MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

Highways Department

Route 8
Between Tsing Yi and Cheung Sha Wan
Phase 3
Stonecutters Bridge

Monthly Environmental Monitoring & Audit Report (29th March 2009 – 28th April 2009)

EP – 085/2000/E Route 8 Between Tsing Yi and Cheung Sha Wan Phase 3 Stonecutters Bridge:

Monthly Environmental Monitoring & Audit Report (29th March 2009 – 28th April 2009)

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EXECUTIVE SUMMARY

- ES 1 An Environmental Permit (EP-085/2000/E) was granted to Highways Department by the Environmental Protection Department for the construction of Route 8 Project between Tsing Yi and Cheung Sha Wan. This EP covers four phases of the Route 8 Project namely Phase 1 Ngong Shuen Chau Viaduct, Phase 2a Nam Wan Tunnel and West Tsing Yi Viaduct, Phase 2b East Tsing Yi Viaduct and Phase 3 Stonecutters Bridge.
- ES 2 This is the 58th monthly Environmental Monitoring and Audit (EM&A) Report for "Phase 3 Route 8 Stonecutters Bridge (HY/2002/26)". The construction commencement of this Contract was on 2nd July 2004 and this report presents the results of the EM&A works conducted during the period between 29th March 2009 and 28th April 2009 in accordance with the EM&A Manual which forms part of the EIA Report. (Register No. AEIAR-018/1999).
- ES 3 The major construction activities carried out during normal hours are as follows: -
 - Tower construction (Western and Eastern Tower Site)
 - ii. Backspan construction (Western and Eastern Tower Site)
 - iii. Steel deck construction
 - iv. Roads and utilities construction (Eastern Tower Site)
 - v. E&M works
 - vi. Demolition of uploading platform
- ES 4 The major construction activities carried out during restricted hours are as follows:
 - i. Tower and steel deck construction (Western Tower Site evening, night-time and public holidays)
 - ii. Tower and steel deck construction (Eastern Tower Site evening, night-time and public holidays)
- ES 5 Monitoring of Total Suspended Particulates (TSP) and noise were carried out in accordance with the EM&A Manual. Weekly site inspections were conducted by ET on 1st, 8th, 15th and 22nd April 2009 and the joint IEC monthly audit was conducted on 22nd April 2009.

Air Quality

ES 6 A total of 90 sets of 1 hour TSP and 25 sets of 24-hours TSP measurements were carried out at all monitoring locations (ASR1 to ASR5) during the reporting period and the results of all measurements taken were below the Action/Limit (AL) Levels.

Noise

ES 7 In order to assess the construction noise impact effectively for all noise monitoring locations (NSR1 to NSR5) from this Contract, an adjustment approach was adopted since 29th March 2005 and had been consulted with EPD to audit merely the construction noise levels against the statutory noise limits. The measured noise levels were adjusted with the corresponding baseline levels in order to facilitate the interpretation of the construction noise levels and this in turn would determine the actual construction noise impact contributed solely by the Phase 3 construction activities.

Daytime Monitoring

ES 8 A total of 25 sets of $L_{eq(30min)}$ measurement were undertaken in daytime (0700 to 1900 hours on normal weekdays) at all monitoring locations (NSR1 to NSR5) during the reporting period and no exceedances were recorded.

Evening-time Monitoring

ES 9 A total of 25 sets of 6 x $L_{eq(5min)}$ measurements were taken in evening-time (1900 to 2300 hours on normal weekdays) at all monitoring locations during the reporting period and no exceedances were

recorded.

Night-time Monitoring

- ES 10 A total of 25 sets of 4 x $L_{eq(5min)}$ measurements were taken in night time (i.e. 2300 to 0700 hours next day) at all monitoring locations during the reporting period and no exceedances were recorded.
 - Public Holidays Monitoring
- ES 11 A total of 25 sets of 6 x $L_{eq(5min)}$ measurements were taken during public holidays at all monitoring locations during the reporting period and no exceedances were recorded.

Water Quality

- ES 12 Two Effluent Discharge Licenses were granted by EPD, one for the Eastern Tower Site (EP760/269/009124I) and the other for the Western Tower Site (EP760/350/008933I) on 20th September 2004 and 21st December 2004 respectively. The variation of the Discharge License (EP760/350/008933I) was granted by EPD on 13th June 2005.
- ES 13 In accordance with the approved licenses' conditions, water sampling is required on a bi-monthly basis. One water sample was taken for CT8 site area by MHYHJV on 31st March 2009. The water sample was subsequently tested by a HOKLAS accredited laboratory and the results indicated that they have fully complied with the Specific Condition as stipulated in the approved license.
- ES 14 One water sample was taken on 27th April 2009 at CT9 site area. The water sample was subsequently tested by a HOKLAS accredited laboratory and the results will be reported in coming EM&A monthly report. The next sampling is scheduled for May 2009 for CT8 site area.

Waste Management

- ES 15 The Waste Management Plan (WMP–Issue 08) was approved by EPD on 8th December 2006.
- ES 16 Since May 2004, all non-inert C&D material from the Phase 3 Contract had been disposed of at WENT Landfill. A total of 52 m³ of general refuse were delivered to WENT Landfill during the reporting period.
- ES 17 With effect from 6th February 2005, all inert C&D material had been disposed of at Tuen Mun Fill Bank. During this reporting period, a total of 2,332 m³ of public fill and 80 m³ of broken concrete were delivered to Tuen Mun Area 38.
- ES 18 On 18th March 2005, approval was granted by PFC, CEDD to deliver a maximum of 4,000m³ of surplus filling material to TW/98/02 Route 9 Section between Shek Wai Kok and Chai Wan Kok for re-usage purposes. From March 2005 onwards, a total of 4,512 m³ (752 dump trucks) were delivered to TW/98/02.
- ES 19 On 7th December 2005, approval was granted by PFC, CEDD to deliver a maximum of 3,000 m³ of surplus filling material to HY/2000/21 Phase 1 Ngong Shuen Chau Viaduct for re-usage purposes. From December 2005 onwards, a total of 2,004 m³ (334 dump trucks) were delivered to HY/2000/21.
- ES 20 On 23rd January 2006, approval was granted by PFC, CEDD to deliver a maximum of 3,000 m³ of surplus filling material to "Drainage Improvement in East Kowloon (DC/2004/03)" for re-usage purposes. From January 2006 onwards, a total of 138 m³ (23 dump trucks) were delivered to DC/2004/03.
- ES 21 CEDD was notified that a total of 1,600 m³ of broken concrete and broken asphalt had been delivered to "Ampliacao Do Novo Terminal Maritimo Da Taipa" Project in Macau by a derrick barge for the formation of internal haul roads in November 2007.
- ES 22 With the Marine Department Notice, a total of 1125 nos. of concrete blocks were delivered and laid on the designated seabed as artificial reefs since 7th July 2008.
- ES 23 No chemical waste was disposal of site during the reporting period.

Site Inspections

ES 24 ET carried out weekly site inspections during the reporting period and the major issues identified on site are presented below:

Item	Findings	MHYHJV's	Corrective	and	Effectiveness of measures
		Preventive mea	isures		
1	MHYHJV was reminded to protect the existing gullies at area P3- SA3G properly in order to avoid substandard effluent discharge into	protected by g	-	been	Completed and closed. (Please refer <i>Appendix Q</i> Photo 01).
	storm drain.				

ES 25 The monthly IEC audit was carried out on 22nd April 2009 and one general reminder was recorded and presented as follows:-

Item	Findings	MHYHJV's Corrective and	Effectiveness of measures
		Preventive measures	
1	MHYHJV was reminded to protect the existing gullies at area P3- SA3G properly in order to avoid substandard effluent discharge into storm drain.	The existing gullies have been protected by geo-textile.	Completed and closed. (Please refer <i>Appendix Q</i> Photo 01).

EPD Audits

ES 26 No joint site inspections were carried out with EPD during the reporting period.

Environmental Licenses and Permits

- ES 27 The following permits / licenses have been granted by EPD for the construction of the Phase 3 Contract and they are:
 - i. Environmental Permit (EP-085/2000/E)
 - ii. Chemical Waste Producer Registration (5213-350-M2640-01)
 - iii. 2 Effluent Discharge Licences (EP760/269/009124I and EP760/350/008933I)
 - iv. Licence for the conduct a Tar and Bitumen Works (Mastic Asphalt Plant) (L-15-033(1))
 - v. 5 Construction Noise Permits

Environmental Complaints

ES 28 No environmental complaints were received during the reporting month.

Notifications of Summonses and Prosecutions

ES 29 Since the commencement of construction, no notifications of summonses or prosecutions were received on the environmental performance for this Contract.

