0		52.5	51.0	51.9	51.9	52.5	50.5
02:25	52.4			53.0	51.0	52.7			53.5	51.5	51.9			52.5	51.0	51.9	52.5	51.0	51.9
02:30	52.5			53.0	51.5	52.4			53.0	51.0	52.0			52.5	51.0	51.9	52.0	50.5	
02:35	53.2	52.7		54.5	51.5	52.3	52.7		53.0	51.0	52.1	52.0		52.5	51.0	51.9	51.9	52.5	50.5
02:40	52.3			53.0	51.0	53.4			55.0	51.5	52.0			52.5	51.0	51.9	52.5	51.0	51.9
02:45	52.3			53.0	51.0	53.4			55.0	51.0	55.5			57.5	51.0	52.0	52.0	51.0	
02:50	52.3	52.9		53.0	51.0	52.2	52.6		52.5	51.0	52.2	53.5		52.5	51.0	52.1	52.0	52.5	51.0
02:55	53.8			56.0	51.0	52.1			52.5	51.0	52.0			52.5	51.0	52.0	52.5	51.0	52.0
03:00	56.1			59.5	51.0	52.3			53.0	51.0	52.0			52.5	51.0	52.0	52.0	51.0	
03:05	52.9	54.2		54.0	51.0	52.2	52.2		53.0	51.0	52.0	52.0		52.5	51.0	51.9	51.9	52.5	50.5
03:10	52.9			54.0	51.0	52.1			52.5	51.0	52.1			52.5	51.0	52.0	52.5	51.0	52.0
03:15	55.8			60.0	51.0	52.1			52.5	51.0	52.0			52.5	51.0	52.0	52.0	51.0	
03:20	52.7	54.6		53.5	51.0	54.8	53.4		58.0	51.0	51.9	52.0		52.5	51.0	52.0	54.1	52.5	51.0
03:25	54.7			58.0	51.0	53.0			53.0	51.5	52.0			52.5	51.0	56.5	52.5	51.0	56.5
03:30	52.1			52.5	51.0	52.2			52.5	51.0	52.0			52.5	51.0	52.0	52.0	51.0	
03:35	52.0	52.5		52.5	51.0	52.1	52.1		52.5	51.0	51.9	51.9		52.5	51.0	52.2	52.0	53.0	51.0
03:40	53.3			55.0	51.0	52.1			52.5	51.0	51.9			52.5	50.5	52.0	52.5	50.5	52.0
03:45	52.8			53.5	51.0	52.1			52.5	51.0	51.9			52.5	50.5	51.9	51.9	52.5	50.5
03:50	52.7	52.8		54.0	51.0	52.1	52.1		52.5	51.0	51.9	51.9		52.5	50.5	51.9	51.9	52.5	50.5
03:55	52.8			54.0	51.0	52.2			52.5	51.0	51.9			52.5	50.5	51.9	52.5	50.5	51.9
04:00	52.8			54.0	51.0	52.1			52.5	51.0	51.9			52.5	50.5	52.0	52.0	51.0	
04:05	55.2	53.8		57.0	51.5	52.2	52.9		52.5	51.0	52.3	52.0		53.0	51.0	52.0	52.0	52.5	51.0
04:10	52.9			54.0	51.0	54.1			57.5	51.0	51.8			52.5	50.5	52.2	52.5	50.5	52.2
04:15	52.8			54.0	51.0	52.4			53.0	51.0	51.8			52.5	50.5	52.1	52.0	51.0	
04:20	54.4	53.2		57.0	51.0	52.1	52.2		52.5	51.0	51.8	51.8		52.5	50.5	52.1	52.1	52.5	51.0
04:25	52.1			52.5	51.0	52.0			52.5	51.0	51.8			52.5	50.5	52.2	52.5	50.5	52.2
04:30	54.5			57.5	51.0	52.1			52.5	51.0	52.0			52.5	51.0	52.1	52.0	51.0	
04:35	52.2	53.1		52.5	51.0	52.1	52.1		52.5	51.0	51.9	51.9		52.5	50.5	52.0	52.0	52.5	51.0
04:40	52.2			52.5	51.0	52.1			52.5	51.0	51.9			52.5	50.5	52.1	52.5	50.5	52.1
04:45	52.2			52.5	51.0	52.2			52.5	51.0	51.9			52.5	50.5	52.1	52.0	51.0	
04:50	53.0	52.6		54.5	51.0	52.1	52.1		52.5	51.0	51.9	51.9		52.5	50.5	51.9	51.9	52.5	50.5
04:55	52.6			53.0	51.0	52.1			52.5	51.0	52.0			52.5	51.0	51.9	52.5	51.0	51.9
05:00	56.4			60.5	51.5	52.1			52.5	51.0	51.9			52.5	51.0	51.9	51.9	52.5	50.5
05:05	52.3	54.1		52.5	51.0	52.2	52.2		52.5	51.0	52.0	52.0		52.5	51.0	51.9	51.9	52.5	50.5
05:10	52.1			52.5	51.0	52.3			53.0	51.0	52.1			52.5	51.0	52.0	52.5	51.0	52.0
05:15	53.9			55.0	51.0	52.6			53.0	51.0	51.9			52.5	51.0	52.0	52.0	50.5	
05:20	56.7	55.6		60.5	51.5	54.0	54.4		56.0	51.5	52.2	52.5		52.5	51.0	52.2	52.2	52.5	51.0
05:25	55.7			59.0	51.5	55.9			59.0	52.0	53.4			55.5	51.0	52.4	55.5	51.0	52.4
05:30	54.9			57.5	51.5	55.4			59.5	51.5	53.2			55.0	51.5	52.8	52.8	51.0	
05:35	59.4	59.3		61.5	52.5	61.4	60.3		62.0	60.0	59.1	58.2		60.0	57.5	54.6	54.6	56.0	52.5
05:40	61.3			61.5	60.5	61.8			63.0	60.5	59.8			60.5	59.0	54.5	60.5	59.0	54.5
05:45	61.7			62.5	60.5	61.2			61.5	60.0	59.8			60.5	59.0	55.0	56.5	53.0	
05:50	60.3	59.8		62.0	54.5	56.7	58.6		60.0	50.0	55.6	57.1		59.5	50.5	56.5	55.8	58.0	53.0
05:55	54.9			56.5	53.0	55.7			58.5	48.5	53.5			57.0	48.5	55.8	57.0	48.5	55.8
06:00	55.0			57.0	52.5	52.5			55.5	48.5	52.0			54.5	49.0	53.8	55.5	51.5	
06:05	53.7	54.0		54.5	52.0	52.4	51.9		54.0	48.5	52.2	52.2		55.0	47.5	53.5	53.5	55.0	51.5

Noise Monitoring Station: AC05 North Lamma Clinic (* The shadowed box - rainy condition and no noise monitoring was conducted)

