Shatin to Central Link - Tai Wai to Hung Hom Section and Mong Kok East to Hung Hom Section

Works Contracts 1103, 1106 and 1111

Baseline Monitoring Report

(October 2012)

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Position:	Environmental Team Leader
Date:	19 October 2012

Shatin to Central Link - Tai Wai to Hung Hom Section and Mong Kok East to Hung Hom Section

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Consultancy Agreement No. C11033

Shatin to Central Link - Tai Wai to Hung Hom Section and Mong Kok East to Hung Hom Section

Works Contracts 1103, 1106 and 1111 Baseline Monitoring Report

October 2012

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EXECUTIVE SUMMARY

The Shatin to Central Link (SCL) is a 17km extension of the existing Ma On Shan Line (MOL) and East Rail Line (EAL) comprising (i) The East-West Corridor which extends the MOL from Tai Wai to Hung Hom via East Kowloon to connect with the West Rail Line (WRL) at Hung Hom Station (HUH) and Stabling Sidings at Hung Hom Freight Yard (HHS); and (ii) The North-South Corridor which is an extension of the EAL at Hung Hom across the harbour to Admiralty Station (ADM).

EIA Reports for SCL – Tai Wai to Hung Hom Section [SCL (TAW-HUH)], SCL Stabling Sidings at Hung Hom Freight Yard [SCL (HHS)] and SCL – Mong Kok East to Hung Hom Section [SCL (MKK-HUH)] were approved on 17 February 2012 under the *Environmental Impact Assessment Ordinance (*EIAO). The current valid Environmental Permit (EP) covering SCL (TAW-HUH) and SCL (HHS) is EP No: EP-438/2012/A, while the EP covering SCL (MKK-HUH) and SCL (HHS) is EP No: EP-437/2012, for their construction and operation.

In accordance with the approved Environmental Monitoring and Audit Manuals (EM&A Manuals) for the Project, baseline environmental monitoring should be conducted prior to the commencement of construction works. Pursuant to Condition 3.3 of the EPs, Baseline Monitoring Report shall be submitted to the Director of Environmental Protection at least 2 weeks before the commencement of construction of the Project. As the construction of Works Contracts 1103, 1106 and 1111 (i.e. Hin Keng to Diamond Hill Tunnels; Diamond Hill Station (DIH); and Hung Hom North Approach Tunnels, respectively) are tentatively scheduled to commence between October 2012 and December 2012, baseline air quality and airborne noise monitoring was therefore conducted according to the EM&A Manuals before the commencement of construction works from Hin Keng to Diamond Hill and Hung Hom.

The baseline air quality and airborne noise monitoring was carried out between 10 May 2012 and 10 October 2012 at the monitoring locations sited in the vicinity of the works areas. Background air quality was measured in terms of 1-hr total suspended particulate (TSP) and 24-hr TSP. Continuous baseline noise monitoring for A-weighted levels L_{eq} , L_{10} and L_{90} was conducted in a sample period of 30 minutes for non-restricted hours (0700 – 1900 hrs of normal weekdays) and 5 minutes for restricted hours (1900 – 2300 hrs and 2300 – 0700 hrs of normal weekdays and whole day of Sundays and Public Holidays). Baseline monitoring for air quality and airborne noise was conducted for a period of at least 14 consecutive days or at least two weeks.

The averaged baseline 1-hr TSP levels and 24-hr TSP levels at Air Quality Monitoring Stations at Hin Keng to Diamond Hill and Hung Hom areas are summarized in the following table:

		Air Quality Monitoring Locations ⁽⁴⁾					
Baseline TSP Monitoring Results	C.U.H.K.A.A. Thomas Cheung School	Price Memorial Catholic Primary School	Hong Kong Sheng Kung Hui Nursing Home	Rhythm Garden, Block 1	No. 234 - 238 Chatham Road North		
Air Quality Monitoring Station ID	DMS-1 ⁽¹⁾	DMS-2 ⁽¹⁾	DMS-3 ⁽¹⁾ / DMS-4 ⁽²⁾	DMS-4 ⁽¹⁾ / DMS-3 ⁽²⁾	DMS-11 ⁽¹⁾ / DMS-2 ⁽²⁾ / AM1 ⁽³⁾		
Environmental Permit	EP-438/2012/A	EP-438/2012/A	EP-438/2012/A	EP-438/2012/A	EP-438/2012/A & EP-437/2012		
ASR ID in EIA	TAW-6-7 ⁽¹⁾	DIH-22-1 ⁽¹⁾	DIH-9-1 ⁽¹⁾⁽²⁾	DIH-14-5 ⁽¹⁾⁽²⁾	HUH-1-3 ⁽¹⁾⁽²⁾ / HHA2 ⁽³⁾		
1-hr TSP							
Average (µg/m³)	52.1	40.3	43.6	44.3	30.8		
Range (µg/m³)	45.8 - 60.3	30.2 - 50	32.7 - 65	34.2 - 68.4	26.7 - 36.1		
24-hr TSP							
Average (µg/m³)	28.8	57.6	44.8	46.7	82.9		
Range (µg/m³)	6.6 – 97.2	24.7 - 88.1	11.9 - 100.6	14.3 - 84.0	45.7 - 109.8		

- (1) Station / ASR ID as identified in approved EM&A Manual / EIA Report for SCL(TAW-HUH).
- (2) Station / ASR ID as identified in approved EM&A Manual / EIA Report for SCL(HHS).
- (3) Station / ASR ID as identified in approved EM&A Manual / EIA Report for SCL (MKK-HUH).
- (4) The set up of the air quality monitoring station and baseline monitoring at the designated locations in the EM&A Manual, Harbourfront Horizon, were completed by Kwun Tong Line Extension project and is not included in this baseline monitoring report.

The averaged baseline airborne noise levels at Airborne Noise Monitoring Stations at Hin Keng to Diamond Hill and Hung Hom areas are summarized in the following table:

	Noise Monitoring Locations						
Baseline Airborne Noise Levels	C.U.H.K.A. A. Thomas Cheung School	Price Memorial Catholic Primary School	Hong Kong Sheng Kung Hui Nursing Home	Rhythm Garden, Block 1 (north- eastern facade)	Rhythm Garden, Block 1 (northern facade)	No. 234 - 238 Chatham Road North ⁽⁵⁾	Carmel Secondary School (South Block)
Noise Monitoring Station ID	NMS-CA -1 ⁽²⁾	NMS-CA -2 ⁽²⁾	NMS-CA -3 ⁽²⁾ / NMS-CA-4 ⁽³⁾	NMS-CA-4 ⁽²⁾ / NMS-CA-3 ⁽³⁾	NMS-CA-5 ⁽²⁾ / NMS-CA-2 ⁽³⁾	NMS-CA -11 ⁽²⁾ / NMS-CA-1 ⁽³⁾ / NM2 ⁽⁴⁾	NM1 ⁽⁴⁾
Environment - al Permit	EP-438/20 12/A	EP-438/ 2012/A	EP-438/ 2012/A	EP-438/ 2012/A	EP-438/ 2012/A	EP-438/2012 /A & EP-437/ 2012	EP-437/ 2012
NSR ID in EIA	TAW-6-7 ⁽²⁾	DIH-22-1 ⁽²⁾	DIH-9-1 ⁽²⁾⁽³⁾	DIH-14-5 ⁽²⁾⁽³⁾	DIH-14-4 ⁽²⁾⁽³⁾	HUH-1-3 (2)(3)/ HH2 ⁽⁴⁾	OM4a
Averaged baseline noise level during daytime of normal weekdays (Leq. 30min, dB(A))(1)	57	66	73	71	<u>74</u> ⁽⁶⁾	<u>79</u>	68
Averaged baseline noise level during evening time of normal weekdays (Leq, 5min, dB(A))	55	65	71	70	72	73	67
Averaged baseline noise level during daytime and evening time of General Holiday including Sunday (Leq. 5min, dB(A))	54	65	71	70	72	73	68
Averaged baseline noise level during night-time (Leq, 5min, dB(A))	54	61	68	65	68	72	65

⁽¹⁾ Numbers in bold and underlined indicate the measured baseline daytime noise levels (Leq, 30min) exceed the stipulated EIAO noise limits of 75dB(A) for residential premises or 70dB(A) during normal school days for educational institutions. Numbers in bold indicate the measured baseline daytime noise levels (Leq, 30min) exceed the stipulated EIAO noise limits of 65dB(A) during examination for educational institutions.

⁽²⁾ Station / NSR ID as identified in approved EM&A Manual / EIA Report for SCL(TAW-HUH).

- (3) Station / NSR ID as identified in approved EM&A Manual / EIA Report for SCL(HHS).
- (4) Station / NSR ID as identified in approved EM&A Manual / EIA Report for SCL (MKK-HUH).
- (5) A façade correction of +3dB(A) has been included in the free field monitoring data.
- (6) As permissions of access could not be obtained from the designated location, Canossa Primary School (San Po Kong) which is a school, the baseline monitoring has been conducted at the alternative location Rhythm Garden, Block 1 (northern façade). EIAO construction noise limits for educational institutions (i.e. 70dB(A) during normal school days and 65dB(A) during examination) has been adopted as the limit level during non-restricted hours, i.e. daytime of normal weekdays.

1 INTRODUCTION

1.1 Background

- 1.1.1 The Shatin to Central Link (SCL) is a 17km extension of the existing Ma On Shan Line (MOL) and East Rail Line (EAL) comprising (i) The East-West Corridor which extends the MOL from Tai Wai to Hung Hom via East Kowloon to connect with the West Rail Line (WRL) at Hung Hom Station (HUH) and Stabling Sidings at Hung Hom Freight Yard (HHS); and (ii) The North-South Corridor which is an extension of the EAL at Hung Hom across the harbour to Admiralty Station (ADM).
- 1.1.2 EIA Reports for SCL Tai Wai to Hung Hom Section [SCL (TAW-HUH)], SCL Stabling Sidings at Hung Hom Freight Yard [SCL (HHS)] and SCL Mong Kok East to Hung Hom Section [SCL (MKK-HUH)] were approved on 17 February 2012 under the *Environmental Impact Assessment Ordinance* (EIAO). Following the approval of the EIA Reports, two Environmental Permits (EPs) were granted on 22 March 2012, one covers SCL (TAW-HUH) and SCL (HHS) (EP No: EP-438/2012) and the other covers SCL (MKK-HUH) and SCL (HHS) (EP No: EP-437/2012), for their construction and operation. Variation of Environmental Permit (VEP) was subsequently applied for EP-438/2012 and the latest Environmental Permit (EP No: EP-438/2012/A) was issued by Director of Environmental Protection (DEP) on 12 July 2012.
- 1.1.3 Prior to the commencement of construction works, baseline environmental monitoring should be conducted to review the baseline conditions and establish Action and Limit Levels, according to the approved EM&A Manuals. Noise and dust monitoring were conducted at the designated monitoring stations during the construction of Works Contracts 1103, 1106 and 1111 (i.e. Hin Keng to Diamond Hill Tunnels; Diamond Hill Station (DIH); and Hung Hom North Approach Tunnels, respectively). As the Stabling Sidings at Hung Hom Freight Yard is the selected option for SCL, the associated environmental impacts and the EM&A requirements of SCL (TAW-HUH) and SCL (MKK-HUH) at HUH, Kai Tak Station (KAT) and DIH were superseded by the approved SCL (HHS) EIA Report and SCL (HHS) EM&A Manual.
- 1.1.4 **Table 1.1** presents the tentative construction programme of Works Contracts 1103, 1106 and 1111, and the programme of baseline monitoring at the designated monitoring stations sited in the vicinity of these works areas.

Table 1.1 Tentative Programme of Works Contracts and Baseline Monitoring

Works Contract	Contract Title	Works Covered in Environmental Permit No.	Tentative Contract Award Date	Baseline Monitoring Commencement Date
1103	Hin Keng to Diamond Hill Tunnels	EP-438/2012/A	October 2012	August 2012
1106	Diamond Hill Station	EP-438/2012/A	December 2012	September 2012
1111	Hung Hom North Approach Tunnels	EP-437/2012 & EP-438/2012/A	December 2012	May 2012

1.1.5 of SCL (TAW-HUH) alignment overall view is shown in **Figure** C11033/C/SCL/ACM/M50/001 and the tentative locations of off-site works areas (e.g. office, facilities. storage, barging magazine sites) shown **Figure** C11033/C/SCL/ACM/M50/002.

1.2 Purpose of the Baseline Monitoring Report

1.2.1 In accordance with the EM&A Manuals, environmental baseline monitoring was carried out at five air quality monitoring stations and at seven airborne noise monitoring stations, which are

located in the vicinity of the works areas from Hin Keng to Diamond Hill and in Hung Hom. This Baseline Monitoring Report presents baseline findings of these monitoring stations.

- 1.2.2 The purposes of this Baseline Monitoring Report are to:
 - Summarise the findings of baseline air quality and airborne noise monitoring; and
 - Establish the Action and Limit (A/L) levels in accordance with the EM&A Manuals for the subsequent impact monitoring during construction stage.

1.3 Report Structure

- 1.3.1 This Baseline Monitoring Report comprises the following sections:
 - Section 1 introduces the background of the Project and purpose of this Report;
 - Section 2 presents the baseline monitoring requirements, methodologies and monitoring results of air quality;
 - Section 3 presents the baseline monitoring requirements, methodologies and monitoring results of airborne noise; and
 - Section 4 concludes the findings of baseline monitoring.

2 AIR QUALITY MONITORING

2.1 Monitoring Requirements

2.1.1 In accordance with the EM&A Manuals, baseline 1-hr and 24-hr total suspended particulate (TSP) levels should be established by conducting baseline 1-hr and 24-hr TSP monitoring daily for at least 14 consecutive days or at least two weeks prior to the commissioning of major construction works.

2.2 Monitoring Equipments

2.2.1 24-hr TSP air quality monitoring at the monitoring stations were performed using High Volume Sampler (HVS), of which their locations and operation satisfy, as far as practicable, all the requirements stated in the EM&A Manuals. Portable direct reading dust meters were used to carry out the 1-hr TSP monitoring. Portable direct reading dust meters used in this baseline monitoring were proven to IEC to be capable of achieving comparable result as that of the HVS and could be used for sampling. Brand and model of the equipments are given in **Table 2.1**.

Table 2.1 Air Quality Monitoring Equipments

Equipments	Brand and Model	Quantity	Serial Number
Portable direct reading dust meter (1-hr TSP)	Sibata Digital Dust Monitor (Model No. LD-3 and LD-3B)	3	A.005. 9a, A.005.13a, A.005.14a
High Volume Sampler (24-hr TSP)	Tisch Total Suspended Particulate Mass Flow Controlled High Volume Air Sampler (Model No. TE-5170)	4	3175, 3454, 8259, 10216

- 2.2.2 The HVS and its accessories were maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.
- 2.2.3 Each HVS was calibrated using TE-5025A Calibration Kit prior to the commencement of baseline monitoring. Calibration certificate of the TE-5025A Calibration Kit and the HVSs are provided in **Appendix A**.
- 2.2.4 The 1-hr TSP meter was calibrated at 1-year interval against a continuous particulate TEOM Monitor, Series 1400ab. Calibration certificates of the Laser Dust Monitors are provided in **Appendix A**.

2.3 Monitoring Locations

- 2.3.1 Baseline monitoring were set up at the locations in accordance with the EM&A Manuals. However, permission of access could not be obtained from Shek On House and Wing Fung Building. The monitoring locations were relocated to Hong Kong Sheng Kung Hui Nursing Home and No. 234-248 Chatham Road North respectively. Both alternative monitoring locations have been approved by IEC and EPD.
- 2.3.2 **Table 2.2** describes the details of the air quality monitoring with the monitoring locations shown in **Figure nos. C11033/C/SCL/ACM/M62/020** to **023**.

Table 2.2 Details of Baseline Air Quality Monitoring

Environmental Permit	Air Monitoring Station ID	Original Monitoring Location in EM&A Manual ⁽⁶⁾	Alternative Monitoring Location	Description	Monitoring Period
EP-438/2012/A	DMS-1 ⁽¹⁾	C.U.H.K.A.A. Thomas Cheung School	-	Roof (8/F)	27 Aug – 10 Sept 2012

Environmental Permit	Air Monitoring Station ID	Original Monitoring Location in EM&A Manual ⁽⁶⁾	Alternative Monitoring Location	Description	Monitoring Period
EP-438/2012/A	DMS-2 ⁽¹⁾	Price Memorial Catholic Primary School	-	Roof (8/F)	13 Sept – 29 Sept 2012 ⁽⁴⁾
EP-438/2012/A	DMS-3 ⁽¹⁾ / DMS-4 ⁽²⁾	Shek On House	Hong Kong Sheng Kung Hui Nursing Home	Roof (6/F)	11 Sept – 25 Sept 2012
EP-438/2012/A	DMS-4 ⁽¹⁾ / DMS-3 ⁽²⁾	Rhythm Garden, Block 1	-	Roof (23/F)	11 Sept – 26 Sept 2012 ⁽⁵⁾
EP-438/2012/A & EP-437/2012	DMS-11 ⁽¹⁾ / DMS-2 ⁽²⁾ / AM1 ⁽³⁾	Wing Fung Building	No. 234 - 238 Chatham Road North	Roof (7/F)	26 Sept – 10 Oct 2012

Remarks:

- (1) Station / ASR ID as identified in approved EM&A Manual / EIA Report for SCL(TAW-HUH).
- (2) Station / ASR ID as identified in approved EM&A Manual / EIA Report for SCL(HHS).
- (3) Station / ASR ID as identified in approved EM&A Manual / EIA Report for SCL (MKK-HUH).
- (4) As representative of Price Memorial Catholic Primary School was not available on Sundays to open the gate for changing the filter paper of HVS, the monitoring period was extended.
- (5) As there was no electricity supply on 16 Sept, the monitoring period was extended.
- (6) The set up of the air quality monitoring station and baseline monitoring at the designated locations in the EM&A Manual, Harbourfront Horizon, were completed by Kwun Tong Line Extension project and is not included in this baseline monitoring report.

2.4 Monitoring Parameters, Frequency and Duration

2.4.1 **Table 2.3** summarizes the monitoring parameters, frequency and duration of baseline TSP monitoring.

Table 2.3 Air Quality Monitoring Parameters, Frequency and Duration

Parameter	Duration	Frequency and
1-hr TSP	14 consecutive days or at least two	3 times per day
Continuous 24-hr TSP	weeks prior to commencement of major construction works	Daily

2.5 Monitoring Methodology

24-hr TSP Monitoring

- 2.5.1 With the consideration of criteria stated in the EM&A Manuals, the HVS was installed in the vicinity of the air sensitive receivers.
- 2.5.2 The relevant data including temperature, pressure, weather conditions, elapsed-time meter reading for the start and stop of the sampler, identification and weight of the filter paper, and any special phenomena observed were recorded. The weather information was referenced from Hong Kong Observatory (http://www.weather.gov.hk/wxinfo/pastwx/extractc.htm).
- 2.5.3 A HOKLAS accredited laboratory, ALS Technichem (HK) Pty Ltd (HOKLAS no.: 066), with constant temperature and humidity control, and equipped with necessary measuring and conditioning instruments, to handle the 24-hr TSP samples, was employed for sample analysis, and equipment calibration and maintenance.
- 2.5.4 Filter papers of size 8"x10" were labelled before sampling. They were inspected to be clean with no pin holes and conditioned in a humidity controlled chamber for over 24-hr and were pre-weighed before use for the sampling.
- 2.5.5 The 24-hr TSP levels were measured by following the standard high volume sampling method for TSP as set out in the Title 40 of the United States Code of Federal Regulations, Chapter 1 (Part 50), Appendix B. TSP was sampled by drawing air through a conditioned, pre-weighted filter paper inside the HVS at a controlled air flow rate. After 24-hr sampling, the filter papers loaded with dust were kept in a clean and tightly sealed plastic bag, and then returned to the

laboratory for reconditioning in the humidity controlled chamber followed by accurate weighing by an electronic balance with a readout down to 0.1 mg.

2.5.6 All the collected samples were kept in a good condition for 6 months before disposal.

1-hr TSP Monitoring

- 2.5.7 The 1-hr TSP measurement followed manufacturer's instruction manual. Before initiating a measurement, zeroing the portable dust monitor was carried out to ensure maximum accuracy of concentration measurements.
- 2.5.8 The 1-hr TSP was sampled by drawing air into the portable dust monitor where particular concentrations were measured instantaneously with an in-built silicon detector sensing light scattered by the particulates in the sampled air. Continuous TSP levels were indicated and logged by a built-in data logger compatible with Windows based program to facilitate data collection, analysis and reporting.

2.6 Results and Observations

- 2.6.1 The baseline air quality monitoring was conducted between 27 August and 8 October 2012, during which, the weather was sunny and overcast. Major dust source affecting the monitoring results was observed as the nearby traffic emissions for all monitoring stations. For monitoring station at No. 234 238 Chatham Road North, traffic emission and construction dust from Kwun Tong Line Extension (KTE) were observed to be the major dust sources. Details of influencing factors such as weather conditions and site observation are presented in Appendix B.
- 2.6.2 The baseline monitoring results for 1-hr and 24-hr TSP are summarized in **Tables 2.4** and **2.5** respectively. Detailed air quality monitoring results are presented in **Appendix B**.

Table 2.4 Summary of 1-hr TSP Baseline Monitoring Results

1-hr TSP Levels	C.U.H.K.A.A. Thomas Cheung School	Price Memorial Catholic Primary School	Hong Kong Sheng Kung Hui Nursing Home	Sheng Kung Rhythm Hui Nursing Garden, Block 1	
Dust Monitoring Station ID	DMS-1 ⁽¹⁾	DMS-2 ⁽¹⁾	DMS-3 ⁽¹⁾ / DMS-4 ⁽²⁾	DMS-4 ⁽¹⁾ / DMS-3 ⁽²⁾	DMS-11 ⁽¹⁾ / DMS-2 ⁽²⁾ / AM1 ⁽³⁾
Environmental Permit	EP-438/2012/ A	EP-438/2012/A	EP-438/2012/A	EP-438/2012/A	EP-438/2012/A & EP-437/2012
Average (µg/m³)	52.1	40.3	43.6	44.3	31.1
Range (µg/m³)	45.8 - 60.3	30.2 - 50	32.7 – 65.0	34.2 – 68.4	27.3 - 36.1

- (1) Station / ASR ID as identified in approved EM&A Manual / EIA Report for SCL(TAW-HUH).
- (2) Station / ASR ID as identified in approved EM&A Manual / EIA Report for SCL(HHS).
- (3) Station / ASR ID as identified in approved EM&A Manual / EIA Report for SCL (MKK-HUH).

Table 2.5 Summary of 24-hr TSP Baseline Monitoring Results

24-hr TSP Levels	C.U.H.K.A.A. Thomas Cheung School	Price Memorial Catholic Primary School	Hong Kong Sheng Kung Hui Nursing Home	Rhythm Garden, Block 1	No. 234 - 238 Chatham Road North
Dust Monitoring Station ID	DMS-1 ⁽¹⁾	DMS-2 ⁽¹⁾	DMS-3 ⁽¹⁾ / DMS-4 ⁽²⁾	DMS-4 ⁽¹⁾ / DMS-3 ⁽²⁾	DMS-11 ⁽¹⁾ / DMS-2 ⁽²⁾ / AM1 ⁽³⁾
Environmental Permit	EP-438/2012/ A	EP-438/2012/A	EP-438/2012/A	EP-438/2012/A	EP-438/2012/A & EP-437/2012

24-hr TSP Levels	C.U.H.K.A.A. Thomas Cheung School	Price Memorial Catholic Primary School	Hong Kong Sheng Kung Rhythm Hui Nursing Garden, Block 1 Home		No. 234 - 238 Chatham Road North
Average (µg/m³)	28.8	57.6	44.8	46.7	82.9
Range (µg/m³)	6.6 – 97.2	24.7 - 88.1	11.9 - 100.6	14.3 – 84.0	45.7 - 109.8

Remarks

- (1) Station / ASR ID as identified in approved EM&A Manual / EIA Report for SCL(TAW-HUH).
- (2) Station / ASR ID as identified in approved EM&A Manual / EIA Report for SCL(HHS).
- (3) Station / ASR ID as identified in approved EM&A Manual / EIA Report for SCL (MKK-HUH).

2.7 Action and Limit Levels

2.7.1 The air quality monitoring results, in terms of 1-hr TSP and 24-hr TSP, were below the Limit Level set out in the EIAO-TM and Air Quality Objective (AQO) respectively at the monitoring locations. The Action and Limit Levels for air quality impact monitoring were established according to the criteria and methodology in the EM&A Manuals as presented in **Table 2.6**.

Table 2.6 Derivation of Action and Limit Levels for Air Quality

Parameter	Action Level	Limit Level
1-hr TSP Level in µg/m³	For Baseline Level ≤ 384 µg/m³, Action Level = (baseline level *1.3 + Limit level) /2 For Baseline Level > 384 µg/m³, Action Level = Limit Level	500 μg/m³
24-hr TSP Level in µg/m³	For Baseline Level ≤ 200 μg/m³, Action Level = (baseline level *1.3 + Limit level) /2 For Baseline Level > 200 μg/m³, Action Level = Limit Level	260 μg/m³

2.7.2 **Table 2.7** shows the derived Action and Limit Levels for air quality impact monitoring for the Project.

Table 2.7 Action and Limit Levels for Air Quality

Parameter	Monitoring Station	Action Level (µg/m³)	Limit Level (µg/m³)
	DMS-1	283.9	500
	DMS-2	276.2	500
1-hr TSP Level in µg/m³	DMS-3 / DMS-4	278.4	500
F 3	DMS-4 / DMS-3	278.8	500
	DMS-11 / DMS-2 / AM1	270.0	500
	DMS-1	148.7	260
	DMS-2	167.4	260
24-hr TSP Level in μg/m³	DMS-3 / DMS-4	159.1	260
	DMS-4 / DMS-3	160.4	260
	DMS-11 / DMS-2 / AM1	183.9	260

3 AIRBORNE NOISE MONITORING

3.1 Monitoring Requirements

3.1.1 In accordance with the EM&A Manuals, baseline noise monitoring should be conducted for 14 consecutive days or at least two weeks to obtain background noise levels prior to the commissioning of major construction works.

3.2 Monitoring Equipment

3.2.1 Noise monitoring was performed using sound level meter at each monitoring station. The sound level meters deployed comply with the International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. Acoustic calibrators were deployed to check the sound level meters at a known sound pressure level. The brand and model of the equipment is given in **Table 3.1**.

Table 3.1 Noise Monitoring Equipment

Equipment	Brand and Model	Quantity	Serial Number
Integrated Sound Level Meter	B&K (Model No. 2238)	4	2255677, 2255688, 2285692, 2800930
Acoustic Calibrator	B&K (Model No. 4231)	2	1790985, 1850426

3.2.2 The sound level meters and acoustic calibrators were verified by the certified laboratory once every two years. Calibration certificates of the sound level meters and acoustic calibrator are provided in **Appendix A**.

3.3 Monitoring Locations

3.3.1 Baseline monitoring were conducted at the locations in accordance with EM&A Manuals. However, permissions of access could not be obtained from Shek On House, Canossa Primary School (San Po Kong) and Wing Fung Building. Taking into consideration the selection criteria stated in the EM&A Manuals, these monitoring locations have been relocated to Hong Kong Sheng Kung Hui Nursing Home, Rhythm Garden (Block 1, northern façade) and No. 234-238 Chatham Road North respectively. These alternative monitoring locations were approved by IEC and EPD. The baseline airborne noise monitoring was conducted between 10 May and 10 October 2012. **Figure nos. C11033/C/SCL/ACM/M62/024** to **027** show the locations of the monitoring stations. **Table 3.2** describes the details of the noise monitoring.

Table 3.2 Locations of Baseline Noise Monitoring Stations

Environmental Permit No.	Noise Monitoring Station ID	Original Monitoring Location in EM&A Manual	Alternative Monitoring Location	Description	Monitoring Period
EP-438/2012/A	NMS-CA-1 ⁽¹⁾	C.U.H.K.A.A. Thomas Cheung School	•	Roof (8/F)	27 Aug – 10 Sept 2012
EP-438/2012/A	NMS-CA-2 ⁽¹⁾	Price Memorial Catholic Primary School	-	Roof (8/F)	26 Sept – 10 Oct 2012
EP-438/2012/A	NMS-CA-3 ⁽¹⁾ / NMS-CA-4 ⁽²⁾	Shek On House	Hong Kong Sheng Kung Hui Nursing Home	Roof (6/F)	12 Sept – 26 Sept 2012
EP-438/2012/A	NMS-CA-4 ⁽¹⁾ / NMS-CA-3 ⁽²⁾	Rhythm Garden, Block 1	-	Roof (23/F)	11 Sept – 25 Sept 2012

Environmental Permit No.	Noise Monitoring Station ID	Original Monitoring Location in EM&A Manual	Alternative Monitoring Location	Description	Monitoring Period
		(north-eastern façade)			
EP-438/2012/A	NMS-CA-5 ⁽¹⁾ / NMS-CA-2 ⁽²⁾	Canossa Primary School (San Po Kong)	Rhythm Garden, Block 1 (northern façade)	Roof (23/F)	11 Sept – 25 Sept 2012
EP-438/2012/A & EP-437/2012	NMS-CA-11 ⁽¹⁾ / NMS-CA-1 ⁽²⁾ / NM2 ⁽³⁾	Wing Fung Building	No. 234 - 238 Chatham Road North	Roof (7/F)	25 Sept – 9 Oct 2012
EP-437/2012	NM1 ⁽³⁾	Carmel Secondary School (South Block)	-	Roof (4/F)	10 May – 24 May 2012

Remarks:

- (1) Station / NSR ID as identified in approved EM&A Manual / EIA Report for SCL(TAW-HUH).
- (2) Station / NSR ID as identified in approved EM&A Manual / EIA Report for SCL(HHS).
- (3) Station / NSR ID as identified in approved EM&A Manual / EIA Report for SCL (MKK-HUH).

3.4 Monitoring Parameters, Frequency and Duration

3.4.1 **Table 3.3** summarizes the monitoring parameters, frequency and duration of baseline noise monitoring.

Table 3.3 Noise Monitoring Parameters, Frequency and Duration

Time Period	Duration, min	Parameters
Daytime:	30 (L _{eq(30-min)})	
0700-1900 hrs on normal weekdays		
Evening:		
1900-2300 hrs on normal weekdays		1 121
General Holidays and Sundays	15 (average of 2 consecutive I	L _{eq} , L ₁₀ & L ₉₀
0700-2300 hrs	15 (average of 3 consecutive L _{eq(5-min)})	
Night-time:		
2300-0700 hrs on all days		

3.5 Monitoring Methodology

- 3.5.1 The monitoring procedures are summarised as below:
 - (a) Façade measurements were made at all monitoring locations as far as practicable.
 - (b) The battery condition was checked to ensure the correct functioning of the meter.
 - (c) Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - (i) frequency weighting: A
 - (ii) time weighting: Fast
 - (iii) parameters: L_{eq}, L₁₀ and L₉₀
 - (iv) time measurement: $L_{eq(30\text{-minutes})}$ during non-restricted hours i.e. 07:00-1900 hrs on normal weekdays; $L_{eq(5\text{-minutes})}$ during restricted hours i.e. 19:00-23:00 hrs and 23:00-07:00 hrs of normal weekdays, whole day of Sundays and Public Holidays
 - (d) Prior to and after each noise measurement, the meter was calibrated using the acoustic calibrator for 94dB(A) at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1 dB(A), the measurement would be

considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.

3.6 Results and Observations

- 3.6.1 There was no other major activity influencing the measured noise level during the baseline noise monitoring period. The dominant noise sources were community noise and nearby traffic. Details of influencing factors such as weather conditions and site observation are presented in Appendix C.
- 3.6.2 Baseline noise monitoring was conducted for 14 consecutive days or at least two weeks to obtain the background noise data. The baseline noise monitoring results are summarized in **Tables 3.4** to **3.6**. Detailed noise monitoring results are presented in **Appendix C**.

Table 3.4 Summary of Baseline Daytime Noise Monitoring Results of Normal Weekdays (0700 – 1900 hrs)

Environment	Noise Monitoring	Monitoring		30-min Average Noise Levels, dB(A) Range, dB(A)		Range, dB(A)		(A)
No.	Station ID	Location	L _{eq} ⁽⁴⁾	L ₁₀	L ₉₀	L_{eq}	L ₁₀	L ₉₀
EP-438/2012/ A	NMS-CA-1 ⁽¹⁾	C.U.H.K.A.A. Thomas Cheung School	57	59	53	55 - 62	57 - 62	52 - 55
EP-438/2012/ A	NMS-CA-2 ⁽¹⁾	Price Memorial Catholic Primary School	66	69	62	65 - 67	68 - 69	61 - 63
EP-438/2012/ A	NMS-CA-3 ⁽¹⁾ / NMS-CA-4 ⁽²⁾	Hong Kong Sheng Kung Hui Nursing Home	73	75	68	72 - 73	75 - 76	67 - 68
EP-438/2012/ A	NMS-CA-4 ⁽¹⁾ / NMS-CA-3 ⁽²⁾	Rhythm Garden, Block 1 (north-eastern façade)	71	72	70	71 - 72	72 - 73	69 - 71
EP-438/2012/ A	NMS-CA-5 ⁽¹⁾ / NMS-CA-2 ⁽²⁾	Rhythm Garden, Block 1 (northern façade)	<u>74</u> ⁽⁵⁾	75	72	73 - 75	74 - 76	72 - 73
EP-438/2012 /A & EP-437/2012	NMS-CA-11 ⁽ 1)/ NMS-CA-1 ⁽²⁾ / NM2 ⁽³⁾	No. 234 - 238 Chatham Road North ⁽⁶⁾	<u>79</u>	81	76	74 - 81	76 - 83	72 - 78
EP-437/2012	NM1 ⁽³⁾	Carmel Secondary School (South Block)	68	70	67	67 - 70	68 - 73	65 - 67

- (1) Station / NSR ID as identified in approved EM&A Manual / EIA Report for SCL(TAW-HUH).
- (2) Station / NSR ID as identified in approved EM&A Manual / EIA Report for SCL(HHS).
- (3) Station / NSR ID as identified in approved EM&A Manual / EIA Report for SCL (MKK-HUH).
- (4) Numbers in bold and underlined indicate the measured baseline daytime noise levels (Leq, 30min) exceed the stipulated EIAO noise limits of 75dB(A) for residential premises or 70dB(A) during normal school days for educational institutions. Numbers in bold indicate the measured baseline daytime noise levels (Leq, 30min) exceed the stipulated EIAO noise limits of 65dB(A) during examination for educational institutions.
- (5) As permissions of access could not be obtained from the designated location, Canossa Primary School (San Po Kong) which is a school, the baseline monitoring has been conducted at the alternative location Rhythm Garden, Block 1 (northern façade). EIAO construction noise limits for educational institutions (i.e. 70dB(A) during normal school days and 65dB(A) during examination) has been adopted as the limit level during non-restricted hours, i.e. daytime of normal weekdays.
- (6) A façade correction of +3dB(A) has been included in the free field monitoring data.

Table 3.5 Summary of Baseline Evening Noise Monitoring Results of Normal Weekdays (1900 – 2300 hrs)

Environment	Noise Monitoring	Monitoring	oring Levels,					F	Range, dB	(A)
No.	Station ID	Location	L_{eq}	L ₁₀	L ₉₀	L _{eq}	L ₁₀	L ₉₀		
EP-438/2012/ A	NMS-CA-1 ⁽¹⁾	C.U.H.K.A.A. Thomas Cheung School	55	56	52	54 - 58	56 - 58	52 - 53		
EP-438/2012/ A	NMS-CA-2 ⁽¹⁾	Price Memorial Catholic Primary School	65	67	61	64 - 66	66 - 69	60 - 62		
EP-438/2012/ A	NMS-CA-3 ⁽¹⁾ / NMS-CA-4 ⁽²⁾	Hong Kong Sheng Kung Hui Nursing Home	71	74	67	71 - 73	74 - 77	65 - 68		
EP-438/2012/ A	NMS-CA-4 ⁽¹⁾ / NMS-CA-3 ⁽²⁾	Rhythm Garden, Block 1 (north-eastern façade)	70	71	68	69 - 71	71 - 72	67 - 69		
EP-438/2012/ A	NMS-CA-5 ⁽¹⁾ / NMS-CA-2 ⁽²⁾	Rhythm Garden, Block 1 (northern façade)	72	73	71	72 - 73	73 - 74	70 - 72		
EP-438/2012/ A & EP-437/2012	NMS-CA-11 ⁽¹⁾ / NMS-CA-1 ⁽²⁾ / NM2 ⁽³⁾	No. 234 - 238 Chatham Road North ⁽⁴⁾	73	74	71	71 - 73	73 - 75	69 - 71		
EP-437/2012	NM1 ⁽³⁾	Carmel Secondary School (South Block)	67	68	66	67 - 68	68 - 69	65 - 66		

- (1) Station / NSR ID as identified in approved EM&A Manual / EIA Report for SCL(TAW-HUH).
- (2) Station / NSR ID as identified in approved EM&A Manual / EIA Report for SCL(HHS).
- (3) Station / NSR ID as identified in approved EM&A Manual / EIA Report for SCL (MKK-HUH).
- (4) A façade correction of +3dB(A) has been included in the free field monitoring data.

Table 3.6 Summary of Baseline Daytime and Evening Noise Monitoring Results of Sunday and Public Holiday (0700 – 2300 hrs)

Environment -al Permit	Noise Monitoring	Monitoring		5-min Average Noise Levels, dB(A)			Range, dB(A)	
No.	Station ID	Location	L_{eq}	L ₁₀	L ₉₀	L_{eq}	L ₁₀	L ₉₀
EP-438/2012/ A	NMS-CA-1 ⁽¹⁾	C.U.H.K.A.A. Thomas Cheung School	54	56	51	52 - 58	53 - 60	50 - 53
EP-438/2012/ A	NMS-CA-2 ⁽¹⁾	Price Memorial Catholic Primary School	65	68	61	62 - 67	64 - 69	58 - 62
EP-438/2012/ A	NMS-CA-3 ⁽¹⁾ / NMS-CA-4 ⁽²⁾	Hong Kong Sheng Kung Hui Nursing Home	71	74	67	69 - 76	73 - 77	62 - 68
EP-438/2012/ A	NMS-CA-4 ⁽¹⁾ / NMS-CA-3 ⁽²⁾	Rhythm Garden, Block 1 (north-eastern façade)	70	71	68	68 - 71	69 - 72	65 - 69
EP-438/2012/ A	NMS-CA-5 ⁽¹⁾ / NMS-CA-2 ⁽²⁾	Rhythm Garden, Block 1 (northern façade)	72	73	70	70 - 73	72 - 74	67 - 72

Environment -al Permit	Noise Monitoring	Monitoring	5-min Average Noise Levels, dB(A)			Range, dB(A)		
No.	Station ID	Location	L_{eq}	L ₁₀	L ₉₀	L_{eq}	L ₁₀	L ₉₀
EP-438/2012/ A & EP-437/2012	NMS-CA-11 ⁽¹⁾ / NMS-CA-1 ⁽²⁾ / NM2 ⁽³⁾	No. 234 - 238 Chatham Road North ⁽⁴⁾	73	75	71	72 - 74	74 - 75	69 - 72
EP-437/2012	NM1 ⁽³⁾	Carmel Secondary School (South Block)	68	69	66	66 - 71	67 - 73	64 - 69

Remarks:

- (1) Station / NSR ID as identified in approved EM&A Manual / EIA Report for SCL(TAW-HUH).
- (2) Station / NSR ID as identified in approved EM&A Manual / EIA Report for SCL(HHS).
- (3) Station / NSR ID as identified in approved EM&A Manual / EIA Report for SCL (MKK-HUH).
- (4) A façade correction of +3dB(A) has been included in the free field monitoring data.