Future Key Issues

ES 30 The tentative program of major site activities and the impact prediction and control measures for the coming three months, i.e. May 2009 to July 2009 are summarized as follows:

Construction	Major Impact	Control Measures
Works	Prediction	
Tower and steel deck construction; Roads and utilities construction	Air impact (dust)	i) Frequent watering (or remove dusty material) of haul road and unpaved/exposed areas;ii) Frequent watering or covering open stockpiles with tarpaulin or similar means; andiii) Watering of any earth moving activities.
	Water quality impact (construction effluent and surface run-off)	 i) Diversion of collected effluent to adequate de-silting facilities for treatment prior to discharge to public storm water drains; ii) Provision of adequate de-silting facilities for treating surface run-off and other collected effluent prior to discharge; and iii) Provision of perimeter protection such as perimeter channel.
	Noise Impact	 i) Scheduling of noisy construction activities if necessary to avoid persistent noisy operation; ii) Controlling the number of plants use on site; iii) Regular maintenance of machinery; and iv) Use of acoustic barriers if deemed necessary.

Route 8 - Traffic Control and Surveillance System (TCSS)

- ES 31 The construction of the "Route 8 Traffic Control and Surveillance System Contract (HY/2003/05)" (TCSS) Contract was awarded to Delcan-Imtech-GECS-Joint Venture (DIGJV).
- ES 32 The construction work of TCSS within Phase 1 Contract (Route 8 Ngong Shuen Chau Viaduct) and Phase 2a Contract (Route 8 Nam Wan Tunnel and West Tsing Yi Viaduct) site area was commenced on 4th April 2007 and 25th October 2006 respectively. Since the no further EM&A during construction phase would be carried out for both Phase 1 and Phase 2a Contracts and therefore, all future TCSS works within Phase 1 and Phase 2a would be reported in this monthly EM&A report.
- ES 33 A joint site audit amongst IEC/ET/RSS/DIGJV was carried out on 22nd April 2009. No adverse comments were raised by ET, IEC and RSS.

1 INTRODUCTION

An Environmental Permit (EP-085/2000/E) was granted to Highways Department by the Environmental Protection Department for the construction of Route 8 Project between Tsing Yi and Cheung Sha Wan. This EP covers four phases of the Route 8 Project namely Phase 1 – Ngong Shuen Chau Viaduct, Phase 2a – Nam Wan Tunnel and West Tsing Yi Viaduct, Phase 2b – East Tsing Yi Viaduct and Phase 3 – Stonecutters Bridge.

1.1 Purpose of the Report

This is the 58th monthly Environmental Monitoring and Audit (EM&A) Report for the "Phase 3 - Route 8 Stonecutters Bridge (HY/2002/26)" (hereafter known as the "Phase 3 Contract"). This report presents the results of the EM&A programme conducted during the period between 29th March 2009 and 28th April 2009 in accordance with the Environmental Permit EP-085/2000/E and the EM&A Manual which forms part of the EIA Report (Register No. AEIAR-018/1999).

1.2 Structure of the Report

The structure of the report is as follows:

- Section 1: **INTRODUCTION** details the scope and structure of the report.
- Section 2: **PROJECT INFORMATION** summarizes the background and scope of the project, project organization, construction programme and the construction works undertaken during the reporting period.
- Section 3: **ENVIRONMENTAL MONOTORING REQUIREMENTS** summarizes the monitoring programmes, Action and Limit Levels, Event Action Plans, environmental mitigation measures as recommended in the EIA Report and relevant environmental requirements.
- Section 4: <u>IMPLEMENTATION STATUS ON ENVIRONMENTAL</u>
 <u>PROTECTION REQUIREMENTS</u> summarizes the implementation of environmental protection measures during the reporting period.
- Section 5: ENVIRONMENTAL LICENCE AND PERMITTING
 REQUIREMENTS summarizes the environmental licences and permits obtained or being applied during the reporting period.
- Section 6: <u>MONITORING RESULTS</u> reports the monitoring results obtained in the reporting period.
- Section 7: <u>AUDIT RESULTS</u> summarizes the audit findings in the reporting period.
- Section 8: COMPLAINTS, NOTIFICATIONS OF SUMMONS AND PROSECUTIONS DURING THE REPORTING PERIOD summarizes the complaints, notifications of summons and prosecutions recorded during the reporting period.
- Section 9: **ROUTE 8 TRAFFIC CONTROL AND SURVEILLANCE SYSTEM**
- Section 10: <u>FUTURE KEY ISSUES</u> summarizes the future key issues as reviewed from the works programme and work method statements.
- Section 11: **RECOMMENDATIONS AND CONCLUSIONS**

2 PROJECT INFORMATION

2.1 Background

- 2.1.1 Ove Arup and Partners Hong Kong Ltd (Arup) was awarded the Design and Construction Consultancy Assignment No. CE61/2000 "Stonecutters Bridge Design and Construction Assignment".
- 2.1.2 The construction of the Phase 3 Contract was awarded to Maeda-Hitachi-Yogogawa-Hsin Chong Joint Venture (MHYHJV) on 19th April 2004 and is scheduled to be substantially complete in mid 2009.
- 2.1.3 The Construction Works under the Phase 3 Contract involves a cable-stayed bridge of 1.6km long with 1,018m main span and 290m high mono towers. It will span across the Rambler Channel between the Kwai Chung Container Terminal 8 (CT8) at Stonecutters Island and Container Terminal 9 (CT9) at the east side of Tsing Yi.

2.2 Site Description

- 2.2.1 The Phase 3 Contract has two distinct sites; namely the Eastern Tower site which is located on the Stonecutters Island and the Western Tower site locates on the east side of Tsing Yi Island adjacent to CT9.
- 2.2.2 Five sensitive receivers have been identified for the Phase 3 Contract in accordance with the EM&A Manual and the EIA. Two monitoring stations are located at the Tsing Yi Hong Kong Institute of Vocational Education (IVE) in the Main Education Building and Fok Ying Tung Hall of Residence, one at Mayfair Gardens, one at Cheung Ching Estate and one at the DSD Pumping Station located adjacent to the Container's Port Road in the proximity of the Stonecutters Military base at the Stonecutters Island. The site location plan and the monitoring locations are presented in *Appendix A* and *F* respectively.

2.3 Project Organisation

2.3.1 The Phase 3 Contract organization chart and contact details are shown in *Appendix B*.

2.4 Project Work Programme

2.4.1 The Phase 3 Contract's Three Months Rolling Programme is presented in *Appendix C*. The major site activities undertaken during the normal hours and restricted hours during the reporting period are summarized in *Table 2.1* and *Table 2.2* respectively.

Table 2.1 Major Site Activities undertaken during the Reporting Period (Normal Hours)

Area	Details of Site Activities
P3-SA3 (Western Tower Site)	Tower, backspan and steel deck construction.
P3-SA5 (Eastern Tower Site)	Tower, backspan and steel deck construction.
P3-SA6 (Eastern Tower	Roads and utilities construction.
Site)	
P3-SA5A	Demolition and reinstatement of uploading platform

Table 2.2 Major Site Activities undertaken during the Reporting Period (Restricted Hours)

Area	Details of Site Activities
P3-SA3 (Western Tower Site)	Tower and steel deck construction (evening, night-time and
	public holidays)
P3-SA5 (Eastern Tower	Tower and steel deck construction (evening, night-time and
Site)	public holidays)

3 ENVIRONMENTAL MONITORING REQUIREMENTS

3.1 Air Quality

Monitoring Requirements

3.1.1 In accordance with the Phase 3 Contract's EM&A Manual, 1-hour and 24-hour Total Suspended Particulates (TSP) are required to be conducted to monitor the construction dust impact. The established Action/Limit Levels for the environmental monitoring works are presented in *Appendix D1*.

Monitoring Frequency and Schedule

3.1.2 The monitoring parameters and frequency are summarized in *Table 3.1*. The monitoring schedule for the reporting period is presented in *Appendix E*.

Table 3.1 TSP Monitoring Parameter and Frequency

Parameters	Duration / hour	Frequency		
24-hour TSP	24	Once Every Six Days		
1-hour TSP	1	Three Times Every Six Days		

Monitoring Locations

3.1.3 As identified in the EM&A Manual, five air quality monitoring locations were selected for the Phase 3 Contract and they are listed in *Table 3.2* and presented in *Appendix F*.

Table 3.2 TSP Monitoring Locations

Location I.D.	Description
ASR1	HK Institute of Vocational Education-Tsing Yi
ASKI	Fok Ying Tung Hall of Residence
ASR2	HK Institute of Vocational Education-Tsing Yi
ASKZ	5 th Floor Block D of the Main Education Building
ASR3	Mayfair Gardens
ASKS	1 st Floor adjacent to Swimming Pool
ASR4	Cheung Ching Estate
ASK4	At Roof of Ching Yung House (25/F)
ASR5	DSD Pumping Station
ASKS	G/F, in the proximity of the Stonecutters Military Base

3.1.4 All meteorological data was obtained from the Hong Kong Observatory website.

Monitoring Equipment

3.1.5 Continuous 24-hour and 1-hour TSP air quality monitoring was performed using a TE-5170 Tisch Environmental Inc. High Volume Sampler (HVS), which was installed at the monitoring stations. The sampler composed of a motor, filter holder, flow controller and a sampling inlet. Its performance specification complies with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50).

Details of the monitoring equipment are given in *Table 3.3*. A copy of the calibration certificate for the HVS and wind data monitor is attached in *Appendix G1*.