Baseline Data for Restricted Hour 2300-0700 next day

Date	5 Aug 2010				6 Aug 2010				7 Aug 2010				8 Aug 2010				
	Time	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)
00:00	52.8			53.5	51.5	53.1		54.0	51.5								
00:05	53.2	53.2		54.0	52.0	53.5	53.3	54.0	52.0								
00:10	53.7			54.5	52.5	53.4		55.0	51.5								
00:15	53.1			53.5	52.0	52.9		54.0	51.5								
00:20	52.2	52.6		53.0	51.0	52.3	52.9	53.0	51.0								
00:25	52.3			53.0	51.0	53.5		55.0	51.5								
00:30	52.5			53.0	51.5	52.5		53.0	51.5								
00:35	52.4	52.4		53.0	51.0	54.4	53.4	58.0	51.0								
00:40	52.3			53.0	51.0	53.2		54.5	51.5								
00:45	52.4			53.0	51.0	53.4		54.5	52.0								
00:50	52.4	52.5		53.0	51.5	54.3	54.1	56.0	52.5								
00:55	52.8			54.0	51.0	54.5		56.5	52.0								
01:00	52.7			53.5	51.5	52.6		53.0	51.5								
01:05	52.6	52.7		53.0	51.5	55.2	54.3	59.0	51.5								
01:10	52.7			53.5	51.5	54.7		57.0	52.0								
01:15	52.3			53.0	51.0	53.8		55.5	52.0								
01:20	52.9	52.5		54.5	51.0	53.2	53.5	54.0	51.5								
01:25	52.4			53.0	51.5	53.4		55.5	51.5								
01:30	52.4			53.0	51.5	54.6		58.0	51.5								
01:35	52.3	52.3		53.0	51.0	52.4	53.6	53.0	51.5								
01:40	52.3			53.0	51.0	53.5		55.0	51.5								
01:45	52.3			53.0	51.0	52.7		53.5	51.5								
01:50	52.5	52.4		53.0	51.5	53.5	52.8	55.5	51.5								
01:55	52.3			53.0	51.0	52.2		53.0	51.0								
02:00	52.3			53.0	51.0	53.2		55.0	51.0	52.0							
02:05	52.3	52.3		53.0	51.0	52.3	52.6	53.0	51.0	52.0	52.2	52.5	51.0				
02:10	52.2			52.5	51.0	52.2		53.0	51.0	52.5		53.5	51.0				
02:15	52.2	52.3		52.5	51.0	52.1	52.7	52.5	51.0	53.9	53.2	57.0	51.0				
02:20	52.3			53.0	51.0	52.9		54.5	51.0	52.0		52.5	50.5				
02:25	52.5			53.0	51.0	53.0		54.5	51.5	53.4		56.5	50.5				
02:30	52.4			53.0	51.0	52.6		53.5	51.0	52.4		53.5	51.0				
02:35	52.3	52.3		53.0	51.0	52.1	52.3	52.5	51.0	51.8	52.5	52.5	50.5				
02:40	52.2			52.5	51.0	52.1		52.5	51.0	53.1		55.5	51.0				
02:45	52.3			53.0	51.0	52.6		53.5	51.0	51.7		52.5	50.5				
02:50	52.2	52.6		52.5	51.0	52.5	52.6	53.0	51.0	51.8	52.0	52.5	50.5				
02:55	53.3			54.0	51.5	52.8		54.0	51.0	52.5		54.0	50.5				
03:00	52.7			53.5	51.0	52.4		53.0	51.0	51.8		52.5	50.5	53.9			
03:05	52.0	52.3		52.5	51.0	52.3	52.3	52.5	51.0	51.7	51.7	52.5	50.5	53.5	53.6	55.0	51.5
03:10	52.1			52.5	51.0	52.3		53.0	51.0	51.7		52.5	50.5	53.5		55.0	51.5
03:15	52.1			52.5	51.0	52.5		53.5	51.0	51.7		52.0	50.5	54.0		56.0	51.5
03:20	53.6	52.7		55.5	51.5	52.8	53.0	54.0	51.0	53.0	52.2	55.0	50.5	54.6	53.9	57.0	51.5
03:25	52.4			53.0	51.0	53.5		56.0	51.0	51.8		52.5	50.5	53.1		54.5	51.0
03:30	53.1			54.5	51.5	52.4		53.5	51.0	51.7		52.5	50.5	52.3		53.0	50.5
03:35	53.0	52.9		54.0	51.5	53.0	53.0	54.0	51.5	51.7	52.4	52.5	50.5	51.9	52.2	52.5	50.5
03:40	52.8			53.0	51.0	53.5		55.0	51.5	53.5		56.0	50.5	52.4		53.5	50.5
03:45	52.7			54.0	51.0	53.4		55.0	52.0	54.6		57.5	51.0	53.6		55.0	51.0
03:50	52.9	53.2		54.0	51.5	54.6	64.5	55.5	52.0	52.7	53.3	53.5	51.0	52.6	52.9	53.5	51.0
03:55	53.9			56.0	51.5	69.0		70.5	66.5	52.1		53.0	51.0	52.4		53.0	51.0
04:00	52.9			54.5	51.0	68.1		71.0	52.0	52.5		54.0	51.0	53.2		55.0	51.0
04:05	55.1	53.6		58.0	51.5	52.1	63.6	52.5	50.5	52.3	52.2	53.0	51.0	54.0	53.4	55.5	51.0
04:10	52.4			53.0	51.5	53.4		55.0	51.0	51.7		52.5	50.5	52.9		54.0	51.0
04:15	52.4			53.0	51.0	52.5		54.0	51.0	51.7		52.0	50.5	53.6		55.0	51.0
04:20	52.3	52.3		53.0	51.0	55.0	63.0	57.0	50.5	52.1	51.9	53.0	50.5	52.7	53.1	53.5	51.0
04:25	52.3			53.0	51.0	67.4		70.5	51.0	51.9		52.5	50.5	52.8		54.5	51.0
04:30	52.6			53.0	51.5	51.9		52.5	50.5	52.0		52.5	50.5	54.5		57.0	51.0
04:35	52.1	58.4		52.5	51.0	52.4	52.0	53.0	51.0	51.7	51.8	52.5	50.5	53.5	53.6	55.0	51.0
04:40	62.4			66.0	51.5	51.8		52.5	50.5	51.8		52.5	50.5	52.5		53.5	51.0
04:45	67.2			70.5	61.0	51.9		52.5	50.5	51.7		52.5	50.5	53.4		55.0	51.0
04:50	52.2	62.7		52.5	51.0	51.9	51.9	52.5	50.5	53.2	52.3	55.0	51.0	51.8	52.6	52.5	50.5
04:55	52.1			52.5	51.0	51.8		52.5	50.5	51.7		52.0	50.5	52.4		53.0	50.5
05:00	52.1			52.5	51.0	51.8		52.5	50.5	51.6		52.0	50.5	51.9		52.5	50.5
05:05	52.1	52.1		52.5	51.0	51.8	52.4	52.5	50.5	51.7	51.7	52.5	50.5	52.2	52.4	53.0	51.0
05:10	52.0			52.5	51.0	53.3		54.5	50.5	51.7		52.0	50.5	53.0		54.5	51.0
05:15	52.2			52.5	51.0	52.0		52.5	50.5	51.9		52.5	50.5	52.3		53.0	51.0
05:20	52.6	52.3		53.0	51.0	52.5	52.3	53.0	51.0	52.1	52.3	53.0	50.5	52.1	52.2	52.5	51.0
05:25	52.1			52.5	51.0	52.5		53.5	51.0	52.9		54.0	50.5	52.1		52.5	51.0
05:30	53.4			55.5	51.0	53.1		54.5	51.0	52.9		54.5	51.0	52.3		53.0	51.0
05:35	53.3	53.6		55.0	51.5	52.5	52.7	53.5	51.0	53.4	53.5	55.0	51.0	54.1	53.2	56.5	51.0
05:40	54.1			55.0	52.5	52.6		53.5	51.0	54.1		56.0	52.0	53.0		54.0	51.0
05:45	54.6			56.5	52.5	53.2		54.0	51.5	56.7		59.5	52.5	53.8		55.5	51.5
05:50	55.3	55.0		58.5	52.5	53.5	53.3	54.5	51.5	54.9	55.5	57.5	52.0	53.8	54.0	55.5	52.0
05:55	55.1			58.0	52.0	53.1		54.0	51.5	54.6		56.5	52.0	54.4		57.0	51.5
06:00	55.1			58.0	52.0	54.9		57.0	51.5	53.6		54.5	51.5	53.7		55.5	51.5
06:05	54.2	54.8		56.0	51.5	53.1	54.0	54.0	51.0	53.1	53.3	53.5	51.0	53.6	53.4	54.5	51.0
06:10	54.9			56.5	52.0	53.8		56.5	51.0	53.3		54.5	51.0	52.9		54.5	51.0
06:15	53.6			55.0	52.0	54.9		57.0	52.0	53.3		54.5	51.0	54.1		56.0	51.5
06:20	54.9	54.3		57.5	52.0	53.9	54.4	55.5	51.5	54.8	53.8	57.0	51.0	53.1	53.7	55.0	51.0
06:25	54.4			56.5	52.0	54.4		55.0	51.0	53.1		53.5	51.0	53.7		55.0	51.5
06:30	54.6			57.0	52.0	67.5		70.0	52.0	53.1		54.0	51.5	52.9		54.0	51.0
06:35	53.6	53.8		54.5	52.0	68.9	66.6	71.5	52.0	53.7	53.2	55.0	51.5	58.7	55.8	59.0	51.5
06:40	53.0			53.5	51.5	52.6		53.5	51.5	52.9		53.5	51.5	52.9		54.0	51.0
06:45	63.4			67.0	52.0	52.5		53.5	51.0	54.3		56.0	51.5	52.6		54.0	50.5
06:50	53.1	59.3		54.0	52.0	67.1	63.7	72.5	52.0	54.0	54.5	56.0	51.5	54.0	53.2	56.0	51.0
06:55	52.2			53.5	49.0	62.3		60.0	51.0	55.0		58.0	51.5	53.0		54.0	51.0
23:00	52.8			53.5	51.5	52.2		53.0	51.0	55.4		56.5	53.5	52.7		54.5	51.0
23:05	53.0	53.1		54.0	51.5	52.4	52.4	53.0	51.0	56.0	55.6	56.0	52.0	52.8	53.1	54.0	51.0
23:10	53.5			54.5	51.5	52.7		54.0	51.0	55.4							