Table 3.7 Summary of Baseline Night-time Noise Monitoring Results of All Days (2300-0700 hrs)

Environment	Noise Monitoring	Monitoring		in Averag evels, dB		F	Range, dB	(A)
No.	Station ID	Location	L_{eq}	L ₁₀	L ₉₀	L _{eq}	L ₁₀	L ₉₀
EP-438/2012/ A	NMS-CA-1 ⁽¹⁾	C.U.H.K.A.A. Thomas Cheung School	54	55	52	52 - 59	53 - 60	51 - 55
EP-438/2012/ A	NMS-CA-2 ⁽¹⁾	Price Memorial Catholic Primary School	61	64	56	56 - 66	59 - 69	52 - 61
EP-438/2012/ A	NMS-CA-3 ⁽¹⁾ / NMS-CA-4 ⁽²⁾	Hong Kong Sheng Kung Hui Nursing Home	68	71	62	64 - 71	68 - 74	57 - 66
EP-438/2012/ A	NMS-CA-4 ⁽¹⁾ / NMS-CA-3 ⁽²⁾	Rhythm Garden, Block 1 (north-eastern façade)	65	67	63	61 - 69	63 - 71	57 - 67
EP-438/2012/ A	NMS-CA-5 ⁽¹⁾ / NMS-CA-2 ⁽²⁾	Rhythm Garden, Block 1 (northern façade)	68	70	65	63 - 72	66 - 73	59 - 70
EP-438/2012/ A & EP-437/2012	NMS-CA-11 ⁽¹⁾ / NMS-CA-1 ⁽²⁾ / NM2 ⁽³⁾	No. 234 - 238 Chatham Road North ⁽⁴⁾	72	73	69	70 - 74	72 - 75	66 - 71
EP-437/2012	NM1 ⁽³⁾	Carmel Secondary School (South Block)	65	66	63	63 - 67	64 - 68	61 - 65

- (1) Station / NSR ID as identified in approved EM&A Manual / EIA Report for SCL(TAW-HUH).
- (2) Station / NSR ID as identified in approved EM&A Manual / EIA Report for SCL(HHS).
- (3) Station / NSR ID as identified in approved EM&A Manual / EIA Report for SCL (MKK-HUH).
- (4) A façade correction of +3dB(A) has been included in the free field monitoring data.

3.6.3 Results indicated that the average baseline daytime noise monitoring results at all monitoring locations are within the criteria of 75dB(A) for residential premises and 70dB(A) during normal school days and 65dB(A) during examination for educational institutions except No. 234-238 Chatham Road North and Rhythm Garden, Block 1 (northern façade). The major noise sources affecting the noise background at No. 234-238 Chatham Road North were observed to be traffic noise of Chatham Road North and the construction noise of KTE. For Rhythm Garden Block 1 (northern façade), traffic noise of Choi Hung Road was observed to be the major source of noise.

3.7 Action and Limit Levels

- 3.7.1 The Limit Levels are only applicable for the monitoring stations where no residual impact is anticipated. In the event that residual impact is predicted in the Construction Noise Mitigation Measures Plan (CNMMP) which would be submitted under EP-438/2012/A Condition 2.9 and EP-437/2012 Condition 2.7, the residual impact shall be taken into account by comparing the future impact monitoring results with the Predicted Construction Noise Levels in the CNMMP instead of the Limit Level.
- 3.7.2 During the impact monitoring period, the baseline noise level should be deducted from the future impact monitoring result for comparison with the Limit Level or the Predicted Construction Noise Level in case residual impact is anticipated as predicted in the approved CNMMP.
- 3.7.3 The Action and Limit Levels of noise monitoring have been set in accordance with the criteria specified in the EM&A Manual as shown in **Table 3.8** below.

Table 3.8 Criteria for Action and Limit Levels for Construction Noise

Time Period ⁽⁴⁾	EIA NSR ID	Noise Monitoring Station ID	Monitoring Station	Action Level	Limit Level, dB(A)	Predicted Maximum Construction Noise Level ⁽⁵⁾⁽⁶⁾ , dB(A)
	TAW-6-7 ⁽¹⁾	NMS-CA-1 ⁽¹⁾	C.U.H.K.A.A. Thomas Cheung School	When one documented	70 (during normal school time) 65 (during examination period)	68 [SCL(TAW-HUH) EIA Report]
0700-1900 hrs of	DIH-22-1 ⁽¹⁾	NMS-CA-2 ⁽¹⁾	Price Memorial Catholic Primary School		70 (during normal school time) 65 (during examination period)	65 [SCL(TAW-HUH) EIA Report]
normal weekdays	DIH-9-1 ⁽¹⁾⁽²⁾	NMS-CA-3 ⁽¹⁾ / NMS-CA-4 ⁽²⁾	Hong Kong Sheng Kung Hui Nursing Home	valid complaint is received.	75	70 [SCL(TAW-HUH) EIA Report]/ 63 [SCL(HHS) EIA Report]
	DIH-14-5 ⁽¹⁾⁽²⁾ NMS-CA-4 ⁽¹⁾ / Rhythm Garden, Block 1 (north-eastern façade)		75	78 [SCL(TAW-HUH) EIA Report]/ 65 [SCL(HHS) EIA Report]		

Time Period ⁽⁴⁾	EIA NSR ID	Noise Monitoring Station ID	Monitoring Station	Action Level	Limit Level, dB(A)	Predicted Maximum Construction Noise Level ⁽⁵⁾⁽⁶⁾ , dB(A)
	DIH-14-4 ⁽¹⁾⁽²⁾	NMS-CA-5 ⁽¹⁾ / NMS-CA-2 ⁽²⁾	Rhythm Garden, Block 1 (northern façade) ⁽⁷⁾		70 (during normal school time) 65 (during examination period)	69 [SCL(TAW-HUH) EIA Report] 64 [SCL(HHS) EIA Report]
	HUH-1-3 ⁽¹⁾⁽²⁾ / HH2 ⁽³⁾	NMS-CA-11 ⁽¹)/ NMS-CA-1 ⁽²⁾ / NM2 ⁽³⁾	No. 234 - 238 Chatham Road North		75	78 [Cumulative noise level of SCL(HHS), SCL(MKK-HUH), SCL(HUH-ADM),SCL (TAW-HUH) and KTE]
	OM4a	NM1 ⁽³⁾	Carmel Secondary School (South Block)		70 (during normal school time) 65 (during examination period)	70 [SCL(MKK-HUH) EIA Report]

- (1) Station / NSR ID as identified in approved EM&A Manual / EIA Report for SCL(TAW-HUH).
- (2) Station / NSR ID as identified in approved EM&A Manual / EIA Report for SCL(HHS).
- (3) Station / NSR ID as identified in approved EM&A Manual / EIA Report for SCL (MKK-HUH).
- (4) If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority should be followed.
- (5) Predicted maximum construction noise levels are taken from the approved SCL(TAW-HUH), SCL(MKK-HUH) or SCL(HHS) EIA Reports for reference only. The latest predicted maximum construction noise levels should refer to the findings of the CNMMP.
- (6) Numbers in bold and underlined indicate the measured baseline daytime noise levels (Leq, 30min) exceed the stipulated EIAO noise limits of 75dB(A) for residential premises or 70dB(A) during normal school days for educational institutions. Numbers in bold indicate the measured baseline daytime noise levels (Leq, 30min) exceed the stipulated EIAO noise limits of 65dB(A) during examination for educational institutions.
- (7) As permissions of access could not be obtained from the designated location, Canossa Primary School (San Po Kong) which is a school, the baseline monitoring has been conducted at the alternative location Rhythm Garden, Block 1 (northern façade). EIAO construction noise limits for educational institutions (i.e. 70dB(A) during normal school days and 65dB(A) during examination) has been adopted as the limit level during non-restricted hours, i.e. daytime of normal weekdays.

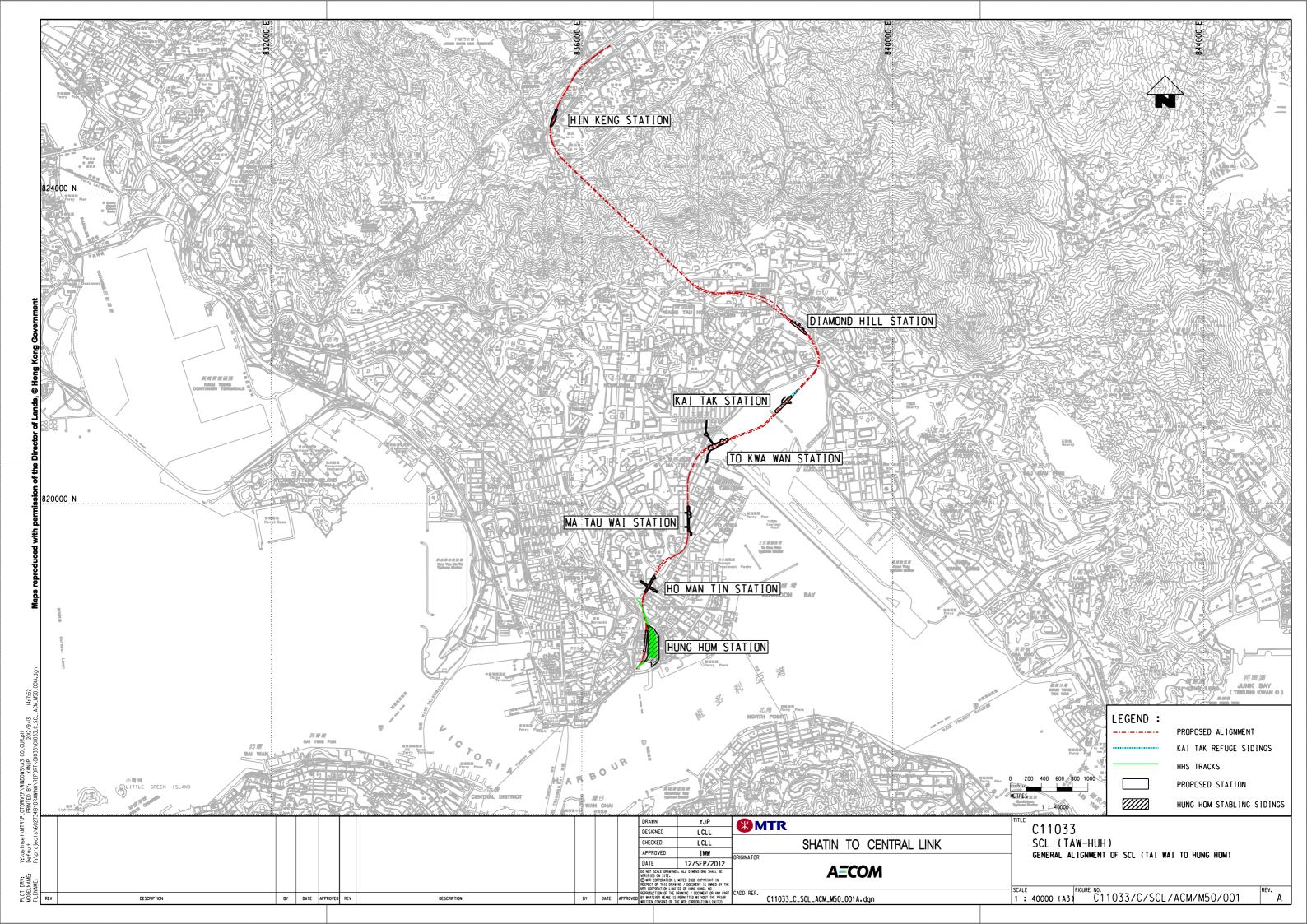
4 CONCLUSION

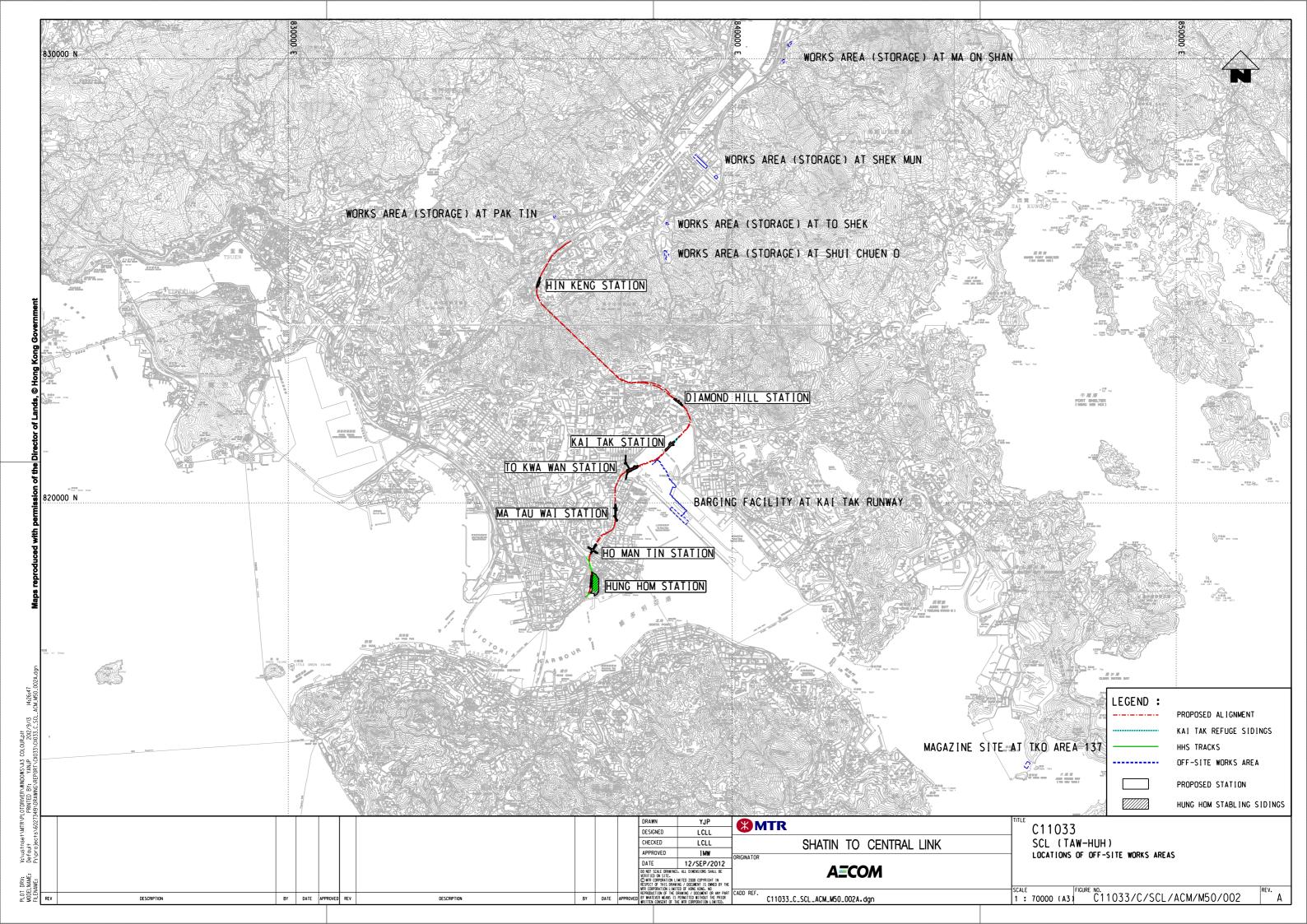
4.1 Air Quality

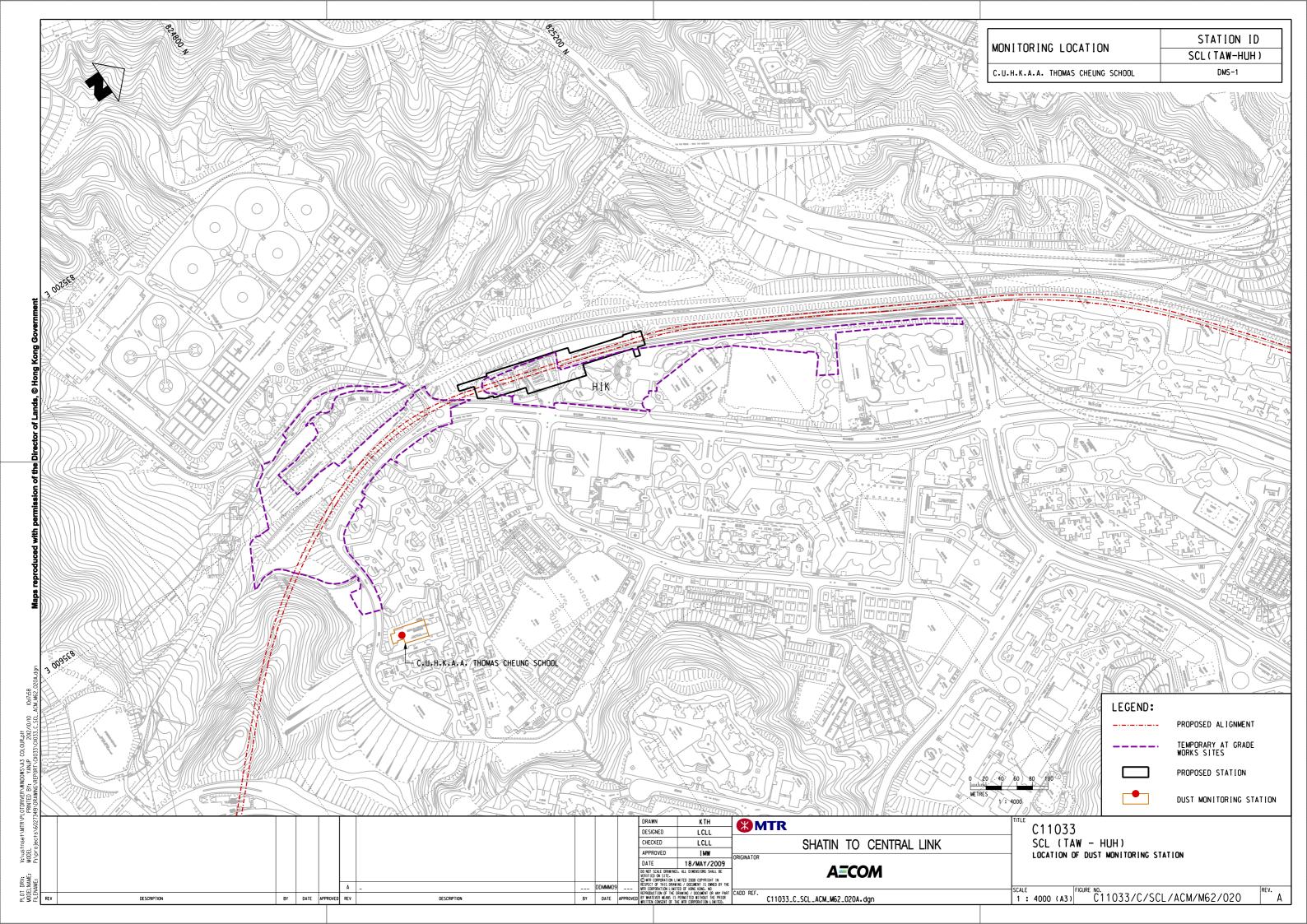
- 4.1.1 Baseline air quality monitoring was carried out between 27 August and 8 October 2012 at 5 monitoring stations in the Hin Keng to Diamond Hill and Hung Hom areas. Among these 5 monitoring stations, DMS-3 for SCL(TAW-HUH)/ DMS-4 for SCL(HHS) and DMS-11 for SCL(TAW-HUH)/ DMS-2for SCL(HHS)/ AM1 for SCL (MKK-HUH) as specified in EM&A Manual were inaccessible for monitoring respectively. Details of selection of alternative locations have been discussed, and therefore there is no revision for inclusion in the EM&A Manual.
- 4.1.2 The air quality monitoring results, in terms of 1-hr TSP and 24-hr TSP, were below the Limit Level set out in the EIAO-TM and Air Quality Objective (AQO) respectively at all monitoring locations. Action and Limit Levels for air quality at each location were derived from the baseline monitoring results.

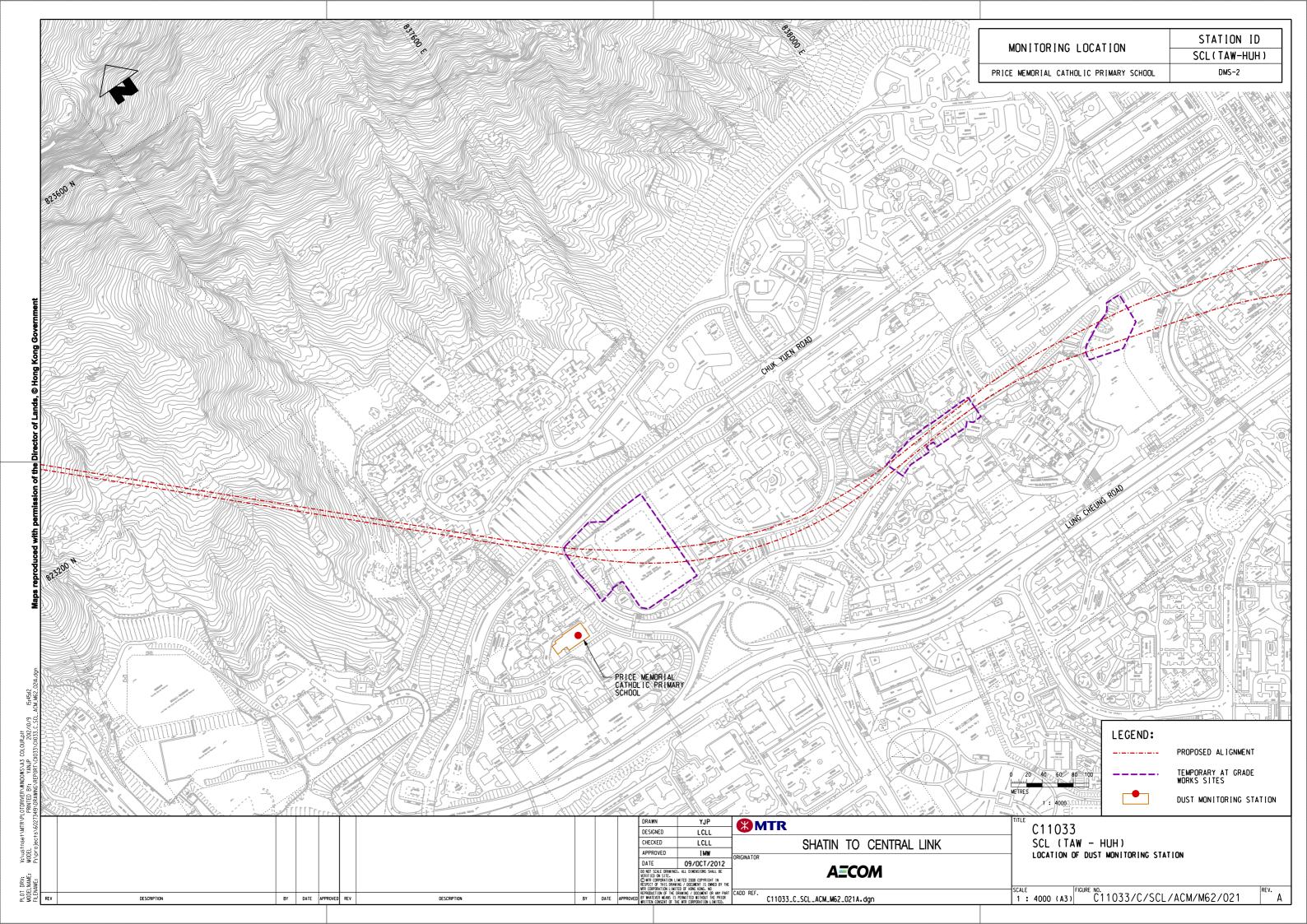
4.2 Airborne Construction Noise

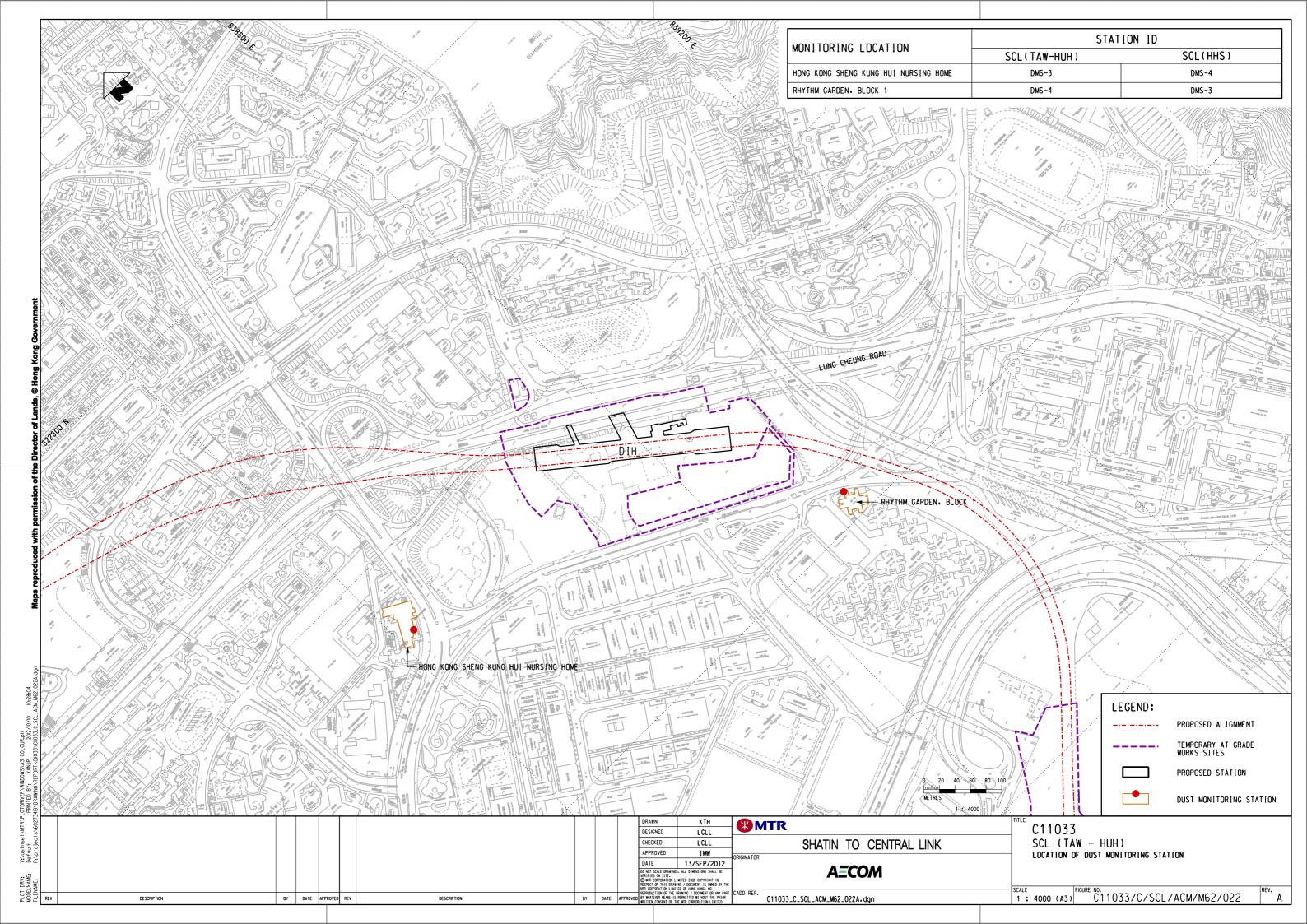
- 4.2.1 Baseline noise monitoring was carried out between 10 May and 10 October 2012 at 7 monitoring stations at Hin Keng to Diamond Hill and Hung Hom areas. Among these 7 monitoring stations, 3 monitoring stations, including NMS-CA-3 for SCL(TAW-HUH)/ NMS-CA-4 for SCL(HHS), NMS-CA-5 for SCL(TAW-HUH)/ NMS-CA-2 for SCL(HHS) and NMS-CA-11 for SCL(TAW-HUH)/ NMS-CA-1 for SCL(HHS)/ NM2 for SCL (MKK-HUH) as specified in EM&A Manuals, were inaccessible and thus they were relocated to other locations. Proposal for this alternative location was submitted and approved by EPD, and therefore there is no revision for inclusion in the EM&A Manual.
- 4.2.2 The averaged baseline daytime noise monitoring results are complied with the criteria of 75dB(A) for residential premises and 70dB(A) during normal school days and 65dB(A) during examination for educational institutions at all monitoring locations except No. 234-238 Chatham Road North (NMS-CA-11 for SCL(TAW-HUH), NMS-CA-1 for SCL(HHS), NM2 for SCL(MKK-HUH)) and Rhythm Garden, Block 1 (northern façade) (NMS-CA-5 for SCL(TAW-HUH), NMS-CA-2 for SCL(HHS)). The major noise sources affecting the noise background at No. 234-238 Chatham Road North and Rhythm Garden, Block 1 (northern façade) were observed to be traffic noise from the adjoining roads, Chatham Road North and Choi Hung Road respectively. In addition to traffic noise, background noise at No. 234-238 Chatham Road North was observed to be affected by the construction of KTE.
- 4.2.3 The Action Level of construction noise is based on documented valid complaints received, while the Limit Level for each monitoring location is set at a specific limit according to EIAO-TM and the EM&A Manual. In the event that residual impact is predicted in the CNMMP which would be submitted under EP-438/2012/A Condition 2.9 and EP-437/2012 Condition 2.7, the residual impact shall be taken into account by comparing the future impact monitoring results with the Predicted Construction Noise Levels in the CNMMP instead of the Limit Level.