Table 3.3 Air Quality Monitoring Equipment

Equipment	Equipment Model	
HVS	TE-5170 Tisch Environmental Inc.	5
Calibrator	TE-5028A Tisch Environmental Inc.	1

Monitoring Procedures and Calibration Details

- 3.1.6 Calibration Procedures Calibration procedures of HVS are as follows (calibration certificates are presented in *Appendix G3*):
 - i. A certified orifice transfer standard with a calibration curve was used for the calibration.
 - ii. The transfer standard was connected to the inlet of the sampler. The orifice manometer was then connected to the orifice pressure port. The manometer's connecting tubing was inspected to make sure that there are no leaks between the orifice unit and the sampler.
 - iii. The motor was then disconnected from the flow controller and plugged directly to an AC power source.
 - iv. The ambient temperature, Ta (K) and the barometer pressure Pa (mmHg) were obtained from the Hong Kong Observatory website for TSP calculation.
 - v. The sampler was allowed to run for at least 2 minutes to re-establish the run temperature conditions. The pressure drop across the orifice and the well-type manometer reading was recorded during calibration. The variable resistance was adjusted to repeat recording for four different flow rates.
 - vi. The best fit straight line was determined by linear regression and the slope (m1), intercept (b1) and correlation coefficient (r) are then determined.
- 3.1.7 Operating/Analytical Procedure
 - i. The flow rate of the high volume sampler was set to about 1.1 m³/min 1.7 m³/min prior to commencement of the dust sampling in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.
 - ii. The samplers was located such that:
 - a. the filter was about 1.3 meters above ground.
 - b. it was greater than 20 meters away from trees.
 - c. it was separated from any obstacle by at least twice the height of the obstacle protruding above the sampler.
 - d. it has unrestricted airflow 270° around the sampler.
 - iii. Fiberglass filters were used for TSP sampling (G810) [Note: these filters have a collection efficiency of > 99% for particles of 0.3 mm diameter.
 - iv. All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment has a temperature setting between 25°C and

- 30°C and should not vary by more than ± 3 °C; the relative humidity was < 50% and should not vary by more than ± 5 %.
- v. A new filter was placed with stamped number upward on a supporting screen.
- vi. The filter was properly aligned on the screen so that the gasket formed an air-tight seal on the outer edges of the filter.
- vii. Shelter lid closed and catch secured with the aluminum strip.
- viii. The sampler was then allowed to run for at least 5 minutes to establish run-temperature conditions
- ix. The flow indicator reading was recorded and the sampler flow rate was determined.
- x. The programmable timer was set and the starting sampling time, weather condition and the filter number was recorded.
- xi. At the end of sampling, the filter was transferred from the filter holder of the HVS to a sealable plastic bag and sent to the HOKLAS accredited laboratory for weighing. The elapsed time was also recorded. A copy of the HOKLAS Certificate is attached in *Appendix G5*.
- xii. Before weighing, all filters were equilibrated in a desiccator for 24 hours with temperature of 25°C±3°C and the relative humidity (RH) 50%±5%, preferably 40%.

3.1.8 Maintenance

- i. The high volume sampler and their accessories were maintained in good working condition, include replacing motor brushes routinely and checking electrical wiring to ensure continuous power supply.
- ii. The high volume samplers were calibrated at bi-monthly intervals using TE-5028A Tisch Environmental Inc. Calibration Kit throughout all stages of the air quality monitoring.

Event/Action Plan

3.1.9 The Event/Action Plan for Air Quality is presented in *Appendix H1*.

3.2 Noise Quality

Monitoring Requirements

- 3.2.1 According to the field study, the noise generated from the major roads (such as Tsing Yi Road and Container Port Road) was noticeable at noise monitoring stations and therefore the major roads were considered as an influencing factor of the noise sensitive receivers.
- 3.2.2 As the noise monitoring stations are located at urban area and directly affected by this Influencing Factor (IF), the Area Sensitivity Rating of the noise monitoring stations is considered to be "C" according to the *Table 1* of the Technical Memorandum on Noise from Construction Work other than Percussive Piling under Noise Pollution Control Ordinance.
- 3.2.3 Noise monitoring was conducted at five monitoring stations to monitor the construction noise impact from the Phase 3 Contract. *Appendix D2* presents the established Action/Limit Levels for the environmental monitoring works.

Monitoring Frequency and Schedule

3.2.4 The monitoring schedule is presented in *Appendix E* and the frequency and parameters of noise measurement are summarized in *Table 3.4*.

Table 3.4 Noise Monitoring Frequency and Parameters

Time Period	Duration / min.	Parameters	Frequency
Daytime (0700 to 1900)	30 (6 consecutive L _{eq} (5min) in average)	Leq, L ₉₀ & L ₁₀	Once per week
*Evening (1900 to 2300)	5	Leq, L ₉₀ & L ₁₀	Six times per week
*Night (2300 to 0700 next day)	5	Leq, L ₉₀ & L ₁₀	Four times per week
*Holiday (0700-1900 on holidays)	5	Leq, L ₉₀ & L ₁₀	Six times per week

^{*} Restricted hour noise monitoring: to be conducted only when there is construction work under valid CNP.

Monitoring Locations

3.2.5 As identified in the EM&A Manual, five noise monitoring locations (as detailed in *Table 3.5* and presented in *Appendix F*) were selected for noise measurement.

Table 3.5 Location of the Noise Monitoring Stations

Location I.D.	Description	Type of measurement			
NSR1	HK Institute of Vocational Education-Tsing Yi Fok Ying Tung Hall of Residence	Free Field			
NSR2	NSR2 HK Institute of Vocational Education-Tsing Yi 5 th Floor Block D of the Main Education Building				
NSR3	Mayfair Gardens, 1 st Floor adjacent to Swimming Pool	Free Field			
NSR4	Cheung Ching Estate				
NSR5	DSD Pumping Station (in the proximity of Stonecutters Military Base)	Free Field			

Monitoring Equipment

3.2.6 Integrating Sound Level Meters were used for noise monitoring which were Type 1 sound level meters capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level (Leq) and percentile sound pressure level (Lx). They comply with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1). Also, a portable electronic wind speed indicator capable of measuring wind speed in m/s was used to monitor the wind speed. *Table 3.6* summarizes the noise monitoring equipment required.

Table 3.6 Noise Monitoring Equipment

Equipment	Model
Integrating Sound Level Meter	30, Pulsar; 2236 and 2238 B&K
Calibrator	100B, Pulsar; 4231 B&K
Portable Wind Speed Indicator	PWM2, Dwyer

Monitoring Procedures and Calibration Details

3.2.7 Field Monitoring

- i. The microphone of the Sound Level Meter (with weatherproof kit) was mounted on a tripod at a height of 2m above ground level.
- ii. For free field measurement, the meter was positioned away from any nearby reflective surfaces.
- iii. AC power supply was checked to ensure good functioning of the meter.
- iv. Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:

a. frequency weightingb. time weighting: Fast

c. time measurement : 30 minutes / 5 minutes

- v. Prior to and after each noise measurement, the meter was calibrated using the Calibrator for 94 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
- vi. The wind speed was frequently checked with the portable wind meter.
- vii. At the end of the monitoring period, the L_{eq} , L_{90} and L_{10} were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- viii. Noise measurement was paused during periods of high intrusive noise if possible and observation was recorded when intrusive noise was not avoided.
- ix. Noise monitoring was cancelled in the presence of fog, rain, and wind with steady speed exceeding 5 m/s, or wind with gusts exceeding 10m/s.

3.2.8 Maintenance and Calibration

- i. The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
- ii. The meter was sent to the supplier to check and calibrate yearly.
- iii. Calibration certificates are presented in *Appendix G4*

3.2.9 Event/Action Plan

The Event/Action Plan for Noise impact is presented in *Appendix H2*.

4 IMPLEMENTATION STATUS ON ENVIRONMENTAL PROTECTION REQUIREMENTS

MHYHJV has implemented a series of environmental mitigation measures to fulfill requirements as stated in the EIA Report, the Environmental Permit and EM&A Manual. The implementation status during the reporting period is summarized in *Appendix I*.

5 ENVIRONMENTAL LICENCES AND PERMITS

5.1 Status of Permits and Licenses

5.1.1 The status of permits, licenses and EPD notifications for all relevant environmental issues of the Phase 3 Contract for the reporting period is presented in *Appendix R*.

6 MONITORING RESULTS

6.1 Air Quality

6.1.1 The 1-hour TSP monitoring was carried out at five monitoring stations during the reporting period. All monitoring data are presented in *Appendix J*. A summary of the measured 1-hour TSP levels is given in *Table 6.1*. Graphical presentations of the 1-hour TSP monitoring results for the reporting period and the trend of 1-hour TSP results are shown in *Appendix K*. Meteorological data such as atmospheric pressure and temperature used for the calculation of TSP values was obtained from the Hong Kong Observatory for ASR1 to ASR4 and the weather station at the Stonecutters Island for ASR5.