Baseline Data for Restricted Hour 2300-0700 next day

Date	9 Aug 2010				10 Aug 2010				11 Aug 2010				12 Aug 2010				
	Time	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)
00:00	53.9			56.5	51.0	54.0		56.0	51.5	54.9		57.5	52.0	55.1		58.0	51.5
00:05	53.4	53.7		55.5	51.5	52.6	53.7	53.0	51.0	53.9	54.1	56.0	52.0	53.4	54.2	55.0	51.5
00:10	53.7			55.5	51.0	54.4		57.0	51.0	53.3		54.5	52.0	53.8		56.0	51.0
00:15	53.0			54.5	51.0	53.4		55.5	51.0	53.7		54.5	52.5	53.6		55.0	51.0
00:20	53.8	53.1		56.5	51.0	54.5	53.6	57.5	51.0	54.5	54.7	56.0	53.0	54.4	55.3	53.5	51.0
00:25	52.3			52.5	51.0	52.8		54.0	51.0	55.7		59.0	52.5	57.1		60.5	52.0
00:30	53.7			55.5	51.0	51.9		52.5	50.5	52.7		53.0	51.0	52.8		54.0	51.0
00:35	53.4	53.4		55.5	51.0	53.7	52.7	55.5	51.0	53.6	54.1	55.0	52.0	52.7	52.9	53.5	51.0
00:40	53.2			55.5	51.0	52.2		52.5	51.0	55.6		59.0	52.5	53.2		54.5	51.5
00:45	52.8			54.5	51.0	53.7		55.5	51.5	53.5		53.5	52.0	53.0		54.5	51.0
00:50	54.3	53.4		56.5	51.5	56.7	55.6	54.5	52.0	55.4	54.3	57.5	53.0	55.8	54.6	59.5	51.5
00:55	53.0			54.5	51.0	56.0		59.0	52.0	53.8		55.0	52.5	54.5		57.0	51.5
01:00	54.2			56.5	51.5	53.1		54.0	52.0	52.8		53.5	52.0	53.0		54.5	51.0
01:05	52.8	53.5		54.0	51.0	52.9	52.8	54.0	51.5	55.0	53.7	58.0	52.0	53.9	53.7	56.5	51.0
01:10	53.5			56.0	50.5	52.4		53.0	51.5	52.8		54.0	51.0	54.0		56.0	52.0
01:15	52.6			54.0	51.0	52.7		53.5	51.0	52.8		54.0	51.5	54.0		56.5	51.0
01:20	52.7	52.4		54.0	51.0	53.2	52.6	55.0	51.0	52.8	53.3	54.0	51.5	53.0	53.6	53.5	51.0
01:25	51.8			52.5	50.5	51.7		52.5	50.5	54.2		57.0	51.5	53.7		56.0	51.0
01:30	51.7			52.5	50.5	51.6		52.0	50.5	52.1		52.5	51.0	52.2		52.5	50.5
01:35	53.6	53.4		59.5	51.0	53.9	52.9	57.0	50.5	54.4	53.0	58.0	51.5	52.8	52.4	54.5	51.0
01:40	51.8			52.5	50.5	53.0		53.0	50.5	52.2		52.5	51.0	52.2		53.0	51.0
01:45	51.9			52.5	50.5	51.7		52.5	50.5	52.3		53.0	51.0	52.0		52.5	50.5
01:50	51.7	53.2		52.0	50.5	53.7	52.5	56.0	51.0	52.0	52.1	52.5	51.0	51.9	52.3	52.5	50.5
01:55	55.2			58.0	51.0	51.9		52.5	50.5	52.0		52.5	51.0	52.8		54.5	51.0
02:00	52.1			53.0	50.5	53.7		55.5	50.5	52.6		53.5	51.0	53.8		56.5	51.0
02:05	51.9	52.6		52.5	50.5	51.9	52.6	52.5	50.5	52.6	52.4	53.5	51.0	52.2	52.7	53.0	51.0
02:10	53.6			55.5	51.0	52.1		53.0	50.5	52.1		52.5	51.0	51.9		52.5	50.5
02:15	51.8			52.5	50.5	51.7		52.5	50.5	52.8		54.5	51.0	52.3		53.0	51.0
02:20	51.9	51.8		52.5	50.5	51.6	51.6	52.0	50.5	51.9	53.1	52.5	51.0	51.9	53.0	52.5	50.5
02:25	51.7			52.0	50.5	51.6		52.0	50.5	54.2		57.0	51.0	54.3		56.5	51.0
02:30	51.7			52.5	50.5	53.7		56.0	50.5	52.0		52.5	51.0	51.9		52.5	50.5
02:35	52.2	52.3		53.0	50.5	51.7	52.6	52.5	50.5	52.0	52.0	52.5	51.0	55.4	53.5	58.5	51.0
02:40	52.8			54.5	50.5	52.3		53.5	50.5	52.0		52.5	51.0	52.2		53.0	51.0
02:45	52.0			52.5	50.5	51.8		52.5	50.5	51.9		52.5	51.0	52.9		54.0	51.0
02:50	52.6	52.1		54.0	50.5	52.3	52.0	53.5	51.0	52.6	52.1	54.0	51.0	51.9	52.3	52.5	50.5
02:55	51.8			52.5	50.5	51.8		52.5	50.5	51.9		52.5	51.0	51.9		52.5	50.5
03:00	51.7			52.0	50.5	51.9		52.5	50.5	51.9		52.5	50.5	51.9		52.5	50.5
03:05	51.6	51.7		52.0	50.5	52.0	52.1	52.5	51.0	52.7	52.4	54.0	51.0	53.6	53.0	55.5	51.0
03:10	51.7			52.5	50.5	52.4		53.5	51.0	52.6		53.5	51.0	53.4		55.5	51.0
03:15	51.7			52.0	50.5	51.9		52.5	51.0	52.1		52.5	51.0	52.7		54.0	51.0