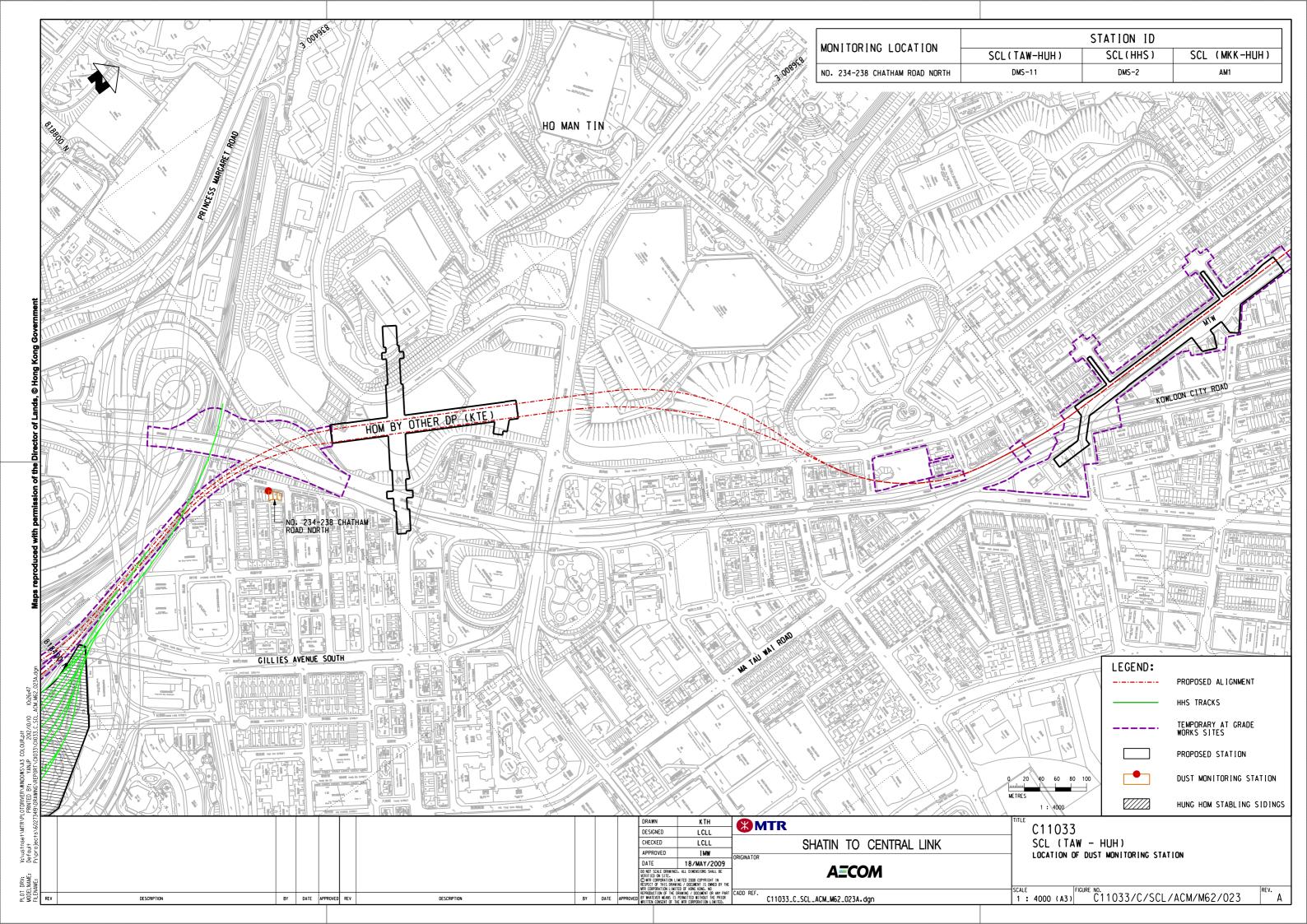


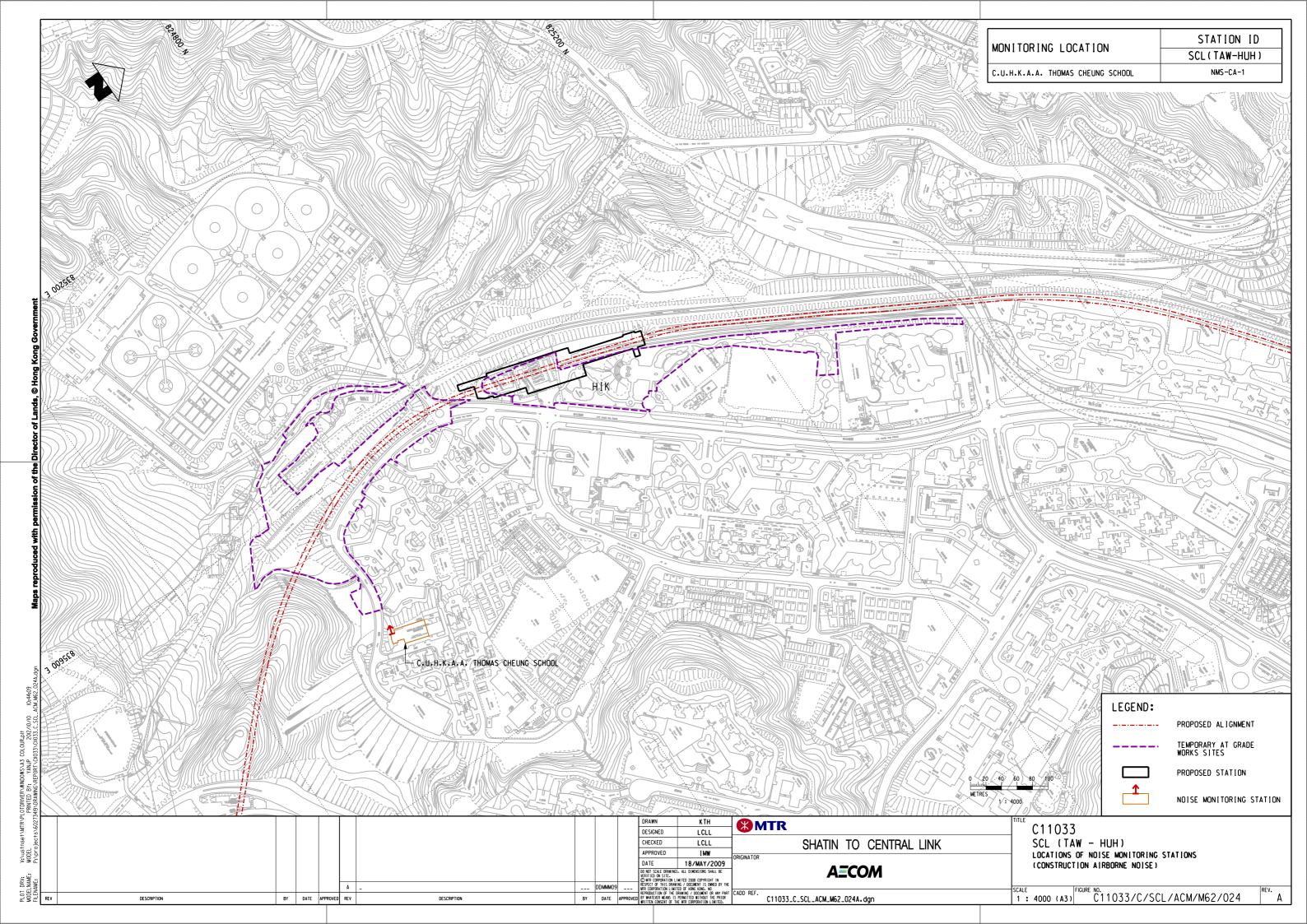


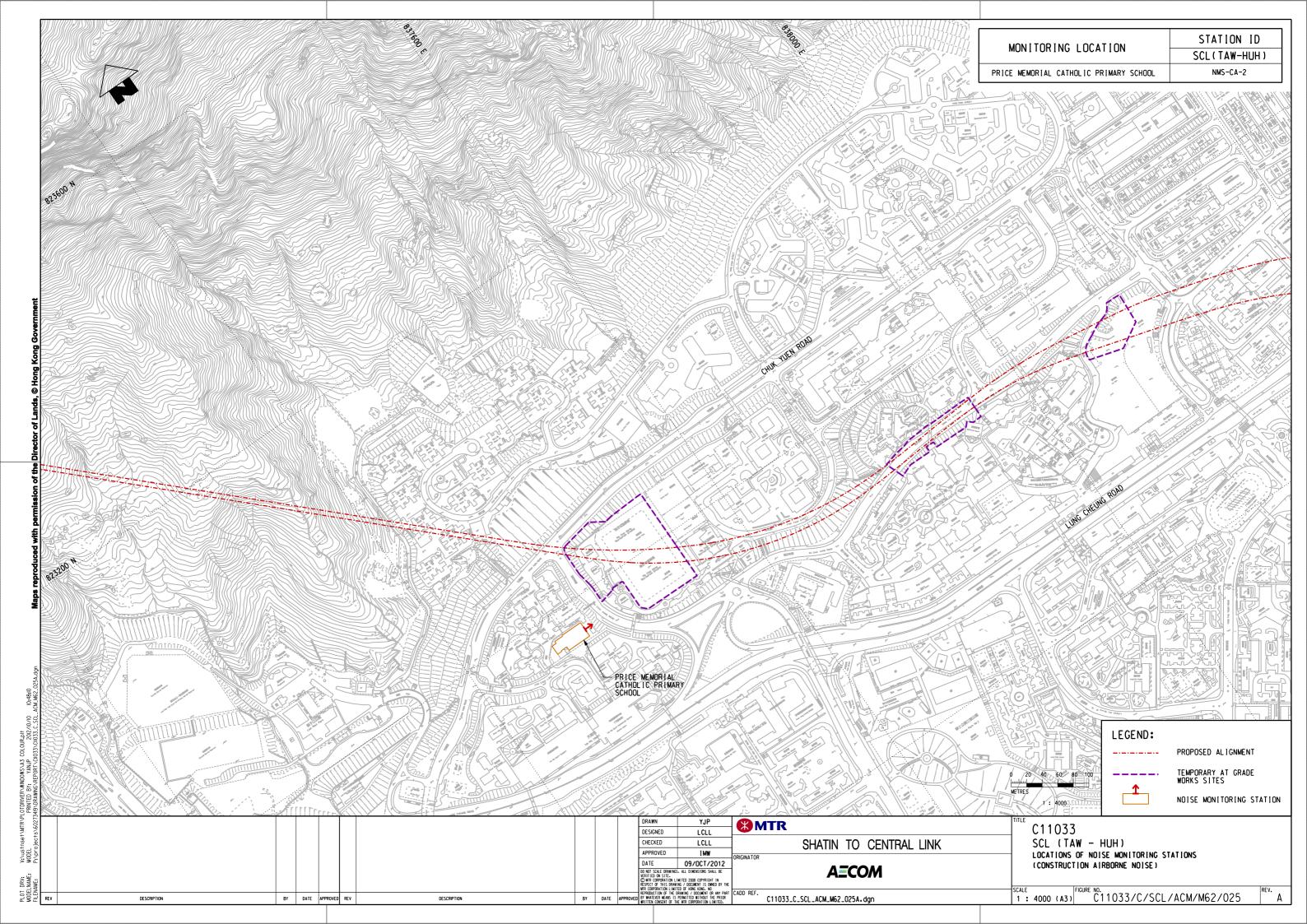


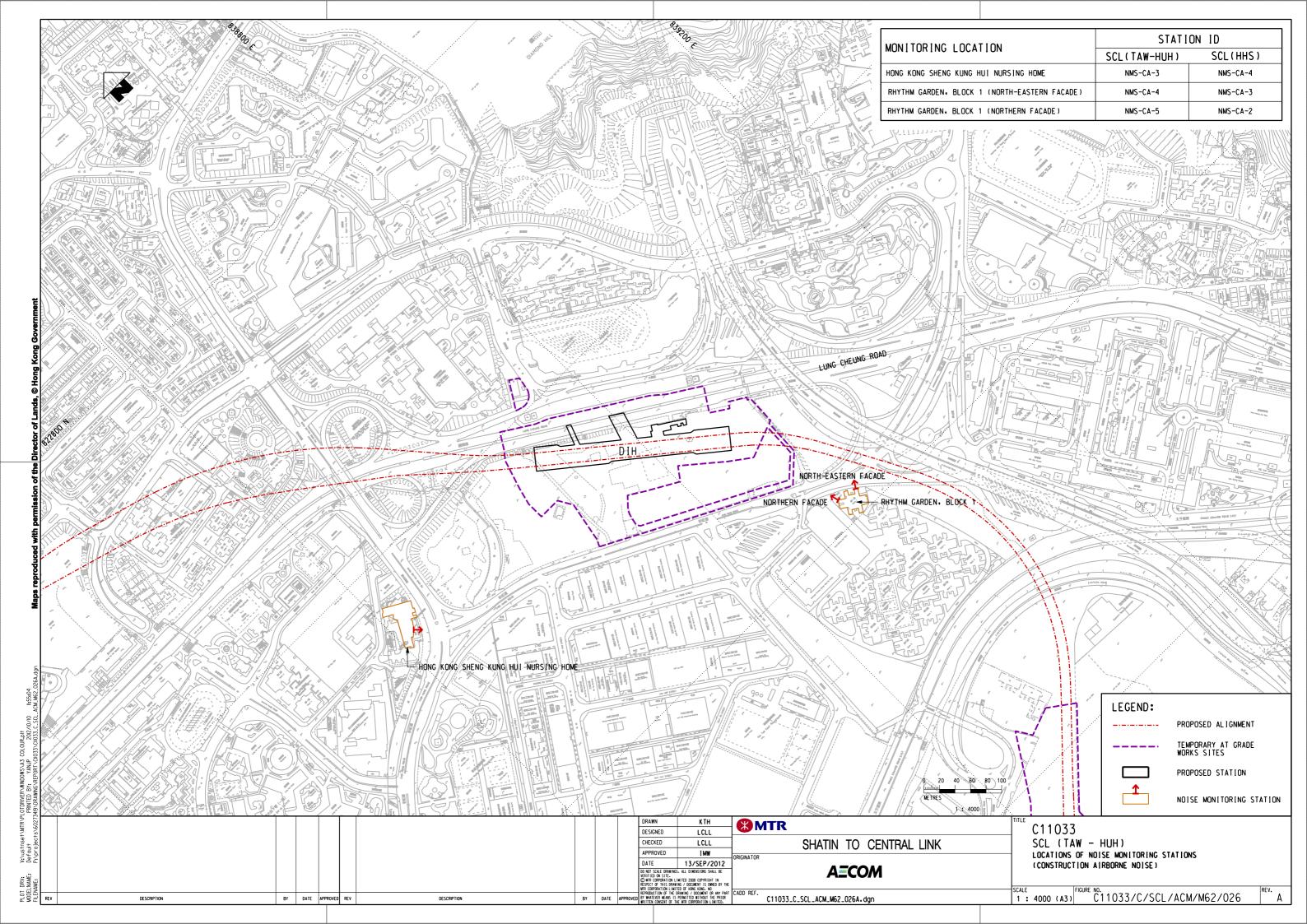


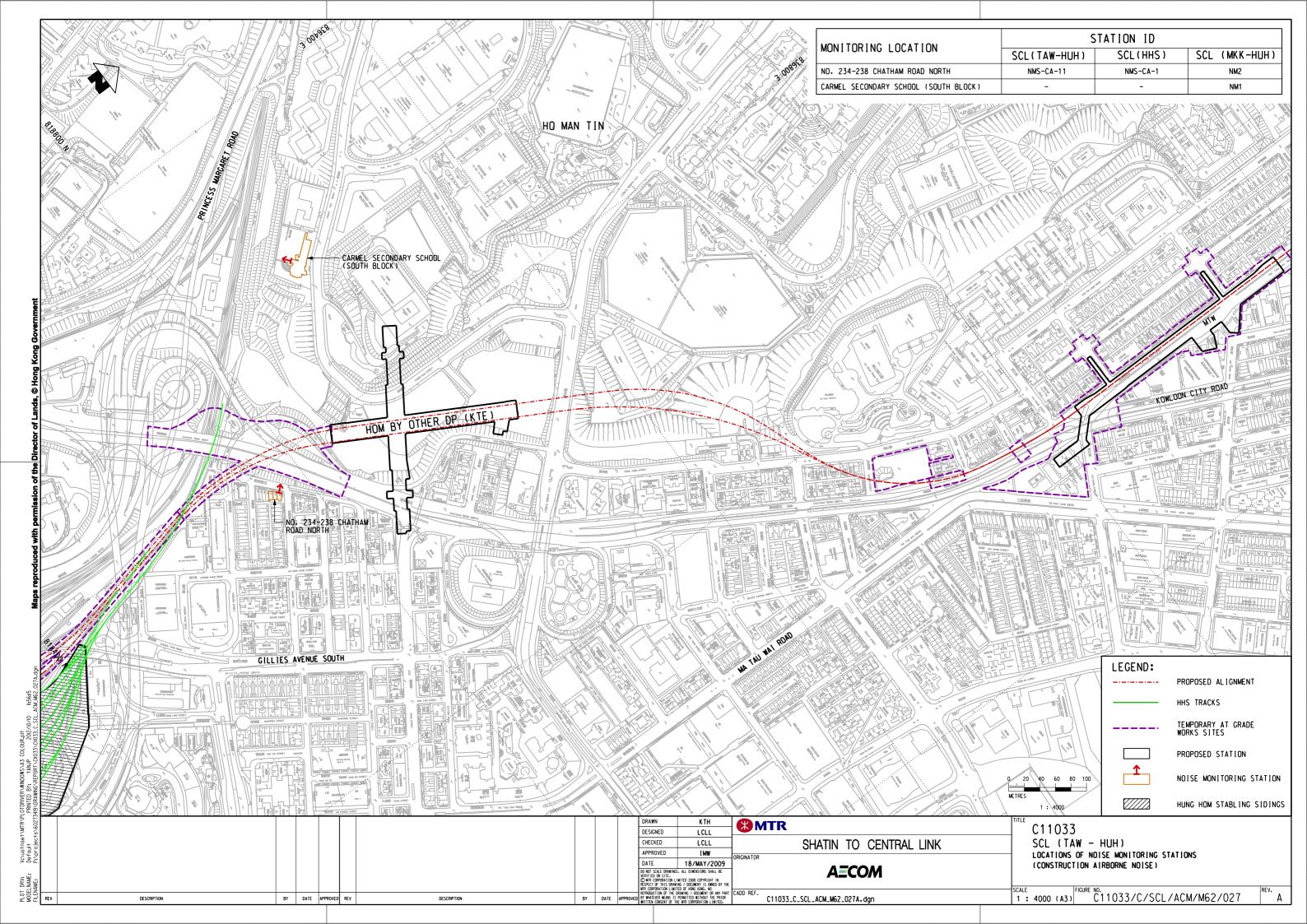












APPENDIX A

CALIBRATION CERTIFICATES OF MONITORING EQUIPMENTS



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

	ay 15, 2012 Tisch	Rootsmeter Orifice I.I		438320 0988	Ta (K) Pa (mm) -	295 - 751.84
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA	NA NA NA NA	1.00 1.00 1.00 1.00	1.3860 0.9700 0.8690 0.8290 0.6840	3.2 6.4 7.9 8.8 12.7	2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9951 0.9908 0.9887 0.9876 0.9824	0.7179 1.0215 1.1378 1.1913 1.4363	1.4137 1.9993 2.2353 2.3444 2.8275		0.9957 0.9915 0.9894 0.9883 0.9831	0.7184 1.0222 1.1385 1.1921 1.4372	0.8859 1.2528 1.4007 1.4690 1.7717
Qstd slop intercept coefficie	t (b) =	1.97048 -0.00546 0.99991		Qa slope intercept coefficie	t (b)	1.23388 -0.00342 0.99991
y axis =	SQRT [H2O (?a/7 60)(298/5	ra)]	y axis =	SQRT [H2O (1	Ca/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}

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

AECOM Asia Company Limited TSP High Volume Sampler Field Calibration Report

Station	CUHKAA Thoma	as Chueng Schoo	ol; SCL - DMS - 1	Operator:	Shum Ka		
Cal. Date:	27-Aug-12			Next Due Date:	27-Oct-12		
Equipment No.:	A-001-81T			Serial No. 3		54	
				Condition			
Temperatu	re, Ta (K)	304.6	Pressure, F	Pa (mmHg)		757.1	
			Orifice Transfer S	tandard Informatio	n		
Seria	l No:	843	Slope, mc	2.00834	Interce	ept, bc	-0.02923
Last Calibra		15-Nov-11		mc x Qstd + bc	= [DH x (Pa/760) x	(298/Ta)] ^{1/2}	
Next Calibra		15-Nov-12		Qstd = {[DH x (l	Pa/760) x (298/Ta)]	1/2 -bc} / mc	
			Calibration of	f TSP Sampler			
		(Orfice		HV	S Flow Recorder	
Resistance Plate No.	DH (orifice), in. of water	[DH x (Pa/7	760) x (298/Ta)] ^{1/2}	Qstd (m³/min) X · axis	Flow Recorder Reading (CFM)	Continuous Flow I Reading IC (CFM)	
18	7.7		2.74	1.38	44.0	43.44	
13	6.4		2.50	1.26	40.0	39.49	
10	5.1		2.23	1.12	34.0	33.57	
7	3.4		1.82	0.92	28.0	27.64	
5	2.2		1.46	0.74	22.0	21.72	
By Linear Regression of Y on X Slope , mw = 34.2305 Correlation Coefficient* = 0.9961 *If Correlation Coefficient < 0.990, check and recalibrate.				Intercept, bw =	-3.9759		
II Correlation of	Jemolent - 0.000	, onook and rook					
				Calculation			
From the TSP Fi	eld Calibration C	urve, take Qstd =	= 1.30m ³ /min				
From the Regres	ssion Equation, th	ne "Y" value acco	rding to				
			v x Qstd + bw = IC	·· [/D=/700) ·· /000/	T-\11/2		
		mv	v x Qsta + bw - iC	X [(Pai/60) X (296)	1 4)]		
Therefore, Set P	oint; IC = (mw x	Qstd + bw) x [(760 / Pa) x (Ta / 2	98)] ^{1/2} =		41.05	
Remarks:							
QC Reviewer: _	INS CHA	N_	Signature:	71		Date: 28/8	112

Station	CUHKAA Thomas Chueng School; SCL - DMS - 1
Cal. Date:	27-Aug-12

Next Due Date: 2

27-Oct-12

Set Point (IC) 41.05

IC (CFM)	Qstd (m³/min)
24	0.817
25	0.846
26	0.876
27	0.905
28	0.934
29	0.963
30	0.993
31	1.022
32	1.051
33	1.080
34	1.109
35	1.139
36	1.168
37	1.197
38	1.226
39	1.255
40	1.285
41	1.314
42	1.343
43	1.372
44	1.402
45	1.431
46	1.460
47	1.489
48	1.518
49	1.548
50	1.577
51	1.606
52	1.635
53	1.664
54	1.694
55	1.723
56	1.752
57	1.781
58	1.811
59	1.840
60	1.869
61	1.898
62	1.927
63	1.957
64	1.986
65	2.015

AECOM Asia Company Limited TSP High Volume Sampler Field Calibration Report

Station	Price Memorial (Catholic Primary S	School; DMS - 2	Operator: _	Choi W	_		
Cal. Date:	13-Sep-12			Next Due Date:	13-No	13-Nov-12		
Equipment No.:				Serial No. 3175			-	
			Ambient	Condition				
Temperatu	ire, Ta (K)	304.0	Pressure, I	Pa (mmHg)		753.3		
			Orifice Transfer S	tandard Informatio	n			
Seria	l No:	988	Slope, mc	1.97048		ept, bc	-0.0054	
Last Calibr	ation Date:	15-May-12		mc x Qstd + bc	= [DH x (Pa/760) x	(298/Ta)] ^{1/2}		
Next Calibr	ation Date:	15-May-13		Qstd = {[DH x (I	Pa/760) x (298/Ta)]	^{1/2} -bc} / mc		
			Calibration of	of TSP Sampler				
		C	rfice		HV	S Flow Recorder		
Resistance Plate No.	DH (orifice), in. of water	[DH x (Pa/76	60) x (298/Ta)] ^{1/2}	Qstd (m³/min) X - axis	Flow Recorder Reading (CFM)	Continuous Flow Reading IC (CF		
18	7.5		2.70	1.37	44.0	43.37	7	
13	6.3		2.47	1.26	40.0	39.43	3	
10	5.0		2.20	1.12	36.0	35.49	9	
7	3.4		1.82	0.93	30.0	29.57	7	
5	2.2		1.46	0.74	22.0	21.69	9	
By Linear Regro Blope , mw = Correlation Coe	33.6191	_	9933	Intercept, bw =	-2.5	5504	5	
				_				
If Correlation Co	pefficient < 0.990	, check and recali	brate.					
			Set Point	Calculation				
rom the TSP Fi	eld Calibration C	urve, take Qstd =						
		ne "Y" value accor						
			3					
		mw	x Qstd + bw = IC	x [(Pa/760) x (298/	Ta)] ^{1/2}			
Γherefore, Set P	oint; IC = (mw x	Qstd + bw) x [(7	60 / Pa) x (Ta / 29	98)] ^{1/2} =		41.75		
							_	
Remarks:								
	[]		C V	· 1		11.10	1.	
QC Reviewer: _	WS CHA	2	Signature:	-/\		Date: 14/9	112	

Station Price Memorial Catholic Primary School; DMS - 2

Cal. Date: <u>13-Sep-12</u>

Next Due Date: 13-Nov-12

Set Point (IC) 41.75

IC (CFM)	Qstd (m³/min)
24	0.790
25	0.819
26	0.849
27	0.879
28	0.909
29	0.938
30	0.968
31	0.998
32	1.028
33	1.057
34	1.087
35	1.117
36	1.147
37	1.176
38	1.206
39	1.236
40	1.266
41	1.295
42	1.325
43	1.355
44	1.385
45	1.414
46	1.444
47	1.474
48	1.504
49	1.533
50	1.563
51	1.593
52	1.623
53	1.652
54	1.682
55	1.712
56	1.742
57	1.771
58	1.801
59	1.831
60	1.861
61	1.890
62	1.920
63	1.950
64	1.980
65	2.009

AECOM Asia Company Limited TSP High Volume Sampler Field Calibration Report

Station	HKSKH Nursing	Home; SCL - DM	S-3	Operator:	Choi W	ing Ho
al. Date: 11-Sep-12				Next Due Date:	11-No	ov-12
Equipment No.:	A-001-81T			Serial No.	34	54
				Condition		
Temperatu	ıre, Ta (K)	303.2	Pressure, F	Pa (mmHg)		758.6
			Orifice Transfer S	tandard Informatio	n	
Seria	l No:	988	Slope, mc	1.97048	Interce	ept, bc -0.00546
Last Calibra		15-May-12		mc x Qstd + bc	= [DH x (Pa/760) x	(298/Ta)] ^{1/2}
Next Calibr		15-May-13			Pa/760) x (298/Ta)]	
			Calibration of	of TSP Sampler		
		(Orfice		HVS	S Flow Recorder
Resistance Plate No.	DH (orifice), in. of water	[DH x (Pa/7	60) x (298/Ta)] ^{1/2}	Qstd (m³/min) X - axis	Flow Recorder Reading (CFM)	Continuous Flow Recorder Reading IC (CFM) Y-axis
18	7.7		2.75		44.0	43.58
13	6.4		2.51	1.27	40.0	39.62
10	5.1		2.24	1.14	34.0	33.68
7	3.4		1.83	0.93	28.0	27.73
5	2.2		1.47		22.0	21.79
Slope , mw = Correlation Coe		0	.9961	Intercept, bw =	-3.5	823
11 Correlation C	oemcient < 0.990	, check and recal	ibrate.			
			Set Point	Calculation		
From the TSP F	ield Calibration C	urve, take Qstd =	1.30m ³ /min			
From the Regres	ssion Equation, th	ne "Y" value acco	rding to			
			0-44 1 h = 10	x [(Pa/760) x (298/	To)1 ^{1/2}	
		mv	/ X Qsta + bw = IC	X [(Pai/60) X (296)	ı a)j	
Therefore, Set F	Point; IC = (mw x	Qstd + bw) x [(7	760 / Pa) x (Ta / 2	98)] ^{1/2} =		40.46
Remarks:						
						<u> </u>
QC Reviewer: _	his U	1AN_	Signature:	RA		Date: 12/9/12

Station	HKSKH Nursing Home; SCL - DMS - 3

Cal. Date: <u>11-Sep-12</u>

Next Due Date: 27-Oct-12

Set Point (IC) 40.46

IC (CFM)	Qstd (m³/min)
24	0.821
25	0.851
26	0.881
27	0.911
28	0.940
29	0.970
30	1.000
31	1.030
32	1.059
33	1.089
34	1.119
35	1.149
36	1.179
37	1.208
38	1.238
39	1.268
40	1.298
41	1.327
42	1.357
43	1.387
44	1.417
45	1.447
46	1.476
47	1.506
	400000000000000000000000000000000000000
48	1.536
49	1.566
50	1.595
51	1.625
52	1.655
53	1.685
54	1.715
55	1.744
56	1.774
57 58	1.804
59	1.863
60	1.893
61	1.923
62	1.953
63	1.982
64	2.012
65	2.042

AECOM Asia Company Limited TSP High Volume Sampler Field Calibration Report

Station	Rhythm Garden,	Block 1; DMS - 4	1	Operator:	Choi W	ing Ho
Cal. Date:	11-Sep-12			Next Due Date:	11-No	ov-12
Equipment No.:	A-001-53T			Serial No.	102	216
			Ambient	Condition		
Temperatu	ure, Ta (K)	303.2	Pressure, I	Pa (mmHg)		758.6
· ·						*
			Orifice Transfer S	tandard Informatio	n	
Seria	al No:	988	Slope, mc	1.97048	Interce	
Last Calibr	ation Date:	15-May-12	-		= [DH x (Pa/760) x	
Next Calibr	ration Date:	15-May-13		Qstd = {[DH x (F	Pa/760) x (298/Ta)]	^{1/2} -bc} / mc
				of TSP Sampler		
			Orfice		HV	S Flow Recorder
Resistance Plate No.	DH (orifice), in. of water	[DH x (Pa/7	(60) x (298/Ta)] ^{1/2}	Qstd (m³/min) X - axis	Flow Recorder Reading (CFM)	Continuous Flow Recorder Reading IC (CFM) Y-axis
18	7.4		2.69		40.0	39.62
13	5.7		2.36	1.20	36.0	35.66
10	4.7		2.15		34.0	33.68
7	3.3		1.80		31.0	30.70
5	2.2		1.47	0.75	28.0	27.73
Slope , mw = Correlation Co		0	.9943	Intercept, bw =	13.4	4959
*If Correlation C	oefficient < 0.990	, check and recal	ibrate.			
			Set Point	Calculation		
From the TSP F	ield Calibration C	urve, take Qstd =	: 1.30m³/min			
From the Regre	ssion Equation, th	ne "Y" value acco	rding to			
					- >1/2	
		mv	v x Qstd + bw = IC	x [(Pa/760) x (298/	(a)]	
Therefore Set F	Point: IC = (mw x	Ostd + bw) x [(7	760 / Pa) x (Ta / 2	98)] ^{1/2} =		38.23
THOROTOTO, GOTT	(/·- K	, , , ,	,,		
Remarks:						
				A		
OC Reviewer	1-K (+	IM	Signature:	71		Date: 12/9/12

Station Rhythm (Garden, B	lock 1;	DMS - 4

Cal. Date: <u>11-Sep-12</u>

Next Due Date: 11-Nov-12

Set Point (IC) <u>38.23</u>

IC (CFM)	Qstd (m³/min)
24	0.560
25	0.614
26	0.667
27	0.720
28	0.774
29	0.827
30	0.880
31	0.934
32	0.987
33	1.040
34	1.094
35	1.147
36	1.200
37	1.254
38	1.307
39	1.361
40	1.414
41	1.467
42	1.521
43	1.574
44	1.627
45	1.681
46	1.734
47	1.787
48	1.841
49	1.894
50	1.947
51	2.001
52	2.054
53	2.107
54	2.161
55	2.214
56	2.267
57	2.321
58	2.374
59	2.427
60	2.481
61	2.534
62	2.587
63	2.641
64	2.694
65	2.747

AECOM Asia Company Limited TSP High Volume Sampler Field Calibration Report

Station	234 - 238 Chatha	m Road North; S	SCL - DMS - 11	Operator:	Shum Ka	am Yuen	
Cal. Date:	25-Sep-12			Next Due Date:	25-No	ov-12	
Equipment No.:				Serial No.	82	8259	
			Ambient	Condition			
Temperatu	re, Ta (K)	302.4	Pressure, I	Pa (mmHg)		760.5	
	•				ě.	9	
			Orifice Transfer S	tandard Informatio	n		
Seria	l No:	843	Slope, mc	2.00834		ept, bc	-0.0292
Last Calibra	ation Date:	15-Nov-11			= [DH x (Pa/760) x		
Next Calibra	ation Date:	15-Nov-12		Qstd = {[DH x (F	Pa/760) x (298/Ta)]	^{1/2} -bc} / mc	
			Calibration o	of TSP Sampler			
		C	Orfice	, ioi sumpio	HV	S Flow Recorder	
Resistance Plate No.	DH (orifice), in. of water	[DH x (Pa/7	60) x (298/Ta)] ^{1/2}	Qstd (m³/min) X · axis	Flow Recorder Reading (CFM)	Continuous Flow Reading IC (CFM	
18	8.7	2.93		1.47	49.0	48.66	
13	7.4		2.70		45.0	44.69	
10	6.1		2.45		39.0	38.73	
7	4.4	2.08		1.05	32.0	31.78	
5	3.1		1.75	0.89	26.0	25.82	
Slope , mw = Correlation Coe	39.3953 fficient* = efficient < 0.990,		9978 brate.	Intercept, bw =	-9.3	816	
				Calculation			
	eld Calibration Cu						
From the Regres	sion Equation, the	e "Y" value accor	ding to				
		*****	v Oatd 1 h = 10	х [(Pa/760) x (298/1	Fa)1 ^{1/2}		
		IIIW	x QSta + bw - IC	x [(Pai/60) x (290)	[4)]		
Therefore, Set Pr	oint: IC = (mw x C	Qstd + bw) x [(7	60 / Pa) x (Ta / 29	98)11/2=		42.13	
	, , , , , , , , , , , , , , , , , , , ,	, .,	, (,,			- 40
					-		
Remarks:							
Ciliains.							
terrains.				-			

Station 234 - 238 Chatham Road North; SCL - DMS - 11

Cal. Date: 25-Sep-12

Next Due Date: 27-Oct-12

Set Point (IC) 42.13

IC (CFM)	Qstd (m³/min)
24	0.847
25	0.873
26	0.898
27	0.924
28	0.949
29	0.974
30	1.000
31	1.025
32	1.050
33	1.076
34	1.101
35	1.127
36	1.152
37	1.177
38	1.203
39	1.228
40	1.253
41	1.279
42	1.304
43	1.330
44	1.355
45	1.380
46	1.406
47	1.431
48	1.457
49	1.482
50	1.507
51	1.533
52	1.558
53	1.583
54	1.609
55	1.634
56	1.660
57	1.685
58	1.710
59	1.736
60	1.761
61	1.787
62	1.812
63	1.837
64	1.863
65	1.888

EQUIPMENT CALIBRATION RECORD

Type: Manufacturer/Brand:				Laser Dust Monitor				
				SIBATA				
Mode			_	<u>LD-3</u> A.005.09a				
Equip	ment No.							
Sensi	tivity Adjustment	Scale Sett	ing:	797 CP	M			
Opera	Operator				k (MSKI	M)		
Standa	rd Equipment							
Equip	ment	Rup	precht & Pa	tashnick	TEOM®			
Venue			erport (Pui \			chool)		_
Model	No :		es 1400AB					
Serial	No	Con		DAB2198	99803			
		Sen:		DOC1436		K _o : 12500)	
Last C	Calibration Date*		ay 2012					
	ks Recommend	led interval	for hardwai	re calibra	tion is 1	year		
Calibra	tion Result							
	tivity Adjustment tivity Adjustment					797 CF		
Hour	Date	T	Time		pient	Concentration ¹	Total	Count
	(dd-mm-yy)			Condition		(mg/m³)	Count ²	Minute
				Temp (°C)	R.H. (%)	Y-axis		X-axis
1	02-06-12	13:30	- 14.30	27.9	63	0.04070	1626	27.10
2	02-06-12	14 30	- 15.30	27.9	63	0.04167	1667	27.78
3	02-06-12	15.30	- 16:30	28.2	64	0.04283	1708	28.47
4	02-06-12	16:30	- 17.30	28.1	63	0.04146	1659	27.65
Note						ashnick TEOM®	1.305	27,00
Slope	Total Count Count/minu Regression of (K-factor) ation coefficient	te was calc						
	y of Calibration I		1 June 20	13				
Remark	s;							
		15						
					1 /			
QC Re	eviewer YW I	-ung	Signal	ture:	4/	Date	e: 4 June	2012

EQUIPMENT CALIBRATION RECORD

Type:			_	Laser Du	ıst Moni	tor		
	facturer/Brand:			SIBATA				
Model			_	LD-3B				
	ment No.: tivity Adjustment	Scale Sett	_	A.005.13 643 CPI				
0011311	avity Adjootinont	00010 0011	g	0-10 0//	<u> </u>			
Opera	ntor:			Mike She	k (MSKI	<u>//)</u>		
Standa	rd Equipment							
Equip	ment:	Rup	precht & Pai	tashnick '	TEOM®			
Venue	e:	Cyb	erport (Pui \	ing Seco	ndary So	chool)		
Model	No.:	Seri	es 1400AB	_			•	
Serial	No:	Con	trol: <u>140</u>	AB21989	99803			
		Sen	sor: <u>120</u>	00C14365	59803	K _o : <u>12500</u>		
Last C	Calibration Date*:	_5 Ma	ay 2012					
*Remar	ks: Recommend	ed interval	for hardwar	re calibra	tion is 1 y	/ear		
Calibra	tion Result							
								
	ivity Adjustment					643 CF		
Sensit	ivity Adjustment	Scale Sett	ing (After Ca	alibration):	CF	'M	
Hour	Date	Т	ime	Amk	ient	Concentration ¹	Total	Count
	(dd-mm-yy)	•		,	lition	(mg/m ³)	Count ²	Minute
	(== ,,,			Temp	R.H.	Y-axis		X-axis
				(°C)	(%)		,	
1_	02-06-12	13:30	- 14:30	27.9	63	0.04070	1623	27.05
2	02-06-12	14:30	- 15.30	27.9	63_	0.04167	1663	27.72
3	02-06-12	15:30	- 16:30	28.2	64	0.04283	1771	28.52
4	02-06-12	16:30	<u>- 17:30</u>	28.1	63	0.04146	1656	27.60
Note:						shnick TEOM®	51	
	2. Total Count							
	3. Count/minut	e was cald	culated by (T	otal Cou	nt/60)			
By Line	ar Regression of	V or Y						
	(K-factor):	IVIX	0.0015					
	ation coefficient:		0.9988					
			-	40				
	y of Calibration F	kecoru.	1 June 20	13				
Validit								
	e.							
Validity Remark	s:							
	s:		2					
	s:	_						
	s:		3					
	s :		11					
	s:		1					

£ _____

Type:

EQUIPMENT CALIBRATION RECORD

Laser Dust Monitor

Manufacturer/Brand:				SIBATA				
Model No.:				LD-3B				
Equip	ment No.:			A.005.14a				
Sensi	itivity Adjustment	Scale Se	tting:	786 CP	M			
Operator:				Mike Sh	ek (MSKI	M)		
Standa	rd Equipment							
Caula								
	ment:		pprecht & F			7 0		
Venue Mode			perport (Pur		ondary S	cnooi)		
		A. C.	ies 1400AE		00000			
Serial	NO:		0.000	40AB2198		V . 4050		
l set (Calibration Date*:		nsor: <u>1:</u> lay 2012	200C1436	59803	K _o : <u>12500</u>	,	
Last	Janbradon Date		dy ZOTZ					Martin State of the State of th
*Remar	ks: Recommend	ed interva	l for hardw	are calibra	ition is 1	year		
Calibra	tion Result	-						
Sensi	tivity Adjustment tivity Adjustment	Scale Set Scale Set	ting (Before ting (After (e Calibration	on):):		PM PM	
Hour	Date	T	ime	Am	bient	Concentration	Total	Count
	(dd-mm-yy)				dition	(mg/m ³)	Count ²	Minute ³
				Temp	R.H.	Y-axis		X-axis
	00.06.40	40.45	44.45	(°C)	(%)	0.04070	17/0	00.40
1 2	02-06-12	13:15	- 14:15		63	0.04073	1746	29.10
3	02-06-12	14:15	- 15:15		63	0.04154	1778	29.63
4	02-06-12 02-06-12	15:15 16:15	- 16:15 - 17:15		64	0.04269 0.04136	1830 1769	30.50
Note:						shnick TEOM®	1708	29.48
NOG.	2. Total Count 3. Count/minut	was logge	ed by Laser	Dust Mon	itor	ISHNICK TEOM		
	ar Regression of	Y or X						
	(K-factor):		0.0014					
Correl	ation coefficient:		0.9963					
Validit	y of Calibration F	Record:	1 June 2	013				
Remark	s:						1	
			,					
	· · ·							
			ħ.					
QC Re	viewer: YW F	ung	_ Signa	ature:	-	Date	: 4 June	2012



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



CERTIFICATE OF CALIBRATION

Certificate No.:

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Item tested

Description: Manufacturer: Sound Level Meter (Type 1)

Microphone **B&K**

Type/Model No.: Serial/Equipment No.: **B&K** 2238

4188

Adaptors used:

2255688

2141430

Item submitted by

Customer Name:

AECOM ASIA CO., LTD.

Address of Customer:

Request No .:

Date of receipt:

16-Nov-2011

Date of test:

21-Nov-2011

Reference equipment used in the calibration

Description:

Signal generator

Signal generator

Multi function sound calibrator

Model: B&K 4226 DS 360 DS 360

Serial No.

2288444 33873

61227

Expiry Date:

09-May-2012 30-May-2012 30-May-2012

Traceable to:

CIGISMEC **CEPREI** CEPREI

Ambient conditions

Temperature:

(23 ± 1) °C $(55 \pm 10) \%$ (1005 ± 5) hPa

Relative humidity: Air pressure:

Test specifications

The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.

The electrical tests were performed using an electrical signal substituted for the microphone which was removed and 2, replaced by an equivalent capacitance within a tolerance of ±20%.

The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference 3, between the free-field and pressure responsess of the Sound Level Meter.

Test results

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

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

Actual Measurement data are documented on worksheets.

Approved Signatory:

Date: Fena Jun Qi

21-Nov-2011

Company Chop:

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

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CERTIFICATE OF CALIBRATION

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Ce	rtit	icate	NO.	

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1. Electrical Tests

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

Test:	Test: Subtest:		Uncertanity (dB) / Cov	verage Factor
Self-generated noise	A	Pass	0.3	
	С	Pass	1.0	2.1
	Lin	Pass	2.0	2.2
Linearity range for Leq	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
Frequency weightings	Α	Pass	0.3	
	С	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	Pass	0.3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/10 ³ at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/10⁴ at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

2, Acoustic tests

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

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

3, Response to associated sound calibrator

N/A

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

Calibrated by:

Date:

Chan Chun Lam 21-Nov-2011 ----

Checked by:

Date:

Feng Jun Qi 21-Nov-2011

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

Fnd

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Tel: (852) 2873 6860 Fax: (852) 2555 7538



CERTIFICATE OF CALIBRATION

Certificate No.:

11CA0711 01-01

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Item tested

Description:

Sound Level Meter (Type:1)

Microphone

Manufacturer: Type/Model No.:

B&K 2238

B&K

Serial/Equipment No.:

2255677

4188

Adaptors used:

2250455

Item submitted by

Customer Name:

AECOM'ASIA CO., L'TD.

Address of Customer: Request No.:

Date of receipt:

11-Jul-2011

Date of test:

11-Jul-2011

Reference equipment used in the calibration

Description:

Multi function sound calibrator

Model: B&K 4226 DS 360

Serial No.

Explry Date: 09-May-2012

Traceable to: CIGISMEC

Signal generator Signal generator

DS 360

2288444 33873 61227

30-May-2012 30-May-2012

CEPREI CEPREI

Ambient conditions

Temperature:

(22 ± 1):°C (55±5) %

Relative humidity: Air pressure:

(990 ± 5) hPa

Test specifications

The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152. 2,

The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%

The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference 3. between the free-field and pressure responsess of the Sound Level Meter.

Test results

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

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

Actual Measurement data are documented on worksheets.

ed Signatory:

Huang Jlan dicaFeng Jun Qi

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

Soils & Materials Engineering Co., Ltd.

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



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CERTIFICATE OF CALIBRATION

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1, Electrical Tests

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

Test:	Subtest:		Uncertanity (dB) / Coverage Factor
Self-generated noise	A	Pass	0.3
-	C	Pass	0.8 2.1
	Lin	Pass	1.6 2.2
Linearity range for Leq	At reference range, Step 5 dB at 4 kHz	Pass	0.3
	Reference SPL on all other ranges	Pass	0.3
	2 dB below upper limit of each range	Pass	0.3.
	2 dB above lower limit of each range	Pass	0.3
Linearity range for SPL	At reference range, Step 5 dB at 4 kHz	Pass	0.3
Frequency weightings	Α	Pass	0.3
	C	Pass	0.3
	Lin	Pass	0.3
l'ime weightings	Single Burst Fast	Pass.	0.3
	Single Burst Slow	Pass	0.3
Peak response	Single 100µs rectangular pulse	Pass	0.3
R.M.S. accuracy	Crest factor of 3.	Pass	0.3
l'ime weighting Í	Single burst 5 ms at 2000 Hz	Pass	0.3
	Repeated at frequency of 100 Hz	Pass	0.3
Time averaging.	1 ms burst duty factor 1/103 at 4kHz	Pass	0.3
	1 ms burst duty factor 1/10 ⁴ at 4kHz	Pass.	0.3
Pulse range	Single burst 10 ms at 4 kHz	Pass.	0.4
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4
Overload indication	SPL	Pass	0.3
	Leq.	Pass	0.3

2, Acoustic tests.

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

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

3, Response to associated sound calibrator

N/A

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

Calibrated by:

Fung Chi

End

1 Checked by

13-Jul-201

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

O Soils & Materials Engineering Co., Ltd.

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

CERTIFICATE OF CALIBRATION

Certificate No.: 2KS12-DEMO Page 1 of 2

Calibration of:

Description:

Sound Level Meter

Microphone

Manufacture:

Brüel & Kjær

Type No.

2238

4188

Serial No.

2285692

2641129

Client:

Spectris China Limited 706 Miramar Tower 132 Nathan Road

TST, Kln.

HK

Calibration Conditions:

Air Temperature :

23 °C

Air Pressure

101.0 kPa

Relative Humidity:

59 %

Test Specifications:

The Sound Level Meter has been calibrated in accordance with the requirements as specified in IEC 60651 and IEC 60804 type 1, and vendor specific procedures.

The measurements has been performed with the assistance of:

Brüel & Kjær's Sound Level Meter Calibration System B&K 9600 CAL2238A, Ver.25.10.1999 The standard(s) and instrument(s) used in the calibration are traceable to international standard and are calibrated on a schedule which is adjusted to maintain the required accuracy level.

Test Result:

A list of the performed (sub) tests is stated on page 2 of this certificate. Actual Measurement are documented on worksheet.