Table 6.1 Summary of 1-hour TSP Impact Monitoring Results

Location	1-hour TS	SP (μg/m³)	Action Level	Limit Level
I.D.	Range	Mean	$(\mu g/m^3]$	$(\mu g/m^3)$
ASR1	112.3 – 287.3	188.3	350	500
ASR2	64.8 - 254.8	160.3	350	500
ASR3	70.0 - 235.2	140.3	350	500
ASR4	66.6 – 187.1	123.6	350	500
ASR5	74.8 - 226.5	120.0	324	500

6.1.2 The 24-hour TSP monitoring was carried out at five monitoring stations during the reporting period. All monitoring data are presented in *Appendix J*. A summary of the measured results is given in *Table 6.2*. Graphical presentation of the results and the trend of 24-hour TSP results are shown in *Appendix K*.

Table 6.2 Summary of 24-hour TSP Impact Monitoring Results

	7 							
Location	24-hour T	SP (µg/m ³)	Action Level	Limit Level				
I.D.	Range	Mean	(μg/m ³)	$(\mu g/m^3)$				
ASR1	77.8 – 128.1	92.3	174.0	260				
ASR2	64.8 - 127.0	84.1	185.5	260				
ASR3	60.4 – 113.3	77.1	200.0	260				
ASR4	35.7 – 108.4	68.0	192.0	260				
ASR5	33.3 – 99.2	73.6	178.0	260				

6.1.3 No exceedances of the Action/Limit Levels of 1-hour and 24-hour TSP were recorded during the reporting period. The wind data monitoring results recorded during the reporting period are summarized in *Appendix L*.

6.1.4 Observations

Several significant dust sources were identified during the reporting period and they were mainly contributed by the following activities:

- i. On site traffic;
- ii. Roads and utilities construction; and
- iii. Vehicular emission from local traffic network.

6.2 Noise

- 6.2.1 In accordance with the Phase 3 Contract's EM&A Manual, all noise monitoring were carried out in the absence of fog, rain and wind with a steady speed exceeding 5m/s, or wind gust exceeding 10m/s. Furthermore, an additional 3dB(A) façade correction for free field measurements were made for all monitoring locations.
- 6.2.2 In order to assess the construction noise impact effectively for all noise monitoring locations (NSR1 to NSR5) from Phase 3 Contract, an adjustment approach was adopted since 29th March 2005 and had been consulted with EPD to audit merely the construction noise levels against the statutory noise limits. The measured noise levels were adjusted with the corresponding baseline levels in order to facilitate the interpretation of the construction noise levels and this in turn would determine the actual construction noise impact contributed solely by the Phase 3 construction activities. No adjustments will be made on the measured noise levels, if they were lowered or equal to the corresponding baseline levels.

6.2.3 Normal Hour Monitoring

Daytime noise monitoring was carried out at all noise monitoring stations during the reporting period. All corrected noise levels are presented in *Appendix M1*. A summary of the results is given in *Table 6.3*. Graphical presentation of the monitoring results for the reporting period and the trend of noise monitoring results are shown in *Appendix N1*.

Table 6.3 Summary of Corrected Impact Noise Levels for Normal Hour Monitoring

Daytime 0700-1900 hrs on normal weekdays	Measure	d Noise Level (Range)	¹ ,dB(A),	Construction Noise Level, dB(A) (Range)	Limit Level dB(A)
normal weekuays	$L_{eq(30min)}$	$L_{10(30 min)}$	$L_{90(30min)}$	$L_{eq(30min)}$	$L_{eq(30min)}$
NSR1	63.8 - 69.2	65.5 - 71.6	61.6 - 65.5	65.3 ³	75
NSR2 ²	64.5 - 65.6	65.6 - 66.8	62.9 - 63.9	_ 4	70
NSR3	64.4 - 67.9	66.1 - 69.6	62.3 - 65.4	_ 4	75
NSR4	64.6 - 67.7	66.7 - 69.2	61.2 - 65.0	_ 4	75
NSR5	70.0 - 71.3	72.0 - 74.1	66.2 - 67.8	_ 4	75

¹ Additional 3dB (A) façade correction was made to the Free-field measurements.

6.2.4 Observations

The major noise source(s) identified at the NSRs during the normal hour monitoring were dominated by local traffic noise (such as Tsing Yi Road and Container Port Road), in particular container trucks.

² Limit Level is reduced to 70dB(A) for schools and 65dB(A) during examination periods. Examinations were carried out on 9th, 14th & 18th April 2009.

³ No adjustments were made on some of the measured noise levels, since corresponding baseline level ≥ measured noise level. The measured noise levels were mainly dominated by local traffic noise and the construction noise generated from the Phase 3 Contract was not noticeable at NSRs according to the field study record.

⁴ No adjustments were made on all measured noise levels, since corresponding baseline level ≥ measured noise level.

6.2.5 Restricted Hour Monitoring

Construction works were carried out at site areas P3-SA3 (Western Tower Site) and P3-SA5 (Eastern Tower Site) during evening time, night-time and public holidays. Noise monitoring was carried out at all monitoring locations (NSR1 to NSR5) during evening-time (1900 – 2300 hours), night time (2300-0700 hours next day) and public-holidays (0700 – 1900 hours). All measured noise levels are presented in *Appendix M2* and a summary of the results is given in *Table 6.4*. Graphical presentation of the monitoring results for the Reporting period is shown in *Appendix N2*.

Table 6.4 Summary of Corrected Impact Noise Levels for Restricted Hour Monitoring

acte of i Summer			-	Restrictea Hour					
T	Measure	d Noise Level	',dB(A),	Construction	Limit Level				
Evening-time		(Range)		Noise Level,	dB(A)				
1900-2300 hrs		İ		dB(A) (Range)					
	$L_{eq(5min)}$	$L_{10(5min)}$	$L_{90(5min)}$	$L_{ m eq(5min)}$	$L_{\rm eq(5min)}$				
NSR1	59.3 - 63.5	60.5 - 66.5	58.0 - 60.0	44.6 - 59.8 2	70				
NSR2	61.2 - 64.7	62.0 - 66.5	60.0 - 62.5		70				
NSR3	61.9 - 65.8	63.7 - 68.5	59.9 - 63.3	$48.0 - 58.4^{\ 2}$	70				
NSR4	61.9 - 64.3	63.7 - 67.4	58.3 - 60.5	_	70				
NSR5	68.5 - 72.3	70.8 - 75.3	63.6 - 68.6	$54.6 - 64.0^{2}$	70				
Night-time	Measure	d Noise Level	1 ,dB(A),	Construction	Limit Level				
2300 – 0700 hrs		(Range)		Noise Level,	dB(A)				
next day				dB(A) (Range)					
next uay	$L_{eq(5min)}$	$L_{10(5min)}$	$L_{90(5min)}$	$L_{eq(5min)}$	$L_{eq(5min)}$				
NSR1	56.7 – 60.2	57.5 – 62.5	55.5 – 58.5	$45.2 - 55.0^{2}$	55				
NSR2	59.4 – 61.7	60.0 - 63.0	58.0 - 61.0	$43.9 - 54.9^{2}$	55				
NSR3	59.2 - 62.2	61.7 - 64.4	56.8 - 60.1	- ³	55				
NSR4	60.0 - 63.0	62.5 - 66.7	54.9 - 58.0	- ³	55				
NSR5	65.1 - 67.8	67.4 - 71.6	61.0 - 64.5	_ 3	55				
	Measure	d Noise Level	1 ,dB(A),	Construction	Limit Level				
Public Holiday		(Range)		Noise Level,	dB(A)				
0700-1900 hrs				dB(A) (Range)					
	$L_{eq(5min)}$	$L_{10(5min)}$	$L_{90(5min)}$	$L_{ m eq(5min)}$	$L_{eq(5min)}$				
NSR1	59.2 – 62.5	61.5 - 65.5	56.5 – 60.0		70				
NSR2	60.1 - 62.6	61.0 - 64.5	58.5 – 61.0	_ 3	70				
NSR3	61.9 - 65.4	63.8 - 68.4	59.1 – 61.9	_ 3	70				
NSR4	61.2 - 64.4	63.4 - 67.5	56.2 - 60.0	_ 3	70				
NSR5	68.6 - 72.2	70.2 - 74.4	61.2 – 69.6	_ 3	70				

¹ Additional 3dB (A) façade correction was made to the Free-field measurements.

6.2.6 Observations

The major noise sources during the restricted hour monitoring were dominated by the operation of CT9 and local traffic noise (Container Port Road and Tsing Yi Road) and in particular container trucks.

² No adjustments were made on some of the measured noise levels, since corresponding baseline level ≥ measured noise level. The measured noise levels were mainly dominated by local traffic noise and the construction noise generated from the Phase 3 Contract was not noticeable at NSRs according to the field study record.

³ No adjustments were made on all measured noise levels, $\bar{\text{since}}$ corresponding baseline level \geq measured noise level.

7 AUDIT RESULTS

7.1 Air Quality

- 7.1.1 For 1-hour TSP monitoring, a total of 90 sets of measurement were carried out during the reporting period and the results of all measurements taken were below the Action/ Limit (AL) Levels.
- 7.1.2 For 24-hour TSP monitoring, a total of 25 sets of measurement were carried out during the reporting period and the results of all measurements taken were below the Action/ Limit (AL) Levels.