03:20	51.7	51.7		52.0	50.5	52.8	52.5	54.0	51.0	53.4	52.6	55.0	51.0	54.2	53.4	56.5	51.0
03:25	51.7			52.0	50.5	52.7		54.5	50.5	52.3		53.0	51.0	53.1		54.5	51.0
03:30	54.0			57.0	50.5	52.9		54.0	51.0	53.5		55.0	51.5	53.0		54.5	51.5
03:35	51.7	52.6		52.0	50.5	53.0	52.9	55.0	51.0	54.1	53.4	56.0	51.5	53.3	53.4	55.0	51.0
03:40	51.7			52.0	50.5	52.7		54.5	50.5	52.6		53.5	51.0	53.9		56.0	51.0
03:45	52.3			53.0	51.0	52.2		53.5	50.5	51.9		52.5	51.0	67.6		71.0	62.5
03:50	54.1	52.8		57.5	51.0	53.6	52.6	56.0	51.0	51.9	52.0	52.5	51.0	65.9	65.2	69.5	51.5
03:55	51.7			52.0	50.5	51.9		52.5	50.5	52.3		53.0	51.0	52.9		54.5	50.5
04:00	54.2			57.0	50.5	51.7		52.5	50.5	53.4		55.5	51.0	53.7		57.0	50.5
04:05	53.5	53.3		56.5	50.5	66.8	66.5	70.0	52.0	53.6	53.0	55.0	51.0	55.3	54.1	58.0	51.0
04:10	51.8			52.5	50.5	69.3		70.5	52.5	51.8		52.5	50.5	52.9		54.0	50.5
04:15	51.7			52.0	50.5	51.7		52.0	50.5	51.8		52.5	50.5	51.9		52.5	50.5
04:20	52.8	52.2		55.0	50.5	51.7	52.0	52.5	50.5	51.9	51.9	52.5	51.0	51.8	51.8	52.5	50.5
04:25	51.9			52.5	50.5	52.5		54.5	50.5	51.9		52.5	51.0	51.8		52.5	50.5
04:30	51.8			52.5	50.5	51.8		52.5	50.5	51.9		52.5	50.5	51.9		52.5	50.5
04:35	51.7	51.8		52.5	50.5	52.0	52.0	52.0	50.5	52.4	52.1	53.0	51.0	52.2	52.0	53.0	50.5
04:40	51.8			52.5	50.5	52.3		53.5	50.5	51.9		52.5	50.5	51.8		52.5	50.5
04:45	51.7			52.0	50.5	51.6		52.0	50.5	51.8		52.5	50.5	51.8		52.5	50.5
04:50	51.8	51.7		52.5	50.5	51.6	51.6	52.0	50.5	51.9	51.9	52.5	50.5	51.9	51.9	52.5	50.5
04:55	51.7			52.0	50.5	51.6		52.0	50.5	51.9		52.5	51.0	51.9		52.5	50.5
05:00	51.6			52.0	50.5	51.6		52.0	50.5	51.9		52.5	50.5	51.9		52.5	50.5
05:05	51.8	51.8		52.5	50.5	52.5	51.9	54.5	50.5	51.9	51.9	52.5	51.0	51.9	51.9	52.5	50.5
05:10	51.9			52.5	50.5	51.6		52.0	50.5	51.9		52.5	51.0	51.9		52.5	50.5
05:15	51.7			52.5	50.5	51.7		52.5	50.5	51.8		52.5	50.5	51.9		52.5	50.5
05:20	53.0	52.4		55.0	50.5	51.7	51.7	52.0	50.5	51.9	51.9	52.5	51.0	51.9	51.9	52.5	50.5
05:25	52.3			52.5	50.5	51.8		52.5	50.5	51.9		52.5	50.5	51.9		52.5	50.5
05:30	52.3			53.0	50.5	52.3		53.5	50.5	52.0		52.5	51.0	51.9		52.5	50.5
05:35	53.1	53.2		54.5	51.0	53.1	53.0	54.5	51.0	52.8	52.6	53.5	51.5	52.1	52.2	52.5	51.0
05:40	54.0			56.5	51.5	53.5		55.0	52.0	52.9		53.5	52.0	52.7		53.5	51.5
05:45	53.4			55.5	51.5	54.4		55.0	51.5	52.9		53.5	52.0	54.3		56.0	52.0
05:50	56.5	54.7		58.5	51.5	54.0	54.0	53.5	51.5	53.8	53.8	55.0	52.0	54.2	54.1	55.5	52.0
05:55	53.5			55.0	51.0	53.5		54.5	51.5	54.5		56.5	52.0	53.9		55.0	52.5
06:00	54.3			54.0	51.0	53.9		55.5	51.5	53.4		55.0	51.5	53.9		55.0	52.5
06:05	53.9	54.0		55.5	51.5	53.5	54.1	55.0	51.5	53.4	53.8	55.0	51.5	53.6	53.6	55.0	52.0
06:10	53.7			55.5	51.5	54.9		58.0	52.0	54.4		56.5	51.5	53.2		54.0	51.5
06:15	53.8			55.0	51.0	53.4		54.5	51.5	52.9		53.0	51.0	53.5		55.5	51.5
06:20	54.6			57.0	51.5	53.2	53.1	54.5	51.5	52.5		53.0	51.5	54.0	54.4	56.0	51.5
06:25	54.1			56.0	51.5	52.7		53.5	51.0	54.1		55.5	51.0	55.4		58.0	52.0
06:30	53.3			53.5	51.0	53.2		54.0	51.5	53.2		54.5	51.5	53.8		54.5	52.0
06:35	52.4	53.4		53.0	51.0	54.4	53.5	57.0	52.0	53.4	54.1	54.5	52.0	53.7	53.5	54.5	

Noise Monitoring Station: AC05 North Lamna Clinic (* The shadowed box - rainy condition and no noise monitoring was conducted)