Date of Calibration: 22 April, 2012

Certificate issued: 22 April, 2012 Approved signatory:

Calibrated By:

Jacky Leung

Jacky Leung

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CERTIFICATE OF CALIBRATION

Certificate No.: 2KS12-DEMO Page 2 of 2

Results:

List of performed (sub) test with test status:

"OK" Means the result of the (sub)test is Inside the tolerances stated in the test specifications.

"-" Means the result of the (sub)test is Outside these tolerances.

Test:	Subtest:	Status:
Noise	Α	-
Noise	C	-
Noise	Lin	
Acoustic Response	A	OK.
Acoustic Response	Lin	OK

Calibration Equipment:

Brüel & Kjær's Sound	Level Meter Calibi	ration System	B&K 9600 CAL	2238A, Ver.25.10.1999
Description:	Make & Model:	Serial No.:	Last Cal. Date:	Traceable to:
Digital Multi-meter	Datron 1281	27361	23 Sept, 2011	HKSCL (HOKLAS)
Sine/Noise Generator	B&K 1049	1314978	Test	B&K Conformance
Test Waveform Generator	B&K 5918	1482949	Test	B&K Conformance
Acoustical Calibrator	B&K 4226	1843104	09 Aug, 2011	NPL via B&K (UKAS)

Calibrated By: Surface : 22 April, 2012

Checked By: Date: 22 April, 2012



Sound Level Meter Type 2238 SerialNo. 2285692 Date 22.04.2012 Microphone Type 4188 SerialNo. 2641129

B 20 SELF GENERATED NOISE

The noise test is performed in the most sensitive range of the SLM with the microphone replaced by an equivalent impedance.

Noise level : Calculated mean value of 10 measurements in dB

measured using the DC output of the SLM, or value

directly from indicator.

Noise Level in A Weighting dB 13.5

Noise Level in C Weighting dB 17.5

Noise Level in Lin dB 22.2

A 2 FREQUENCY WEIGHTING

The frequency response of the weighting networks has been tested electricaly with reference to 1000 Hz. The test has been performed as an "Inverse curve test". The input to the SLM has been increased by the same amount as the nominal attenuation of the filter.

The test level is FSD - 36 dB in the reference range.

Frequency : Frequency of input sine in Hz
Input Level : Level of input sine in dBuV
Exp. Level : Expected SLM reading in dB
Actual Level : Actual SLM reading in dB

Tolerance : IEC 651 tolerance



Sound Level Meter Type 2238 SerialNo. 2285692 Microphone Type 4188 SerialNo. 2641129

Date 22.04.2012

A2 ACOUSTICAL RESPONSE

The acoustic response of the Sound Level Meter and the microphone is tested in the frequency range from 31.5 Hz. to 12.5 kHz. using a B&K type 4226 Multifunction Acoustic Calibrator.

The test can be performed in both linear and A weighting.

Reference frequency : 1 kHz.
Reference level : 94 dB.
Tolerance : IEC 651.

Acoustic response A.

		Le	vel	Toler	ance	
Frequency	FF-Corr.	Exp.	Actual	Pos.	Neg.	Dev
1000.0	0.2		93.8		_	
31.5	0.0	54.7	55.0	1.5	1.5	0.3
63.0	0.0	67.9	68.0	1.5	1.5	0.1
125.0	0.0	78.0	77.9	1.0	1.0	-0.1
250.0	0.0	85.4	85.3	1.0	1.0	-0.1
500.0	0.1	90.7	90.6	0.9	0.9	-0.1
2000.0	0.3	94.8	94.7	0.9	0.9	-0.1
4000.0	1.3	93.8	93.9	0.9	0.9	0.1
8000.0	4.0	88.9	89.2	1.3	2.8	0.3
12500.0	7.2	82.5	82.6	2.8	5.8	0.1

Acoustic response Lin.

		Le	vel	Toler	ance	
Frequency	FF-Corr.	Exp .	Actual	Pos.	Neg.	Dev
1000.0	0.2		93.8			
31.5	0.0	94.1	94.2	1.5	1.5	0.1
63.0	0.0	94.1	94.1	1.5	1.5	0.0
125.0	0.0	94.1	94.0	1.0	1.0	-0.1
250.0	0.0	94.0	93.9	1.0	1.0	-0.1
500.0	0.1	93.9	93.8	0.9	0.9	-0.1
2000.0	0.3	93.6	93.5	0.9	0.9	-0.1
4000.0	1.3	92.8	92.9	0.9	0.9	0.1
8000.0	4.0	90.0	90.5	1.3	2.8	0.5
12500.0	7.2	86.8	87.2	2.8	5.8	0.4

MANUFACTURER'S CERTIFICATE OF CONFORMANCE

has been tested and passed all production tests, confirming compliance with Serial No. **2800930** the manufacturer's published specification at the date of the test. We certify that Brüel & Kjær -2238--001-

The final test has been performed using calibrated equipment, traceable to National or International Standards or by ratio measurements. Brüel & Kjær is certified under ISO 9001:2008 assuring that all test data is retained on file and is available for inspection upon request.

Nærum 22-jun-2012

Torben Bjørn Vice President, Operations

> Please note that this documen' is not a calibration certificate. For information on our calibration services please contact your nearest Bluel & Kjær office.

Brüel & Kjær 🌬

HEADQUARTERS: Brüst & Kjær Sound & Vibration Measurement A/S · DK-2850 Nærum · Denmark Telephone: +45 7741 2000 · Fax: +45 4580 1405 · www.bksv.com · info@bksv.com Local representatives and service organisations worldwide



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



CERTIFICATE OF CALIBRATION

Certificate No.:

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Item tested

Description:

Acoustical Calibrator (Class 1)

Manufacturer:

B&K

Type/Model No.:

BK4231

Serial/Equipment No.:

1790985 / N.004.01

Adaptors used:

Yes

Item submitted by

Curstomer:

AECOM ASIA CO. LTD.

Address of Customer:

-

Request No.: Date of receipt:

11-Jul-2011

Date of test:

11-Jul-2011

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2341427	18-May-2012	SCL
Preamplifier	B&K 2673	2239857	14-Dec-2011	CEPREI
Measuring amplifier	B&K 2610	2346941	15-Dec-2011	CEPREI
Signal generator	DS 360	61227	30-May-2012	CEPREI
Digital multi-meter	34401A	US36087050	09-Dec-2011	CEPREI
Audio analyzer	8903B	GB41300350	27-May-2012	CEPREI
Universal counter	53132A	MY40003662	30-May-2012	CEPREI

Ambient conditions

Temperature:

22 ± 1 °C

Relative humidity:

 $55 \pm 5 \%$

Air pressure:

990 ± 5 hPa

Test specifications

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

Test results

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

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

Huang Jian Min/Fe

Approved Signatory

Date:

13-Jul-2011

Company Chop:

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

Soils & Materials Engineering Co., Ltd.

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



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CERTIFICATE OF CALIBRATION

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1, Measured Sound Pressure Level

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

			(Output level in dB re 20 μPa)
Frequency	Output Sound Pressure	Measured Output	Estimated
Shown	Level Setting	Sound Pressure Level	Uncertainty
Hz	dB	dB	dB
1000	94.00	94.08	0.10

2, Sound Pressure Level Stability - Short Term Fluctuations

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

At 1000 Hz

STF = 0.002 dB

Estimated uncertainty

0.005 dB

3, Actual Output Frequency

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

At 1000 Hz

Actual Frequency = 999.8 Hz

Estimated uncertainty

0.1 Hz

Coverage factor k = 2.2

4, Total Noise and Distortion

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

At 1000 Hz

TND = 0.4%

Estimated uncertainty

0.7%

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

Calibrated by:

- End

Date: 11-Jul-2011

Checked by

Date:

Chan Chun Lam 13-Jul-2011

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

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



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CERTIFICATE OF CALIBRATION

Certificate No.:

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Item tested

Description:

Acoustical Calibrator (Class 1)

Manufacturer:

B&K

Type/Model No .:

4231

Serial/Equipment No.:

1790985 / N.004.01

Adaptors used:

Item submitted by

Curstomer:

AECOM Asia Company Limited

Address of Customer:

Request No.:

Date of receipt:

23-Aug-2012

Date of test:

23-Aug-2012

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2412857	29-May-2013	SCL
Preamplifier	B&K 2673	2239857	05-Jan-2013	CEPREI
Measuring amplifier	B&K 2610	2346941	29-Dec-2012	CEPREI
Signal generator	DS 360	61227	29-May-2013	CEPREI
Digital multi-meter	34401A	US36087050	16-Dec-2012	CEPREI
Audio analyzer	8903B	GB41300350	29-May-2013	CEPREI
Universal counter	53132A	MY40003662	29-May-2013	CEPREI

Ambient conditions

Temperature:

Relative humidity: Air pressure:

22 ± 1 °C 60 ± 10 % 1000 ± 5 hPa

Test specifications

- The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B 1, and the lab calibration procedure SMTP004-CA-156.
- 2, The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
- The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference 3, pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

Test results

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

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

/Fena Jun Qi

Huang Jian N

Approved Signatory:

Date:

23-Aug-2012

Company Chop:

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

Soils & Materials Engineering Co., Ltd

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



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CERTIFICATE OF CALIBRATION

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1, Measured Sound Pressure Level

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

(Output level in dB re 20 µPa) Frequency Output Sound Pressure Measured Output Estimated Level Setting Sound Pressure Level Uncertainty Shown Hz dB dB dB 1000 94.00 94.08 0.10

2. Sound Pressure Level Stability - Short Term Fluctuations

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

At 1000 Hz

STF = 0.001 dB

Estimated uncertainty

0.005 dB

3, Actual Output Frequency

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

At 1000 Hz

Actual Frequency = 999.8 Hz

Estimated uncertainty

0.1 Hz

Coverage factor k = 2.2

4, Total Noise and Distortion

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

At 1000 Hz

TND = 0.5 %

Estimated uncertainty

0.7 %

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

Calibrated by:

End

Fung Chi Yip

2B-Aug-2012

Checked by:

Date:

Date:

23-Aug-2012

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

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



G/F., 9/F., 12/F., 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. 香港黃竹坑道37號利達中心地下,9樓,12樓,13樓及20樓 E-mail: smec@cigismec.com Website: www.cigismec.com Tel : (852) 2873 6860 Fax : (852) 2555 7533



CERTIFICATE OF CALIBRATION

Certificate No.:

11CA0711 01-03

Page:

of

2

Item tested

Description:

Acoustical Calibrator (Class 1)

Manufacturer: Type/Model No.: B & K BK4231

Type/Model No.: Serial/Equipment No.:

1850426 / N.004.02

Adaptors used:

Yes

item submitted by

Curstomer:

AECOM ASIA CO. LTD.

Address of Customer:

-

Request No.: Date of receipt:

11-Jul-2011

Date of test:

11-Jul-2011

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2341427	18-May-2012	SCL
Preamplifier	B&K 2673	2239857	14-Dec-2011	CEPREI
Measuring amplifier	B&K 2610	2346941	15-Dec-2011	CEPREI
Signal generator	DS 360	61227	30-May-2012	CEPREI
Digital multi-meter	34401A	US36087050	09-Dec-2011	CEPREI
Audio analyzer	8903B	GB41300350	27-May-2012	CEPRE
Universal counter	53132A	MY40003662	30-May-2012	CEPREI

Ambient conditions

Temperature: Relative humidity:

Air pressure:

22 ± 1 °C 55 ± 5 % 990 ± 5 hPa

Test specifications

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

Test results

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

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

Huang Jian Min/Feng Jun Qi

Approved Signatory.

Date:

13-Jul-2011

Company Chop:

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

@ Soils & Materials Engineering Co., Ltd.

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



G/F, 9/F, 12/F, 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. 香港黃竹坑道37號利達中心地下,9樓,12樓,13樓及20樓 E-mail: smec@cigismec.com Website: www.cigismec.com Tel: (852) 2873 6860 Fax: (852) 2555 7533



CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

11CA0711 01-03

Page:

2

2

1, Measured Sound Pressure Level

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

(Output level in dB re 20 μPa) Frequency Output Sound Pressure Measured Output Estimated Shown Level Setting Sound Pressure Level Uncertainty Ηz dΒ dB dB 94.00 1000 94.07 0.10

2. Sound Pressure Level Stability - Short Term Fluctuations

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

At 1000 Hz

STF = 0.002 dB

Estimated uncertainty

0.005 dB

3, Actual Output Frequency

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

At 1000 Hz

Actual Frequency = 999.8 Hz

Estimated uncertainty

0.1 Hz

Coverage factor k = 2.2

4, Total Noise and Distortion

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

At 1000 Hz

TND = 0.5%

Estimated uncertainty

0.7%

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

Calibrated by:

End

allbrated by

Date:

Fung Chi Yip

11-Jul-2011

Date:

Checked by

Chen Chun Lam 13-Jul-2011

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

Soils & Materials Engineering Co., Ltd.

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

APPENDIX B BASELINE AIR QUALITY MONITORING RESULTS

Appendix B Baseline Air Quality Monitoring Results 1-hour TSP Monitoring Results

Station ID: DMS-1 (1) (C.U.H.K.A.A. Thomas Cheung School)

	Start	1st Hour	2nd Hour	3rd Hour
Date	Time	Conc.	Conc.	Conc.
	(hh:mm)	(µg/m³)	(µg/m³)	(µg/m³)
27-Aug-12	14:50	47.0	52.0	53.0
28-Aug-12	14:00	53.1	50.2	51.2
29-Aug-12	14:10	45.8	48.9	53.1
30-Aug-12	14:10	58.3	54.2	55.6
31-Aug-12	14:20	48.8	52.1	50.6
1-Sep-12	14:20	49.6	51.1	50.6
2-Sep-12	14:05	51.1	53.9	48.9
3-Sep-12	14:15	49.0	51.9	53.6
4-Sep-12	14:10	51.9	50.7	51.2
5-Sep-12	14:00	53.8	58.2	56.3
6-Sep-12	14:10	52.6	53.2	49.8
7-Sep-12	14:10	49.5	51.5	50.4
8-Sep-12	14:10	51.2	49.2	49.9
9-Sep-12	14:20	57.1	60.3	59.0
			Average	52.1
			Min	45.8
			Max	60.3

Station ID: DMS-2 (1) (Price Memorial Catholic Primary School)

Note: Price Memorial Catholic Primary School was inaccessible on Sundays (16 and 23 Sep).

Max

50.0

	Start	1st Hour	2nd Hour	3rd Hour
Date	Time	Conc.	Conc.	Conc.
	(hh:mm)	(µg/m³)	(µg/m³)	(µg/m³)
13-Sep-12	11:20	38.8	37.6	40.2
14-Sep-12	11:40	40.2	41.4	43.2
15-Sep-12	11:50	42.6	45.4	42.0
17-Sep-12	11:50	45.4	43.6	42.8
18-Sep-12	11:50	45.2	46.1	46.9
19-Sep-12	11:50	45.4	47.3	48.2
20-Sep-12	11:50	38.0	39.5	38.6
21-Sep-12	10:30	50.0	49.1	48.1
22-Sep-12	10:40	42.6	41.6	41.9
24-Sep-12	10:50	39.4	37.5	37.7
25-Sep-12	11:55	33.2	34.7	35.2
26-Sep-12	11:20	36.8	33.8	36.2
27-Sep-12	11:20	35.0	36.6	33.2
28-Sep-12	11:24	31.1	30.2	31.6
			Average	40.3
			Min	30.2

Appendix B Baseline Air Quality Monitoring Results 1-hour TSP Monitoring Results

Station ID: DMS-3 ⁽¹⁾ / DMS-4 ⁽²⁾ (Hong Kong S.K.H. Nursing Home)

	Start	1st Hour	2nd Hour	3rd Hour
Date	Time	Conc.	Conc.	Conc.
	(hh:mm)	(µg/m³)	(µg/m³)	(µg/m³)
11-Sep-12	10:30	40.6	32.7	38.4
12-Sep-12	10:30	41.2	38.6	37.4
13-Sep-12	10:50	39.6	41.0	37.8
14-Sep-12	10:40	41.6	46.2	42.4
15-Sep-12	10:50	38.4	42.6	40.0
16-Sep-12	10:55	42.8	45.4	42.0
17-Sep-12	10:40	41.6	43.8	42.8
18-Sep-12	10:40	47.4	48.6	45.3
19-Sep-12	10:40	42.8	45.3	44.5
20-Sep-12	10:40	41.0	39.9	40.6
21-Sep-12	11:00	63.4	65.0	64.4
22-Sep-12	11:05	42.2	44.1	43.1
23-Sep-12	11:13	46.2	41.8	42.9
24-Sep-12	11:25	41.6	44.5	40.9
	-	_	Average	43.6
			Min	32.7
			Max	65.0

Station ID: DMS-4 ⁽¹⁾ / DMS-3 ⁽²⁾ (Rhythm Garden, Block 1)

	Start	1st Hour	2nd Hour	3rd Hour
Date	Time	Conc.	Conc.	Conc.
	(hh:mm)	(µg/m³)	(µg/m³)	(µg/m³)
11-Sep-12	11:35	38.9	41.2	40.8
12-Sep-12	11:35	41.1	37.3	39.4
13-Sep-12	11:40	39.2	34.2	35.8
14-Sep-12	11:15	38.4	41.6	44.2
15-Sep-12	11:20	38.3	39.6	38.0
16-Sep-12	11:30	43.4	46.2	41.3
17-Sep-12	11:20	41.4	38.3	41.9
18-Sep-12	11:20	46.2	47.7	49.1
19-Sep-12	11:20	47.4	46.1	46.6
20-Sep-12	11:20	52.3	51.1	51.6
21-Sep-12	11:47	67.3	67.8	68.4
22-Sep-12	11:50	44.7	45.6	45.9
23-Sep-12	11:41	39.2	40.9	41.1
24-Sep-12	11:50	38.5	41.6	42.8
			Average	44.3
			Min	34.2
			Max	68.4

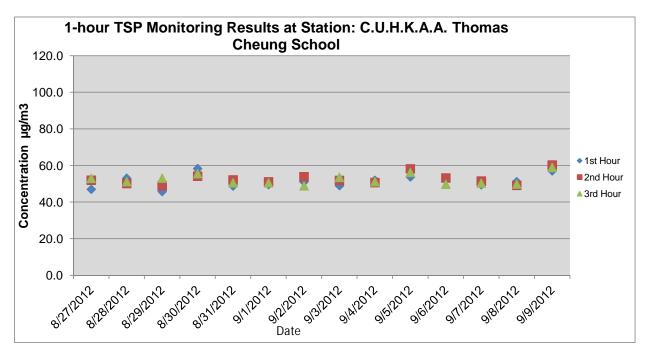
Appendix B Baseline Air Quality Monitoring Results 1-hour TSP Monitoring Results

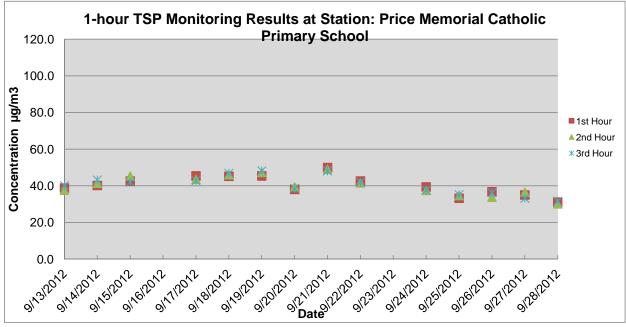
Station ID: DMS-11 ⁽¹⁾ / DMS-2 ⁽²⁾ / AM1⁽³⁾ (234-238 Chatham Road North)

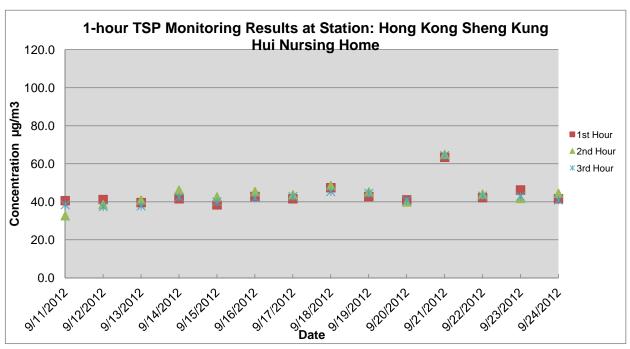
	Start	1st Hour	2nd Hour	3rd Hour
Date	Time	Conc.	Conc.	Conc.
	(hh:mm)	(µg/m³)	(µg/m³)	(µg/m³)
26-Sep-12	10:55	26.7	27.5	28.4
27-Sep-12	11:00	27.7	29.2	27.4
28-Sep-12	11:25	30.3	31.2	30.7
29-Sep-12	11:25	29.9	30.2	31.3
30-Sep-12	11:25	29.2	30.0	31.2
1-Oct-12	12:20	30.5	31.2	29.7
2-Oct-12	11:30	30.0	29.4	29.7
3-Oct-12	11:35	28.3	30.3	27.3
4-Oct-12	11:35	31.2	33.3	34.8
5-Oct-12	11:35	32.2	32.6	30.2
6-Oct-12	11:50	31.0	29.9	31.6
7-Oct-12	12:00	32.5	31.4	32.2
8-Oct-12	12:00	36.1	35.1	31.9
9-Oct-12	12:05	35.3	33.4	32.5
		-	Average	30.8
			Min	26.7
			Max	36.1

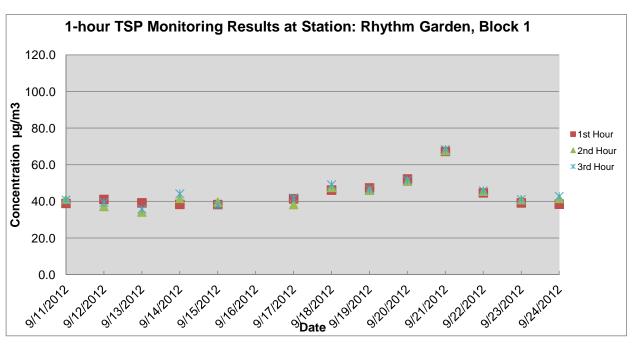
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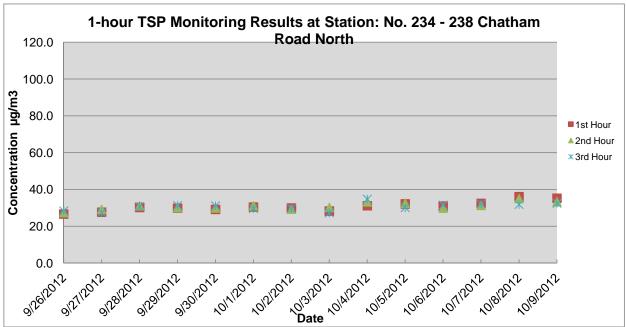
- (1) Station / ASR ID as identified in approved EM&A Manual / EIA Report for SCL(TAW-HUH).
- (2) Station / ASR ID as identified in approved EM&A Manual / EIA Report for SCL(HHS).
- (3) Station / ASR ID as identified in approved EM&A Manual / EIA Report for SCL (MKK-HUH).











Appendix B Baseline Air Quality Monitoring Results 24-hour TSP Monitoring Results

Station ID: DMS-1 (1) (C.U.H.K.A.A. Thomas Cheung School)

Site Observation: No construction works were conducted in the vicinity during the monitoring period.

Date	Weather	Air	Atmospheric	Flow Rate	e (m³/min.)	Av. flow	Total vol.	Filter We	eight (g)	Particulate	Elapse	e Time	Sampling	Conc.
	Condition	Temp. (°C)	Pressure (hPa)	Initial	Final	(m ³ /min)	(m ³)	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	$(\mu g/m^3)$
27-Aug-12	Sunny	30.2	1001.2	1.34	1.34	1.34	1926.7	2.7193	2.9069	0.1876	861.81	885.81	24.00	97.2
28-Aug-12	Fine	30.2	1004.2	1.34	1.34	1.34	1926.7	2.7357	2.8422	0.1065	885.81	909.81	24.00	55.2
29-Aug-12	Sunny	29.7	1007.0	1.34	1.34	1.34	1926.7	2.7146	2.7775	0.0629	909.81	933.81	24.00	32.6
30-Aug-12	Sunny	29.1	1007.3	1.34	1.34	1.34	1926.7	2.7445	2.7945	0.0500	933.81	957.81	24.00	25.9
31-Aug-12	Sunny	28.5	1007.7	1.34	1.34	1.34	1926.7	2.7031	2.7363	0.0332	957.81	981.81	24.00	17.2
1-Sep-12	Fine	27.5	1007.9	1.34	1.34	1.34	1926.7	2.7517	2.7792	0.0275	981.81	1005.81	24.00	14.3
2-Sep-12	Sunny	28.4	1008.3	1.34	1.34	1.34	1926.7	2.7415	2.7664	0.0249	1005.81	1029.81	24.00	12.9
3-Sep-12	Sunny	29.4	1008.4	1.34	1.34	1.34	1926.7	2.7279	2.7406	0.0127	1029.81	1053.81	24.00	6.6
4-Sep-12	Rainy	27.9	1010.3	1.34	1.34	1.34	1926.7	2.7225	2.7484	0.0259	1053.81	1077.81	24.00	13.4
5-Sep-12	Sunny	28.2	1012.6	1.34	1.34	1.34	1926.7	2.7678	2.8236	0.0558	1077.81	1101.81	24.00	28.9
6-Sep-12	Sunny	29.0	1013.1	1.34	1.34	1.34	1926.7	2.7017	2.7587	0.0570	1101.81	1125.81	24.00	29.5
7-Sep-12	Sunny	28.6	1013.3	1.34	1.34	1.34	1926.7	2.8063	2.8440	0.0377	1125.81	1149.81	24.00	19.5
8-Sep-12	Sunny	28.8	1012.1	1.34	1.34	1.34	1926.7	2.8021	2.8609	0.0588	1149.81	1173.81	24.00	30.5
9-Sep-12	Sunny	29.5	1010.9	1.34	1.34	1.34	1926.7	2.8125	2.8510	0.0385	1173.81	1197.81	24.00	20.0
	•	•	•		•		•	•	-	•	•		Average	28.8
													N Alian	0.0

Station ID: DMS-2 (1) (Price Memorial Catholic Primary School)

Site Observation: No construction works were conducted in the vicinity during the monitoring period.

Note: Price Memorial Catholic Primary School was inaccessible on Sundays (16 and 23 Sep).

Date	Weather	Air	Atmospheric	Flow Rate	(m³/min.)	Av. flow	Total vol.	Filter We	eight (g)	Particulate	Elapse	e Time	Sampling	Conc.
	Condition	Temp. (°C)	Pressure(hPa)	Initial	Final	(m ³ /min)	(m ³)	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µg/m³)
13-Sep-12	Sunny	29.0	1008.5	1.41	1.41	1.41	2036.2	2.7100	2.7648	0.0548	596.99	620.99	24.00	27.0
14-Sep-12	Sunny	26.9	1009.3	1.27	1.27	1.27	1823.0	2.7194	2.8422	0.1228	620.99	644.99	24.00	67.1
15-Sep-12	Sunny	26.5	1010.3	1.27	1.27	1.27	1823.0	2.7628	2.8848	0.1220	644.99	668.99	24.00	66.7
17-Sep-12	Fine	27.0	1011.3	1.50	1.50	1.50	2165.8	2.7722	2.9588	0.1866	668.99	692.99	24.00	86.4
18-Sep-12	Fine	27.4	1010.1	1.03	1.03	1.03	1480.3	2.7152	2.8049	0.0897	692.99	716.99	24.00	60.5
19-Sep-12	Sunny	26.9	1011.0	1.50	1.50	1.50	2165.0	2.7836	2.9404	0.1568	716.99	740.99	24.00	72.6
20-Sep-12	Cloudy	27.2	1011.6	1.27	1.27	1.27	1823.0	2.7659	2.8880	0.1221	740.99	764.99	24.00	66.8
21-Sep-12	Sunny	27.7	1010.7	1.27	1.27	1.27	1823.0	2.7613	2.8479	0.0866	764.99	788.99	24.00	47.4
22-Sep-12	Cloudy	28.0	1009.1	1.21	1.21	1.21	1736.6	2.7916	2.8347	0.0431	788.99	812.99	24.00	24.7
24-Sep-12	Sunny	27.7	1007.4	1.21	1.21	1.21	1736.6	2.7871	2.8506	0.0635	813.02	837.02	24.00	36.4
25-Sep-12	Sunny	26.8	1009.9	1.27	1.27	1.27	1792.7	2.8204	2.9245	0.1041	837.02	860.62	23.60	57.9
26-Sep-12	Sunny	27.0	1010.7	1.27	1.27	1.27	1775.9	2.8041	2.9080	0.1039	860.62	884.00	23.38	58.3
27-Sep-12	Sunny	28.2	1009.6	1.27	1.27	1.27	1823.0	2.7750	2.8602	0.0852	884.62	908.62	24.00	46.6
28-Sep-12	Sunny	28.2	1009.3	1.27	1.27	1.27	1823.0	2.7224	2.8836	0.1612	908.00	932.00	24.00	88.1

Average 57.6

Min 24.7

Max 88.1

Max

97.2

Appendix B Baseline Air Quality Monitoring Results 24-hour TSP Monitoring Results

Station ID: DMS-3 (1) / DMS-4 (2) (Hong Kong S.K.H. Nursing Home)

No construction works were conducted in the vicinity during the monitoring period. Site Observation:

Date	Weather	Air	Atmospheric	Flow Rate	(m³/min.)	Av. flow	Total vol.	Filter We	eight (g)	Particulate	Elapse	e Time	Sampling	Conc.
	Condition	Temp. (°C)	Pressure (hPa)	Initial	Final	(m³/min)	(m ³)	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µg/m³)
11-Sep-12	Sunny	29.9	1009.9	1.30	1.30	1.30	1869.1	2.7870	2.8216	0.0346	1197.81	1221.81	24.00	18.5
12-Sep-12	Sunny	29.8	1009.1	1.18	1.18	1.18	1697.8	2.7284	2.7486	0.0202	1221.81	1245.81	24.00	11.9
13-Sep-12	Sunny	29.0	1008.5	1.42	1.42	1.42	2040.5	2.7174	2.7996	0.0822	1245.81	1269.81	24.00	40.2
14-Sep-12	Sunny	26.9	1009.3	1.48	1.48	1.48	2115.4	2.7764	2.8824	0.1060	1269.81	1293.81	24.00	49.7
15-Sep-12	Sunny	26.5	1010.3	1.42	1.42	1.42	2040.5	2.7825	2.8823	0.0998	1293.81	1317.81	24.00	48.8
16-Sep-12	Sunny	27.0	1010.8	1.42	1.42	1.42	2040.2	2.7696	2.9053	0.1357	1317.81	1341.81	24.00	66.4
17-Sep-12	Fine	27.0	1011.3	1.48	1.48	1.48	2125.4	2.7168	2.9312	0.2144	1341.81	1365.81	24.00	100.6
18-Sep-12	Fine	27.4	1010.1	1.36	1.36	1.36	1954.1	2.8062	2.9205	0.1143	1365.81	1389.81	24.00	58.4
19-Sep-12	Rainy	26.9	1011.0	1.42	1.42	1.42	2079.4	2.7679	2.8997	0.1318	1389.81	1413.81	24.00	64.5
20-Sep-12	Cloudy	27.2	1011.6	1.36	1.33	1.35	1932.5	2.7756	2.8857	0.1101	1413.81	1437.81	24.00	56.8
21-Sep-12	Sunny	27.7	1010.7	1.33	1.33	1.33	1910.9	2.7237	2.7954	0.0717	1437.81	1461.81	24.00	37.4
22-Sep-12	Cloudy	28.0	1009.1	1.45	1.30	1.37	1976.4	2.7759	2.8201	0.0442	1461.81	1485.81	24.00	22.4
23-Sep-12	Cloudy	28.5	1007.3	1.31	1.31	1.31	1882.1	2.7704	2.8058	0.0354	1485.81	1509.81	24.00	18.8
24-Sep-12	Sunny	27.7	1007.4	1.31	1.31	1.31	1882.1	2.7785	2.8395	0.0610	1509.81	1533.81	24.00	32.3
			_										Average	44.8
													Min	11.9

Station ID: DMS-4 ⁽¹⁾ / DMS-3 ⁽²⁾ (Rhythm Garden, Block 1)
Site Observation:
Remarks:

No construction works were conducted in the vicinity during the monitoring period.
As there was no electricity supply on 16 Sept, the monitoring period was extended.

Date	Weather	Air	Atmospheric	Flow Rate	(m³/min.)	Av. flow	Total vol.	Filter We	eight (g)	Particulate	Elapse	e Time	Sampling	Conc.
	Condition	Temp. (°C)	Pressure(hPa)	Initial	Final	(m ³ /min)	(m ³)	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	$(\mu g/m^3)$
11-Sep-12	Sunny	29.9	1009.9	1.20	1.20	1.20	1728.0	2.8234	2.8666	0.0432	17100.11	17124.11	24.00	25.0
12-Sep-12	Sunny	29.8	1009.1	1.20	1.20	1.20	1728.0	2.7296	2.7594	0.0298	17124.11	17148.11	24.00	17.2
13-Sep-12	Sunny	29.0	1008.5	1.41	1.41	1.41	2036.2	2.6905	2.7737	0.0832	17148.11	17172.11	24.00	41.0
14-Sep-12	Sunny	26.9	1009.3	1.09	1.09	1.09	1575.4	2.7106	2.7990	0.0884	17172.11	17196.11	24.00	56.3
15-Sep-12	Sunny	26.5	1010.3	1.20	1.20	1.20	1728.0	2.7739	2.8630	0.0891	17196.11	17220.11	24.00	51.6
17-Sep-12	Sunny	27.0	1011.3	1.20	1.20	1.20	1728.0	2.7189	2.8640	0.1451	17220.11	17244.11	24.00	84.0
18-Sep-12	Fine	27.4	1010.1	1.84	1.84	1.84	2651.0	2.7903	2.9437	0.1534	17244.11	17268.11	24.00	57.9
19-Sep-12	Fine	26.9	1011.0	1.20	1.20	1.20	1728.0	2.7738	2.8932	0.1194	17268.11	17292.11	24.00	69.1
20-Sep-12	Cloudy	27.2	1011.6	1.63	1.63	1.63	2342.9	2.8698	3.0250	0.1552	17292.44	17316.44	24.00	66.1
21-Sep-12	Sunny	27.7	1010.7	1.57	1.57	1.57	2266.6	2.7018	2.7819	0.0801	17316.11	17340.11	24.00	35.4
22-Sep-12	Cloudy	28.0	1009.1	1.63	1.63	1.63	2342.9	2.7037	2.7373	0.0336	17340.11	17364.11	24.00	14.3
23-Sep-12	Cloudy	28.5	1007.3	1.24	1.24	1.24	1782.7	2.7893	2.8288	0.0395	17364.11	17388.11	24.00	22.1
24-Sep-12	Sunny	27.7	1007.4	1.24	1.24	1.24	1782.7	2.8771	2.9731	0.0960	17386.07	17410.07	24.00	53.8
25-Sep-12	Sunny	26.8	1009.9	1.41	1.41	1.41	2036.2	2.8065	2.9281	0.1216	17410.07	17434.07	24.00	59.9

Average 46.7 Min 14.3 Max 84.0

100.6

Max

Appendix B Baseline Air Quality Monitoring Results 24-hour TSP Monitoring Results

Station ID: DMS-11 ⁽¹⁾ / DMS-2 ⁽²⁾ / AM1⁽³⁾ (234-238 Chatham Road North)

Site Observation: Construction work of KTE was conducted in the vicinity during the monitoring period.

Date	Weather	Air	Atmospheric	Flow Rate	(m³/min.)	Av. flow	Total vol.	Filter We	eight (g)	Particulate	Elapse	e Time	Sampling	Conc.
	Condition	Temp. (°C)	Pressure (hPa)	Initial	Final	(m ³ /min)	(m ³)	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	$(\mu g/m^3)$
26-Sep-12	Sunny	27.0	1010.7	1.25	1.25	1.25	1804.3	2.7307	2.8508	0.1201	11380.87	11404.87	24.00	66.7
27-Sep-12	Sunny	28.2	1009.6	1.25	1.25	1.25	1804.3	2.7075	2.8452	0.1377	11404.87	11428.87	24.00	76.5
28-Sep-12	Sunny	28.2	1009.3	1.25	1.25	1.25	1804.3	2.6990	2.8966	0.1976	11428.87	11452.87	24.00	109.8
29-Sep-12	Sunny	27.5	1011.3	1.25	1.25	1.25	1804.3	2.6977	2.8385	0.1408	11452.87	11476.87	24.00	78.2
30-Sep-12	Sunny	26.0	1013.4	1.25	1.25	1.25	1804.3	2.7097	2.8861	0.1764	11476.87	11500.87	24.00	98.0
1-Oct-12	Sunny	26.0	1013.8	1.25	1.25	1.25	1804.3	2.7189	2.8909	0.1720	11500.87	11524.87	24.00	95.6
2-Oct-12	Sunny	26.2	1013.3	1.25	1.25	1.25	1804.3	2.7366	2.8948	0.1582	11524.87	11548.87	24.00	87.9
3-Oct-12	Sunny	26.1	1010.8	1.25	1.25	1.25	1804.3	2.6999	2.8782	0.1783	11548.84	11572.84	24.00	99.1
4-Oct-12	Sunny	26.0	1010.4	1.25	1.25	1.25	1804.3	2.6746	2.8141	0.1395	11572.87	11596.87	24.00	77.5
5-Oct-12	Sunny	26.6	1013.4	1.25	1.25	1.25	1804.3	2.7138	2.7958	0.0820	11596.97	11620.87	23.90	45.7
6-Oct-12	Sunny	26.9	1015.3	1.25	1.25	1.25	1804.3	2.7213	2.8093	0.0880	11620.87	11644.87	24.00	48.9
7-Oct-12	Sunny	26.6	1015.6	1.25	1.25	1.25	1804.3	2.7264	2.8704	0.1440	11644.87	11668.87	24.00	80.0
8-Oct-12	Sunny	26.5	1014.1	1.25	1.25	1.25	1804.3	2.7188	2.8753	0.1565	11668.87	11692.87	24.00	86.9
9-Oct-12	Sunny	26.3	1013.0	1.25	1.25	1.25	1804.3	2.7166	2.9142	0.1976	11692.86	11716.86	24.00	109.8
													Average	82.9

Min Max

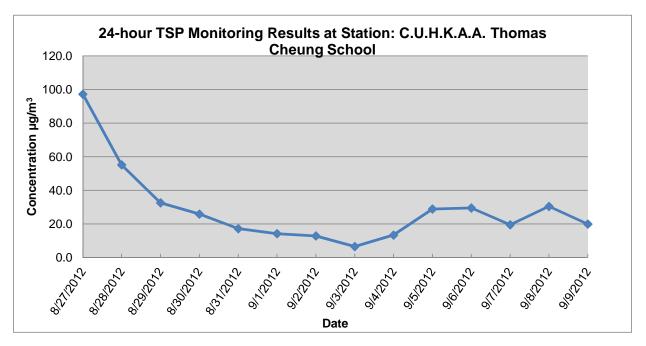
109.8

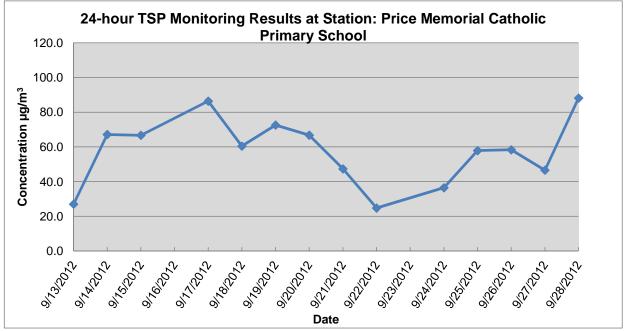
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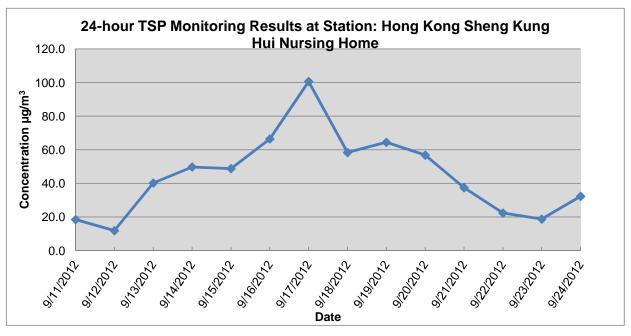
(1) Station / ASR ID as identified in approved EM&A Manual / EIA Report for SCL(TAW-HUH).