7.2 Noise

- 7.2.1 A total of 25 sets of L_{eq(30min)} measurement were carried out during daytime (i.e. 0700 to 1900 hours on normal weekdays) at all monitoring locations (NSR1 to NSR5) during the reporting period and no exceedances were recorded.
- 7.2.2 A total of 25 sets of 6 x $L_{eq~(5min)}$ measurements were carried out during evening-time (i.e. 1900 to 2300 hours) at all monitoring locations during the reporting period and no exceedances were recorded.
- 7.2.3 A total of 25 sets of 4 x $L_{eq (5min)}$ measurements were carried out during night-time (i.e. 2300 to 0700 hours next day) at all monitoring locations during the reporting period and no exceedances were recorded.
- 7.2.4 A total of 25 sets of 6 x L_{eq(5min)} measurements were carried out during public holidays (i.e. 0700 to 1900 hours) at all monitoring locations during the reporting period and no exceedances were recorded.

7.3 Water Quality

- 7.3.1 Two Effluent Discharge Licenses were granted by EPD, one for the Eastern Tower Site (EP760/269/009124I) and the other for the Western Tower Site (EP760/350/008933I) on 20th September 2004 and 21st December 2004 respectively. The variation of the Discharge License (EP760/350/008933I) was granted by EPD on 13th June 2005.
- 7.3.2 In accordance with the approved licenses' conditions, water sampling is required on a bimonthly basis. One water sample was taken for CT8 site area by MHYHJV on 31st March 2009. The water sample was subsequently tested by a HOKLAS accredited laboratory and the results indicated that they have fully complied with the Specific Condition as stipulated in the approved license.
- 7.3.3 One water sample was taken on 27th April 2009 at CT9 site area. The water sample was subsequently tested by a HOKLAS accredited laboratory and the results will be reported in coming EM&A monthly report. The next sampling is scheduled for May 2009 for CT8 site area.

7.4 Waste Management

- 7.4.1 The Waste Management Plan (WMP–Issue 08) was approved by EPD on 8th December 2006.
- 7.4.2 Since May 2004, all non-inert C&D material from the Phase 3 Contract had been disposed of at WENT Landfill. A total of 52m³ of general refuse were delivered to WENT Landfill during the reporting period.
- 7.4.3 With effect from 6th February 2005, inert C&D material had been disposed of at Tuen Mun Fill Bank. During this reporting period, a total of 2,332m³ of public fill and 80m³ broken concrete were delivered to Tuen Mun Area 38.
- 7.4.4 On 18th March 2005, approval was granted by PFC, CEDD to deliver a maximum of 4,000m³ of surplus filling material to "Route 9 Section between Shek Wai Kok and Chai Wan Kok (TW/98/02)" for re-usage purposes. From March 2005 onwards, a total of 4,512m³ (752 dump trucks) were delivered to TW/98/02.
- 7.4.5 On 7th December 2005, approval was granted by PFC, CEDD to deliver a maximum of 3,000 m³ of surplus filling material to "Route 8 Ngong Shuen Chau Viaduct (HY/2000/21)" for reusage purposes. From December 2005 onwards, a total of 2,004m³ (334 dump trucks) filling material were delivered to HY/2000/21.
- 7.4.6 On 23rd January 2006, approval was granted by PFC, CEDD to deliver a maximum of 3,000 m³ of surplus filling material to "Drainage Improvement in East Kowloon (DC/2004/03)" for re-usage purposes. From January 2006 onwards, a total of 138m³ (23 dump trucks) filling material were delivered to DC/2004/03.
- 7.4.7 CEDD was notified that a total of 1,600 m³ of broken concrete and broken asphalt had been delivered to "Ampliacao Do Novo Terminal Maritimo Da Taipa" Project in Macau by a derrick barge for the formation of internal haul roads in November 2007.
- 7.4.8 With the Marine Department Notice, a total of 1,125 nos. of concrete blocks were delivered and laid on the designated seabed as artificial reefs since 7th July 2008.
- 7.4.9 The quantities of different waste and their handling are summarized in *Table 7.1*.

Table 7.1 Summary of Waste Disposal during the Reporting Period

Material	Туре	Handling Method	Handling	Temporary Storage
			Quantities in the	Locations On-site
			reporting period	(if applicable)
C&D	Public Fill	Tuen Mun Fill Bank	$2,332 \text{ m}^3$	N/A
material	Broken Concrete	Tuen Mun Fill Bank	80 m^3	N/A
	C&D Waste	To be recycled	3 m ³ (plastic)	P3-SA2 and P3-SA5
		(paper& plastic)	110 m ³ (paper)	Contractor's Office
		To be recycled (metal)	30 kg	N/A
General 1	Refuse	Collected by licensed	52 m^3	N/A
		collector for disposal to		
		WENT		
Chemica	l waste	Collected by licensed	N/A	Western Tower &
		chemical waste		Eastern Tower Site
		collector		

7.5 Site Audits / Inspections

Photographic records provided by MHYHJV for their mitigation measures taken to rectify the deficiencies identified on site are presented in Appendix Q.

7.5.1 Environmental Team Site Inspections

Weekly site inspections were conducted by the ET during the reporting period and the major findings and MHYHJV's proposed / implemented corrective and preventive measures are summarized as follows:

i. MHYHJV was reminded to protect the existing gullies at area P3-SA3G properly in order to avoid substandard effluent discharge into storm drain.

Corrective and Preventive Actions – The existing gullies have been protected by geotextile. Completed and closed. (Please refer **Appendix** Q Photo 01).

7.5.2 Independent Environmental Checker (IEC) Site Audits

The monthly IEC audit was carried out on 22nd April 2009. One general reminder was recorded and presented as follows:

i. MHYHJV was reminded to protect the existing gullies at area P3-SA3G properly in order to avoid substandard effluent discharge into storm drain.

Corrective and Preventive Actions – The existing gullies have been protected by geotextile. Completed and closed. (Please refer **Appendix Q** Photo 01).

7.5.3 Environmental Protection Department (EPD) Site Inspections

No joint site inspections were carried out with EPD during the reporting period.

8 ENVIRONMENTAL NON-COMPLIANCE, COMPLAINTS, NOTIFICATIONS OF SUMMONSES AND PROSECUTIONS

8.1 Summary of Environmental Non-Compliance

8.1.1 No Action / Limit Level exceedances were recorded in this reporting period and they are

8.1.2 Table 8.1 Summary of Non-Compliance for the Reporting Period

Media/	No. of Ex	ceedance	Action	Remarks	
Nature	Action Level	Limit Level	Taken	Taken	
Air Quality	0	0	-	-	-
Noise	0	0	ı	-	-

8.2 Summary of Complaints

8.2.1 No environmental related complaints were received during the reporting month. The summary for all the complaints received since the commencement of the Phase 3 Contract is presented in *Table 8.2*. The details of previous complaints and statistics are attached in *Appendices 01* and *02* respectively.

Table 8.2 Summary of Total Complaint Received

Total No. of	No. of complaint received within reporting period	No. of Active	No. of Inactive/Closed
Complaint Received		Complaint	Complaint
1	0	0	1

8.3 Summary of Notifications of Summonses and Prosecutions

8.3.1 No notifications of summonses or prosecutions were received on the environmental performance for Phase 3 Contract since the commencement of construction.

9 ROUTE 8 – TRAFFIC CONTROL AND SURVEILLANCE SYSTEM (TCSS)

9.1 Key issues for the Construction Works of TCSS

- 9.1.1 The construction of the "Route 8 Traffic Control and Surveillance System Contract (HY/2003/05)" (TCSS) Contract was awarded to Delcan-Imtech-GECS-Joint Venture (DIGJV) and the construction work of TCSS within Phase 1 Contract (Route 8 Ngong Shuen Chau Viaduct) site area was commenced on 4th April 2007.
- 9.1.2 The construction work of TCSS within Phase 1 Contract (Route 8 Ngong Shuen Chau Viaduct) and Phase 2a Contract (Route 8 Nam Wan Tunnel and West Tsing Yi Viaduct) site area was commenced on 4th April 2007 and 25th October 2006 respectively. Since the no further EM&A during construction phase would be carried out for both Phase 1 and Phase 2a Contracts and therefore, all future TCSS works within Phase 1 and Phase 2a would be reported in this monthly EM&A report.

9.2 Audit Results

- 9.2.1 A joint site audit was carried out amongst IEC/ET/RSS/DIGJV on 22nd April 2009. No adverse comments were raised by any parties.
- 9.2.2 DIGJV reported that no C&D materials were disposed off site to designated public filling area during the reporting period.

10 FUTURE KEY ISSUES

10.1 Key Issues for the Coming Month

- 10.1.1 Works to be taken for the coming monitoring period will be similar to the previous month as follows:
 - i. Tower construction
 - ii. backspan and mainspan construction
 - iii. Steel decks construction
 - iv. Road and utilities construction

10.1.2 Potential environmental impacts arising from the above construction activities are mainly associated with dust, noise, site run-off and waste. However, with the implementation of the following mitigation measures, potential impacts to the surrounding sensitive receivers could be minimized.