Baseline Data for Restricted Hour 2300-0700 next day

Date	13 Aug 2010				14 Aug 2010				15 Aug 2010				16 Aug 2010			
Time	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)
00:00	54.5		56.5	52.0	55.7		57.5	53.5	52.8		53.5	52.0	52.2		52.5	51.0
00:05	54.9	54.5	57.5	52.0	56.4	56.1	59.0	53.5	54.1	54.3	56.0	52.0	56.1	55.8	55.5	51.0
00:10	54.0		55.5	52.5	56.3		59.0	53.0	55.6		59.0	52.0	57.5		58.5	52.0
00:15	55.0		57.5	52.0	57.0		59.5	53.0	54.2		56.0	52.0	55.3		57.0	52.0
00:20	53.2	54.5	54.0	52.0	53.6	55.1	54.0	52.5	54.6	54.1	57.5	52.0	55.7	55.0	57.5	52.5
00:25	55.1		57.5	52.0	53.8		54.0	52.5	53.4		54.0	52.0	53.6		55.5	51.5
00:30	53.0		53.5	52.0	54.0		55.0	52.5	52.9		53.5	51.5	54.5		57.0	51.5
00:35	54.9	53.8	57.0	52.0	55.1	61.8	58.0	52.5	54.0	53.7	56.0	51.5	52.4	53.2	53.0	51.5
00:40	53.2		54.0	52.0	66.0		68.5	62.5	54.0		56.0	51.5	52.5		53.0	51.5
00:45	54.0		56.0	52.0	67.4		69.5	64.0	54.4		57.5	51.5	53.3		54.5	51.5
00:50	54.8	54.0	56.5	52.0	60.0	63.5	61.5	52.5	53.8	54.1	55.5	52.0	53.5	53.1	55.0	51.5
00:55	52.9		53.5	51.5	53.7		55.0	52.0	54.1		55.5	52.0	52.4		53.0	51.0
01:00	53.3		54.0	51.5	60.6		55.5	52.0	53.5		55.0	51.5	51.9		52.5	51.0
01:05	53.2	53.0	54.5	51.5	53.4	57.1	54.5	51.5	54.7	53.6	57.5	51.5	51.9	51.9	52.5	51.0
01:10	52.5		53.0	51.5	52.5		53.0	51.5	52.4		53.0	51.0	51.9		52.5	51.0
01:15	53.2		54.0	51.5	52.4		53.0	51.0	53.1		54.5	51.0	52.0		52.5	51.0
01:20	52.4	53.8	53.0	51.5	54.1	53.9	56.5	51.5	54.4	54.0	57.5	51.0	52.4	52.1	53.0	51.0
01:25	55.3		59.5	51.5	54.9		57.5	51.0	54.5		57.0	51.5	52.0		52.5	51.0
01:30	52.4		53.0	51.5	52.7		53.0	51.0	52.5		53.5	51.0	51.9		52.5	51.0
01:35	52.1	52.1	52.5	51.0	53.0	53.4	54.0	51.0	53.5	52.8	55.5	51.0	52.0	52.0	52.5	51.0
01:40	51.9		52.5	50.5	54.4		56.5	51.5	52.4		53.0	51.0	52.0		52.5	51.0
01:45	52.2		53.0	50.5	52.8		53.5	51.5	52.9		53.5	51.5	52.0		52.5	51.0
01:50	51.9	52.0	52.5	50.5	52.4	52.4	53.0	51.0	53.2	53.3	54.5	51.5	52.0	52.0	52.5	51.0
01:55	51.9		52.5	50.5	52.1		52.5	51.0	53.7		55.5	51.5	51.9		52.5	51.0
02:00	52.3		53.0	51.0	52.4		53.0	51.0					51.9		52.5	50.5
02:05	52.4	52.2	53.0	51.0	52.3	52.3	53.0	51.0					51.9	51.9	52.5	51.0
02:10	51.9		52.5	50.5	52.2		52.5	51.0					51.9		52.5	51.0
02:15	52.7		54.0	51.0	52.3		53.0	51.0					51.9		52.5	51.0
02:20	51.8	52.2	52.5	50.5	54.4	53.2	57.5	51.0					51.9	51.9	52.5	50.5
02:25	52.1		52.5	50.5	52.7		53.5	51.0					51.8		52.5	50.5
02:30	51.8		52.5	50.5	52.1		52.5	51.0					51.8		52.5	50.5
02:35	52.3	52.0	53.0	51.0	51.9	52.1	52.5	50.5					51.8	51.8	52.5	50.5
02:40	51.9		52.5	50.5	52.2		52.5	50.5					51.8		52.5	50.5
02:45	52.6		54.0	51.0	51.9		52.5	50.5					51.9		52.5	50.5
02:50	51.8	52.1	52.5	50.5	52.9	52.3	54.5	51.0					51.8	51.8	52.5	50.5
02:55	51.8		52.5	50.5	51.9		52.5	50.5					51.8		52.5	50.5
03:00	53.0		55.0	50.5	51.9		52.5	50.5	51.9		52.5	51.0	51.8		52.5	50.5
03:05	52.4	52.6	53.5	51.0	53.4	52.5	55.0	51.0	53.1	52.3	54.0	51.0	52.3	52.3	52.5	50.5
03:10	52.5		53.0	50.5	52.1		52.5	51.0	51.9		52.5	50.5	52.8		53.5	51.0
03:15	51.8		52.5	50.5	52.1		52.5	51.0	52.9		55.0	51.0	52.0		52.5	51.0
03:20	53.3	52.4	55.0	51.0	52.0	52.0	52.5	51.0	53.5	52.9	56.0	51.0	51.8	51.9	52.5	50.5
03:25	51.9		52.5	50.5	51.9		52.5	50.5	52.3		53.0	51.0	51.8		52.5	50.5
03:30	54.3		56.5	51.0	51.9		52.5	50.5	52.4		53.5	51.0	51.8		52.5	50.5
03:35	53.6	53.6	55.5	51.0	52.1	52.5	52.5	50.5	51.9	52.7	52.5	50.5	51.8	51.8	52.5	50.5
03:40	52.7		54.0	51.0	53.4		55.5	51.0	53.6		56.0	51.0	51.9		52.5	50.5
03:45	53.8		56.0	51.0	54.3		57.5	51.0	52.5		53.5	51.0	51.8		52.5	50.5
03:50	54.1	53.5	57.0	51.0	52.4	53.1	53.0	51.0	52.2	52.5	53.0	50.5	51.8	51.8	52.5	50.5
03:55	52.3		53.0	50.5	52.4		53.5	50.5	52.9		54.5	51.0	51.7		52.0	50.5
04:00	51.8		52.5	50.5	53.4		55.5	51.0	51.8		52.5	50.5	51.7		52.0	50.5
04:05	51.8	52.2	52.5	50.5	51.9	52.6	52.5	50.5	54.9	53.1	58.0	51.0	51.8	51.8	52.5	50.5
04:10	53.0		54.5	51.0	52.3		53.5	51.0	52.0		52.5	50.5	51.8		52.5	50.5
04:15	51.8		52.5	50.5	51.9		52.5	50.5	51.9		52.5	50.5	54.0		56.5	51.0
04:20	51.8	52.7	52.5	50.5	51.8	51.9	52.5	50.5	51.8	51.8	52.5	50.5	51.7	52.6	52.5	50.5
04:25	54.1		57.5	50.5	52.1		52.5	51.0	51.8		52.5	50.5	51.8		52.5	50.5
04:30	51.9		52.5	50.5	53.7		56.5	51.0	51.9		52.5	50.5	52.0		52.5	51.0
04:35	51.7	52.0	52.5	50.5	51.8	52.5	52.5	50.5	51.8	52.0	52.5	50.5	51.8	51.9	52.5	50.5
04:40	52.5		53.5	50.5	51.8		52.5	50.5	52.4		53.5	51.0	51.8		52.5	50.5
04:45	51.7		52.5	50.5	51.9		52.5	50.5	52.0		52.5	50.5	52.7		54.5	51.0
04:50	51.7	51.8	52.5	50.5	51.9	52.0	52.5	51.0	51.8	51.9	52.5	50.5	51.8	52.1	52.5	50.5
04:55	52.0		52.5	50.5	52.3		53.0	51.0	51.8		52.5	50.5	51.7		52.0	50.5
05:00	51.8		52.5	50.5	51.9		52.5	50.5	51.7		52.5	50.5	62.5		66.0	51.0
05:05	51.8	51.8	52.5	50.5	51.8	51.8	52.5	50.5	51.7	51.7	52.5	50.5	63.1	61.3	65.5	57.0
05:10	51.8		52.5	50.5	51.8		52.5	50.5	51.8		52.5	50.5	54.2		56.0	52.5
05:15	51.9		52.5	50.5	51.8		52.5	50.5	51.8		52.5	50.5	52.2		53.0	51.0
05:20	51.9	51.9	52.5	50.5	52.0	51.9	52.5	51.0	51.8	51.9	52.5	50.5	54.2	53.1	56.5	51.0
05:25	51.8		52.5	50.5	51.8		52.5	50.5	52.2		53.0	51.0	52.6		53.5	51.0
05:30	52.1		52.5	50.5	51.8		52.5	50.5	52.1		52.5	50.5	52.4		53.0	51.0
05:35	52.5	52.5	53.0	51.0	55.7	54.1	59.0	51.5	52.6	52.7	54.0	51.0	53.0	52.7	54.5	51.0
05:40	52.8		53.5	51.5	54.1		56.0	52.0	53.4		54.5	52.0	52.7		53.5	51.0
05:45	52.8		53.5	51.5	53.9		56.0	52.0	53.5		54.5	51.5	53.8		55.0	51.5
05:50	54.1	54.2	56.0	51.5	54.6	54.2	56.5	52.0	53.9	53.8	55.5	51.5	53.5	53.7	54.0	52.0
05:55	55.4		58.0	52.0	54.0		55.5	52.0	53.9		55.5	52.0	53.8		55.5	51.5
06:00	54.6		57.0	51.5	53.4		54.5	51.5	53.9		55.5	52.0				
06:05	53.3	54.2	54.5	51.5	54.1	53.7	55.5	51.5	52.4	54.4	53.5	51.0				
06:10	54.6		57.0	51.5	53.6		55.0	51.5	56.1		58.0	51.5				
06:15	53.8		56.0	51.5	53.3		54.5	51.5	54.9		57.5	51.5				
06:20	53.8	53.7	55.0	51.5	53.2	53.7	54.0	51.5	55.1	54.4	58.0	51.5				
06:25	53.6		55.5	51.0	54.6		55.5	52.0	52.9		54.0	51.0				
06:30	53.6		55.0	51.5	54.1		55.5	51.5	52.8		53.5	51.0				
06:35	54.3	53.9	56.5	52.0	53.5	53.5	54.5	52.0	53.5	53.1	54.0	51.0				
06:40	53.9		54.5	51.5	52.9		54.0	50.5	53.1		54.5	51.5				
06:45	53.1		54.0	51.5	52.7		54.5	50.0	52.7		53.5	51.0				
06:50	54.8	54.6	57.5	51.5	52.4	52.4	54.0	49.5	53.3	62.9	54.5	51.5				
06:55	55.5		57.5	51.5	52.2		53.5	49.5	67.4		71.5	53.0				
23:00	53.8		54.5	52.0	52.9		53.5	51.5	56.2		58.0	53.0	52.8			