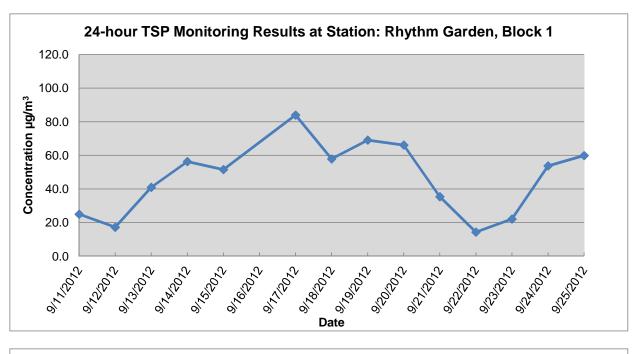
(2) Station / ASR ID as identified in approved EM&A Manual / EIA Report for SCL(HHS).

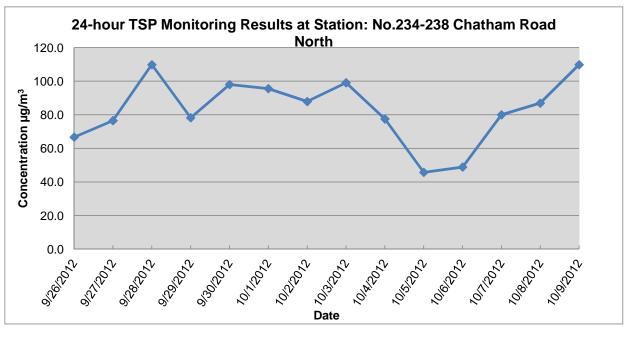
(3) Station / ASR ID as identified in approved EM&A Manual / EIA Report for SCL (MKK-HUH).











APPENDIX C BASELINE NOISE MONITORING RESULTS

Baseline Noise Monitoring Result

Location: NMS-CA-1 for SCL(TAW-HUH) C.U.H.K.A.A. Thomas Cheung

School

Baseline monitoring

period: 27/8/2012 - 10/9/2012

Site observation: No construction works were conducted in the vicinity during

the monitoring period.

Weather The weather was sunny and overcast during monitoring period.

condition:

Parameter: Leq

Time Slot Averaged Baselines

1) Weekdays Daytime Noise Level, dB(A)

Time slot	Leq, 30 min	L10	L90
07:00-07:30	56.2	58.0	52.7
07:30-08:00	58.5	60.6	54.1
08:00-08:30	56.0	58.1	52.6
08:30-09:00	56.0	57.7	52.8
09:00-09:30	56.2	58.1	53.1
09:30-10:00	57.5	59.8	53.9
10:00-10:30	59.3	62.0	54.9
10:30-11:00	57.1	59.2	53.3
11:00-11:30	57.2	59.1	53.2
11:30-12:00	55.9	57.8	52.5
12:00-12:30	56.5	58.6	52.5
12:30-13:00	56.6	58.6	52.3
13:00-13:30	56.2	58.0	53.0
13:30-14:00	61.9	60.2	53.8
14:00-14:30	55.4	57.3	52.4
14:30-15:00	55.5	57.4	52.3
15:00-15:30	56.6	58.7	52.7
15:30-16:00	56.2	58.1	52.6
16:00-16:30	55.8	57.5	52.0
16:30-17:00	55.4	57.3	52.2
17:00-17:30	55.8	58.1	51.9
17:30-18:00	55.7	58.0	51.5
18:00-18:30	54.5	56.9	51.5
18:30-19:00	54.9	56.6	51.7
Average	56.8	58.6	52.8
Max	61.9	62.0	54.9
Min	54.5	56.6	51.5

Noise Control Period Averaged Baselines

2) Weekdays Evening Noise Level, dB(A)

Time Slot	Leq, 5min	L10	L90
19:00-19:15	54.5	56.2	51.7
	54.2	55.7	51.8
	54.4	56.0	52.0
19:15-19:30	54.1	55.9	51.9
	54.2	55.7	52.1
	54.5	56.1	52.1
19:30-19:45	54.8	56.5	52.2
	54.7	56.3	52.2
	54.8	56.4	52.3
19:45-20:00	55.2	56.9	52.3
	55.6	57.2	52.3
	55.1	56.7	52.3
20:00-20:15	55.1	56.8	52.1
	54.7	56.1	52.1
	55.0	56.2	52.1
20:15-20:30	55.1	56.4	52.2
	54.2	55.7	52.2
	54.5	56.3	52.2
20:30-20:45	54.6	56.5	52.3
	54.6	56.3	52.2
	55.3	57.1	52.9
20:45-21:00	55.5	57.6	52.6
	54.6	56.3	52.4
	54.9	56.4	52.6
21:00-21:15	54.5	56.1	52.5
	54.9	56.7	52.5
	54.5	56.2	52.5
21:15-21:30	54.4	55.9	52.4
	54.3	55.9	52.4
	54.5	56.0	52.4
21:30-21:45	56.0	57.0	52.7
	55.0	56.6	52.6
	54.3	55.6	52.5
21:45-22:00	54.6	56.0	52.6
	58.0	57.5	52.6
	55.1	56.9	52.6
22:00-22:15	54.6	56.0	52.7
	54.8	56.2	52.8
	54.9	56.4	52.7
22:15-22:30	55.0	56.8	52.7
	55.4	57.1	52.7
	55.0	56.6	52.7
22:30-22:45	54.5	55.9	52.7
	54.2	55.7	52.6
	54.7	56.2	52.8
22:45-23:00	55.0	56.8	52.8
	54.5	56.0	52.5
	54.5	56.1	52.4
Average	54.9	56.4	52.4
Max	58.0	57.6	52.9
Min	54.1	55.6	51.7

3) General Holidays (including Sundays) (0700-2300) Noise Level, dB(A)

Time Slot	Leq, 5min	L10	L90
0700-07:15	53.5	55.3	51.8
	53.2	54.0	51.5
	53.3	54.3	51.8
07:15-07:30	53.4	54.5	51.8
	53.4	54.8	51.8
	53.0	54.0	51.5
07:30-07:45	54.1	55.6	52.0
	53.3	54.3	51.8
	53.1	54.3	51.5
07:45-08:00	52.8	54.0	51.5
	53.1	54.3	51.5
	53.2	54.8	51.5
08:00-08:15	54.1	55.8	52.0
	53.6	55.1	51.8
	55.0	56.8	52.5
08:15-08:30	55.0	56.8	52.3
	54.2	55.8	52.0
	55.0	56.8	52.8
08:30-08:45	54.3	56.0	51.8
08:45-09:00	53.6	55.5	51.5
	54.0	55.1	51.8
	55.6	56.9	52.0
	54.7	56.5	51.8
	53.7	56.0	51.3
09:00-09:15	54.1	55.3	51.8
	53.3	54.5	51.5
	55.3	57.6	52.0
09:15-09:30	54.8	56.8	51.8
	55.1	57.5	52.0
	54.3	56.9	51.3
09:30-09:45	54.7	56.4	52.0
	52.7	54.0	51.0
	53.8	55.8	51.0
09:45-10:00	52.9	54.8	51.0
	53.2	55.5	51.3
	53.9	56.0	51.3
10:00-10:15	52.8	54.3	50.8
	53.8	56.1	51.0
	53.2	55.0	51.0
10:15-10:30	53.0	54.5	51.3
	52.4	53.8	50.8
	53.4	55.3	51.0
10:30-10:45	52.9	54.3	51.0
	53.2	54.8	51.3
	53.4	55.6	50.8
10:45-11:00	53.9	55.8	51.3
	54.0	56.0	51.0
	53.9	56.0	50.8
11:00-11:15	54.1	56.3	51.0
	54.3	56.8	51.5
	53.8	55.3	50.8
11:15-11:30	54.0	56.3	51.0
	52.6	54.0	50.8
	53.9	55.8	50.5
	5.5	JJ.U	50.5

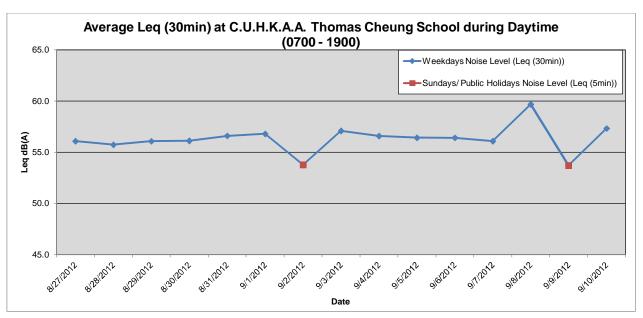
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11.00 11.10	54.2	56.1	50.8
	53.6	55.3	50.8
11:45-12:00	54.7	56.5	51.0
	57.7	60.4	52.6
	56.7	58.5	52.8
12:00-12:15	54.4	56.8	50.8
	52.6	54.3	50.3
	54.9	56.4	50.8
12:15-12:30	53.4	55.4	50.5
	53.5	55.1	50.8
	52.8	54.5	50.5
12:30-12:45	53.0	55.0	50.5
	55.7	56.6	50.8
	54.0	55.8	50.8
12:45-13:00	52.9	55.0	50.3
	52.4	53.8	49.8
	53.4	55.3	50.3
13:00-13:15	54.4	56.1	50.8
	52.8	54.8	50.3
	53.8	55.5	50.3
13:15-13:30	53.6	55.9	50.8
	53.4	55.5	50.5
	52.9	54.5	50.5
13:30-13:45	54.9	56.4	50.8
	53.6	55.3	50.5
	53.0	54.8	50.0
13:45-14:00	54.4	56.8	50.0
	53.5	55.5	50.5
	53.5	55.8	50.5
14:00-14:15	55.0	55.6	50.3
	53.1	55.0	50.3
	52.3	53.8	50.0
14:15-14:30	53.4	55.3	50.0
	54.9	56.8	50.5
	52.9	55.3	50.3
14:30-14:45	52.2	53.6	50.0
	53.4	55.5	50.3
	52.6	54.6	50.0
14:45-15:00	55.5	56.3	50.3
	52.4	54.6	49.8
	52.2	53.5	50.0
15:00-15:15	53.5	56.0	50.5
	53.3	55.8	50.5
	54.6	56.5	50.0
15:15-15:30	53.6	56.1	50.5
	54.4	56.1	50.8
	51.6	52.8	50.3
15:30-15:45	52.6	54.6	50.0
	53.1	55.1	50.5
45.45.40.00	53.6	55.5	50.3
15:45-16:00	52.8	54.8	50.3
	51.9	53.3	50.0
10.00.10.15	52.9	55.1	50.3
16:00-16:15	52.9	54.3	50.8
	52.9	54.5	50.5
	53.6	55.8	50.5

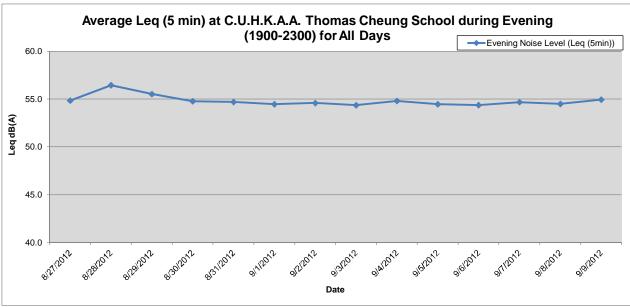
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	52.9	54.3	
16:30-16:45		54.3 55.0	50.8
10.30-10.43	52.8	55.0 54.8	50.3
	53.5		50.5
40.45.47.00	53.0	54.5	51.0
16:45-17:00	53.9	55.8	51.0
	53.1	54.8	51.3
	52.7	54.3	50.8
17:00-17:15	53.9	56.0	51.0
	53.9	55.8	51.3
	54.2	55.8	50.8
17:15-17:30	53.5	55.3	51.0
	53.1	54.5	51.3
	53.7	54.8	51.0
17:30-17:45	54.7	55.9	51.3
	53.1	54.6	51.0
	54.7	56.3	51.3
17:45-18:00	54.5	57.4	51.3
	52.5	53.8	50.8
	53.5	55.5	51.3
18:00-18:15	53.6	55.8	51.3
	54.0	55.6	51.3
	54.4	56.5	51.3
18:15-18:30	53.9	55.8	51.0
	53.8	54.8	50.8
	53.8	55.9	51.3
18:30-18:45	54.6	56.1	51.3
	54.3	57.1	51.3
	53.2	54.5	51.0
18:45-19:00	53.5	55.3	51.0
	54.0	55.5	51.8
	54.0	56.1	52.0
19:00-19:15	54.0	55.9	51.8
	54.9	56.5	51.5
	54.9	57.1	51.5
19:15-19:30	54.5	55.0	51.5
	54.0	55.6	51.5
	55.0	56.9	52.0
19:30-19:45	54.0	56.0	51.8
	54.8	56.1	52.0
	56.4	56.0	52.0
19:45-20:00	55.8	57.3	51.8
	53.5	55.6	51.3
	54.0	56.4	51.8
20:00-20:15	54.5	56.3	52.0
	54.6	56.3	52.0
	53.3	54.5	51.5
20:15-20:30	56.0	56.8	52.0
	54.4	56.3	51.8
	54.3	56.0	52.0
20:30-20:45	54.1	55.3	52.5
	55.3	57.5	52.5
	55.0	57.5	52.5
20:45-21:00	54.7	56.0	52.3
20.70 21.00	56.5	58.8	52.5
	54.7	56.3	52.3
	J4.1	JU.J	JZ.J

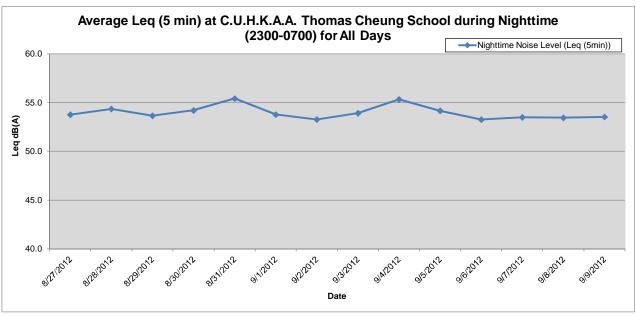
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	54.8	56.5	52.5
	54.8	56.8	52.3
21:15-21:30	55.3	57.1	52.8
	54.9	56.4	52.3
	54.8	56.0	52.5
21:30-21:45	55.8	57.6	52.5
	54.7	56.5	52.8
	54.6	56.3	52.8
21:45-22:00	54.2	55.8	52.5
	54.7	56.5	52.8
	55.1	56.9	52.5
22:00-22:15	55.1	56.8	52.8
	54.1	55.6	52.5
	54.8	56.3	52.5
22:15-22:30	54.5	55.8	52.8
	54.7	56.0	52.3
	54.9	56.5	52.5
22:30-22:45	53.8	54.3	52.5
	55.5	57.8	52.8
	55.0	56.5	52.3
22:45-23:00	54.3	56.0	52.5
	54.2	55.9	52.3
	54.0	55.6	52.3
Average	54.0	55.8	51.4
Max	57.7	60.4	52.8
Min	51.6	52.8	49.8

Time Slot	Leq, 5min	L10	L90
23:00-23:15	54.8	56.1	52.6
	54.7	56.6	52.6
	55.0	57.0	52.6
23:15-23:30	55.1	56.8	52.8
	55.7	57.6	52.8
	55.5	57.1	52.8
23:30-23:45	54.4	55.9	52.6
	54.5	56.1	52.6
	54.9	56.6	52.5
23:45-00:00	54.4	56.0	52.6
	54.3	55.8	52.5
	54.3	55.8	52.5
00:00-00:15	54.2	55.6	52.4
	54.3	55.8	52.4
	54.1	55.6	52.5
00:15-00:30	54.2	55.4	52.3
	54.3	55.8	52.4
	53.5	54.6	52.2
00:30-00:45	54.0	55.3	52.2
00.00 00.10	54.0	55.2	52.2
	53.6	54.6	52.1
00:45:01:00	54.1	55.2	52.0
00.10.01.00	53.5	54.7	51.9
	53.9	55.3	52.0
01:00-01:15	53.7	55.1	52.0
01.00 01.10	53.8	55.4	52.0
	53.7	54.9	51.9
01:15-01:30	53.1	54.1	51.8
01.10 01.00	54.0	55.7	51.9
	54.8	56.3	52.5
01:30-01:45	53.5	54.8	51.8
01.00 01.40	53.1	54.3	51.7
	53.5	54.6	52.0
01:45-02:00	53.3	54.5	51.9
01.40 02.00	53.0	53.9	51.9
	53.4	54.5	51.9
02:00-02:15	53.5	54.6	51.8
02.00 02.10	53.1	54.2	51.9
	52.8	53.3	51.9
02:15-02:30	52.9	53.8	51.9
02.00	52.9	53.9	51.8
	52.8	53.6	51.8
02:30-02:45	52.8	53.6	51.8
02.00 02.70	52.9	53.5	51.8
	52.9	53.6	51.7
02:45-03:00	52.7	53.4	51.7
02.70 00.00	53.1	53.9	51.7
	52.6	53.9	51.7
03:00-03:15	52.6	53.4	51.7
00.00-00.10	52.7 52.6	53.5	51.7
	52.8	53.5	51.5
03:15-03:30	52.8	53.4	51.6
03.13 - 03.30			
	53.7	56.5	51.6 51.0
	54.3	56.3	51.9

03:30-03:45	55.2	57.3	52.1
	52.9	53.8	51.7
	54.7	58.1	51.6
03:45-04:00	55.4	59.3	51.8
	53.1	54.6	51.7
	52.8	53.7	51.7
04:00-04:15	53.1	54.1	51.7
	52.5	53.0	51.7
	52.5	53.0	51.6
04:15-04:30	52.8	53.2	51.6
	52.5	53.1	51.6
	52.6	53.2	51.6
04:30-04:45	52.6	53.2	51.6
	52.5	52.9	51.5
	52.6	53.1	51.6
04:45-05:00	52.4	52.8	51.5
	52.4	52.9	51.4
	52.4	53.1	51.5
05:00-05:15	52.3	52.9	51.4
	53.5	55.7	51.5
	52.8	53.8	51.6
05:15-05:30	52.8	53.7	51.7
	52.7	53.9	51.6
	52.5	53.4	51.5
05:30-05:45	52.7	53.4	51.6
	52.7	53.5	51.6
	52.9	53.7	51.7
05:45-06:00	52.9	53.8	51.7
	53.7	54.3	51.7
	57.1	58.9	54.5
06:00-06:15	54.6	56.1	52.2
	53.4	54.6	52.0
	54.1	55.7	52.2
06:15-06:30	53.6	55.0	52.0
	53.9	55.4	52.1
	54.0	55.6	52.1
06:30-06:45	55.7	57.7	52.3
	56.9	59.1	52.2
	55.1	57.1	52.2
06:45-07:00	54.2	55.7	52.1
	56.1	57.9	52.7
	58.5	60.4	54.1
Average	53.9	55.3	52.0
Max	58.5	60.4	54.5
Min	52.3	52.8	51.4







Location: NMS-CA-2 for SCL(TAW-HUH) Price Memorial Catholic

Primary School

Baseline monitoring

period: 26/9/2012 - 10/10/2012

Site observation: No construction works were conducted in the vicinity during

the monitoring period.

Weather condition: The weather was sunny and overcast during monitoring period.

Parameter: Leq

Time Slot Averaged Baselines

Time slot	Leq, 30 min	L10	L90
07:00-07:30	66.1	68.8	61.9
07:30-08:00	66.7	69.2	62.8
08:00-08:30	67.2	69.4	63.0
08:30-09:00	66.6	69.1	62.8
09:00-09:30	66.4	68.9	62.5
09:30-10:00	66.3	68.8	62.4
10:00-10:30	66.4	68.9	62.7
10:30-11:00	65.8	68.1	61.9
11:00-11:30	65.6	68.1	61.7
11:30-12:00	65.4	67.8	61.5
12:00-12:30	65.5	67.9	61.6
12:30-13:00	65.4	67.9	61.3
13:00-13:30	65.4	67.8	61.6
13:30-14:00	65.8	68.2	61.8
14:00-14:30	66.0	68.4	62.3
14:30-15:00	66.0	68.4	62.2
15:00-15:30	66.0	68.4	62.3
15:30-16:00	66.2	68.6	62.3
16:00-16:30	66.4	68.8	62.5
16:30-17:00	66.4	68.7	62.5
17:00-17:30	66.5	69.0	62.6
17:30-18:00	66.2	68.6	62.2
18:00-18:30	66.1	68.6	62.0
18:30-19:00	65.9	68.3	61.8
Average	66.1	68.6	62.2
Max	67.2	69.4	63.0
Min	65.4	67.8	61.3

65.8 65.2 65.7 65.5 65.6 65.6 65.1 65.3 65.3 65.4 65.2 64.7 65.1 64.8 64.8	68.5 67.7 68.0 67.8 68.3 67.6 67.8 67.8 67.9 67.6 67.2 67.3	61.8 61.5 62.1 61.7 61.1 61.4 61.4 61.4 61.7 61.4 60.9 60.7 61.1
65.7 65.5 65.6 65.6 65.1 65.3 65.3 65.4 65.2 64.7 65.1 64.8	68.0 67.8 68.3 68.3 67.6 67.8 67.8 67.9 67.6 67.2 67.3	62.1 61.7 61.1 61.4 61.4 61.4 61.7 61.4 60.9 60.7
65.5 65.6 65.6 65.1 65.3 65.3 65.4 65.2 64.7 65.1 64.8	67.8 68.3 68.3 67.6 67.8 67.8 67.9 67.6 67.2 67.3	61.7 61.1 61.4 61.4 61.4 61.7 61.4 60.9 60.7
65.6 65.6 65.1 65.3 65.3 65.4 65.2 64.7 65.1 64.8	68.3 68.3 67.6 67.8 67.8 67.9 67.6 67.2 67.3	61.1 61.4 61.4 61.4 61.7 61.4 60.9 60.7
65.6 65.1 65.3 65.3 65.4 65.2 64.7 65.1 64.8 64.8	68.3 67.6 67.8 67.8 67.9 67.6 67.2 67.3	61.4 61.4 61.4 61.7 61.4 60.9 60.7
65.1 65.3 65.3 65.4 65.2 64.7 65.1 64.8 64.8	67.6 67.8 67.9 67.6 67.2 67.3	61.4 61.4 61.7 61.4 60.9 60.7
65.3 65.3 65.4 65.2 64.7 65.1 64.8 64.8	67.8 67.8 67.9 67.6 67.2 67.3	61.4 61.7 61.4 60.9 60.7
65.3 65.4 65.2 64.7 65.1 64.8 64.8	67.8 67.9 67.6 67.2 67.3	61.4 61.7 61.4 60.9 60.7
65.4 65.2 64.7 65.1 64.8 64.8	67.9 67.6 67.2 67.3 67.3	61.7 61.4 60.9 60.7
65.2 64.7 65.1 64.8 64.8	67.6 67.2 67.3 67.3	61.4 60.9 60.7
64.7 65.1 64.8 64.8	67.2 67.3 67.3	60.9 60.7
65.1 64.8 64.8	67.3 67.3	60.7
64.8 64.8	67.3	
64.8		61.1
00	67.4	
64.9	υ <i>ι</i> .4	60.6
UT.U	67.4	61.0
64.5	66.9	60.2
65.2	67.7	61.2
65.2	67.9	60.8
64.1	66.4	60.2
64.8	67.4	60.5
64.8	66.8	60.2
64.2	66.8	60.1
64.3		60.0
		60.5
64.9	67.7	60.7
64.3	66.9	59.9
64.7	67.5	60.6
64.4	66.8	60.2
64.4	67.1	60.1
64.5	67.0	60.7
64.4	66.9	60.4
64.4	67.1	60.2
64.5	66.9	60.7
64.3	66.7	60.3
64.7	67.1	60.6
	66.7	60.4
		60.2
		60.4
		59.8
		59.9
		60.4
		60.2
		60.9
		59.7
		60.4
		60.7
		59.9
		60.7
		62.1
		59.7
	65.2 65.2 64.1 64.8 64.8 64.2 64.3 65.3 64.9 64.3 64.7 64.4 64.4 64.5 64.4 64.5 64.4	65.2 67.7 65.2 67.9 64.1 66.4 64.8 67.4 64.8 66.8 64.2 66.8 64.3 66.9 65.3 67.9 64.9 67.7 64.3 66.9 64.7 67.5 64.4 66.8 64.4 67.1 64.5 67.0 64.4 66.9 64.4 67.1 64.5 66.9 64.1 66.8 64.1 66.9 64.2 66.8 64.1 66.8

Time Slot	Leq, 5min	L10	L90
0700-07:15	63.4	66.7	58.1
	63.1	66.4	58.3
	62.3	65.2	57.5
07:15-07:30	62.0	64.3	58.1
	65.0	68.0	60.2
	63.8	66.7	59.5
07:30-07:45	63.6	66.8	59.0
	64.2	66.1	59.2
	64.2	67.4	59.3
07:45-08:00	64.8	67.5	60.0
	63.6	66.6	59.3
	64.2	67.0	58.8
08:00-08:15	64.8	67.8	60.0
	63.8	66.8	58.9
	64.7	67.8	59.2
08:15-08:30	64.2	67.2	59.2
	64.8	67.9	59.7
	64.3	67.2	59.8
08:30-08:45	64.3	67.0	59.6
	65.0	67.6	60.8
	64.4	67.0	59.9
08:45-09:00	64.3	66.9	60.4
	64.6	67.7	60.6
	64.1	66.7	59.8
09:00-09:15	65.9	68.8	61.3
	64.1	66.8	60.2
	64.7	67.5	60.4
09:15-09:30	65.2	67.5	60.9
	64.8	67.7	60.0
	63.9	66.3	59.7
09:30-09:45	65.5	68.5	60.4
	64.3	67.3	60.1
	64.8	67.3	61.0
09:45-10:00	64.4	66.9	60.3
	65.0	67.5	60.9
	64.4	66.9	60.0
10:00-10:15	65.0	67.6	60.8
	65.3	68.1	60.6
	64.3	66.8	60.3
10:15-10:30	64.8	67.8	60.1
	64.7	67.5	60.6
	64.9	67.4	60.8
10:30-10:45	65.5	67.1	60.3
	64.5	67.1	60.0
	65.1	67.6	60.9
10:45-11:00	64.7	67.3	60.5
	63.8	66.1	59.6
	65.2	67.4	61.3
11:00-11:15	65.1	67.9	60.8
	64.1	66.5	59.4
	64.6	67.0	60.3
11:15-11:30	64.4	66.9	60.1
	64.8	67.5	60.3
	64.8	67.6	60.5

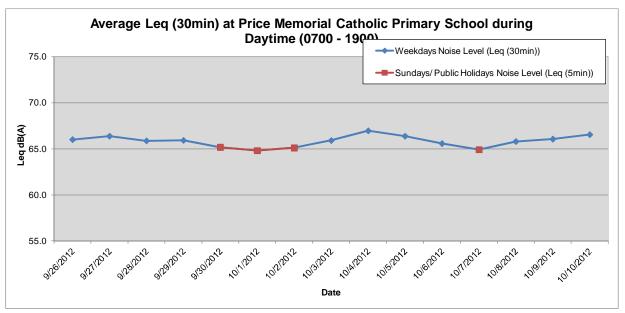
11:30-11:45	64.5	67.4	60.3
	65.5	68.1	60.6
	64.7	67.7	60.6
11:45-12:00	65.2	67.3	61.5
	64.4	67.2	60.3
	65.9	68.3	61.0
12:00-12:15	65.4	67.9	60.9
	64.8	67.5	60.3
	64.6	67.3	60.2
12:15-12:30	65.5	68.4	60.3
	65.5	67.8	61.1
	66.1	68.8	61.4
12:30-12:45	64.9	67.8	60.5
	65.4	68.5	60.4
	64.2	66.3	60.5
12:45-13:00	65.5	68.4	60.8
	65.0	68.1	60.3
	64.7	67.5	60.5
13:00-13:15	65.3	67.9	60.8
	64.7	67.1	60.2
	65.3	68.1	60.5
13:15-13:30	65.4	67.9	60.6
	64.9	67.3	60.2
	65.1	67.8	61.0
13:30-13:45	65.8	68.8	61.3
	64.9	67.7	60.8
	65.4	68.2	61.1
13:45-14:00	65.1	67.5	61.2
	65.4	67.7	61.6
	65.0	67.7	60.9
14:00-14:15	65.3	68.1	60.8
	65.8	68.4	61.1
	65.6	68.2	61.1
14:15-14:30	65.6	68.4	60.5
	64.7	67.6	60.6
	64.9	67.3	60.8
14:30-14:45	65.6	68.4	60.8
	65.0	67.6	60.9
	64.9	67.6	60.9
14:45-15:00	65.4	68.0	61.0
	64.7	67.3	60.3
45.00.45.45	65.3	67.9	61.4
15:00-15:15	65.2	68.3	60.6
	65.4	68.1	61.0
45.45.45.00	64.9	67.7	60.2
15:15-15:30	65.3	68.1	60.6
	65.2	67.9	60.8
45.00 45.45	64.6	66.9	59.8
15:30-15:45	65.8	68.7	60.9
	65.3	67.7	60.9
15:45 16:00	65.3	67.5	61.4
15:45-16:00	65.8	68.3	62.1
	65.5	68.0	61.2
16:00 16:15	65.4	68.0	60.4
16:00-16:15	65.4	68.3	61.3
	65.0	67.8	61.1
	66.2	69.0	61.4

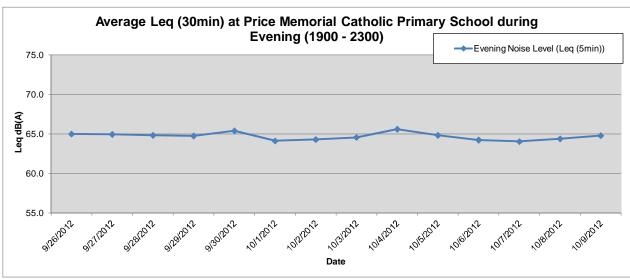
16:15-16:30	65.5	68.1	60.9
10.10 10.00	65.3	67.8	61.1
	65.3	68.0	60.0
16:30-16:45	66.7	69.3	62.4
	65.2	67.2	61.7
	66.5	69.3	61.3
16:45-17:00	65.9	68.5	61.4
10.10 17.00	65.5	67.9	61.4
	65.1	67.5	61.3
17:00-17:15	65.8	68.1	61.8
	65.4	68.0	61.5
	65.5	68.0	62.0
17:15-17:30	64.7	67.1	60.8
	65.9	68.1	62.1
	65.3	67.9	61.1
17:30-17:45	65.6	68.1	61.6
	64.6	67.2	60.5
	65.3	67.8	60.9
17:45-18:00	64.8	67.7	60.6
	66.0	68.3	62.4
	65.0	67.6	60.8
18:00-18:15	65.0	67.7	61.2
10.00	64.9	67.3	60.7
	65.3	67.7	61.3
18:15-18:30	65.2	67.4	61.3
	65.4	68.0	61.2
	64.0	66.2	60.4
18:30-18:45	64.8	67.1	61.3
	65.7	68.2	61.0
	64.9	67.4	61.0
18:45-19:00	64.6	67.3	60.4
	66.2	68.6	61.4
	64.5	66.6	60.4
19:00-19:15	65.1	67.7	61.3
	64.8	67.4	61.0
	64.7	67.4	60.2
19:15-19:30	64.5	67.3	60.3
	64.5	67.1	60.4
	64.4	66.9	60.5
19:30-19:45	64.4	66.9	60.2
	63.5	65.7	60.4
	64.4	67.0	59.8
19:45-20:00	64.3	67.0	59.5
	65.3	68.4	60.3
	64.1	66.7	59.9
20:00-20:15	64.3	66.9	60.1
	63.4	65.8	59.8
	64.2	66.8	60.2
20:15-20:30	64.7	67.3	60.6
	64.6	67.4	60.3
	64.3	66.7	60.5
20:30-20:45	64.5	67.1	59.7
	63.5	65.8	59.2
	64.9	67.3	60.3
20:45-21:00	64.2	66.4	60.1
	64.4	66.9	60.4
	64.6	67.2	60.8

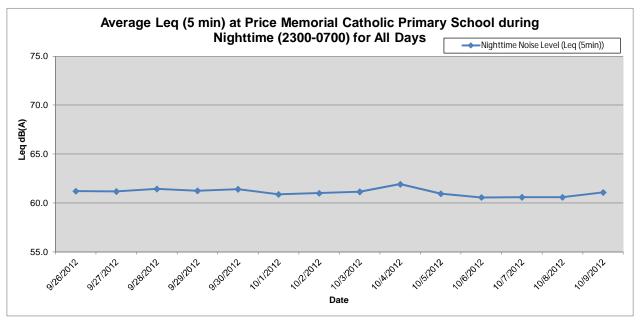
21:00-21:15	64.4	67.3	60.3
	63.9	66.6	59.9
	64.2	66.8	60.4
21:15-21:30	64.6	67.1	61.1
	64.3	66.5	60.7
	64.7	67.1	61.0
21:30-21:45	64.4	67.0	61.0
	64.7	67.3	60.9
	64.2	66.7	60.3
21:45-22:00	65.4	67.8	61.4
	65.0	67.1	61.2
	64.6	66.9	60.6
22:00-22:15	64.5	67.3	60.6
	65.2	67.7	61.3
	64.0	65.9	60.5
22:15-22:30	64.8	67.5	61.1
	64.8	67.2	61.0
	64.8	67.2	61.1
22:30-22:45	64.6	67.1	60.8
	64.7	67.1	60.7
	63.4	65.9	59.0
22:45-23:00	65.6	68.1	60.8
	64.7	67.4	60.6
	64.2	67.0	60.4
Average	64.9	67.5	60.6
Max	66.7	69.3	62.4
Min	62.0	64.3	57.5

Time Slot	Leq, 5min	L10	L90
23:00-23:15	64.5	67.4	60.0
	64.5	67.2	59.9
	64.0	66.7	59.8
23:15-23:30	63.5	65.9	59.5
	64.3	67.1	59.7
	63.9	66.7	59.5
23:30-23:45	64.2	67.1	59.6
	65.2	67.9	59.5
	63.5	66.2	59.1
23:45-00:00	64.1	67.0	59.3
	63.9	66.8	59.1
	63.9	66.8	59.2
00:00-00:15	63.6	66.4	58.9
	63.5	66.2	58.6
	63.3	66.1	58.4
00:15-00:30	63.1	66.0	58.4
	62.0	64.7	57.2
	63.0	65.9	57.7
00:30-00:45	62.3	65.1	57.5
	62.4	65.2	57.0
	60.9	63.0	56.4
00:45:01:00	60.9	63.7	55.8
	60.9	63.3	56.0
	60.7	63.1	55.8
01:00-01:15	60.4	63.0	55.5
	60.1	62.7	55.1
	60.0	62.7	54.6
01:15-01:30	60.3	63.1	54.9
	59.7	62.2	54.2
	58.5	61.4	53.9
01:30-01:45	58.1	60.5	53.7
	57.9	60.2	53.8
	58.5	61.2	54.0
01:45-02:00	58.0	60.4	53.6
	57.8	60.0	53.0
	58.3	60.3	53.4
02:00-02:15	57.9	60.5	53.3
	57.8	60.4	53.3
	58.6	60.6	53.4
02:15-02:30	57.8	60.5	53.1
	57.6	59.9	52.7
	57.9	60.1	52.9
02:30-02:45	57.6	59.9	52.3
-	57.6	60.1	52.7
	58.4	60.8	52.7
02:45-03:00	57.4	60.3	52.6
	56.6	59.1	52.2
	57.3	59.7	52.3
03:00-03:15	57.8	59.9	52.2
	57.2	59.7	51.8
	56.4	59.0	51.9
03:15-03:30	56.5	59.0	51.8
	57.2	59.8	52.0
	58.1	60.6	52.1

03:30-03:45	56.7	59.3	51.6
	57.2	59.6	51.7
	57.3	59.9	51.9
03:45-04:00	57.3	60.0	52.1
	57.2	59.9	52.1
	56.6	59.1	51.8
04:00-04:15	56.2	58.9	51.8
	56.3	58.8	51.5
	56.9	59.4	51.6
04:15-04:30	56.6	59.0	51.6
	58.7	61.7	52.1
	58.2	60.9	52.2
04:30-04:45	58.4	60.7	52.5
0 1100 0 11 10	58.6	61.1	52.4
	58.3	61.0	52.5
04:45-05:00	56.8	59.3	52.2
0 11 10 00.00	57.4	59.8	52.1
	57.3	59.7	52.5
05:00-05:15	57.7	60.2	52.5
00.00 00.10	57.3	59.6	52.7
	57.5	59.9	53.0
05:15-05:30	58.7	61.3	53.4
00.10 00.00	58.8	61.5	53.5
	60.2	63.2	54.0
05:30-05:45	60.3	63.0	54.2
00.00 00.10	60.6	63.7	54.8
	61.4	64.9	54.8
05:45-06:00	61.2	64.2	55.1
00.10 00.00	60.3	62.8	55.1
	61.1	64.4	55.5
06:00-06:15	63.6	66.9	57.6
00.00 00.10	62.3	65.4	57.3
	63.5	66.6	58.1
06:15-06:30	63.4	66.5	58.7
	63.2	66.2	58.2
	63.7	66.6	58.9
06:30-06:45	64.2	66.9	59.7
	64.0	67.0	59.0
	65.5	68.6	60.0
06:45-07:00	64.4	67.4	59.5
-	64.5	67.3	59.9
	65.0	67.7	60.6
Average	61.1	63.9	56.1
Max	65.5	68.6	60.6
Min	56.2	58.8	51.5







Location: NMS-CA-3 for SCL(TAW-HUH) / NMS-CA-4 SCL(HHS)

Hong Kong Sheng Kung Hui Nursing Home

Baseline

monitoring period: 12/9/2012 - 26/9/2012

Site observation: No construction works were conducted in the vicinity during

the monitoring period.