10.1.3 Construction Dust

- i. frequently watering of haul road and unpaved areas;
- ii. prohibition of open burning on site;
- iii. investigation of other dust sources near air sensitive receivers;
- iv. regularly watering or covering of open areas and stockpiles with tarpaulin;
- v. hydro-seeding or covering inactive sand fill areas with impervious sheeting if necessary;
- vi. frequently watering during concrete breaking operation;
- vii. switching off vehicles and equipment while not in use; and
- viii. regular maintenance of onsite machinery and vehicles.

10.1.4 Construction Noise

- i. identification of noise sources arising within and outside work site; and
- ii. provision of noise barriers when necessary.

10.1.5 Construction Run-off

- i. identification of sources of run-off from site:
- ii. provision of sandbags/bunds/channels to direct run-off to silt/sand removal facilities;
- iii. avoidance of direct discharge of wastewater into storm water drainage; and
- iv. provision of treatment of wastewater and run-off prior to discharge.

10.1.6 Construction Waste Management

- i. avoidance of accumulation of construction waste materials and/or general refuse on site;
- ii. segregation of C&D waste;
- iii. collection of chemical waste or oil and disposal of chemical waste in accordance with relevant regulations;
- iv. regularly removing of waste materials on site; and
- v. every dump truck should be properly covered before leaving site.

10.2 Monitoring Schedule for the Coming Three Months

The tentative schedules for dust and noise monitoring for the next three months are attached in Appendix P.

11 RECOMMENDATIONS AND CONCLUSIONS

11.1 Conclusions

- 11.1.1 This Environmental Monitoring and Audit (EM&A) report presents the EM&A works undertaken during the period from 29th March 2009 to 28th April 2009 in accordance with EM&A Manual which forms part of the EIA Report (Register No. AEIAR-018/1999).
- 11.1.2 A total of 90 sets of 1 hour TSP and 25 sets of 24-hours TSP measurements were carried out at all monitoring locations during the reporting period and the results of all measurements taken were below the Action/Limit (AL) Levels.

- 11.1.3 A total of 25 sets of $L_{eq(30min)}$ measurement during daytime (i.e. 0700 to 1900 hours) were carried out at five monitoring locations during the reporting period and no exceedances were recorded.
- 11.1.4 A total of 25 sets of 6 x L_{eq(5min)} measurements during evening-time (i.e. 1900 to 2300 hours) were carried out at five monitoring locations during the reporting period and no exceedances were recorded.
- 11.1.5 A total of 25 sets of 4 x L_{eq(5min)} measurement during night time (i.e. 2300 to 0700 hours next day) were carried out at five monitoring locations during the reporting period and no exceedances were recorded.
- 11.1.6 A total of 25 sets of 6 x L_{eq(5min)} measurements during public-holidays (i.e. 0700 to 1900 hours) were carried out at five monitoring locations during the reporting period and no exceedances were recorded.
- 11.1.7 No environmental complaints were received during the reporting period.
- 11.1.8 No notifications of summonses or prosecutions were received on the environmental performance for Phase 3 Contract since the commencement of construction works.
- 11.1.9 ET and IEC audits were carried out in accordance with the Phase 3 Contract's EM&A Manual and deficiencies identified were mainly related to protection of the existing drainage. MHYHJV had carried out immediate corrective / mitigation measures to rectify these issues.
- 11.1.10 No joint site inspections were carried out with EPD during the reporting period.
- 11.1.11 A joint site audit was carried out amongst IEC/ET/RSS/DIGJV on 22nd April 2009. No adverse comments were raised by any parties.

11.2 Recommendations

According to the environmental audits undertaken during the reporting period, the following recommendations have been made:

11.2.1 Construction Dust

- i. Site access road and exposed areas should be watered regularly to ensure the soil surface is moist;
- ii. Dusty areas should be watered frequently;
- iii. Open stockpiles should be covered properly by tarpaulin or similar fabric;
- iv. Concrete breaking works should be watered frequently; and
- v. Watering for any earth moving activities.

11.2.2 Construction Noise

- i. The numbers of powered mechanical plant operating should not exceed the allowable plant number for each construction activity stated in the Construction Noise Permits;
- ii. Regular maintenance of machinery; and
- iii. Noisy equipment should be located as far as possible from the NSRs.

11.2.3 Water Quality

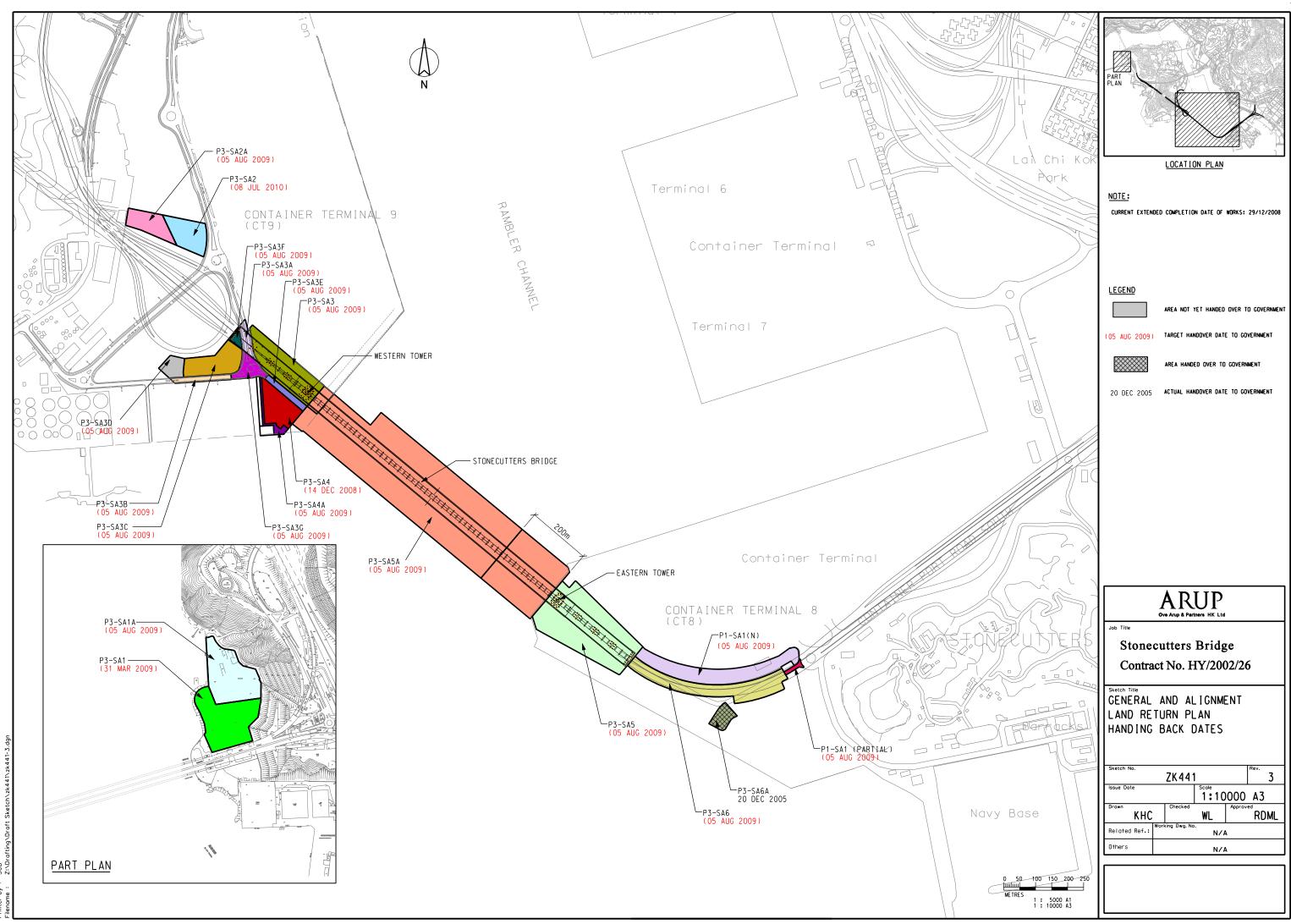
- i. All surface run-off/wastewater should be diverted to appropriate water treatment facilities before discharge;
- ii. Sedimentation tanks/basins should have adequate capacity for settling surface runoff;
- iii. The condition of u-channel, catch pits and wheel washing facilities should be regularly maintained.
- iv. Vehicle and plant servicing area, wheel washing bay should be connected to storm drains via a petrol interceptor;
- v. Site hoarding should be tightly sealed at the bottom to prevent seepage of surface runoff from the site; and
- vi. Accumulation of water in drip trays and at chemical/fuel storage area should be avoided.

11.2.4 Waste/Chemical Management

- i. Contaminated soil should be collected and disposed of as chemical waste;
- ii. All types of waste should be separated on site prior disposal;
- iii. All types of waste should be collected by licensed waste collectors; and
- iv. Good housekeeping should be implemented throughout the whole construction period.