**Noise Monitoring Station
AC05 - North Lamma Clinic**

Baseline Data for Restricted Hour 0700-1900 Holiday

Date	1 Aug 2010				8 Aug 2010			
Time	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)
07:00	54.3	53.2	57.5	49.0	54.0	54.3	56.5	51.0
07:05	52.3		53.0	48.5	54.5		56.5	51.5
07:10	52.9		55.5	49.5	54.4		56.5	51.5
07:15	50.8	52.2	52.5	47.5	55.3	54.5	57.5	52.0
07:20	49.6		50.5	47.0	54.8		57.0	51.5
07:25	54.5		58.0	48.0	53.3		54.5	51.0
07:30	53.6	53.0	57.0	48.5	52.8	52.8	53.5	51.0
07:35	52.4		55.0	48.5	52.8		53.5	51.0
07:40	52.8		55.5	48.5	52.8		54.0	51.0
07:45	51.5	52.4	53.5	47.5	53.8	53.4	55.0	51.0
07:50	52.0		55.0	48.5	52.8		54.0	51.0
07:55	53.4		56.0	48.5	53.6		55.5	51.5
08:00	53.8	52.9	55.5	48.5	54.1	53.9	56.0	51.5
08:05	52.7		55.5	48.0	54.0		55.5	51.5
08:10	51.9		54.0	47.5	53.7		54.5	51.0
08:15	52.9	54.2	55.5	49.0	53.7	54.6	55.0	51.5
08:20	53.1		54.5	49.0	53.8		55.5	51.5
08:25	56.0		57.5	49.5	56.0		59.0	51.5
08:30	58.7	59.2	60.5	50.5	54.2	55.8	56.0	51.5
08:35	52.1		54.0	49.0	54.7		57.0	51.5
08:40	62.0		62.0	58.5	57.6		57.5	51.5
08:45	58.9	55.9	60.5	50.5	55.3	53.9	55.0	51.5
08:50	53.2		54.5	49.0	52.9		53.5	51.5
08:55	52.7		55.0	49.5	53.1		54.0	51.5
09:00	54.0	52.5	56.0	50.0	54.1	53.8	55.5	52.0
09:05	51.3		52.0	49.0	54.5		56.0	52.5
09:10	51.7		52.5	49.5	52.4		54.5	49.5
09:15	52.1	55.5	53.5	49.5	52.4	54.3	54.0	50.0
09:20	57.3		58.0	49.5	54.0		56.0	50.5
09:25	55.7		59.0	50.0	55.9		58.5	52.0
09:30	51.6	52.7	53.5	49.0	55.4	55.0	58.5	51.5
09:35	53.8		55.5	50.0	54.9		57.0	51.5
09:40	52.5		54.5	49.5	54.6		55.5	50.5
09:45	51.3	52.0	52.5	49.0	52.8	56.7	54.5	50.5
09:50	52.4		53.0	48.5	58.9		58.5	51.0
09:55	52.3		54.0	48.5	56.3		58.5	50.0
10:00	57.6	55.8	58.0	50.5	55.7	54.6	59.0	50.5
10:05	56.3		58.5	50.5	55.1		58.0	50.5
10:10	51.7		53.0	49.0	52.4		54.0	50.0
10:15	54.7	54.4	56.0	49.0	55.9	54.2	58.5	50.5
10:20	52.5		54.5	49.5	54.0		56.5	50.0
10:25	55.4		57.0	50.5	51.7		52.5	49.5
10:30	58.0	57.6	61.5	51.0	53.5	52.6	56.0	49.5
10:35	57.8		61.5	52.0	52.4		54.0	49.5
10:40	56.8		57.5	50.5	51.6		52.5	48.5
10:45	54.2	55.1	55.0	50.0	52.5	51.6	53.5	49.0
10:50	55.3		57.5	51.5	51.1		52.0	48.5
10:55	55.6		57.5	52.0	51.1		52.0	48.5
11:00	57.1	55.6	58.0	54.0	53.4	52.3	52.5	48.5
11:05	55.5		57.0	53.0	52.0		52.5	48.5
11:10	53.4		54.0	52.0	51.3		52.0	48.0
11:15	54.3	56.2	54.5	52.0	51.4	52.3	53.0	48.5
11:20	54.8		56.0	52.5	52.4		54.5	49.5
11:25	58.4		59.5	52.5	52.9		55.0	49.5
11:30	54.5	54.6	55.0	52.5	52.3	51.7	53.5	50.0
11:35	55.4		57.0	53.0	51.2		52.0	49.5
11:40	53.8		54.5	52.5	51.4		52.5	49.5
11:45	55.3	54.7	57.5	52.5	52.5	52.1	54.5	49.5
11:50	54.6		56.0	52.5	52.4		54.5	50.0
11:55	54.0		55.0	52.5	51.4		52.0	49.5
12:00	53.7	54.5	54.5	52.5	52.3	53.3	53.5	49.5
12:05	54.5		56.0	52.5	53.1		54.5	50.5
12:10	55.3		57.5	52.5	54.2		56.5	50.5
12:15	54.8	54.9	56.5	52.5	52.5	53.3	54.0	50.0
12:20	55.1		57.0	52.5	54.4		56.5	50.5
12:25	54.8		55.0	52.0	52.8		54.5	50.5
12:30	55.1	54.7	56.5	52.5	53.0	53.6	54.0	51.0
12:35	54.9		56.5	52.5	53.6		55.5	50.5
12:40	54.1		54.0	52.0	54.2		55.0	51.0
12:45	54.1	57.4	54.5	52.0	52.8	52.8	54.0	50.5
12:50	60.7		56.0	52.0	52.7		54.5	50.5
12:55	53.4		54.5	51.5	52.8		54.0	50.0