Weather condition: The weather was sunny and overcast during monitoring period.

Parameter: Leq

Time Slot Averaged Baselines

Time slot	Leq, 30 min	L10	L90
07:00-07:30	71.6	74.7	67.1
07:30-08:00	72.6	75.2	67.6
08:00-08:30	72.7	75.3	67.8
08:30-09:00	72.9	75.4	68.1
09:00-09:30	72.8	75.5	67.9
09:30-10:00	72.7	75.4	67.9
10:00-10:30	72.7	75.5	67.8
10:30-11:00	72.7	75.4	67.7
11:00-11:30	72.6	75.3	67.7
11:30-12:00	72.3	75.1	67.8
12:00-12:30	72.3	75.1	67.7
12:30-13:00	72.2	74.9	67.7
13:00-13:30	72.3	74.9	67.8
13:30-14:00	72.3	75.1	67.6
14:00-14:30	72.3	75.0	67.8
14:30-15:00	72.4	75.2	67.6
15:00-15:30	72.5	75.2	67.9
15:30-16:00	72.5	75.2	67.9
16:00-16:30	72.9	75.4	68.0
16:30-17:00	72.6	75.2	67.9
17:00-17:30	72.6	75.3	67.9
17:30-18:00	72.6	75.3	67.9
18:00-18:30	72.9	75.6	67.9
18:30-19:00	72.1	74.9	67.5
Average	72.5	75.2	67.8
Max	72.9	75.6	68.1
Min	71.6	74.7	67.1

Time Slot	Leq, 5min	L10	L90
19:00-19:15	72.2	74.7	67.8
	72.2	75.2	67.3
	71.8	74.9	67.2
19:15-19:30	71.7	74.6	66.6
	71.9	74.8	67.5
	71.8	74.7	67.0
19:30-19:45	71.7	74.6	67.2
	72.0	74.8	67.0
	72.1	74.7	67.7
19:45-20:00	71.6	74.5	67.1
	71.8	74.4	67.6
	71.5	74.3	67.2
20:00-20:15	71.9	74.8	67.6
	71.4	74.3	66.5
	71.4	74.3	66.9
20:15-20:30	71.7	75.0	66.8
	71.5	74.5	67.0
	71.3	74.3	66.6
20:30-20:45	71.0	74.2	65.6
	71.2	74.1	66.3
	71.3	74.3	66.7
20:45-21:00	71.0	74.0	66.0
	71.2	74.1	66.6
	71.1	74.1	66.5
21:00-21:15	71.2	74.2	66.2
	70.9	73.7	66.0
	70.8	74.1	66.3
21:15-21:30	70.9	73.9	65.9
	71.2	74.2	66.8
	70.8	73.9	65.7
21:30-21:45	70.9	73.9	66.6
	70.9	74.1	66.1
04.45.00.00	70.7	74.0	65.9
21:45-22:00	70.8	73.7	65.9
	70.9	74.1	66.0
00.00 00.45	72.2	74.7	67.1
22:00-22:15	70.9	73.9	66.1
	73.3	77.0	66.8
22:15-22:30	71.3	74.3	66.4
ZZ. 13-ZZ.3U	71.3	74.3	67.0
	71.6 71.0	74.2 74.0	66.2
22:30-22:45	71.0	74.0	66.5 65.8
ZZ.JU-ZZ.4J	70.7	73.8	65.7
	70.9	73.8	65.3
22:45-23:00	70.7	74.1	66.5
ZZ.4J-ZJ.UU	70.9		
		73.8	66.1
Average	70.8 71.4	73.7 74.4	65.7
Average			66.6
Max Min	73.3 70.7	77.0 73.7	67.8
IVIII I	10.1	13.1	65.3

Time Slot	Leq, 5min	L10	L90
0700-07:15	69.3	73.7	62.3
	69.4	72.6	63.7
	70.4	73.8	66.4
07:15-07:30	69.9	73.4	64.7
	70.6	74.1	65.1
	71.0	73.7	65.6
07:30-07:45	70.9	74.2	65.6
	69.8	73.3	63.9
	71.3	73.7	66.1
07:45-08:00	70.5	73.7	64.9
	71.3	73.6	67.2
	72.2	74.8	68.4
08:00-08:15	69.6	73.6	63.1
	70.9	73.3	66.9
	71.0	74.2	66.7
08:15-08:30	71.0	74.3	66.3
	70.8	73.5	66.3
	71.8	75.2	66.8
08:30-08:45	71.0	73.9	65.3
	71.3	74.3	66.5
	71.7	74.1	66.8
08:45-09:00	71.9	74.7	67.9
	71.8	75.1	68.4
20.00.00.45	72.0	75.1	67.5
09:00-09:15	71.3	74.4	66.8
	71.2	74.0	67.7
00.45.00.00	72.1	74.9	67.4
09:15-09:30	71.3	74.1	67.2
	71.2 71.6	74.9	66.3
09:30-09:45	71.5	74.0 74.5	66.1
09:30-09:45	71.5 71.5	74.5 73.9	66.9
	71.5	73.9	67.4 66.7
09:45-10:00	71.2	76.0	67.3
09.43-10.00	70.9	74.5	66.3
	71.8	74.6	67.6
10:00-10:15	70.4	73.2	65.2
10.00 10.10	70.8	74.0	65.2
	71.7	74.8	66.8
10:15-10:30	71.2	73.8	65.7
127.0 10.00	71.6	74.9	66.9
	70.9	73.9	66.0
10:30-10:45	71.6	74.8	67.0
	70.9	73.1	66.1
	71.6	74.2	67.3
10:45-11:00	71.0	74.3	66.7
	70.6	73.8	66.2
	71.0	73.8	66.7
11:00-11:15	71.4	74.2	67.0
	71.0	74.2	66.0
	70.8	73.4	66.3
11:15-11:30	70.9	73.9	66.0
	71.0	74.2	67.0
	70.9	73.6	66.5

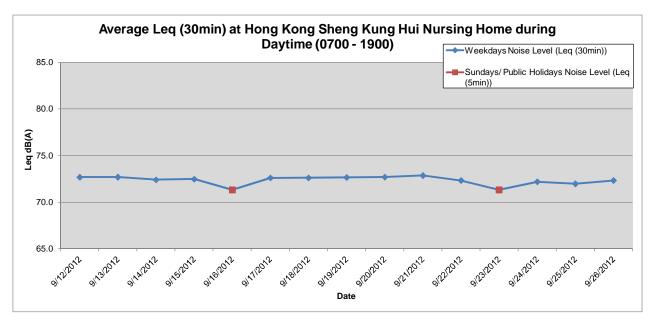
11:30-11:45	71.3	74.4	65.1
11.30-11.43	71.3	74.4	67.3
	70.9	73.6	67.9
11:45-12:00	71.9	74.6	66.2
11.40-12.00	71.2	73.7 74.2	66.0
	71.2	73.7	66.1
12:00-12:15	71.2	73.7 75.0	66.9
12.00°12.10	71.7	75.0 74.6	66.5
	71.0	74.8	65.9
12:15-12:30	71.8	74.3	67.9
12.00	71.0	73.7	67.0
	71.4	74.1	65.7
12:30-12:45	71.4	74.3	66.6
	70.3	73.6	63.9
	72.9	74.7	66.8
12:45-13:00	71.6	74.7	68.1
	70.9	74.0	66.2
	71.6	74.8	66.8
13:00-13:15	71.2	74.3	66.8
	75.5	77.3	67.6
<u></u>	71.1	74.4	66.1
13:15-13:30	71.1	74.1	67.3
	72.0	73.8	67.4
	71.2	74.0	65.9
13:30-13:45	71.0	74.3	64.7
	70.9	73.9	66.2
	71.3	74.4	66.8
13:45-14:00	71.2	74.6	67.1
	71.7	75.4	67.9
44.00	70.7	73.1	65.5
14:00-14:15	71.1	73.8	66.1
	71.6	74.8	65.8
14:15-14:30	71.6 71.2	74.5	67.4
14.10-14.30	71.2 72.8	74.4 75.5	66.1 66.7
	72.8	75.5 73.8	67.3
14:30-14:45	71.3	73.8	65.6
17.70	71.7	74.2	65.8
	71.7	74.6	65.4
14:45-15:00	70.8	73.9	65.1
	71.7	74.5	68.0
	71.7	74.6	66.5
15:00-15:15	71.6	75.0	66.8
	71.3	74.0	67.0
	71.8	75.2	66.4
15:15-15:30	71.4	74.1	66.6
	71.1	74.3	66.7
	71.5	74.4	67.5
15:30-15:45	71.1	74.1	66.0
	70.8	73.4	65.3
	71.4	73.9	67.5
15:45-16:00	71.6	73.8	67.5
	70.7	74.0	64.3
10.55	72.0	74.6	66.5
16:00-16:15	71.5	74.5	66.9
	71.1	73.5	66.1
	71.8	74.5	68.0

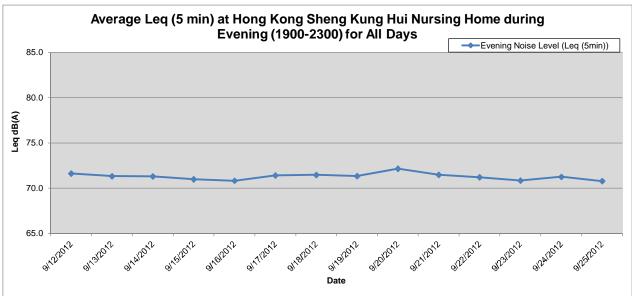
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10.10-10.30	71.1	74.0 74.7	64.3
	71.1	74.7	67.7
16:30-16:45	71.1	74.3 74.4	65.7
10.30-10.43		74.4 75.4	
	72.1 70.7	75.4 74.3	67.8
16:45 17:00	-		65.4 67.5
16:45-17:00	71.7	74.6	67.5
	70.8	73.8	66.8
17:00 17:15	72.2	75.4	68.4 66.0
17:00-17:15	70.9	73.8	66.9 67.3
	71.6	74.1	67.3
17:15-17:30	71.9	74.3	68.2 67.0
17.15-17:30	71.1	74.6	67.0 67.2
	71.9	75.1	67.2
17:20 47:45	71.0	74.5	65.8
17:30-17:45	71.1	73.7	66.9
	71.3	74.6	66.4
47.4E 40.00	71.4	74.1	67.3
17:45-18:00	71.6	74.9	67.8
	71.3	74.8	67.7
10:00 10 15	71.0	74.6	67.1
18:00-18:15	71.2	74.4	66.4
	71.6	74.8	67.3
40.45 40.00	71.0	74.3	66.0
18:15-18:30	71.8	74.0	67.4
	71.4	74.5	67.6
10.00 15 15	70.8	74.4	64.7
18:30-18:45	70.9	74.8	64.9
	72.3	74.8	67.2
10.45.15.5	70.7	74.4	65.3
18:45-19:00	70.9	73.5	66.2
	70.8	74.4	66.4
40.00.10.15	70.9	74.2	66.7
19:00-19:15	70.6	73.2	67.2
	71.0	73.5	66.5
10.47.17.	71.0	74.3	66.4
19:15-19:30	71.4	75.3	66.2
	70.7	73.1	67.0
10.00 15 15	70.5	74.1	65.3
19:30-19:45	70.8	73.7	65.7
	71.5	74.5	67.0
40.47.55	70.2	73.4	64.5
19:45-20:00	70.9	73.9	65.2
	70.8	73.6	66.1
00.00.55	71.1	73.9	66.4
20:00-20:15	70.9	73.8	66.9
	71.1	73.9	65.9
00.45.55	70.8	74.3	66.3
20:15-20:30	71.0	74.4	66.2
	70.4	74.4	65.1
	70.8	74.4	65.6
20:30-20:45	70.4	73.3	65.5
	70.2	73.7	65.3
	71.4	74.5	67.7
20:45-21:00	70.9	74.5	66.2
	71.3	73.6	66.5
	70.7	74.6	66.1

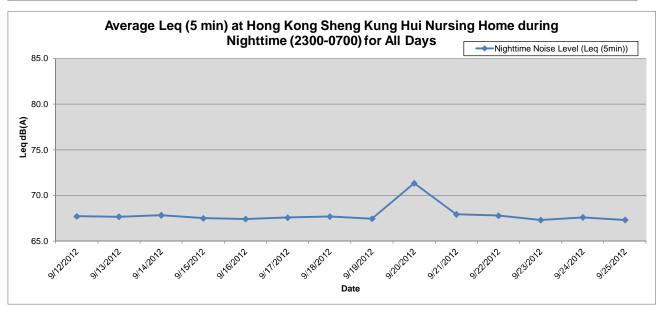
21:00-21:15	71.0	74.2	66.9
	70.2	74.1	64.8
	70.2	73.2	65.7
21:15-21:30	71.3	74.3	65.8
	71.2	73.9	66.4
	71.1	74.4	66.2
21:30-21:45	70.8	74.4	65.3
	70.8	73.4	66.1
	70.9	74.1	65.9
21:45-22:00	70.8	73.9	65.7
	71.0	74.6	66.5
	71.1	73.9	67.2
22:00-22:15	71.4	74.5	66.4
	71.0	73.7	66.1
	70.5	73.8	65.6
22:15-22:30	70.7	74.2	63.9
	70.0	73.4	65.2
	71.0	74.5	65.9
22:30-22:45	70.7	73.6	65.0
	70.9	73.8	66.1
	71.2	74.2	67.0
22:45-23:00	70.3	73.4	65.3
	70.4	73.7	65.3
	70.7	73.2	65.6
Average	71.2	74.2	66.5
Max	75.5	77.3	68.4
Min	69.3	72.6	62.3

Time Slot	Leq, 5min	L10	L90
23:00-23:15	70.9	74.3	65.9
	70.8	73.9	66.1
	70.7	73.6	65.3
23:15-23:30	70.9	74.0	65.8
	70.8	74.0	65.8
	70.8	74.0	65.4
23:30-23:45	70.9	73.9	65.8
	70.5	74.0	65.3
	70.5	73.7	65.0
23:45-00:00	70.6	73.8	65.1
	70.8	74.0	66.1
	70.1	73.4	64.6
00:00-00:15	70.4	73.7	65.0
	70.0	73.5	64.2
	69.4	72.9	63.3
00:15-00:30	69.9	73.1	64.1
	70.3	73.6	64.4
	69.8	73.1	63.9
00:30-00:45	69.4	72.4	62.8
	69.2	72.6	62.9
	69.0	72.4	62.7
00:45:01:00	68.8	72.0	61.9
	68.0	71.2	61.1
04.00.04.45	68.2	71.3	60.9
01:00-01:15	67.7	71.2	60.7
	67.0	70.6	60.1
01:15-01:30	66.1	69.5 70.5	58.2
01.15-01.30	66.5 66.3	70.5	59.3 58.7
	65.7	69.5	58.6
01:30-01:45	67.2	70.8	59.8
01.50-01.45	66.7	70.7	60.2
	65.9	69.8	57.8
01:45-02:00	65.7	69.9	58.2
01.10 02.00	65.8	69.9	58.7
	65.7	69.7	58.3
02:00-02:15	65.8	70.1	58.1
	65.0	69.0	57.7
	65.3	69.6	57.7
02:15-02:30	65.6	69.4	58.4
	65.6	69.5	58.7
	64.8	68.9	57.7
02:30-02:45	64.9	68.9	57.6
	64.7	68.7	56.9
	64.4	68.4	57.0
02:45-03:00	65.9	70.0	58.8
	64.6	68.5	57.0
	65.0	68.9	58.0
03:00-03:15	64.8	68.7	58.0
	64.8	69.0	57.9
	64.2	68.2	57.0
03:15-03:30	64.7	68.5	57.4
	64.4	68.3	57.0
	64.1	68.4	56.9

03:30-03:45	63.9	67.9	56.8
	64.1	67.8	56.8
	64.5	68.6	57.0
03:45-04:00	65.2	69.1	57.7
	64.4	68.4	56.8
	63.8	67.9	56.5
04:00-04:15	64.1	68.1	56.9
	63.9	68.1	56.7
	64.1	68.0	56.9
04:15-04:30	64.0	67.9	56.9
	65.0	69.0	57.7
	65.2	69.2	57.8
04:30-04:45	66.2	70.2	58.0
	64.3	68.0	57.1
	64.1	68.3	56.5
04:45-05:00	64.9	69.2	56.9
	64.7	69.1	57.1
	65.4	69.5	57.8
05:00-05:15	64.4	68.5	57.0
	64.8	69.0	57.2
	65.9	69.7	58.9
05:15-05:30	65.2	69.5	57.7
	64.8	69.0	57.1
	65.4	69.4	57.8
05:30-05:45	65.8	69.6	58.1
	65.9	69.9	58.8
	66.0	69.9	58.3
05:45-06:00	66.6	70.5	59.5
	66.7	70.2	59.5
	66.9	70.0	59.5
06:00-06:15	67.0	70.6	59.9
	67.9	71.4	61.2
	68.4	71.7	61.8
06:15-06:30	68.7	72.1	62.7
	68.9	72.6	62.6
	69.3	72.8	63.4
06:30-06:45	69.6	73.0	63.4
	70.1	73.3	64.5
	70.3	73.6	64.8
06:45-07:00	70.3	73.7	64.7
	70.4	73.5	65.0
	71.0	74.1	66.2
Average	67.6	71.2	61.5
Max	71.0	74.3	66.2
Min	63.8	67.8	56.5







Location: NMS-CA-4 for SCL(TAW-HUH) / NMS-CA-3 for SCL(HHS)

Rhythm Garden, Block 1 (north-eastern facade)

Baseline monitoring

period: 11/9/2012 - 25/9/2012

Site observation: No construction works were conducted in the vicinity during

the monitoring period.

Weather condition: The weather was sunny and overcast during monitoring period.

Parameter: Leq

Time Slot Averaged Baselines

Time slot	Leq, 30 min	L10	L90
07:00-07:30	70.7	71.8	69.1
07:30-08:00	71.8	72.7	70.5
08:00-08:30	71.8	72.8	70.4
08:30-09:00	71.4	72.5	70.0
09:00-09:30	71.5	72.5	70.1
09:30-10:00	71.3	72.3	69.9
10:00-10:30	71.2	72.1	69.8
10:30-11:00	71.1	72.0	69.7
11:00-11:30	71.1	72.0	69.7
11:30-12:00	71.1	72.0	69.7
12:00-12:30	71.1	72.0	69.6
12:30-13:00	70.9	71.9	69.4
13:00-13:30	70.9	71.9	69.5
13:30-14:00	70.9	71.9	69.5
14:00-14:30	71.0	71.9	69.6
14:30-15:00	71.1	72.0	69.7
15:00-15:30	71.1	72.0	69.7
15:30-16:00	71.0	71.9	69.6
16:00-16:30	71.1	72.0	69.8
16:30-17:00	71.2	72.2	69.8
17:00-17:30	71.3	72.2	69.9
17:30-18:00	71.3	72.3	69.8
18:00-18:30	71.2	72.3	69.8
18:30-19:00	70.9	71.9	69.4
Average	71.2	72.1	69.8
Max	71.8	72.8	70.5
Min	70.7	71.8	69.1

Time Slot	Leq, 5min	L10	L90
19:00-19:15	70.6	71.7	69.1
	70.8	71.8	69.2
	70.9	72.1	69.3
19:15-19:30	70.4	71.5	68.8
	70.5	71.6	68.9
	70.5	71.6	68.9
19:30-19:45	70.4	71.4	68.7
	70.3	71.4	68.8
	70.5	71.6	68.8
19:45-20:00	70.5	71.4	68.8
	70.3	71.4	68.7
	70.1	71.2	68.6
20:00-20:15	70.0	71.0	68.4
	69.9	71.1	68.3
	69.8	70.9	68.1
20:15-20:30	69.8	71.0	68.3
	69.8	70.8	68.3
	70.4	71.0	68.1
20:30-20:45	69.5	70.5	67.9
	69.6	70.8	67.9
	69.4	70.6	67.7
20:45-21:00	69.5	70.7	67.7
	69.4	70.6	67.8
	69.3	70.6	67.4
21:00-21:15	69.3	70.6	67.6
	69.5	70.7	67.7
	69.8	70.8	68.2
21:15-21:30	69.7	70.8	68.1
	69.7	70.9	68.0
	69.6	70.7	67.8
21:30-21:45	69.5	70.7	67.9
	69.5	70.6	67.9
	69.8	71.0	68.1
21:45-22:00	69.8	71.0	67.9
	69.7	70.9	68.1
	69.7	70.9	67.8
22:00-22:15	69.3	70.6	67.6
	69.3	70.6	67.4
	69.3	70.6	67.5
22:15-22:30	69.4	70.7	67.5
	69.3	70.5	67.7
	69.4	70.7	67.6
22:30-22:45	69.5	70.8	67.6
	69.3	70.6	67.4
	69.5	70.6	67.3
22:45-23:00	70.7	70.8	67.8
	69.9	70.9	67.5
	69.3	70.5	67.4
Average	69.9	71.0	68.1
Max	70.9	72.1	69.3
Min	69.3	70.5	67.3

Time Slot	Leq, 5min	L10	L90
0700-07:15	67.5	68.8	65.3
	67.7	69.5	65.0
	67.8	69.0	65.8
07:15-07:30	68.7	70.0	66.5
	68.1	69.5	66.0
	68.6	69.8	66.5
07:30-07:45	68.9	70.3	67.0
	68.7	70.0	66.8
	68.6	70.5	66.8
07:45-08:00	68.4	69.8	66.5
	68.7	70.0	67.0
	69.0	70.3	67.3
08:00-08:15	69.1	70.8	67.0
	69.1	70.5	66.8
	68.9	70.3	66.8
08:15-08:30	68.9	70.3	66.8
	69.0	70.0	67.3
	69.3	70.5	67.8
08:30-08:45	69.4	70.8	67.5
	69.5	70.8	67.5
	69.2	70.3	67.3
08:45-09:00	69.1	70.3	67.5
	69.2	70.5	67.0
	69.5	70.8	67.5
09:00-09:15	69.6	70.5	68.0
	69.2	70.5	67.5
	69.7	71.0	67.8
09:15-09:30	69.5	70.8	67.8
	69.9	71.5	67.8
	69.6	70.8	68.0
09:30-09:45	69.4	70.8	67.8
	69.9	71.3	67.8
	69.5	70.5	67.8
09:45-10:00	69.9	71.0	68.3
	69.5	70.5	67.5
	69.6	70.8	67.5
10:00-10:15	69.6	70.8	67.8
	69.3	70.5	67.5
	70.0	71.3	68.5
10:15-10:30	69.6	70.8	67.8
	69.9	71.0	68.3
	69.9	71.0	68.0
10:30-10:45	69.6	70.8	67.8
	69.8	71.0	68.3
	69.4	70.3	68.0
10:45-11:00	69.9	71.3	68.3
	69.7	70.8	68.3
	69.9	71.0	68.3
11:00-11:15	69.6	70.8	68.0
	69.7	70.5	68.0
	69.9	71.0	68.0
11:15-11:30	69.7	70.8	67.8
	69.9	71.3	68.3
	69.7	71.0	68.0

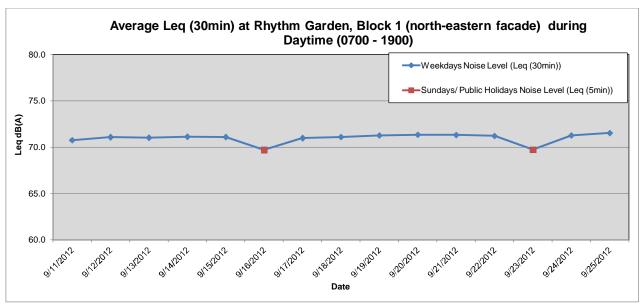
44.00.44.45	70.0	74.5	00.0
11:30-11:45	70.0	71.5	68.3
	69.6	70.8	68.0
44.45.40.00	69.1	70.0	67.8
11:45-12:00	69.9	71.0	68.3
	69.9	71.0	68.3
	70.0	71.0	68.3
12:00-12:15	69.7	70.8	68.0
	69.8	70.5	68.3
	70.1	71.3	68.5
12:15-12:30	70.0	71.3	68.3
	70.2	71.8	68.3
	70.1	70.8	68.8
12:30-12:45	70.1	71.3	68.5
	69.6	70.8	68.0
	69.8	70.8	68.3
12:45-13:00	69.8	70.8	68.3
	70.0	71.3	68.5
	69.9	70.8	68.3
13:00-13:15	69.6	70.5	68.0
	69.8	71.0	68.5
	69.7	70.8	68.0
13:15-13:30	69.8	71.0	68.3
	70.0	71.3	68.5
	70.2	71.5	68.3
13:30-13:45	69.9	71.0	68.5
	69.7	70.8	68.0
	70.0	71.3	68.3
13:45-14:00	69.9	71.0	68.3
	70.2	71.5	68.5
11001115	69.8	71.0	68.0
14:00-14:15	70.2	71.3	68.3
	69.9	71.0	68.3
4445 44.00	69.9	70.8	68.3
14:15-14:30	70.1	71.3	68.3
	70.2	71.3	68.5
44.00 44.45	69.7	70.8	68.0
14:30-14:45	69.7	70.8	68.3
	70.1	71.0	68.5
14:45-15:00	70.0	71.3 71.0	68.3 68.3
14.45-15.00	69.9 70.0	71.0	68.5
	70.0	71.5	68.0
15:00-15:15	70.1	71.3	68.5
13.00-13.13	69.9	71.0	68.3
	69.9	71.0	68.5
15:15-15:30	70.0	71.5	68.0
10.10-10.00	69.7	70.8	68.0
	69.8	70.8	68.5
15:30-15:45	69.7	71.0	68.0
10.00-10.40	69.9	71.0	68.5
	69.9	70.8	68.0
15:45-16:00	70.0	71.0	68.5
10.70-10.00	69.9	71.3	68.3
	70.0	71.0	68.0
16:00-16:15	69.8	71.0	68.0
10.00-10.10	69.8	71.0	68.0
	69.9	71.3	68.3
	ບອ.ອ	11.3	00.3

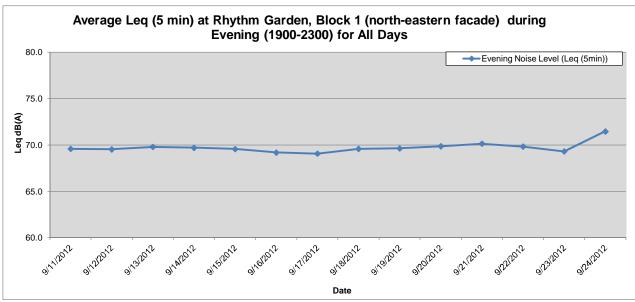
16:15-16:30	70.2	71.3	68.5
10.13-10.30	69.9	71.0	68.0
	70.2	_	
16:30-16:45		71.3	68.3
10.30-10.43	70.0	71.0	68.3
	69.9	71.3	67.8
10 15 17 00	70.1	71.3	68.5
16:45-17:00	69.9	70.8	68.3
	70.2	71.3	68.3
	69.8	70.5	68.3
17:00-17:15	70.2	71.5	68.3
	70.2	71.3	68.3
	70.2	71.3	68.8
17:15-17:30	70.1	71.0	68.3
	70.2	71.5	68.8
	70.2	71.5	68.5
17:30-17:45	70.2	71.5	68.3
	70.5	71.8	68.8
	70.0	71.0	68.5
17:45-18:00	70.2	71.0	68.8
	70.3	71.3	68.8
	70.2	71.5	68.5
18:00-18:15	70.3	71.5	69.0
	70.2	71.3	68.8
	70.2	71.3	68.8
18:15-18:30	70.2	71.0	69.0
	70.3	71.5	68.5
	70.1	71.0	68.8
18:30-18:45	70.2	71.3	68.8
	70.2	71.3	68.8
	70.0	71.3	68.3
18:45-19:00	69.9	70.8	68.5
	69.7	70.8	68.0
	69.6	70.8	68.0
19:00-19:15	69.7	71.3	67.8
	69.6	70.8	68.0
	69.7	70.8	68.0
19:15-19:30	69.8	71.3	68.3
	69.5	70.5	68.3
	69.6	70.8	67.8
19:30-19:45	69.1	70.0	67.5
	69.2	70.0	67.5
	69.0	70.0	67.3
19:45-20:00	68.9	70.0	67.0
	69.3	70.5	67.5
	68.8	70.0	67.0
20:00-20:15	69.2	70.3	67.5
	69.1	70.3	67.5
	68.9	70.0	67.3
20:15-20:30	69.1	70.3	67.5
22.22 20.00	69.5	70.8	68.0
	69.0	70.0	67.8
20:30-20:45	69.4	70.5	67.5
20.00 20.70	69.2	70.0	67.5
	69.2	70.5	67.5
20:45-21:00	69.4	70.5	67.8
20.40-21.00	69.4	70.6	67.5
	69.2	70.3	67.8

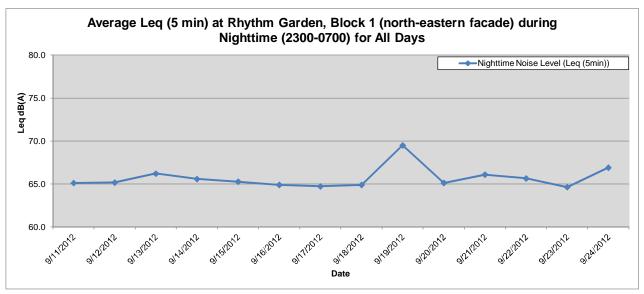
21:00-21:15	69.4	70.3	67.8
	69.6	70.8	67.8
	69.5	70.3	67.8
21:15-21:30	69.3	70.3	67.8
	69.8	70.8	67.8
	69.3	70.3	67.5
21:30-21:45	69.5	70.3	68.0
	69.6	70.8	68.0
	69.5	70.8	67.8
21:45-22:00	69.7	70.5	68.0
	69.7	71.0	68.3
	69.2	70.5	67.8
22:00-22:15	69.1	70.3	67.3
	69.1	70.0	67.5
	69.1	70.0	67.5
22:15-22:30	69.4	70.5	67.8
	69.1	70.3	67.3
	69.1	70.0	67.0
22:30-22:45	69.0	70.3	67.0
	69.1	70.0	67.5
	68.5	69.8	66.5
22:45-23:00	68.9	70.3	66.8
	68.7	70.0	66.5
	69.0	70.0	67.3
Average	69.6	70.8	67.9
Max	70.5	71.8	69.0
Min	67.5	68.8	65.0

Time Slot	Leq, 5min	L10	L90
23:00-23:15	69.3	70.7	67.3
	69.1	70.5	67.1
	69.4	70.4	66.9
23:15-23:30	69.1	70.4	67.2
	69.2	70.7	67.2
	68.9	70.3	67.0
23:30-23:45	68.8	70.1	66.6
	68.7	70.3	66.4
	68.3	69.8	66.0
23:45-00:00	68.6	70.1	66.4
	68.4	70.0	66.3
	68.2	69.8	65.9
00:00-00:15	67.9	69.3	65.9
	67.9	69.5	65.8
	67.6	69.1	65.2
00:15-00:30	67.7	69.2	65.5
	67.4	69.0	65.2
	67.2	68.8	64.7
00:30-00:45	66.9	68.5	64.4
	66.8	68.4	64.4
	66.5	68.2	64.0
00:45:01:00	66.3	68.0	64.0
	66.4	68.0	63.8
	65.5	67.3	63.1
01:00-01:15	65.2	67.1	62.6
	65.0	66.9	61.9
	63.9	65.7	61.1
01:15-01:30	63.9	65.6	61.3
	63.9	65.8	60.9
	64.0	65.6	60.8
01:30-01:45	63.8	66.1	60.1
	63.3	65.5	59.9
	63.0	64.9	59.8
01:45-02:00	62.7	64.7	59.2
	62.7	64.6	59.5
	62.5	64.6	59.0
02:00-02:15	62.6	64.6	59.2
	62.5	64.6	59.1
	62.6	64.6	59.1
02:15-02:30	62.1	64.4	58.6
	62.6	64.7	59.0
	62.3	64.3	58.5
02:30-02:45	62.2	64.3	58.6
	61.8	63.9	58.3
	62.1	64.4	58.3
02:45-03:00	62.4	64.3	58.3
	62.6	65.0	58.5
	62.3	64.5	58.2
03:00-03:15	62.2	64.3	58.7
	61.8	64.1	58.3
	61.1	63.2	57.7
03:15-03:30	61.8	64.3	57.8
	61.7	64.0	57.4
	61.4	63.7	57.4

03:30-03:45	61.2	63.5	57.4
-	61.4	63.8	57.5
	60.9	63.2	57.0
03:45-04:00	61.1	63.4	57.5
	61.5	63.6	57.1
	61.0	63.4	57.2
04:00-04:15	61.3	63.6	57.3
	61.3	63.8	57.5
	61.2	63.7	57.2
04:15-04:30	61.5	63.8	57.7
	61.7	64.1	57.7
	61.9	64.2	58.1
04:30-04:45	61.8	64.0	58.2
	62.4	64.7	58.5
	61.5	63.7	57.6
04:45-05:00	61.5	63.8	57.8
	61.8	63.9	58.0
	62.0	64.1	58.3
05:00-05:15	62.0	64.0	58.6
00.00	62.7	64.7	58.9
	62.8	64.8	59.5
05:15-05:30	63.2	65.0	60.3
	62.7	64.7	59.6
	62.9	64.7	59.7
05:30-05:45	63.2	65.2	60.1
	63.6	65.6	60.3
	63.6	65.3	60.8
05:45-06:00	64.1	65.9	61.1
	64.6	66.2	62.0
	65.3	67.0	62.6
06:00-06:15	65.8	67.3	63.5
	66.3	67.8	63.9
	67.0	68.4	64.6
06:15-06:30	67.4	68.8	65.3
	67.5	68.9	65.3
	67.8	69.3	65.8
06:30-06:45	68.0	69.5	65.9
	68.2	69.6	66.2
	68.4	69.6	66.4
06:45-07:00	68.4	69.6	66.1
	68.8	70.2	66.6
	69.3	70.7	67.1
Average	65.4	67.1	62.9
Max	69.4	70.7	67.3
Min	60.9	63.2	57.0







Location: NMS-CA-5 for SCL(TAW-HUH) / NMS-CA-2 for SCL(HHS)

Rhymic Grden Block 1 (northern façade)

Baseline monitoring

period: 11/9/2012 - 25/9/2012

Site observation: No construction works were conducted in the vicinity during

the monitoring period.

Weather condition: The weather was sunny and overcast during monitoring.