Appendix A

Site Location Plan



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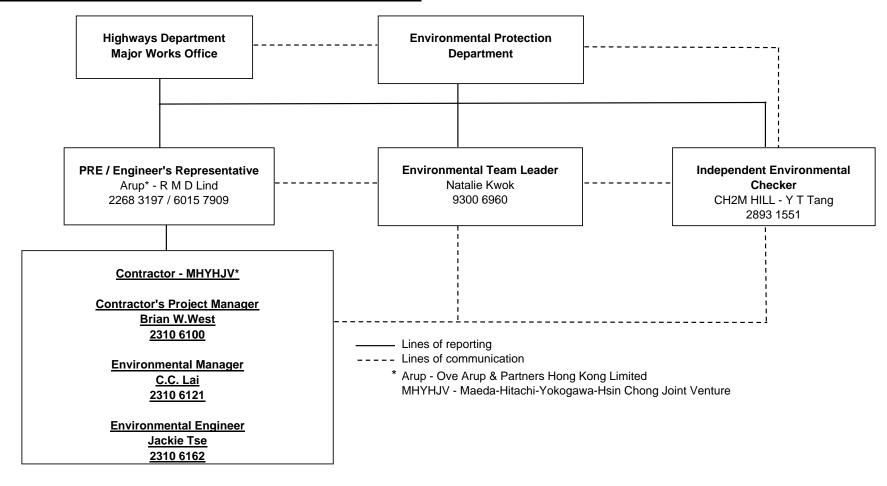
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Appendix B

Project's Environmental Organization Chart and Contact Details

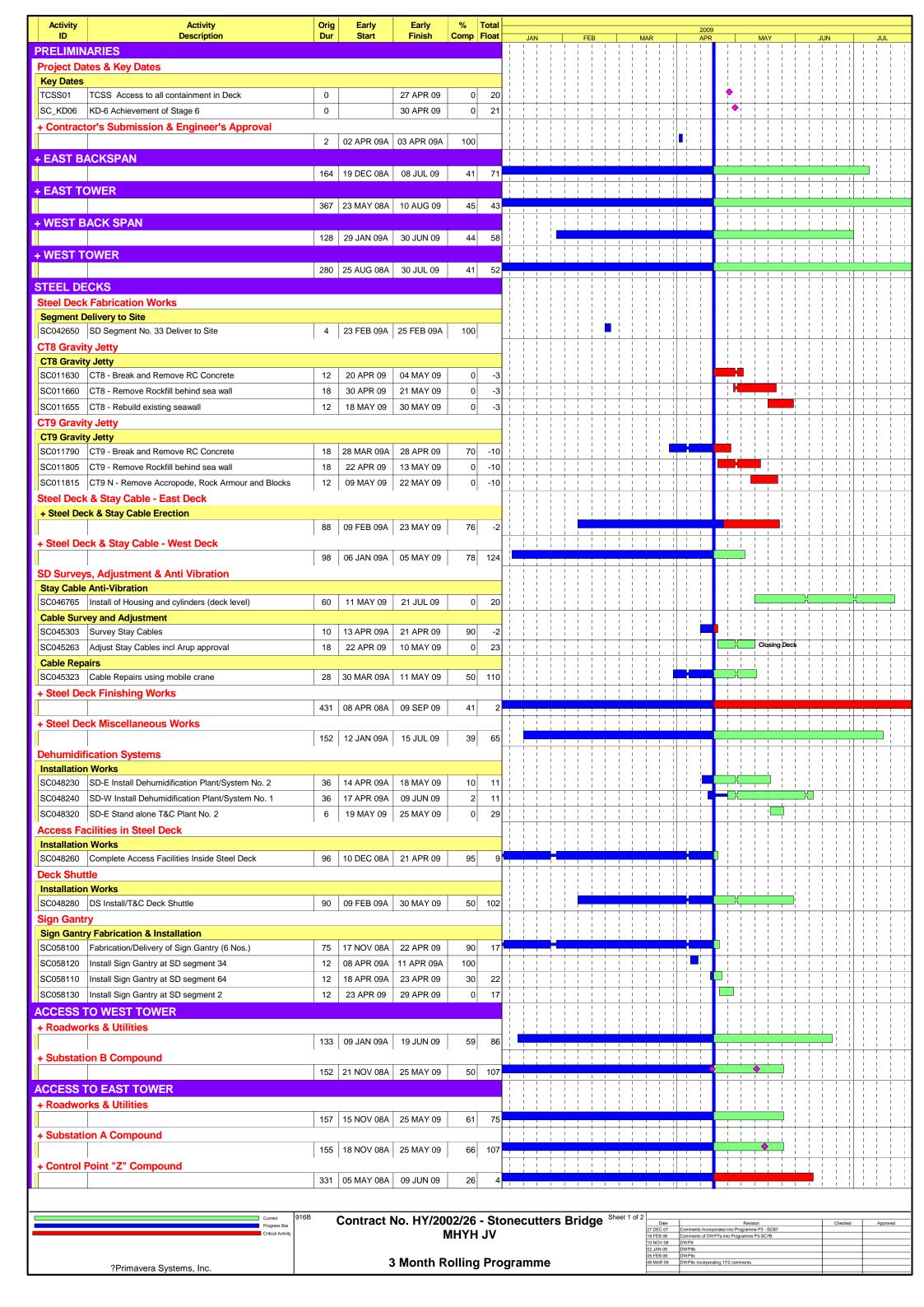
Contract No. HY/2002/26 Route 8 Phase 3 Stonecutters Bridge

Appendix B: Project's Environmental Organisational Chart and Contact Details



Appendix C

Three-Month Rolling Programme



	Activity Description	Orig Dur	Early Start	Early Finish	% 1 Comp F	Γotal Float	JAI	N		FEB		MAR		20 AP			MAY		JU	JN .		Jl
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	Sec. System Material/Equipment Delivery to Site	72	03 OCT 07A	23 APR 09	95	43				1 1		1 1 1		ļ ļ			 	1 1	1 1			- 1
	bmission for E & M Works						1 1 1 1		 	I I I I I I I I I I I I I I I I I I I	 	1 1 1	1			1	1 1 1 1 1 1		1 1	1		1
Over-all Su SC123220	Submission of Spare Parts list for E&M	30	18 MAR 09A	24 MAY 09	20	37			i				i			i	i i			į		i
	CTOR'S DESIGN (Design & Procurement)		10 10 10 10 10 10	21111111100	20	01	1 1	1 1		1 1						-		+ +				+
	Maintenance Unit						 	 			 						 					1
	ent/Fabrication/Delivery						 		1	 	 	 				 	1 1 1 1 1 1		1 1	1		1
	TMU Manufacture Tower Top Maint. Unit & Deliver	136	30 SEP 08A	14 MAR 09A	100	•	1 1	1 1	1	I I		1 1 1	1			1	1 1 1 1		 	<u> </u>	1 1	1
Windscree	ens bmissions & Approval								i				il			į				į		i
	WS Fabrication Approvals	24	20 APR 09	18 MAY 09	0	89			i				il			<u>_</u>				į		i
	ent/Fabrication/Delivery						1 1		1	1 1		 					 	 		-		÷
SC134110	ET - Site Measurement & Trial	12	20 APR 09A		100		 			1 1								<u> </u>	<u> </u>	<u> </u>	<u>ii i</u>	
	ET - Manufacture Windscreens	100	20 APR 09	17 AUG 09	0	13	1 1	1 1	1	1 1	 	1 1 1	-	1 1			1 1	1 1	-		++-	1
	WT - Site Measure & Trial WT - Manufacture Windscreens	100	20 APR 09A 20 APR 09	20 APR 09A 17 AUG 09	100	13	 	 	 	 	 	 	- -	 						_		
l	ication Systems	100	20 APR 09	17 AUG 09	0	13	1 I 1 I	1 I	1	1 I 1 I		1 1 1	1			1	 	 	1 1	+		Ŧ
	ent/Fabrication/Delivery						1 1 1 1	1 1 1 1	 	I I I I I I I I I I I I I I I I I I I	 	1 1 1				1	1 1 1 1	1 1 1 1	1 1	1		1
SC134650	DS Deliver Dehumidication System to Site	20	17 FEB 09A	09 APR 09A	100		<u> </u>	<u>i</u> i	i							i	i i	ii		<u>i</u>		i
Highway L							i i		i				i			į	ii			į		į
	ent/Fabrication/Delivery HL Procure/Fabricate Highway Lighting	216	27 AUG 07A	16 MAY 09	70	42			ė				i i							į		i
	HL Deliver Highway Lighting to Site	48	02 MAR 09A	01 JUN 09	50	29	1 1	1 1		1 1				+					++	+	##	+
Steel Deck							1 1	1 1	I	1 1		1 1 1		1 1			1 1	1 1		+		+
	ent/Fabrication/Delivery						 			I I	 		1		i			! !		!		-
l	SDG Manufacture Steel Deck Gantry	312	03 JAN 08A	03 AUG 09	40	0	1 1	1 1	1	i i		1 1 1	i				i i		+++	-	1	-
	Deck Gantry ent/Fabrication/Delivery						1 1 1 1	1 1 1 1	 	I I I I I I I I I I I I I I I I I I I	 	1 1 1				1	1 1 1 1	1 1 1 1	1 1	1		1
	RDG Manufacture Concrete Deck Gantry	330	18 OCT 07A	04 JUL 09	60	4			÷			; ;	- ;	H		H		\rightleftharpoons	+	$\dot{+}$		1
	Manufacture Gantry Rail	80	01 SEP 08A	31 MAR 09A	100	1			=					1 1			1 1	1 1	++	-		1
Stay Cable									1							1						1
	ent/Fabrication/Delivery	200	05 1411 004	16 MAY 09	75	E 1			-	1 I 1 I	 	1 1 1				1	1 	1 1 1 1 1 1	 	 		1
	SCG Manufacture Stay Cable Gantry SCG Deliver Stay Cable Gantry to Site	200	05 JAN 09A 18 MAY 09	16 MAY 09 30 MAY 09	75	54 54				 	 	1 1 1				-	 		1 1		+++	1
Rack and F		12	.5 .0	20 1411 (1 03			<u>i i</u> I I I I	1 i 1 1 1 1	1	1 i 1 l 1 l	1 i 1 l 1 l		1	1 i 1 1 1 1		 		1 I 1 I 1 I	1 I 1 I		#	
Design Suk	bmissions & Approval						 		1		1 1 1 1		il			 		1 1		 		i
	RPL Fabrication Drawings	27		20 FEB 09A	100		1 1		_				-	1 1		<u> </u>		1 1		<u> </u>	11 1	
	RPL Approval of Fabrication Drawings	25	20 SEP 08A	21 MAR 09A	100					1 1				1 1		1	1 1	+ +			##	-
	ent/Fabrication/Delivery RPL Deliver Rack & Pinion Lifts to Site	25	18 FFR 004	10 MAR 09A	100		1 1 1 1 1 1	1 1 1 1 1 1	 		1 1			1 1 1 1 1 1		 	1 1 1		 	 		1
	Masts for WASHMS		.5. 25 037		100		1 I 1 I 1 I	1 1 1 1 1 1		1 I 1 I 1 I	1 1 1 1 1 1		1	1 I 1 I 1 I			1 I 1 I 1 I	$\begin{array}{c c} I & I \\ \hline I & I \\ I & I \end{array}$	$\begin{array}{c c} I & I \\ \hline I & I \\ I & J \end{array}$		1 1 1 1 1 1	1 1 1
	ent/Fabrication/Delivery						i] i			 		il			1	1 Í 1 I 1 I			1		1
Procureme	BM Manufacture Booms and Masts	100	15 OCT 08A	03 APR 09A	100	1	1 1		=	1 1	1 1	1 1 1	- !	<u>i i i </u>	j	i	i i	<u> </u>	<u> </u>	<u>i</u>	<u>i i</u>	i
		31	20 APR 09	04 MAY 09	0	53	1 1	1 1	1			1 1 1	- 1	1 1		n l	1 1	1 1			11 1	i