**Noise Monitoring Station
AC05 - North Lamma Clinic**

Date	1 Aug 2010				8 Aug 2010			
Time	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)	Leq(5mins)	Leq(15mins)	L10(5mins)	L90(5mins)
13:00	56.8	55.6	58.0	52.5	57.5	58.5	62.0	50.5
13:05	55.3		57.5	52.5	59.2		61.5	55.5
13:10	54.3		55.5	52.5	58.5		54.5	50.0
13:15	53.4	56.5	54.0	51.5	55.2	53.6	57.5	50.5
13:20	56.1		58.5	52.5	52.0		53.5	49.5
13:25	58.5		61.5	53.0	52.8		53.5	49.5
13:30	57.3	55.2	57.5	52.0	54.2	53.9	56.0	50.0
13:35	54.1		56.0	50.5	54.4		55.5	49.5
13:40	53.2		55.0	49.5	52.9		54.5	48.0
13:45	52.9	53.1	54.5	49.5	52.2	53.1	55.0	48.0
13:50	53.7		55.0	49.0	53.9		56.5	49.0
13:55	52.6		55.0	49.0	53.1		56.0	48.5
14:00	52.2	53.6	54.0	49.5	52.0	54.0	53.5	49.5
14:05	54.5		57.0	49.5	53.1		55.0	49.5
14:10	53.9		57.0	49.0	55.9		57.0	50.5
14:15	54.1	54.7	56.5	51.0	54.1	54.5	54.0	49.5
14:20	56.3		59.0	51.5	55.5		56.0	50.5
14:25	53.1		55.0	49.5	53.6		56.0	50.0
14:30	54.1	57.1	57.0	50.0	53.1	52.6	55.5	49.0
14:35	58.5		59.5	56.5	52.5		55.0	49.5
14:40	57.7		58.5	56.5	52.1		54.0	48.5
14:45	53.8	54.0	56.5	50.5	52.0	52.4	54.0	48.5
14:50	55.0		57.0	50.5	53.2		55.5	49.5
14:55	52.9		55.0	49.5	51.9		54.0	49.0
15:00	52.6	53.0	54.0	49.0	51.3	54.9	53.0	49.0
15:05	52.5		54.0	50.0	56.6		60.0	50.5
15:10	53.9		56.0	50.5	55.3		56.0	50.0
15:15	53.4	54.2	55.5	50.0	58.4	56.3	61.0	50.5
15:20	54.3		57.0	50.0	55.2		57.5	51.0
15:25	54.7		57.5	50.0	54.0		57.0	50.0
15:30	51.9	54.8	53.5	49.0	56.3	55.3	58.5	50.5
15:35	56.0		58.0	50.0	53.9		55.5	51.5
15:40	55.4		57.5	49.5	55.3		57.5	52.0
15:45	54.2	56.8	56.5	49.5	54.1	53.7	56.5	51.0
15:50	59.1		62.5	51.5	53.6		55.0	51.0
15:55	55.7		59.0	50.5	53.4		55.0	51.0
16:00	54.2	55.5	57.0	50.0	54.3	54.7	56.5	51.0
16:05	56.3		59.5	50.5	55.6		59.0	51.0
16:10	55.7		58.5	50.0	54.2		55.5	51.5
16:15	53.5	53.4	55.5	50.0	53.8	54.2	55.5	51.5
16:20	52.8		54.5	49.5	54.8		57.0	51.5
16:25	53.7		56.0	49.5	54.0		56.0	51.0
16:30	52.3	52.1	55.0	48.5	52.8	53.4	54.0	51.0
16:35	51.6		52.0	48.0	53.3		55.0	51.0
16:40	52.4		54.0	49.5	53.9		55.5	50.5
16:45	52.5	53.3	54.0	49.5	52.7	53.9	53.5	49.5
16:50	54.0		56.0	50.0	53.8		55.0	50.5
16:55	53.3		55.0	50.5	54.8		56.5	51.0
17:00	55.2	54.4	57.5	51.0	54.7	53.4	56.5	51.5
17:05	54.7		57.5	50.0	52.7		54.5	49.5
17:10	52.9		55.0	49.0	52.6		54.0	50.0
17:15	51.6	53.0	53.0	49.0	55.1	54.5	58.0	50.5
17:20	54.6		57.0	49.5	54.7		56.5	49.5
17:25	52.2		54.0	48.5	53.7		53.5	49.0
17:30	55.8	54.6	58.0	50.0	54.4	54.6	54.5	49.0
17:35	55.0		56.0	50.0	56.0		56.0	49.0
17:40	52.2		53.0	50.0	52.7		55.0	48.5
17:45	55.6	57.0	54.5	49.0	52.1	52.3	54.0	48.5
17:50	52.4		54.0	49.5	52.2		53.5	49.0
17:55	59.9		65.0	50.5	52.5		54.0	48.0
18:00	55.8	55.7	56.0	50.0	51.7	51.4	53.5	48.0
18:05	55.8		56.5	51.0	51.3		53.0	48.0
18:10	55.4		58.0	51.0	51.2		52.5	48.0
18:15	55.6	55.6	58.0	51.0	50.0	52.2	51.0	47.5
18:20	55.8		58.5	51.5	51.2		53.5	47.5
18:25	55.5		57.5	51.5	54.2		56.0	48.5
18:30	53.8	53.5	55.0	50.5	52.5	56.7	54.0	48.5
18:35	53.9		54.5	50.5	51.5		52.5	48.0
18:40	52.6		53.5	49.5	60.4		57.0	49.0
18:45	53.5	55.5	55.0	49.5	51.6	52.0	53.0	49.0
18:50	56.9		58.0	50.0	52.0		53.0	50.0
18:55	55.3		55.5	50.0	52.5		53.5	50.0