Parameter: Leq

Time Slot Averaged Baselines

Time slot	Leq, 30 min	L10	L90
07:00-07:30	73.5	74.5	72.0
07:30-08:00	74.5	75.4	73.3
08:00-08:30	74.6	75.5	73.3
08:30-09:00	74.3	75.2	73.0
09:00-09:30	74.3	75.2	73.0
09:30-10:00	74.0	74.9	72.6
10:00-10:30	73.8	74.8	72.3
10:30-11:00	73.7	74.6	72.2
11:00-11:30	73.6	74.6	72.1
11:30-12:00	73.5	74.5	71.9
12:00-12:30	73.5	74.5	71.9
12:30-13:00	73.2	74.3	71.7
13:00-13:30	73.2	74.3	71.7
13:30-14:00	73.3	74.4	71.8
14:00-14:30	73.4	74.4	71.9
14:30-15:00	73.5	74.5	72.0
15:00-15:30	73.4	74.4	72.0
15:30-16:00	73.4	74.4	71.9
16:00-16:30	73.6	74.6	72.1
16:30-17:00	73.7	74.8	72.2
17:00-17:30	73.8	74.8	72.3
17:30-18:00	73.9	74.8	72.4
18:00-18:30	73.9	74.9	72.4
18:30-19:00	73.4	74.4	71.9
Average	73.7	74.7	72.3
Max	74.6	75.5	73.3
Min	73.2	74.3	71.7

Time Slot	Leq, 5min	L10	L90
19:00-19:15	73.2	74.2	71.6
	73.2	74.2	71.7
	73.0	74.1	71.4
19:15-19:30	73.0	74.0	71.4
	73.1	74.1	71.5
	72.9	74.0	71.4
19:30-19:45	73.0	74.0	71.3
	72.7	73.8	71.0
	72.8	73.9	71.0
19:45-20:00	72.8	74.0	71.1
	72.7	73.8	71.1
	72.6	73.8	70.8
20:00-20:15	72.5	73.6	70.8
	72.2	73.3	70.4
	72.3	73.5	70.5
20:15-20:30	72.9	73.6	70.6
	72.3	73.4	70.7
	72.0	73.3	70.1
20:30-20:45	71.9	73.2	70.0
	71.9	73.1	69.9
	71.9	73.1	70.0
20:45-21:00	71.7	73.0	69.6
	71.7	73.0	69.9
	71.9	73.0	70.0
21:00-21:15	72.1	73.2	70.3
	72.1	73.2	70.4
	72.1	73.3	70.3
21:15-21:30	72.2	73.3	70.4
	71.9	73.1	70.1
04.00.04.45	72.2	73.2	70.3
21:30-21:45	72.1	73.2	70.4
	72.0	73.0	70.2
04.45.00.00	72.1	73.3	70.3
21:45-22:00	72.4	73.6	70.5
	72.0	73.2	70.3
22.00 22.45	71.9	73.1	70.0
22:00-22:15	71.9	73.3	70.2
	72.0 71.9	73.2	70.1 70.0
22:15-22:30		73.1	
ZZ. 10-ZZ.3U	72.0 71.9	73.2 73.0	70.3 70.0
	71.9	73.0	70.0
22:30-22:45	72.3	73.4	70.1
ZZ.JU-ZZ.4U	72.0	73.4	70.3
	72.9	73.3 73.1	70.1
22:45-23:00	72.9	73.4	70.1
22.70-20.00	71.9	73.4	69.9
	71.9	73.2	69.9
Average	71.8	73.4	70.5
Max	73.2	74.2	70.5
Min	71.7	73.0	69.6
IVIIII	/ 1./	10.0	03.0

Time Slot	Leq, 5min	L10	L90
0700-07:15	69.8	71.5	67.3
	70.1	71.8	67.3
	70.7	71.8	68.0
07:15-07:30	70.6	72.0	68.3
	70.7	72.3	68.3
	70.9	72.5	68.8
07:30-07:45	70.8	72.3	68.3
	70.8	72.3	68.8
	70.8	72.3	68.3
07:45-08:00	71.0	72.5	68.8
	71.1	72.8	69.0
	72.2	74.4	69.0
08:00-08:15	71.4	73.0	69.3
	71.4	73.0	68.8
	71.4	72.8	69.0
08:15-08:30	71.3	72.8	69.3
	71.9	73.0	70.0
	71.7	73.0	70.0
08:30-08:45	71.9	73.3	70.0
	71.5	72.8	69.3
	72.0	73.3	69.8
08:45-09:00	71.6	73.0	69.3
	71.6	73.0	69.5
	72.3	73.8	69.8
09:00-09:15	72.1	73.5	70.0
	71.7	72.8	69.8
	72.5	73.5	70.8
09:15-09:30	72.2	73.8	70.3
	72.2	73.3	70.5
00 00 00 45	72.0	73.3	70.0
09:30-09:45	72.8	73.5	70.5
	71.9	73.0	70.0
00.45.40.00	72.3	73.3	71.0
09:45-10:00	72.3	73.5	70.0
	71.7	73.0	69.5
10:00-10:15	72.3	73.5	70.5
10:00-10:15	72.0	73.3	70.0
	72.2 72.3	73.5 73.3	70.5 70.5
10:15-10:30	72.3	73.5	70.3
10.10-10.00	72.5	73.8	70.3
	72.1	73.5	70.3
10:30-10:45	72.5	73.8	70.8
10.00 10.70	72.3	73.5	70.3
	72.4	73.5	70.5
10:45-11:00	72.2	73.3	70.5
. 5 5	72.5	73.8	70.8
	72.5	73.5	70.5
11:00-11:15	72.4	73.5	70.8
	72.2	73.5	70.0
	72.8	74.0	70.5
11:15-11:30	72.5	73.5	70.3
	72.8	74.0	71.0
	72.3	73.5	70.8
	. 2.0	. 0.0	. 5.5

11:30-11:45	72.4	73.5	70.5
11. 4 0	72.4	73.5 73.5	70.5 70.5
	72.4	73.8	70.5
11:45-12:00	72.4	73.8	70.5
	72.9 72.5	74.5	70.8
	72.6	73.5	70.8
12:00-12:15	72.8	73.5	70.8
12.00	72.8	74.0 74.0	71.0
1	72.7	74.0	71.3
12:15-12:30	72.4	74.0	71.0
12.10 12.00	72.4	73.5	71.0
	72.6	73.8	71.0
12:30-12:45	72.5	73.5	70.8
.2.30 12.70	72.3	73.3	71.0
	72.3 72.6	73.3	71.0
12:45-13:00	72.6	74.0 74.0	70.8 70.8
0 10.00	72.7	74.0 73.5	70.8
	72.4	73.5 73.8	70.8
13:00-13:15	72.5 72.5	73.8 73.8	71.0
. 5.55 10.10	72.5 72.5	73.8 73.5	70.5
	72.5	73.5	71.0
13:15-13:30	72.3 72.9	73.8 74.0	70.5 71.5
. 5. 75 10.00	72.9 72.5	74.0 73.8	71.5
	72.5 72.4	73.8 73.5	71.0
13:30-13:45	72.4 72.6	73.5	70.8
. 5.55 10.40	72.6 72.6	73.8 73.8	71.0
	72.6	73.8 74.0	70.8
13:45-14:00	72.7	74.0 73.8	71.0
10.10 17.00	72.7	73.8	71.0
	72.6	73.8	71.0
14:00-14:15	72.6	74.0	70.8
	72.5	73.8	70.8
	72.5	73.8	70.8
14:15-14:30	72.7	73.8	71.0
	72.5	73.8	70.8
	72.5	73.5	70.8
14:30-14:45	72.3	73.5	70.5
	72.6	73.8	70.8
	72.7	73.5	71.0
14:45-15:00	72.5	73.8	70.3
	72.7	74.0	71.0
<u> </u>	72.6	73.8	71.0
15:00-15:15	72.8	74.0	70.8
	72.6	73.8	70.5
<u></u>	72.5	73.5	70.8
15:15-15:30	72.5	73.5	70.8
	72.5	73.5	70.8
<u></u>	72.6	73.8	71.0
15:30-15:45	72.3	73.3	70.8
	72.5	73.8	71.0
<u></u>	72.7	73.8	71.0
15:45-16:00	72.6	73.8	70.5
	72.4	73.5	71.0
<u></u>	72.5	73.5	70.5
16:00-16:15	72.3	73.5	70.8
	72.6	73.5	70.8
<u>L</u> .	72.7	73.8	70.8
	, ,,	. 3.0	

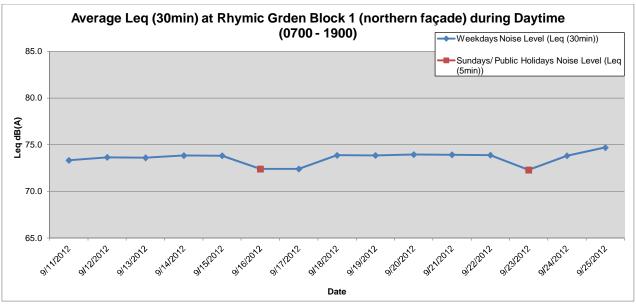
16:15-16:30	72.6	73.8	70.8
10.10-10.00	72.9	73.8	71.0
	72.4	73.8	70.3
16:30-16:45	72.4	73.6	70.5
10.00-10.40	72.7	73.8	71.3
	72.7	73.8	71.0
16:45-17:00	72.8	74.0	70.8
10.45-17.00	72.7	73.5	71.0
	72.7	74.0	70.8
17:00-17:15	72.8	74.0	71.0
17.00-17.13	72.8	73.8	71.3
	72.5	73.5	70.5
17:15-17:30	72.9	74.0	71.3
17.10 17.00	72.9	74.0	71.5
	72.8	73.8	71.0
17:30-17:45	73.0	74.3	71.5
17.00 17.40	73.0	73.8	71.5
	72.8	73.8	71.0
17:45-18:00	73.1	74.3	71.3
10 10.00	72.9	73.8	71.3
	72.9	73.8	71.5
18:00-18:15	73.3	74.3	72.0
10.00 10.10	72.8	73.8	71.3
	73.0	74.0	71.5
18:15-18:30	73.2	74.0	71.5
10.10 10.00	73.1	74.0	71.5
	72.9	74.0	71.3
18:30-18:45	72.6	73.8	71.0
	72.5	73.5	71.0
	72.6	73.5	70.8
18:45-19:00	72.6	73.8	71.0
	72.2	73.5	70.3
	72.3	73.3	70.5
19:00-19:15	72.0	73.3	70.3
	72.1	73.3	70.3
	72.3	73.5	70.3
19:15-19:30	72.3	73.0	70.8
	71.9	73.0	70.0
	71.7	73.0	70.0
19:30-19:45	71.5	72.5	69.8
	71.6	72.8	70.0
	71.6	72.8	69.5
19:45-20:00	71.6	72.8	69.8
	71.7	72.8	70.0
	71.5	72.5	69.8
20:00-20:15	71.8	73.0	70.0
	71.4	72.8	69.5
	71.6	73.0	69.5
20:15-20:30	71.4	72.5	70.0
	72.0	73.0	70.3
	71.6	72.8	70.0
20:30-20:45	71.7	72.8	70.3
	71.8	73.0	70.3
	71.9	73.0	70.0
20:45-21:00	71.6	72.5	70.0
	71.8	72.8	70.0
	72.1	73.3	70.3

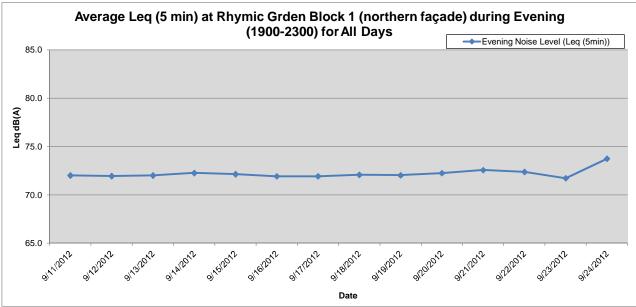
21:00-21:15	72.1	73.0	70.8
	71.9	72.8	70.3
	72.1	73.3	70.0
21:15-21:30	72.4	73.3	71.0
	72.1	73.0	70.5
	72.1	73.3	70.5
21:30-21:45	72.3	73.3	70.5
	72.3	73.0	70.8
	72.2	73.3	70.8
21:45-22:00	72.3	73.3	70.8
	72.1	73.0	70.5
	71.7	73.0	69.5
22:00-22:15	72.1	73.0	70.5
	71.8	73.0	70.0
	71.9	73.0	70.5
22:15-22:30	71.9	73.0	69.8
	72.0	73.0	70.3
	72.0	73.3	69.8
22:30-22:45	71.1	72.3	69.3
	71.8	73.0	69.3
	71.3	72.5	69.3
22:45-23:00	71.5	72.8	69.5
	72.1	72.8	69.5
	70.9	72.3	68.8
Average	72.2	73.4	70.4
Max	73.3	74.4	72.0
Min	69.8	71.5	67.3

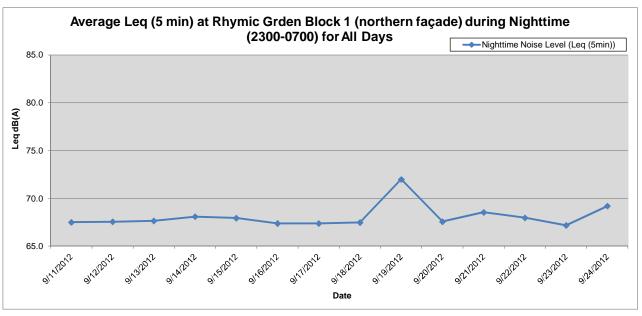
4) Night-time (for all days) Noise Level, dB(A)

Time Slot	Leq, 5min	L10	L90
23:00-23:15	72.0	73.0	69.7
	71.6	72.9	69.6
	71.4	72.7	69.6
23:15-23:30	71.6	72.9	69.6
	71.3	72.7	69.4
	71.2	72.7	69.2
23:30-23:45	71.2	72.7	69.0
	70.9	72.2	68.9
	70.9	72.4	68.6
23:45-00:00	70.9	72.4	68.9
	70.7	72.2	68.4
	70.1	71.7	67.8
00:00-00:15	70.2	71.8	67.9
	70.3	71.7	67.9
	70.1	71.8	67.6
00:15-00:30	69.8	71.4	67.3
	69.6	71.2	67.0
	69.3	70.9	66.7
00:30-00:45	69.1	70.9	66.5
	68.8	70.3	66.4
	68.8	70.5	66.1
00:45:01:00	68.4	70.2	65.7
	68.3	70.1	65.1
	67.7	69.8	64.7
01:00-01:15	67.6	69.6	64.6
	66.9	68.8	63.9
	66.6	68.4	63.8
01:15-01:30	66.5	68.6	63.3
	66.3	68.3	63.1
	66.7	68.8	62.8
01:30-01:45	65.9	68.1	62.4
	65.5	67.4	62.1
	65.4	67.6	62.0
01:45-02:00	65.4	67.7	61.5
	65.0	67.3	61.5
	64.7	66.8	60.9
02:00-02:15	65.0	67.3	61.4
	64.7	67.0	61.1
	64.8	66.9	61.3
02:15-02:30	64.6	67.0	60.8
	64.5	67.0	60.4
	64.2	66.5	60.5
02:30-02:45	64.7	66.9	60.9
	64.0	66.4	60.0
	64.1	66.3	60.2
02:45-03:00	64.6	66.7	60.3
	64.3	66.8	60.0
	64.6	66.8	60.9
03:00-03:15	63.8	65.9	60.1
	63.8	66.2	59.5
	63.4	66.0	59.3
03:15-03:30	64.0	66.2	59.9
33.10 30.00	63.7	66.2	59.3
	63.2	65.5	59.0
	00.∠	00.0	03.0

03:30-03:45	63.8	66.1	59.2
	63.5	66.1	59.3
	63.4	66.0	59.1
03:45-04:00	63.6	65.9	59.0
	63.6	66.1	59.1
	63.4	66.0	59.1
04:00-04:15	63.2	65.7	59.1
	63.7	66.1	59.7
	63.4	65.9	59.1
04:15-04:30	63.8	66.1	59.8
	63.6	66.0	59.7
	64.0	66.7	59.6
04:30-04:45	64.5	67.0	60.2
	64.2	66.7	59.6
	63.5	66.1	59.6
04:45-05:00	63.9	66.4	59.9
	64.5	67.0	60.1
	64.1	66.5	60.4
05:00-05:15	64.4	66.7	60.9
	65.2	67.5	61.0
	65.1	67.4	61.4
05:15-05:30	65.3	67.7	61.6
	65.4	67.5	62.0
	65.5	67.9	61.6
05:30-05:45	65.5	67.8	62.0
	66.3	68.5	62.9
	66.1	67.9	63.1
05:45-06:00	67.1	68.9	63.9
	67.6	69.5	64.8
	68.0	69.7	65.3
06:00-06:15	68.8	70.6	66.1
	69.2	71.0	66.3
	69.5	71.1	67.1
06:15-06:30	69.8	71.4	67.2
	70.1	71.7	67.7
	70.4	71.8	68.1
06:30-06:45	70.6	72.0	68.2
	70.9	72.4	68.8
	70.9	72.4	68.7
06:45-07:00	71.1	72.5	68.8
	71.6	73.0	69.3
	72.0	73.3	69.9
Average	67.8	69.6	65.1
Max	72.0	73.3	69.9
Min	63.2	65.5	59.0







Baseline Noise Monitoring Result

Location: NMS-CA-11 for SCL(TAW-HUH) / NMS-CA-1 for SCL(HHS) /

NM2 for SCL(MKK-HUH) No. 234-238 Chatham Road North

Baseline monitoring

period:

25/9/2012 - 9/10/2012

Site observation: Construction work of KTE was conducted in the vicinity during

the monitoring period.

Weather condition: The weather was sunny and overcast during monitoring period.

Note: A façade correction of +3dB(A) has been included in the free

field monitoring data.

Parameter: Leq

Time Slot Averaged Baselines

1) Weekdays Daytime Noise Level, dB(A)

Time slot	Leq, 30 min	L10	L90
07:00-07:30	74.5	75.9	72.1
07:30-08:00	74.6	75.9	72.3
08:00-08:30	77.8	79.7	74.9
08:30-09:00	80.4	82.4	77.3
09:00-09:30	80.5	82.4	77.6
09:30-10:00	80.6	82.5	77.9
10:00-10:30	80.4	82.3	77.4
10:30-11:00	80.2	82.1	77.2
11:00-11:30	80.0	82.0	76.9
11:30-12:00	77.2	79.2	74.1
12:00-12:30	75.6	77.6	72.6
12:30-13:00	74.2	75.9	71.6
13:00-13:30	78.9	80.9	75.8
13:30-14:00	80.0	81.9	77.0
14:00-14:30	80.2	82.2	76.9
14:30-15:00	79.7	81.8	76.4
15:00-15:30	80.0	82.1	76.4
15:30-16:00	80.1	82.3	76.7
16:00-16:30	80.2	82.3	76.8
16:30-17:00	80.2	82.3	76.6
17:00-17:30	80.2	82.3	76.6
17:30-18:00	78.8	81.0	75.2
18:00-18:30	78.6	80.9	74.5
18:30-19:00	74.6	76.7	71.5
Average	79.1	81.1	75.9
Max	80.6	82.5	77.9
Min	74.2	75.9	71.5

Noise Control Period Averaged Baselines

2) Weekdays Evening Noise Level, dB(A)

Time Slot	Leq, 5min	L10	L90
19:00-19:15	71.4	72.8	69.3
	71.8	73.2	69.7
	71.8	73.0	69.8
19:15-19:30	71.6	72.9	69.7
	71.7	72.9	69.8
	71.9	73.2	69.9
19:30-19:45	71.9	73.3	69.8
	71.9	73.3	69.6
	72.2	73.5	69.9
19:45-20:00	72.4	73.7	70.2
	72.2	73.5	69.9
	72.5	73.8	70.3
20:00-20:15	72.9	74.6	70.5
	72.9	74.3	70.6
	72.9	74.1	70.6
20:15-20:30	72.7	74.0	70.5
	72.9	74.2	70.8
	73.0	74.2	71.0
20:30-20:45	72.9	74.1	70.8
	72.8	74.2	70.9
	73.0	74.2	70.9
20:45-21:00	73.0	74.2	70.7
	73.0	74.3	70.9
	73.1	74.2	70.9
21:00-21:15	72.9	74.1	71.1
	73.1	74.4	71.0
	73.1	74.3	71.1
21:15-21:30	72.8	74.0	70.8
	73.0	74.3	70.9
	73.0	74.3	70.8
21:30-21:45	73.0	74.4	70.9
	73.1	74.4	71.1
	73.1	74.4	71.2
21:45-22:00	73.2	74.4	71.2
	73.3	74.6	71.0
	73.2	74.4	71.3
22:00-22:15	73.2	74.4	71.2
	73.1	74.3	71.0
	73.1	74.2	71.2
22:15-22:30	73.1	74.4	71.1
	73.1	74.4	71.0
	73.0	74.3	70.9
22:30-22:45	72.9	74.3	70.8
	72.9	74.2	71.0
	73.1	74.2	70.9
22:45-23:00	73.2	74.4	71.3
22.10 20.00	73.2	74.5	71.0
	73.3	74.6	71.1
Average	72.8	74.1	70.7
Max	73.3	74.6	71.3
Min	71.4	72.8	69.3

3) General Holidays (including Sundays) (0700-2300) Noise Level, dB(A)

Time Slot	Leq, 5min	L10	L90
0700-07:15	72.4	74.2	69.2
	72.8	74.5	69.5
	72.5	74.3	69.3
07:15-07:30	72.4	74.0	69.4
	72.2	74.0	69.5
	72.0	73.8	69.1
07:30-07:45	72.2	74.1	68.6
	72.2	74.0	69.0
	72.2	74.0	69.1
07:45-08:00	72.4	74.1	69.8
	72.5	74.3	69.6
	72.7	74.5	70.1
08:00-08:15	72.5	74.3	69.9
	72.1	73.8	69.5
	72.1	73.9	69.1
08:15-08:30	72.1	74.0	68.9
	72.6	74.1	69.8
	72.4	74.3	69.4
08:30-08:45	72.8	74.5	69.6
	72.4	74.1	69.8
	72.6	74.4	70.0
08:45-09:00	72.9	74.3	70.5
	73.1	74.6	70.4
	73.1	74.5	70.5
09:00-09:15	72.9	74.4	70.3
	72.8	74.4	70.1
	72.7	74.3	69.9
09:15-09:30	73.0	74.3	70.3
	73.0	74.4	70.7
	72.9	74.5	70.2
09:30-09:45	73.2	74.8	70.7
	73.1	74.6	70.6
	72.7	74.3	70.4
09:45-10:00	73.2	74.8	71.0
	73.4	74.9	70.9
	73.3	74.6	71.1
10:00-10:15	72.9	74.4	70.5
	73.1	74.4	71.3
40.45.40.00	73.3	74.8	71.0
10:15-10:30	73.1	74.5	70.4
	73.2	74.6	71.0
10.20 10.15	73.1	74.5	70.8
10:30-10:45	73.1	74.5	71.1
	73.4	75.0	70.9
10.45 11.00	73.1	74.6	70.6
10:45-11:00	73.5	74.9	71.1
	73.2	74.5	70.9
11.00 11.15	73.4	75.0	71.0
11:00-11:15	73.0	74.4	70.7
	73.3	74.6	71.0
11:15 11:20	73.2	74.6	70.9
11:15-11:30	73.1	74.3	71.3
	73.0	74.4	70.5
	73.2	74.6	70.9

73.4 74.9 71.0 73.3 74.6 70.9 11:45-12:00 73.2 74.4 71.1 73.4 74.9 70.9 73.4 74.9 70.9 73.4 74.6 71.1 73.5 74.8 71.1 73.4 74.6 71.0 12:15-12:30 73.4 74.6 71.1 73.4 74.6 71.1 73.4 74.6 71.1 73.4 74.6 71.1 73.4 74.6 71.1 73.2 74.6 71.1 73.3 74.5 71.1 73.2 74.6 71.1 73.3 74.5 71.1 73.2 74.5 71.1 73.2 74.5 71.1 73.2 74.5 71.1 73.2 74.5 71.1 73.2 74.5 71.2 73.1 74.4 71.1 13:15-13:3	11:30-11:45	73.3	74.6	71.3
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14:00-14:15 73.2 74.6 71.0 73.4 74.8 71.1 73.6 75.0 71.6 14:15-14:30 73.7 74.9 71.4 73.2 74.5 71.1 73.2 74.6 70.9 14:30-14:45 73.3 74.6 71.4 73.4 74.9 71.6 73.3 74.8 71.1 14:45-15:00 73.7 74.9 71.4 73.5 74.8 71.3 73.4 74.6 71.4 15:00-15:15 73.3 74.5 71.4 73.4 74.8 71.2 73.3 74.5 71.1 15:15-15:30 73.3 74.5 71.1 15:30-15:45 73.3 74.6 71.3 73.4 74.6 71.6 71.6 15:30-15:45 73.3 74.5 70.9 73.2 74.4 71.3 73.4 74.6 71.4 15:45-16:00 73.2 74.6 71.0 73.1 74.5 71.0		73.3	74.6	
73.4 74.8 71.1 73.6 75.0 71.6 14:15-14:30 73.7 74.9 71.4 73.2 74.5 71.1 73.2 74.6 70.9 14:30-14:45 73.3 74.6 71.4 73.4 74.9 71.6 73.3 74.8 71.1 14:45-15:00 73.7 74.9 71.4 73.5 74.8 71.3 73.4 74.6 71.4 15:00-15:15 73.3 74.5 71.4 15:15-15:30 73.3 74.5 71.1 15:15-15:30 73.3 74.6 71.3 73.4 74.6 71.0 73.4 74.6 71.6 15:30-15:45 73.3 74.5 70.9 73.2 74.4 71.3 73.4 74.6 71.6 15:45-16:00 73.2 74.6 71.0 73.1 74.5 71.0 16:00-			74.9	
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14:15-14:30 73.7 74.9 71.4 73.2 74.5 71.1 73.2 74.6 70.9 14:30-14:45 73.3 74.6 71.4 73.4 74.9 71.6 73.3 74.8 71.1 14:45-15:00 73.7 74.9 71.4 73.5 74.8 71.3 73.4 74.6 71.4 15:00-15:15 73.3 74.5 71.4 73.4 74.8 71.2 73.3 74.5 71.1 15:15-15:30 73.3 74.6 71.3 73.1 74.4 71.0 73.4 74.6 71.6 15:30-15:45 73.3 74.5 70.9 73.2 74.4 71.3 73.4 74.6 71.4 15:45-16:00 73.2 74.6 71.0 73.1 74.3 71.4 73.2 74.5 71.0 16:00-16:15 73.4 74.5 71.4 73.1 74.5 71.4 73.1 74.5 71.0 73.1 74.5 71.4 73.1 74.5 71.4 73.1 74.5 <td< th=""><th></th><th></th><th>_</th><th></th></td<>			_	
73.2 74.5 71.1 73.2 74.6 70.9 14:30-14:45 73.3 74.6 71.4 73.4 74.9 71.6 73.3 74.8 71.1 14:45-15:00 73.7 74.9 71.4 73.5 74.8 71.3 73.4 74.6 71.4 15:00-15:15 73.3 74.5 71.4 73.4 74.8 71.2 73.3 74.5 71.1 15:15-15:30 73.3 74.6 71.3 73.1 74.4 71.0 73.4 74.6 71.6 15:30-15:45 73.3 74.5 70.9 73.2 74.4 71.3 73.4 74.6 71.4 15:45-16:00 73.2 74.6 71.0 73.1 74.3 71.4 73.2 74.5 71.0 16:00-16:15 73.4 74.5 71.4 73.1 74.5 71.4 73.1 74.5 71.0	44454400			
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14:30-14:45 73.3 74.6 71.4 73.4 74.9 71.6 73.3 74.8 71.1 14:45-15:00 73.7 74.9 71.4 73.5 74.8 71.3 73.4 74.6 71.4 15:00-15:15 73.3 74.5 71.4 73.4 74.8 71.2 73.3 74.5 71.1 15:15-15:30 73.3 74.6 71.3 71.1 15:30-15:45 73.3 74.6 71.3 71.6 15:30-15:45 73.3 74.5 70.9 73.2 74.4 71.3 73.4 74.6 71.4 71.3 71.4 71.4 71.0 73.2 74.6 71.0 71.4 73.2 74.5 71.0 73.2 74.5 71.0 73.2 74.5 71.0 73.2 74.5 71.0 73.4 74.5 71.4 73.4 74.5 71.4 73.1 74.3 71.1 74.3 71.1 74.3 71.1 74.5 71.4 74.5 71.4 74.5 71.4				
73.4 74.9 71.6 73.3 74.8 71.1 14:45-15:00 73.7 74.9 71.4 73.5 74.8 71.3 73.4 74.6 71.4 15:00-15:15 73.3 74.5 71.4 73.4 74.8 71.2 73.3 74.5 71.1 15:15-15:30 73.3 74.6 71.3 73.1 74.4 71.0 73.4 74.6 71.6 15:30-15:45 73.3 74.5 70.9 73.2 74.4 71.3 73.4 74.6 71.4 15:45-16:00 73.2 74.6 71.0 73.1 74.3 71.4 73.2 74.5 71.0 16:00-16:15 73.4 74.5 71.4 73.1 74.3 71.4 73.1 74.3 71.1	14.20 14.45			
73.3 74.8 71.1 14:45-15:00 73.7 74.9 71.4 73.5 74.8 71.3 73.4 74.6 71.4 15:00-15:15 73.3 74.5 71.4 73.4 74.8 71.2 73.3 74.5 71.1 15:15-15:30 73.3 74.6 71.3 73.1 74.4 71.0 73.4 74.6 71.6 15:30-15:45 73.3 74.5 70.9 73.2 74.4 71.3 73.4 74.6 71.4 15:45-16:00 73.2 74.6 71.0 73.1 74.3 71.4 73.2 74.5 71.0 16:00-16:15 73.4 74.5 71.4 73.1 74.3 71.4 73.1 74.3 71.4	14:30-14:45			
14:45-15:00 73.7 74.9 71.4 73.5 74.8 71.3 73.4 74.6 71.4 15:00-15:15 73.3 74.5 71.4 73.4 74.8 71.2 73.3 74.5 71.1 15:15-15:30 73.3 74.6 71.3 73.1 74.4 71.0 73.4 74.6 71.6 15:30-15:45 73.3 74.5 70.9 73.2 74.4 71.3 73.4 74.6 71.4 15:45-16:00 73.2 74.6 71.0 73.1 74.3 71.4 73.2 74.5 71.0 16:00-16:15 73.4 74.5 71.4 73.1 74.3 71.1				
73.5 74.8 71.3 73.4 74.6 71.4 15:00-15:15 73.3 74.5 71.4 73.4 74.8 71.2 73.3 74.5 71.1 15:15-15:30 73.3 74.6 71.3 73.1 74.4 71.0 73.4 74.6 71.6 15:30-15:45 73.3 74.5 70.9 73.2 74.4 71.3 73.4 74.6 71.4 15:45-16:00 73.2 74.6 71.4 73.2 74.5 71.0 73.1 74.3 71.4 73.2 74.5 71.0 16:00-16:15 73.4 74.5 71.4	14:45 15:00		_	
73.4 74.6 71.4 15:00-15:15 73.3 74.5 71.4 73.4 74.8 71.2 73.3 74.5 71.1 15:15-15:30 73.3 74.6 71.3 73.1 74.4 71.0 73.4 74.6 71.6 15:30-15:45 73.3 74.5 70.9 73.2 74.4 71.3 73.4 74.6 71.4 15:45-16:00 73.2 74.6 71.0 73.1 74.3 71.4 73.2 74.5 71.0 16:00-16:15 73.4 74.5 71.4 73.1 74.3 71.1	14.45-15.00			
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73.4 74.8 71.2 73.3 74.5 71.1 15:15-15:30 73.3 74.6 71.3 73.1 74.4 71.0 73.4 74.6 71.6 15:30-15:45 73.3 74.5 70.9 73.2 74.4 71.3 73.4 74.6 71.4 15:45-16:00 73.2 74.6 71.0 73.1 74.3 71.4 73.2 74.5 71.0 16:00-16:15 73.4 74.5 71.4 73.1 74.3 71.1	15:00-15:15			
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73.4 74.6 71.6 15:30-15:45 73.3 74.5 70.9 73.2 74.4 71.3 73.4 74.6 71.4 15:45-16:00 73.2 74.6 71.0 73.1 74.3 71.4 73.2 74.5 71.0 16:00-16:15 73.4 74.5 71.0				
15:30-15:45 73.3 74.5 70.9 73.2 74.4 71.3 73.4 74.6 71.4 15:45-16:00 73.2 74.6 71.0 73.1 74.3 71.4 73.2 74.5 71.0 16:00-16:15 73.4 74.5 71.4 73.1 74.3 71.1				
73.2 74.4 71.3 73.4 74.6 71.4 15:45-16:00 73.2 74.6 71.0 73.1 74.3 71.4 73.2 74.5 71.0 16:00-16:15 73.4 74.5 71.4 73.1 74.3 71.1	15:30-15:45		_	
73.4 74.6 71.4 15:45-16:00 73.2 74.6 71.0 73.1 74.3 71.4 73.2 74.5 71.0 16:00-16:15 73.4 74.5 71.4 73.1 74.3 71.1			_	
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73.1 74.3 71.4 73.2 74.5 71.0 16:00-16:15 73.4 74.5 71.4 73.1 74.3 71.1	15:45-16:00			
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16:00-16:15 73.4 74.5 71.4 73.1 74.3 71.1				
73.1 74.3 71.1	16:00-16:15			
[/3.2		73.2	74.4	71.0

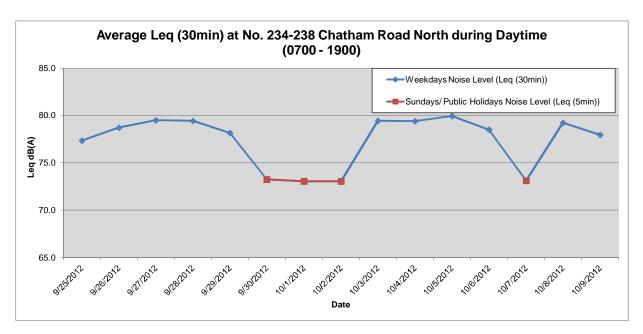
10.1E 10.00	70.0	745	74.0
16:15-16:30	73.2	74.5	71.3
	73.2	74.5	71.1
40.00.40.45	73.3	74.6	71.0
16:30-16:45	73.1	74.3	71.3
	73.3	74.6	71.3
40.45.47.00	73.3	74.9	70.9
16:45-17:00	73.3	74.6	71.1
	73.4	74.5	71.5
47.00 47.45	73.5	74.9	71.6
17:00-17:15	73.2	74.5	71.1
	73.5	74.8	71.2
17:15-17:30	73.4	74.6	71.3
17:15-17:30	73.1	74.4	71.0
	73.2	74.4	71.1
17:30-17:45	73.2	74.4	71.0
17:30-17:45	73.2	74.4	71.1
	73.1	74.4	71.0 71.4
17:45-18:00	73.4 73.4	74.5 74.6	71.4
17:45-18:00	73.4	74.6 74.5	71.3
	73.4	74.5 75.0	71.4
18:00-18:15	73.4	75.0 74.5	71.1
16.00-16.15	73.3	74.5 74.1	71.4
	73.1	74.1	70.9
18:15-18:30	73.3	74.5	70.9
10.10-10.30	73.0	74.3	71.1
	73.2	74.3	70.9
18:30-18:45	73.0	74.4	71.1
10.30-10.43	73.0	74.4	70.9
	73.0	74.3	71.1
18:45-19:00	73.0	74.4	70.9
10.40-13.00	73.0	74.1	71.0
	73.2	74.5	71.3
19:00-19:15	73.1	74.4	70.9
10.00 10.10	73.2	74.5	70.9
	73.0	74.3	70.6
19:15-19:30	73.1	74.6	70.8
	72.8	74.3	70.4
	73.0	74.4	70.5
19:30-19:45	73.1	74.4	70.7
	73.3	74.6	70.8
	72.9	74.4	70.6
19:45-20:00	73.0	74.1	70.9
	73.2	74.6	70.9
	73.1	74.5	70.5
20:00-20:15	72.7	74.1	70.4
	73.1	74.4	70.8
	73.3	74.5	71.1
20:15-20:30	73.0	74.4	70.8
	73.0	74.5	70.8
	72.8	74.3	70.6
20:30-20:45	73.1	74.6	70.8
	73.6	75.3	70.9
	73.7	75.2	71.4
20:45-21:00	73.5	75.3	71.0
	73.4	74.8	71.1
	73.4	75.1	71.1

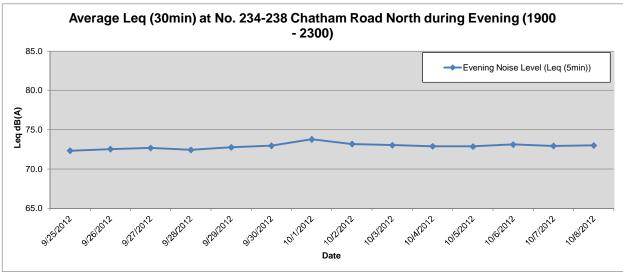
21:00-21:15	73.4	75.0	71.0
	73.3	74.8	70.8
	73.1	74.5	70.9
21:15-21:30	73.2	74.7	70.9
	73.4	74.5	71.4
	73.3	74.5	71.3
21:30-21:45	72.9	74.3	70.8
	73.3	74.5	71.0
	73.6	75.1	71.4
21:45-22:00	73.6	74.8	71.3
	73.4	74.8	71.1
	73.4	74.8	71.3
22:00-22:15	73.3	74.8	70.9
	73.3	74.6	70.9
	73.2	74.5	71.3
22:15-22:30	73.5	75.0	71.3
	73.7	75.1	71.5
	73.5	74.8	71.4
22:30-22:45	73.2	74.5	71.0
	73.3	74.7	70.9
	73.4	74.8	71.2
22:45-23:00	73.1	74.5	70.8
	73.2	74.8	70.9
	73.3	74.6	71.3
Average	73.1	74.5	70.9
Max	73.7	75.3	71.6
Min	72.0	73.8	68.6

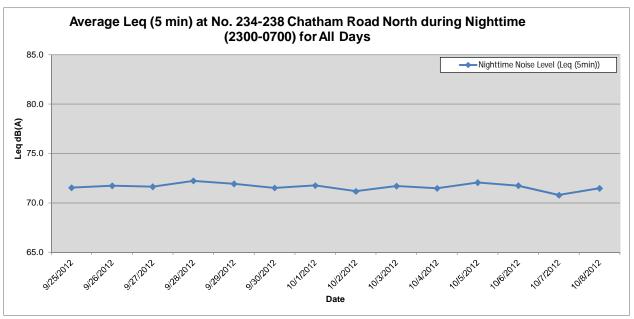
4) Night-time (for all days) Noise Level, dB(A)

Time Slot	Leq, 5min	L10	L90
23:00-23:15	73.3	74.6	71.2
	73.2	74.5	71.2
	73.3	74.6	71.2
23:15-23:30	73.3	74.6	71.2
	73.3	74.7	71.1
	73.2	74.6	71.0
23:30-23:45	73.0	74.3	71.0
	73.2	74.6	71.0
	73.2	74.5	70.9
23:45-00:00	73.3	74.8	71.1
	73.0	74.3	70.8
	73.3	74.6	71.1
00:00-00:15	73.2	74.4	71.1
	73.2	74.5	71.0
	73.2	74.5	70.9
00:15-00:30	73.0	74.4	70.8
	72.9	74.2	70.7
	72.8	74.2	70.4
00:30-00:45	72.6	74.2	70.2
	72.5	73.9	69.7
	72.5	74.0	70.1
00:45:01:00	72.4	74.0	69.6
	72.1	73.7	69.5
	72.2	73.8	69.5
01:00-01:15	72.9	73.5	69.1
	72.0	73.6	69.1
	71.8	73.4	69.1
01:15-01:30	71.6	73.3	68.6
	71.7	73.3	68.9
	71.5	73.2	68.6
01:30-01:45	71.3	73.0	68.4
	71.2	72.9	68.2
	71.3	73.0	68.1
01:45-02:00	71.4	73.1	68.1
	71.1	72.9	67.7
	71.1	72.8	68.2
02:00-02:15	71.1	72.8	67.9
	71.2	72.8	67.9
	71.0	72.8	67.9
02:15-02:30	70.7	72.5	67.6
	70.8	72.6	67.4
	70.8	72.7	67.6
02:30-02:45	70.8	72.8	67.3
	70.7	72.7	66.8
	70.7	72.7	67.3
02:45-03:00	70.5	72.4	67.0
	70.5	72.5	66.8
	70.5	72.5	66.7
03:00-03:15	70.6	72.5	67.1
	70.6	72.5	67.1
	70.2	72.1	66.5
03:15-03:30	70.4	72.4	66.4
	70.5	72.5	66.7
	70.0	72.1	66.3

03:30-03:45	70.0	72.1	66.1
	70.1	72.1	66.4
	70.2	72.2	66.2
03:45-04:00	70.4	72.5	66.6
	70.1	72.1	66.3
	69.9	72.0	66.0
04:00-04:15	70.1	72.1	66.1
	69.9	72.0	65.9
	70.2	72.4	66.2
04:15-04:30	70.2	72.3	65.6
	70.1	72.2	66.2
	69.8	71.9	65.9
04:30-04:45	69.7	72.0	65.6
	70.1	72.2	66.2
	69.9	72.0	65.7
04:45-05:00	70.2	72.3	66.1
	70.3	72.5	66.1
	70.1	72.2	66.1
05:00-05:15	70.2	72.4	66.0
	70.2	72.3	65.9
	70.2	72.2	66.3
05:15-05:30	70.7	72.9	66.7
	70.5	72.7	66.7
	70.7	72.7	66.7
05:30-05:45	70.6	72.7	66.5
	70.6	72.7	66.7
	70.9	73.1	67.0
05:45-06:00	71.1	73.0	67.3
	70.9	73.0	67.1
	71.2	73.2	67.6
06:00-06:15	71.1	73.2	67.5
	71.6	73.5	67.9
	71.8	73.8	68.4
06:15-06:30	72.3	74.2	69.1
	72.4	74.1	69.3
	72.5	74.2	69.5
06:30-06:45	72.4	74.2	69.3
06:45-07:00	73.0	74.7	70.2
	73.0	74.7	70.0
	73.2	74.9	70.5
	73.5	75.1	70.9
	73.5	75.0	71.1
Average	71.6	73.4	68.6
Max	73.5	75.1	71.2
Min	69.7	71.9	65.6







Baseline Noise Monitoring Result

Location: NM1 for SCL (MKK-HUH) Carmel Secondary School (South

Block)

Baseline

monitoring 10/5/2012 - 24/5/2012

Site Observation: No construction works were conducted in the vicinity during

the monitoring period.

Weather Rainfall was observed throughout the monitoring period. **condition:** Amber rainstorm warning signal was hoisted between 0855

and 1045 hrs on 18 May. Given the short period of rainstorm, it is considered that the data collected on 18 May remains

valid.