Appendix H

Laboratory Result



CERTIFICATE OF ANALYSIS

<i>Client</i>	: ACTION UNITED ENVIRO SERVICES	<i>Laboratory</i>	: ALS Technichem HK Pty Ltd	<i>Page</i>	: 1 of 3
<i>Contact</i>	: MR T W TAM	<i>Contact</i>	: Chan Kwok Fai, Godfrey	<i>Work Order</i>	: HK1019074F2
<i>Address</i>	: RM A 20/F., GOLDEN KING IND BLDG, NO. 35-41 TAI LIN PAI ROAD, KWAI CHUNG, N.T., HONG KONG	<i>Address</i>	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
<i>E-mail</i>	: Twtam@fordbusiness.com	<i>E-mail</i>	: Godfrey.Chan@alsenviro.com	<i>Date received</i>	: 18-AUG-2010
<i>Telephone</i>	: +852 2959 6059	<i>Telephone</i>	: +852 2610 1044	<i>Date of issue</i>	: 24-AUG-2010
<i>Facsimile</i>	: +852 2959 6079	<i>Facsimile</i>	: +852 2610 2021	<i>No. of samples</i>	- Received : 28
<i>Project</i>	: TCS00512	<i>Quote number</i>	: HK/1291a/2009 **		- Analysed : 28
<i>Order number</i>	: ----				
<i>C-O-C number</i>	: H019518-H019520				
<i>Site</i>	: ----				

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1019074 supersedes any previous reports with this reference. The completion date of analysis is 20-AUG-2010. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK1019074 : Sample(s) were picked up from client by ALS Technichem (HK) staff in an ambient condition.
Sample(s) analysed and reported on an as received basis.

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This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the 'Electronic Transactions Ordinance' of Hona Kona. Chapter 553. Section 6.

<u>Signatory</u>	<u>Position</u>	<u>Authorised results for:-</u>
Fung Lim Chee, Richard	General Manager	Inorganics



Analytical Results

Sub-Matrix: FILTER

			Compound	HK-TSP: Total Suspended Particulates	HK-TSP: Initial Weight	HK-TSP: Final Weight		
			LOR Unit	0.0010 g	0.0010 g	0.0010 g		
Client sample ID	Client sampling date / time	Laboratory sample ID		EA/ED: Physical and Aggregate Properties	EA/ED: Physical and Aggregate Properties	EA/ED: Physical and Aggregate Properties		
22376 AC02B	[31-JUL-2010]	HK1019074-001		0.0388	2.8089	2.8477		
22395 AC02B	[01-AUG-2010]	HK1019074-002		0.0509	2.8330	2.8839		
22392 AC02B	[02-AUG-2010]	HK1019074-003		0.0729	2.8272	2.9001		
22394 AC02B	[03-AUG-2010]	HK1019074-004		0.1999	2.8421	3.0420		
22409 AC02B	[04-AUG-2010]	HK1019074-005		0.1395	2.8637	3.0032		
22412 AC02B	[05-AUG-2010]	HK1019074-006		0.0973	2.8778	2.9751		
22424 AC02B	[06-AUG-2010]	HK1019074-007		0.0624	2.8923	2.9547		
22413 AC02B	[07-AUG-2010]	HK1019074-008		0.1067	2.8146	2.9213		
22405 AC02B	[08-AUG-2010]	HK1019074-009		0.0528	2.8773	2.9301		
22430 AC02B	[09-AUG-2010]	HK1019074-010		0.0757	2.8456	2.9213		
22449 AC02B	[10-AUG-2010]	HK1019074-011		0.0436	2.8455	2.8891		
22426 AC02B	[11-AUG-2010]	HK1019074-012		0.0589	2.8121	2.8710		
22455 AC02B	[12-AUG-2010]	HK1019074-013		0.0445	2.8617	2.9062		
22428 AC02B	[13-AUG-2010]	HK1019074-014		0.0488	2.8494	2.8982		
22464 AC04C	[31-JUL-2010]	HK1019074-015		0.0421	2.9110	2.9531		
22377 AC04C	[01-AUG-2010]	HK1019074-016		0.1223	2.8140	2.9363		
22391 AC04C	[02-AUG-2010]	HK1019074-017		0.0925	2.8154	2.9079		
22393 AC04C	[03-AUG-2010]	HK1019074-018		0.0916	2.8366	2.9282		
22410 AC04C	[04-AUG-2010]	HK1019074-019		0.0840	2.8709	2.9549		
22411 AC04C	[05-AUG-2010]	HK1019074-020		0.1135	2.8552	2.9687		
22423 AC04C	[06-AUG-2010]	HK1019074-021		0.0737	2.8840	2.9577		
22398 AC04C	[07-AUG-2010]	HK1019074-022		0.0713	2.8476	2.9189		
22404 AC04C	[08-AUG-2010]	HK1019074-023		0.0304	2.8522	2.8826		
22431 AC04C	[09-AUG-2010]	HK1019074-024		0.0485	2.8694	2.9179		
22421 AC04C	[10-AUG-2010]	HK1019074-025		0.0379	2.8554	2.8933		
22425 AC04C	[11-AUG-2010]	HK1019074-026		0.0725	2.8935	2.9660		
22458 AC04C	[12-AUG-2010]	HK1019074-027		0.0629	2.8916	2.9545		
22429 AC04C	[13-AUG-2010]	HK1019074-028		0.1000	2.8770	2.9770		



Laboratory Duplicate (DUP) Report

- No Laboratory Duplicate (DUP) Results are required to be reported.

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: AIR

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
		LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)		
						LCS	DCS	Low	High	Value	Control Limit	
EA/ED: Physical and Aggregate Properties (QCLot: 1458142)												
HK-TSP: Total Suspended Particulates	----	0.0010	g	<0.0010	----	----	----	----	----	----	----	
HK-TSP: Initial Weight	----	0.0010	g	2.8593	----	----	----	----	----	----	----	
HK-TSP: Final Weight	----	0.0010	g	2.8602	----	----	----	----	----	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1458143)												
HK-TSP: Total Suspended Particulates	----	0.0010	g	<0.0010	----	----	----	----	----	----	----	
HK-TSP: Initial Weight	----	0.0010	g	2.8593	----	----	----	----	----	----	----	
HK-TSP: Final Weight	----	0.0010	g	2.8602	----	----	----	----	----	----	----	

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.

Appendix I

Meteorological Data during the Baseline Monitoring Period

Meteorological Data Extracted from HKO during the Baseline Monitoring Period

Date		Weather
31-Jul-10	Sat	A few showers. Hot with sunny periods in the afternoon.
1-Aug-10	Sun	Fine and very hot. Moderate westerly winds.
2-Aug-10	Mon	Showers, heavy with squally thunderstorms tonight.
3-Aug-10	Tue	Occasionally fresh over offshore waters.
4-Aug-10	Wed	Sunny periods and a few showers.
5-Aug-10	Thu	Moderate east to northeasterly winds.
6-Aug-10	Fri	Sunny periods and a few showers.
7-Aug-10	Sat	Isolated squally thunderstorms later.
8-Aug-10	Sun	Very hot with sunny periods in the afternoon.
9-Aug-10	Mon	Sunny periods and a few showers.
10-Aug-10	Tue	It will be hot. Light to moderate southeasterly winds.
11-Aug-10	Wed	Showers and a few isolated squally thunderstorms.
12-Aug-10	Thu	Mainly fine and very hot during the day.
13-Aug-10	Fri	Mainly fine apart from isolated showers.
14-Aug-10	Sat	Mainly cloudy with showers and a few squally thunderstorms.
15-Aug-10	Sun	Light to moderate southwesterly winds.
16-Aug-10	Mon	Mainly cloudy with a few showers and isolated squally thunderstorms.