Parameter: Leq

Time Slot Averaged Baselines

1) Weekdays Daytime Noise Level, dB(A)

Time slot	Leq, 30 min	L10	L90
07:00-07:30	67.1	68.0	65.4
07:30-08:00	67.5	68.6	65.9
08:00-08:30	68.4	70.1	66.1
08:30-09:00	67.7	68.6	66.2
09:00-09:30	67.7	68.7	66.2
09:30-10:00	68.2	69.3	66.6
10:00-10:30	67.7	68.6	66.2
10:30-11:00	67.8	69.0	66.1
11:00-11:30	67.6	68.6	66.1
11:30-12:00	67.6	68.5	66.1
12:00-12:30	67.7	68.7	66.1
12:30-13:00	68.9	70.4	66.7
13:00-13:30	68.4	69.5	66.8
13:30-14:00	68.0	69.0	66.5
14:00-14:30	67.6	68.6	66.2
14:30-15:00	67.4	68.3	66.0
15:00-15:30	68.3	69.5	66.6
15:30-16:00	69.8	71.5	67.1
16:00-16:30	70.4	72.6	67.3
16:30-17:00	70.0	71.9	67.2
17:00-17:30	70.0	71.8	67.1
17:30-18:00	69.9	72.1	66.9
18:00-18:30	68.3	69.5	66.6
18:30-19:00	67.8	68.8	66.3
Average	68.4	69.8	66.5
Max	70.4	72.6	67.3
Min	67.1	68.0	65.4

Noise Control Period Averaged Baselines

2) Weekdays Evening Noise Level, dB(A)

Time Slot	Leq, 5min	L10	L90
19:00-19:15	67.4	68.3	65.9
	67.2	68.2	65.7
	67.1	68.0	65.7
19:15-19:30	67.2	68.2	65.8
	67.2	68.2	65.6
	67.3	68.1	65.8
19:30-19:45	67.4	68.5	65.8
	67.6	68.9	65.9
	67.5	68.6	65.9
19:45-20:00	67.6	68.6	66.0
	67.4	68.3	66.1
	67.4	68.4	66.0
20:00-20:15	67.5	68.6	66.0
	67.4	68.6	65.7
	67.3	68.3	65.7
20:15-20:30	67.2	68.2	65.8
	67.4	68.3	65.8
	67.1	68.1	65.6
20:30-20:45	67.1	68.0	65.6
	67.0	68.1	65.6
	67.0	68.0	65.4
20:45-21:00	67.4	68.5	65.7
_00	67.3	68.2	65.9
	67.3	68.2	65.9
21:00-21:15	67.3	68.2	65.9
	67.1	68.2	65.5
	67.0	68.0	65.5
21:15-21:30	67.1	68.0	65.7
	66.8	67.8	65.5
	66.9	68.1	65.6
21:30-21:45	67.0	67.9	65.6
	66.9	67.9	65.5
	67.0	68.0	65.7
21:45-22:00	67.0	67.9	65.5
	67.1	68.2	65.6
	66.9	67.9	65.4
22:00-22:15	67.1	68.0	65.7
	67.2	68.2	65.7
	67.1	68.0	65.8
22:15-22:30	67.2	68.1	65.8
	67.0	67.9	65.7
	66.9	67.8	65.5
22:30-22:45	66.9	67.9	65.6
	67.0	68.0	65.5
	66.9	67.9	65.4
22:45-23:00	66.8	67.6	65.4
	66.9	67.9	65.4
	66.7	67.6	65.3
Average	67.1	68.1	65.7
Max	67.6	68.9	66.1
Min	66.7	67.6	65.3

3) General Holidays (including Sundays) (0700-2300) Noise Level, dB(A)

Time Slot	Leq, 5min	L10	L90
0700-07:15	66.7	67.3	64.0
	65.6	67.0	63.8
	66.2	67.0	63.8
07:15-07:30	65.8	66.8	64.3
	66.1	67.8	64.0
	65.9	67.3	64.3
07:30-07:45	66.0	67.0	64.3
	66.0	67.3	64.3
	66.5	67.3	64.3
07:45-08:00	66.0	67.0	64.3
	66.3	67.3	64.8
	66.5	67.5	64.8
08:00-08:15	66.2	67.0	64.8
	66.2	67.3	64.8
	66.3	67.5	64.3
08:15-08:30	66.2	67.3	64.8
	66.7	67.8	65.0
	66.4	67.5	65.0
08:30-08:45	66.6	68.0	65.0
	66.5	67.5	64.8
	66.7	67.8	65.3
08:45-09:00	66.8	67.8	65.5
	67.1	68.0	65.5
	67.0	68.0	65.3
09:00-09:15	66.8	67.8	65.3
	67.1	68.0	65.8
	66.7	67.8	65.3
09:15-09:30	66.7	67.5	65.3
	67.3	68.3	66.0
	67.1	68.0	65.5
09:30-09:45	66.9	67.8	65.3
	67.7	69.1	65.8
	69.1	70.3	66.9
09:45-10:00	67.5	68.3	65.8
	67.7	68.5	66.0
	67.5	68.3	66.3
10:00-10:15	67.4	68.0	66.0
	67.2	68.3	65.5
	68.9	68.0	65.8
10:15-10:30	67.4	68.5	65.8
	67.2	68.3	65.8
	67.1	68.0	65.8
10:30-10:45	67.2	68.0	65.8
	67.2	68.0	66.0
	67.3	68.3	65.8
10:45-11:00	67.5	68.3	66.0
	68.1	69.5	66.0
	67.7	68.5	66.3
11:00-11:15	68.0	68.8	66.3
	67.6	68.5	66.3
	67.3	68.0	66.3
11:15-11:30	67.7	68.5	66.3
	67.7	68.5	66.3
	67.7	68.3	66.5

67.7 68.5 66.0 67.6 68.3 66.3 67.2 68.0 65.8 67.0 68.0 65.8 67.0 68.0 65.3 67.1 68.5 65.8 67.0 68.0 65.3 67.1 68.5 65.8 67.0 68.0 65.3 67.1 68.5 65.8 66.9 67.8 65.5 66.9 67.8 65.5 67.1 68.0 66.0 67.2 68.0 65.3 67.1 68.0 66.0 67.3 68.3 66.0 67.3 68.3 66.0 67.3 68.3 66.0 67.0 67.8 65.8 67.0 67.8 65.8 67.0 67.8 65.8 67.0 68.0 65.5 67.2 68.0 65.8 67.0 68.0 65.5 67.2 68.0 65.8 67.0 68.0 65.5 67.2 68.0 65.8 67.0 68.0 65.5 67.2 68.0 65.8 67.3 68.3 66.0 67.5 68.3 66.0 67.5 68.3 66.0 67.5 68.3 66.0 68.2 68.5 66.0 67.5 68.8 65.8 67.3 68.0 65.8 68.0 69.6 66.0 68.5 68.8 66.0 68.5 68.8 66.0 68.0 69.6 66.0 68.1 69.3 66.3 68.0 69.4 66.3 68.0 69.4 66.3 68.0 69.3 66.3 68.0 69.3 66.3 68.0 69.3 66.3 68.0 69.3 66.3 68.1 69.3 66.3 68.1 69.3 66.3 68.1 69.6 66.3 68.2 68.5 69.0 66.5 69.1 60.3 69.2 71.7 66.8 68.3 69.9 66.0 68.3 69.9 66.0 68.3 69.9 66.0 68.3 69.9 66.0	11:30-11:45	67.3	68.3	66.0
67.6 68.3 66.3 67.2 68.0 65.8 67.0 68.0 65.8 67.0 68.0 65.3 67.0 68.0 65.3 67.5 68.5 65.8 67.5 68.5 65.8 67.5 68.5 65.8 67.5 68.5 65.8 67.2 68.0 65.3 67.2 68.0 65.3 67.5 68.5 65.8 67.5 68.5 65.8 67.2 68.0 65.5 67.3 68.3 66.8 67.1 68.0 66.0 67.3 68.3 66.0 67.3 68.3 66.0 67.3 68.3 66.0 67.0 67.8 65.5 67.0 67.8 65.8 67.0 67.8 65.8 67.0 67.8 65.8 67.0 67.2 68.0 65.5 67.2 68.0 65.5 67.2 68.0 65.5 67.2 68.0 65.5 67.2 68.0 65.5 67.2 68.0 65.5 67.2 68.0 65.5 67.2 68.0 65.5 67.2 68.0 65.5 67.3 68.3 66.0 68.2 68.5 66.0 67.5 68.3 66.0 67.5 68.3 66.0 67.5 68.8 66.0 68.0 69.6 66.0 68.0 69.6 66.0 68.0 69.6 66.0 68.0 69.4 66.3 14:15-14:30 68.5 69.6 66.3 68.0 69.3 66.3 68.0 69.3 66.3 68.1 69.3 66.3 68.1 69.3 66.3 68.1 69.3 66.3 68.1 69.3 66.3 68.1 69.3 66.3 68.1 69.3 66.3 68.1 69.3 66.3 68.1 69.3 66.3 68.1 69.3 66.3 68.1 69.3 66.3 68.1 69.3 66.3 68.1 69.3 66.3 68.1 69.3 66.3 68.1 69.3 66.3 68.1 69.3 66.3 68.1 69.3 66.3 68.1 69.3 66.3 68.1 69.3 66.3 68.3 69.3 66.3 68.3 69.3 66.3 68.3 69.3 66.3 68.3 69.3 66.3 68.3 69.3 66.3 68.3 69.3 66.3 68.3 69.3 66.3 68.3 69.3 66.3 68.3 69.3 66.3 68.3 69.4 66.5 68.6 69.1 66.3 68.6 69.1 66.3 68.7 69.8 69.1 66.3 68.8 69.1 66.3 68.9 69.1 66.3 68.0 69.4 66.5 68.0 69.5 69.6 68.0 69.0 66.0 68.3 69.9 66.0 68.3 69.9 66.0 68.3 69.9 66.0 68.3 69.9 66.0 68.3 69.9 66.0 68.5 68.0 69.0 66.0 68.6 69.1 66.3 68.7 6	11.50-11.45			
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13:00-13:15 67.3 68.2 68.5 66.0 67.5 68.3 66.0 67.5 68.3 66.0 13:15-13:30 67.4 68.5 66.0 66.0 67.5 68.8 65.8 67.3 68.0 65.8 65.8 65.8 66.0 65.8 66.0 65.8 66.0 66.8 66.0 66.8 66.0 66.8 66.0 66.0 66.8 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.3 66.0 66.0 66.3		67.0	68.0	65.5
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67.5 68.3 66.0 13:15-13:30 67.4 68.5 66.0 67.5 68.8 65.8 67.3 68.0 65.8 13:30-13:45 67.6 68.8 66.0 68.0 69.6 66.0 68.5 68.8 66.0 68.0 69.3 66.3 68.0 69.6 66.0 69.5 71.3 66.3 14:00-14:15 68.9 70.3 66.8 68.1 69.3 66.0 68.0 69.4 66.3 14:15-14:30 68.5 69.6 66.3 14:30-14:45 68.1 69.6 66.3 14:30-14:45 68.1 69.3 66.5 68.1 69.6 66.3 14:45-15:00 68.4 69.8 66.8 69.1 70.4 67.3 69.9 71.4 68.3 15:00-15:15 69.8 70.9 68.1 71.0 </th <th>13:00-13:15</th> <th>67.3</th> <th>68.3</th> <th>66.0</th>	13:00-13:15	67.3	68.3	66.0
13:15-13:30 67.4 68.5 66.0 67.5 68.8 65.8 67.3 68.0 65.8 13:30-13:45 67.6 68.8 66.0 68.0 69.6 66.0 68.5 68.8 66.0 68.0 69.3 66.3 68.0 69.6 66.0 69.5 71.3 66.3 68.0 69.6 66.0 69.5 77.3 66.8 68.0 69.4 66.3 68.1 69.3 66.0 68.0 69.4 66.3 68.1 69.3 66.5 68.1 69.6 66.3 14:30-14:45 68.1 69.3 66.5 68.1 69.6 66.3 14:45-15:00 68.4 69.8 66.3 14:45-15:00 68.4 69.8 66.3 69.9 71.4 68.3 69.9 71.4 68.3 15:15-15:30 68.9 70.9 68.1 71.0 72.9		68.2	68.5	66.0
67.5 68.8 65.8 67.3 68.0 65.8 13:30-13:45 67.6 68.8 66.0 68.0 69.6 66.0 68.5 68.8 66.0 13:45-14:00 68.0 69.3 66.3 68.0 69.6 66.0 68.0 69.6 66.0 69.5 71.3 66.3 68.1 69.3 66.3 68.1 69.3 66.0 68.0 69.4 66.3 68.1 69.3 66.3 68.1 69.6 66.3 68.1 69.6 66.3 68.1 69.6 66.3 14:30-14:45 68.1 69.3 66.5 68.1 69.6 66.3 14:45-15:00 68.4 69.8 66.8 69.1 70.4 67.3 69.9 71.4 68.3 15:15-15:30 68.9 70.9 68.1 70.0 <th></th> <th>67.5</th> <th>68.3</th> <th>66.0</th>		67.5	68.3	66.0
67.3 68.0 65.8 13:30-13:45 67.6 68.8 66.0 68.0 69.6 66.0 68.5 68.8 66.0 13:45-14:00 68.0 69.3 66.3 68.0 69.6 66.0 69.5 71.3 66.3 68.9 70.3 66.8 68.1 69.3 66.0 68.0 69.4 66.3 68.0 69.4 66.3 68.1 69.6 66.3 68.1 69.6 66.3 68.1 69.6 66.3 68.1 69.6 66.3 68.1 69.6 66.3 68.1 69.6 66.3 14:30-14:45 68.1 69.3 66.5 67.8 69.0 66.3 14:45-15:00 68.4 69.8 66.8 69.1 70.4 67.3 69.9 71.4 68.3 15:15-15:30 68.9 <th>13:15-13:30</th> <th>67.4</th> <th>68.5</th> <th>66.0</th>	13:15-13:30	67.4	68.5	66.0
13:30-13:45 67.6 68.8 66.0 68.0 69.6 66.0 68.5 68.8 66.0 13:45-14:00 68.0 69.3 66.3 68.0 69.6 66.0 69.5 71.3 66.3 14:00-14:15 68.9 70.3 66.8 68.1 69.3 66.0 68.0 69.4 66.3 68.0 69.4 66.3 68.9 70.8 66.5 68.1 69.6 66.3 68.1 69.6 66.3 68.1 69.3 66.5 68.1 69.3 66.5 68.0 69.3 66.5 67.8 69.0 66.3 14:45-15:00 68.4 69.8 66.8 69.1 70.4 67.3 69.9 71.4 68.3 15:00-15:15 69.8 70.9 68.1 70.0 70.3 68.1 15:15-15:30 68.9 70.3 66.8 69.2 71.7		67.5	68.8	65.8
68.0 69.6 66.0 68.5 68.8 66.0 13:45-14:00 68.0 69.3 66.3 68.0 69.6 66.0 69.5 71.3 66.3 14:00-14:15 68.9 70.3 66.8 68.1 69.3 66.0 68.0 69.4 66.3 14:15-14:30 68.5 69.6 66.3 68.9 70.8 66.5 68.1 69.6 66.3 14:30-14:45 68.1 69.3 66.5 68.1 69.3 66.5 68.0 69.3 66.5 67.8 69.0 66.3 14:45-15:00 68.4 69.8 66.8 69.1 70.4 67.3 69.9 71.4 68.3 15:00-15:15 69.8 70.9 68.1 70.0 70.3 68.1 15:15-15:30 68.9 70.3 66.8 69.2 71.7		67.3	68.0	65.8
68.5 68.8 66.0 13:45-14:00 68.0 69.3 66.3 68.0 69.6 66.0 69.5 71.3 66.3 14:00-14:15 68.9 70.3 66.8 68.1 69.3 66.0 68.0 69.4 66.3 68.9 70.8 66.5 68.1 69.6 66.3 68.9 70.8 66.5 68.1 69.6 66.3 14:30-14:45 68.1 69.3 66.5 68.0 69.3 66.5 68.0 69.3 66.5 67.8 69.0 66.3 14:45-15:00 68.4 69.8 66.8 69.1 70.4 67.3 69.9 71.4 68.3 15:00-15:15 69.8 70.9 68.1 70.0 70.3 68.1 70.0 70.3 66.8 15:15-15:30 68.9 70.3 66.8	13:30-13:45	67.6	68.8	66.0
13:45-14:00 68.0 69.3 66.3 68.0 69.6 66.0 69.5 71.3 66.3 14:00-14:15 68.9 70.3 66.8 68.1 69.3 66.0 68.0 69.4 66.3 14:15-14:30 68.5 69.6 66.3 68.9 70.8 66.5 68.1 69.6 66.3 14:30-14:45 68.1 69.3 66.5 67.8 69.0 66.3 14:45-15:00 68.4 69.8 66.8 69.1 70.4 67.3 69.9 71.4 68.3 15:00-15:15 69.8 70.9 68.1 70.0 70.3 68.1 15:15-15:30 68.9 70.3 66.8 68.3 69.2 71.7 66.8 68.0 69.0 66.5 68.6 70.1 66.8 68.0 69.4 66.5 15:45-16:00 67.9 69.1 66.3 68.3 69.9 6		68.0	69.6	66.0
68.0 69.6 66.0 69.5 71.3 66.3 14:00-14:15 68.9 70.3 66.8 68.1 69.3 66.0 68.0 69.4 66.3 14:15-14:30 68.5 69.6 66.3 68.9 70.8 66.5 68.1 69.6 66.3 14:30-14:45 68.1 69.3 66.3 68.0 69.3 66.3 68.0 69.3 66.5 67.8 69.0 66.3 14:45-15:00 68.4 69.8 66.8 69.1 70.4 67.3 69.9 71.4 68.3 15:00-15:15 69.8 70.9 68.1 71.0 72.9 68.3 70.0 70.3 66.8 68.3 69.3 66.3 68.3 69.3 66.3 15:30-15:45 68.0 69.0 66.5 68.6 70.1 66.8		68.5	68.8	66.0
69.5 71.3 66.3 14:00-14:15 68.9 70.3 66.8 68.1 69.3 66.0 68.0 69.4 66.3 14:15-14:30 68.5 69.6 66.3 68.9 70.8 66.5 68.1 69.6 66.3 14:30-14:45 68.1 69.3 66.5 68.0 69.3 66.5 67.8 69.0 66.3 14:45-15:00 68.4 69.8 66.8 69.1 70.4 67.3 69.9 71.4 68.3 15:00-15:15 69.8 70.9 68.1 70.0 70.3 68.1 15:15-15:30 68.9 70.3 66.8 68.3 69.3 66.3 69.2 71.7 66.8 68.0 69.0 66.5 68.6 70.1 66.8 68.0 69.4 66.5 15:45-16:00 67.9 69.1 66.3 68.3 69.9 66.0 68.3	13:45-14:00	68.0	69.3	66.3
14:00-14:15 68.9 70.3 66.8 68.1 69.3 66.0 68.0 69.4 66.3 14:15-14:30 68.5 69.6 66.3 68.9 70.8 66.5 68.1 69.6 66.3 14:30-14:45 68.1 69.3 66.5 68.0 69.3 66.5 67.8 69.0 66.3 14:45-15:00 68.4 69.8 66.8 69.1 70.4 67.3 69.9 71.4 68.3 15:00-15:15 69.8 70.9 68.1 71.0 72.9 68.3 70.0 70.3 68.1 15:15-15:30 68.9 70.3 66.8 68.3 69.3 66.3 69.2 71.7 66.8 15:30-15:45 68.0 69.0 66.5 68.6 70.1 66.8 68.0 69.4 66.5 15:45-16:00 67.9 69.1 66.3 68.3 69.9 66.0		68.0	69.6	66.0
68.1 69.3 66.0 68.0 69.4 66.3 14:15-14:30 68.5 69.6 66.3 68.9 70.8 66.5 68.1 69.6 66.3 14:30-14:45 68.1 69.3 66.3 68.0 69.3 66.5 67.8 69.0 66.3 14:45-15:00 68.4 69.8 66.8 69.1 70.4 67.3 69.9 71.4 68.3 15:00-15:15 69.8 70.9 68.1 71.0 72.9 68.3 70.0 70.3 68.1 15:15-15:30 68.9 70.3 66.8 68.3 69.3 66.3 69.2 71.7 66.8 15:30-15:45 68.0 69.0 66.5 68.6 70.1 66.8 68.0 69.4 66.5 15:45-16:00 67.9 69.1 66.3 68.3 69.9 66.0 68.3 69.9 66.0 68.3		69.5	71.3	66.3
68.0 69.4 66.3 14:15-14:30 68.5 69.6 66.3 68.9 70.8 66.5 68.1 69.6 66.3 14:30-14:45 68.1 69.3 66.3 68.0 69.3 66.5 67.8 69.0 66.3 14:45-15:00 68.4 69.8 66.8 69.1 70.4 67.3 69.9 71.4 68.3 15:00-15:15 69.8 70.9 68.1 71.0 72.9 68.3 70.0 70.3 68.1 15:15-15:30 68.9 70.3 66.8 68.3 69.3 66.3 69.2 71.7 66.8 15:30-15:45 68.0 69.0 66.5 68.6 70.1 66.8 68.0 69.4 66.5 15:45-16:00 67.9 69.1 66.3 68.3 69.9 66.0 68.3 69.9 66.0 68.3 69.9 66.0 68.3	14:00-14:15	68.9	70.3	66.8
14:15-14:30 68.5 69.6 66.3 68.9 70.8 66.5 68.1 69.6 66.3 14:30-14:45 68.1 69.3 66.3 68.0 69.3 66.5 67.8 69.0 66.3 14:45-15:00 68.4 69.8 66.8 69.1 70.4 67.3 69.9 71.4 68.3 15:00-15:15 69.8 70.9 68.1 71.0 72.9 68.3 70.0 70.3 66.8 68.3 69.3 66.3 68.2 71.7 66.8 15:30-15:45 68.0 69.0 66.5 68.0 69.0 66.5 68.0 69.4 66.5 15:45-16:00 67.9 69.1 66.3 68.3 69.9 66.0 68.3 69.9 66.0 68.3 69.8 66.3 16:00-16:15 67.8 69.1 66.3 67.5 68.0 66.0		68.1	69.3	66.0
68.9 70.8 66.5 68.1 69.6 66.3 14:30-14:45 68.1 69.3 66.3 68.0 69.3 66.5 67.8 69.0 66.3 14:45-15:00 68.4 69.8 66.8 69.1 70.4 67.3 69.9 71.4 68.3 15:00-15:15 69.8 70.9 68.1 71.0 72.9 68.3 70.0 70.3 66.8 68.3 69.3 66.3 68.3 69.3 66.3 15:30-15:45 68.0 69.0 66.5 68.6 70.1 66.8 68.0 69.4 66.5 15:45-16:00 67.9 69.1 66.3 68.3 69.9 66.0 68.3 69.8 66.3 16:00-16:15 67.8 69.1 66.3 67.5 68.0 66.0		68.0	69.4	66.3
68.1 69.6 66.3 14:30-14:45 68.1 69.3 66.3 68.0 69.3 66.5 67.8 69.0 66.3 14:45-15:00 68.4 69.8 66.8 69.1 70.4 67.3 69.9 71.4 68.3 15:00-15:15 69.8 70.9 68.1 71.0 72.9 68.3 70.0 70.3 68.1 15:15-15:30 68.9 70.3 66.8 68.3 69.3 66.3 69.2 71.7 66.8 15:30-15:45 68.0 69.0 66.5 68.0 69.4 66.5 15:45-16:00 67.9 69.1 66.3 68.3 69.9 66.0 68.3 69.9 66.0 68.3 69.8 66.3 16:00-16:15 67.8 69.1 66.3 67.5 68.0 66.0	14:15-14:30	68.5	69.6	66.3
14:30-14:45 68.1 69.3 66.3 68.0 69.3 66.5 67.8 69.0 66.3 14:45-15:00 68.4 69.8 66.8 69.1 70.4 67.3 69.9 71.4 68.3 15:00-15:15 69.8 70.9 68.1 71.0 72.9 68.3 70.0 70.3 66.8 68.3 69.3 66.3 69.2 71.7 66.8 15:30-15:45 68.0 69.0 66.5 68.0 69.4 66.5 15:45-16:00 67.9 69.1 66.3 68.3 69.9 66.0 68.3 69.9 66.0 68.3 69.8 66.3 16:00-16:15 67.8 69.1 66.3 67.5 68.0 66.0		68.9	70.8	66.5
68.0 69.3 66.5 67.8 69.0 66.3 14:45-15:00 68.4 69.8 66.8 69.1 70.4 67.3 69.9 71.4 68.3 15:00-15:15 69.8 70.9 68.1 71.0 72.9 68.3 70.0 70.3 68.1 15:15-15:30 68.9 70.3 66.8 68.3 69.3 66.3 69.2 71.7 66.8 15:30-15:45 68.0 69.0 66.5 68.6 70.1 66.8 68.0 69.4 66.5 15:45-16:00 67.9 69.1 66.3 68.3 69.9 66.0 68.3 69.9 66.0 68.3 69.1 66.3 67.5 68.0 66.0		68.1	69.6	66.3
67.8 69.0 66.3 14:45-15:00 68.4 69.8 66.8 69.1 70.4 67.3 69.9 71.4 68.3 15:00-15:15 69.8 70.9 68.1 71.0 72.9 68.3 70.0 70.3 68.1 15:15-15:30 68.9 70.3 66.8 68.3 69.3 66.3 69.2 71.7 66.8 15:30-15:45 68.0 69.0 66.5 68.0 69.4 66.5 15:45-16:00 67.9 69.1 66.3 68.3 69.9 66.0 68.3 69.9 66.0 68.3 69.8 66.3 16:00-16:15 67.8 69.1 66.3 67.5 68.0 66.0	14:30-14:45	68.1	69.3	66.3
14:45-15:00 68.4 69.8 66.8 69.1 70.4 67.3 69.9 71.4 68.3 15:00-15:15 69.8 70.9 68.1 71.0 72.9 68.3 70.0 70.3 68.1 15:15-15:30 68.9 70.3 66.8 68.3 69.3 66.3 69.2 71.7 66.8 15:30-15:45 68.0 69.0 66.5 68.6 70.1 66.8 68.0 69.4 66.5 15:45-16:00 67.9 69.1 66.3 68.3 69.9 66.0 68.3 69.8 66.3 16:00-16:15 67.8 69.1 66.3 67.5 68.0 66.0		68.0	69.3	66.5
69.1 70.4 67.3 69.9 71.4 68.3 15:00-15:15 69.8 70.9 68.1 71.0 72.9 68.3 70.0 70.3 68.1 15:15-15:30 68.9 70.3 66.8 68.3 69.3 66.3 69.2 71.7 66.8 15:30-15:45 68.0 69.0 66.5 68.6 70.1 66.8 68.0 69.4 66.5 15:45-16:00 67.9 69.1 66.3 68.3 69.9 66.0 68.3 69.8 66.3 16:00-16:15 67.8 69.1 66.3 67.5 68.0 66.0		67.8	69.0	66.3
69.9 71.4 68.3 15:00-15:15 69.8 70.9 68.1 71.0 72.9 68.3 70.0 70.3 68.1 15:15-15:30 68.9 70.3 66.8 68.3 69.3 66.3 69.2 71.7 66.8 15:30-15:45 68.0 69.0 66.5 68.6 70.1 66.8 68.0 69.4 66.5 15:45-16:00 67.9 69.1 66.3 68.3 69.9 66.0 68.3 69.8 66.3 16:00-16:15 67.8 69.1 66.3 67.5 68.0 66.0	14:45-15:00	68.4	69.8	66.8
15:00-15:15 69.8 70.9 68.1 71.0 72.9 68.3 70.0 70.3 68.1 15:15-15:30 68.9 70.3 66.8 68.3 69.3 66.3 69.2 71.7 66.8 15:30-15:45 68.0 69.0 66.5 68.6 70.1 66.8 68.0 69.4 66.5 15:45-16:00 67.9 69.1 66.3 68.3 69.9 66.0 68.3 69.9 66.3 16:00-16:15 67.8 69.1 66.3 67.5 68.0 66.0		69.1	70.4	67.3
71.0 72.9 68.3 70.0 70.3 68.1 15:15-15:30 68.9 70.3 66.8 68.3 69.3 66.3 69.2 71.7 66.8 15:30-15:45 68.0 69.0 66.5 68.6 70.1 66.8 68.0 69.4 66.5 15:45-16:00 67.9 69.1 66.3 68.3 69.9 66.0 68.3 69.8 66.3 16:00-16:15 67.8 69.1 66.3 67.5 68.0 66.0		69.9	71.4	68.3
70.0 70.3 68.1 15:15-15:30 68.9 70.3 66.8 68.3 69.3 66.3 69.2 71.7 66.8 15:30-15:45 68.0 69.0 66.5 68.6 70.1 66.8 68.0 69.4 66.5 15:45-16:00 67.9 69.1 66.3 68.3 69.9 66.0 68.3 69.8 66.3 16:00-16:15 67.8 69.1 66.3 67.5 68.0 66.0	15:00-15:15	69.8	70.9	68.1
15:15-15:30 68.9 70.3 66.8 68.3 69.3 66.3 69.2 71.7 66.8 15:30-15:45 68.0 69.0 66.5 68.6 70.1 66.8 68.0 69.4 66.5 15:45-16:00 67.9 69.1 66.3 68.3 69.9 66.0 68.3 69.8 66.3 16:00-16:15 67.8 69.1 66.3 67.5 68.0 66.0		71.0	72.9	68.3
68.3 69.3 66.3 69.2 71.7 66.8 15:30-15:45 68.0 69.0 66.5 68.6 70.1 66.8 68.0 69.4 66.5 15:45-16:00 67.9 69.1 66.3 68.3 69.9 66.0 68.3 69.8 66.3 16:00-16:15 67.8 69.1 66.3 67.5 68.0 66.0		70.0	70.3	68.1
69.2 71.7 66.8 15:30-15:45 68.0 69.0 66.5 68.6 70.1 66.8 68.0 69.4 66.5 15:45-16:00 67.9 69.1 66.3 68.3 69.9 66.0 68.3 69.8 66.3 16:00-16:15 67.8 69.1 66.3 67.5 68.0 66.0	15:15-15:30	68.9	70.3	66.8
15:30-15:45 68.0 69.0 66.5 68.6 70.1 66.8 68.0 69.4 66.5 15:45-16:00 67.9 69.1 66.3 68.3 69.9 66.0 68.3 69.8 66.3 16:00-16:15 67.8 69.1 66.3 67.5 68.0 66.0		68.3	69.3	66.3
68.6 70.1 66.8 68.0 69.4 66.5 15:45-16:00 67.9 69.1 66.3 68.3 69.9 66.0 68.3 69.8 66.3 16:00-16:15 67.8 69.1 66.3 67.5 68.0 66.0		69.2	71.7	66.8
68.0 69.4 66.5 15:45-16:00 67.9 69.1 66.3 68.3 69.9 66.0 68.3 69.8 66.3 16:00-16:15 67.8 69.1 66.3 67.5 68.0 66.0	15:30-15:45	68.0	69.0	66.5
15:45-16:00 67.9 69.1 66.3 68.3 69.9 66.0 68.3 69.8 66.3 16:00-16:15 67.8 69.1 66.3 67.5 68.0 66.0		68.6	70.1	66.8
68.3 69.9 66.0 68.3 69.8 66.3 16:00-16:15 67.8 69.1 66.3 67.5 68.0 66.0		68.0	69.4	66.5
68.3 69.8 66.3 16:00-16:15 67.8 69.1 66.3 67.5 68.0 66.0	15:45-16:00	67.9	69.1	66.3
16:00-16:15 67.8 69.1 66.3 67.5 68.0 66.0		68.3	69.9	66.0
67.5 68.0 66.0		68.3	69.8	66.3
67.5 68.0 66.0	16:00-16:15	67.8	69.1	66.3
		67.5	68.0	
30.0		68.2	69.8	66.0

16:15-16:30	68.1	69.6	66.3
10.15-10.50	68.3	69.9	66.0
	68.5	70.4	66.3
16:30-16:45	67.7	68.9	66.3
10.00 10.10	68.1	69.6	66.0
	67.9	69.4	66.0
16:45-17:00	67.9	69.3	66.0
10.45-17.00	67.8	69.6	65.8
	68.6	70.4	66.3
17:00-17:15	67.8	69.4	65.5
17.00 17.10	67.9	69.0	66.0
	68.1	69.8	66.0
17:15-17:30	68.1	69.8	66.3
17.10-17.00	68.0	69.4	65.8
	68.1	69.8	66.0
17:30-17:45	68.1	69.8	66.0
17.50-17.45	69.4	71.5	66.0
	70.1	71.4	66.3
17:45-18:00	67.9	69.4	65.8
17.40-10.00	69.0	71.5	66.1
	69.0	71.2	66.3
18:00-18:15	67.9	68.9	66.1
10.00-10.13	67.8	69.3	65.8
	67.9	68.9	66.0
18:15-18:30	68.5	70.3	65.8
10.13-10.30	68.0	69.6	66.0
	68.2	69.6	66.0
18:30-18:45	67.8	69.3	65.8
10.50-10.45	67.0	68.1	65.5
	67.0	67.8	65.5
18:45-19:00	67.6	69.0	66.1
10.10 10.00	67.8	69.1	66.0
	69.4	69.8	68.5
19:00-19:15	68.9	69.4	67.8
10.00 10.10	67.9	69.3	66.8
	67.4	68.3	65.8
19:15-19:30	67.2	68.0	65.8
	67.3	68.3	65.8
	66.9	67.5	65.8
19:30-19:45	67.1	68.3	65.8
10.00	67.2	68.5	65.3
	66.8	67.5	65.5
19:45-20:00	67.2	68.0	65.8
	66.7	67.8	65.3
	67.0	67.8	65.8
20:00-20:15	66.9	67.8	65.3
	66.9	67.5	65.8
	66.9	67.8	65.5
20:15-20:30	67.1	67.8	65.5
	67.1	68.0	65.5
	67.0	67.8	65.5
20:30-20:45	67.0	67.8	65.5
-	67.1	67.8	65.8
	66.8	67.5	65.5
20:45-21:00	66.7	67.5	65.0
	66.8	67.8	65.5

21:00-21:15	66.9	67.8	65.5
	66.7	67.8	65.5
	67.1	67.8	65.8
21:15-21:30	67.0	68.0	65.8
	67.1	68.3	65.5
	67.0	67.8	65.8
21:30-21:45	67.0	67.8	65.8
	67.0	68.0	65.5
	66.9	67.8	65.5
21:45-22:00	66.7	67.5	65.5
	66.8	67.5	65.5
	66.4	67.3	65.0
22:00-22:15	66.6	67.3	65.3
	66.7	67.8	65.5
	66.9	67.8	65.5
22:15-22:30	66.6	67.5	65.3
	66.6	67.5	65.3
	66.7	67.5	65.3
22:30-22:45	67.1	68.3	65.5
	66.9	67.8	64.8
	66.5	67.8	64.8
22:45-23:00	66.7	67.5	65.0
	66.8	67.5	65.0
	66.4	67.3	64.8
Average	67.6	68.7	65.8
Max	71.0	72.9	68.5
Min	65.6	66.8	63.8

4) Night-time (for all days) Noise Level, dB(A)

Time Slot	Leq, 5min	L10	L90
23:00-23:15	66.8	67.8	65.2
	66.7	67.7	65.3
	66.6	67.6	65.2
23:15-23:30	66.7	67.7	65.3
	66.6	67.7	65.0
	66.6	67.7	65.1
23:30-23:45	66.6	67.6	65.1
	66.4	67.5	64.9
	66.4	67.5	64.7
23:45-00:00	66.5	67.5	64.9
	66.4	67.3	64.7
	66.0	67.1	64.6
00:00-00:15	66.1	67.1	64.5
	65.9	67.0	64.4
	65.9	66.8	64.3
00:15-00:30	65.9	67.0	64.3
	65.9	67.0	64.3
00.00.00.45	65.8	66.8	64.2
00:30-00:45	65.8	66.8	64.2
	65.6	66.7	64.0
00:45:01:00	65.2 65.2	66.3 66.3	63.6 63.7
00.45.01.00	65.4		
	65.2	66.4 66.2	63.8 63.4
01:00-01:15	65.2	66.4	63.4
01.00-01.15	64.8	65.8	63.1
	64.7	65.8	63.0
01:15-01:30	64.6	65.6	62.9
01.10 01.00	64.5	65.6	62.9
	64.6	65.7	62.9
01:30-01:45	64.3	65.3	62.6
	64.4	65.5	62.6
	64.2	65.3	62.4
01:45-02:00	64.1	65.2	62.4
	64.6	65.4	62.3
	64.0	65.1	62.2
02:00-02:15	63.9	65.1	62.2
	64.0	65.2	62.2
	63.9	65.0	62.2
02:15-02:30	63.8	64.9	62.0
	63.5	64.7	61.6
	63.7	64.9	61.8
02:30-02:45	63.8	65.0	61.9
	63.7	65.0	61.9
	63.5	64.7	61.7
02:45-03:00	63.4	64.8	61.5
	63.4	64.6	61.5
00.00.55.15	63.5	64.7	61.6
03:00-03:15	63.3	64.6	61.3
	63.2	64.4	61.3
	63.2	64.5	61.2
03:15-03:30	63.1	64.4	61.2
	63.1	64.3	61.1
	63.0	64.2	60.9

03:30-03:45	63.0	64.2	60.9
	63.0	64.2	61.1
	62.9	64.0	60.7
03:45-04:00	62.9	64.3	60.8
	63.1	64.5	61.0
	62.8	64.2	60.8
04:00-04:15	62.9	64.0	60.9
	62.9	64.1	61.0
	62.8	64.1	60.7
04:15-04:30	62.8	64.1	60.7
	62.8	64.1	60.7
	62.9	64.1	60.9
04:30-04:45	63.0	64.3	60.9
	62.9	64.1	60.9
	62.9	64.2	60.8
04:45-05:00	63.4	64.5	61.3
0 11 10 00.00	63.4	64.9	61.3
	63.1	64.5	60.9
05:00-05:15	63.1	64.5	60.8
00.00 00.10	63.1	64.5	61.0
	62.9	64.1	60.9
05:15-05:30	63.3	64.6	61.4
00.10 00.00	64.1	65.7	61.6
	64.1	65.7	61.9
05:30-05:45	63.9	65.3	62.0
00.00 00.10	64.3	65.6	62.4
	64.4	65.8	62.4
05:45-06:00	64.6	65.8	62.5
00.10 00.00	64.7	65.8	62.4
	64.7	65.9	62.4
06:00-06:15	64.4	65.9	62.3
	64.9	65.9	62.6
	64.5	65.8	62.6
06:15-06:30	64.9	66.2	63.0
00.10 00.00	65.1	66.4	63.1
	65.2	66.5	63.4
06:30-06:45	65.5	66.6	63.2
	65.9	67.4	63.7
	65.9	67.0	64.0
06:45-07:00	66.0	67.2	64.3
	66.4	67.4	64.8
	66.5	67.5	64.9
Average	64.7	65.8	62.9
Max	66.8	67.8	65.3
Min	62.8	64.0	60.7