Appendix D1 Action/Limit Levels for Air Quality

Appendix D1: Action /Limit Levels for Air Quality

ACTION AND LIMIT LEVELS FOR 24-HOUR TSP

Location	Action Level (μg/m ³)	Limit Level (μg/m³)
ASR1	174.0	260
ASR2	185.5	260
ASR3	200.0	260
ASR4	192.0	260
ASR5	178.0	260

ACTION AND LIMIT LEVELS FOR 1-HOUR TSP

Location	Action Level (μg/m ³)	Limit Level (μg/m ³)
ASR1	350.0	500
ASR2	350.0	500
ASR3	350.0	500
ASR4	350.0	500
ASR5	324.0	500

Appendix D2 Action/Limit Levels for Noise

Appendix D2: Action/Limit Levels for Noise

Action and Limit Levels for Construction Noise

Time Period	Action	Limit
0700-1900 hrs on normal weekdays	When one documented complaint is received	75dB(A)*
0700-2300 hrs on holidays; and 1900-2300 hrs on all other days	When one documented complaint is received	70 dB(A)
2300-0700 hrs of next day	When one documented complaint is received	55 dB(A)

^{*} Reduce to 70 dB(A) for schools and 65 dB(A) during school examination periods.

Appendix E

Environmental Monitoring Schedule for the Reported Period

Environmental Monitoring Schedule between 29 March 2009 and 28 April 2009 for NSR1 to NSR5 and ASR1 to ASR5

Sunday		Monday	Tuesday		Wednesday		Thursday		Friday	Saturday
Noise _{P.H.}	29-Mar	30-Mar 1hr-TSP	Noise Noise _{evening} Noise _{night}	31-Mar		1-Apr	24hrs-TSP	2-Apr	3-Apr 1hr-TSP	4-Ap
Noise _{P.H.}	5-Apr	6-Apr 1hr-TSP (ASR2)	Noise Noise _{evening} Noise _{night}	7-Apr	24hrs-TSP	8-Apr	1hr-TSP	9-Apr	10-Apr	11-Ap
Noise _{P.H.}	12-Apr	13-Apr	24hrs-TSP	14-Apr	1hr-TSP	15-Apr	Noise Noise _{evening} Noise _{night}	16-Apr	17-Apr 1hr-TSP (ASR1)	18-Ap
Noise _{P.H.}	19-Apr	20-Apr 24hrs-TSP	1hr-TSP		Noise Noise _{evening} Noise _{night}	22-Apr		23-Apr	24-Apr 1hr-TSP (ASR3)	25-Ap 24hrs-TSP
Noise _{P.H.}	26-Apr	27-Apr 1hr-TSP	Noise Noise _{evening} Noise _{night} 1hr-TSP (ASR3	28-Apr						

1hr-TSP 3 x 1 hour TSP monitoring at ASR1 to ASR5 during 0900~1800.

24hrs-TSP 24 hours TSP monitoring at ASR1 to ASR5

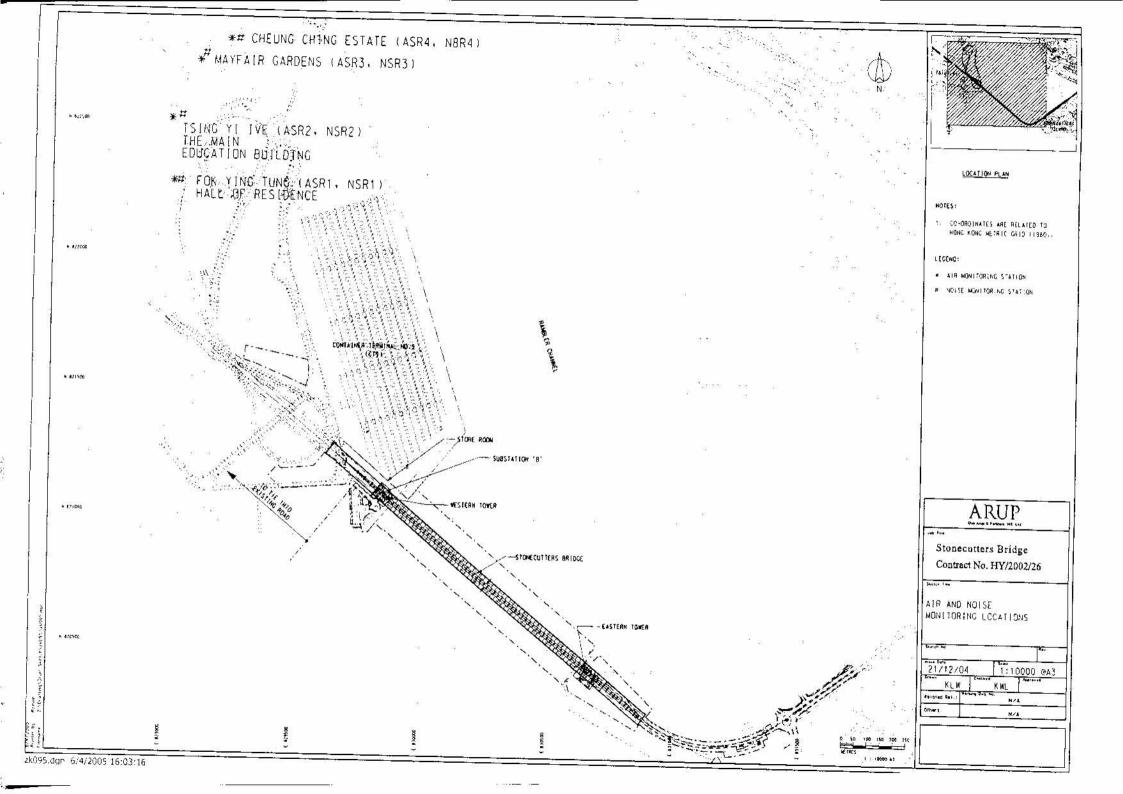
 $\begin{tabular}{lll} Noise & Leq30 & measurement at NSR1 to NSR5 & during 0700~1900. \\ NoiseEvening 6 x Leq5 & measurement at NSR1 to NSR5 & during 1900~2300 \\ NoiseNight & 4 x Leq5 & measurement at NSR1 to NSR5 & during 2300~0700 \\ NoiseP.H. & 6 x Leq5 & measurement at NSR1 to NSR5 & during 0700~1900 \\ \end{tabular}$

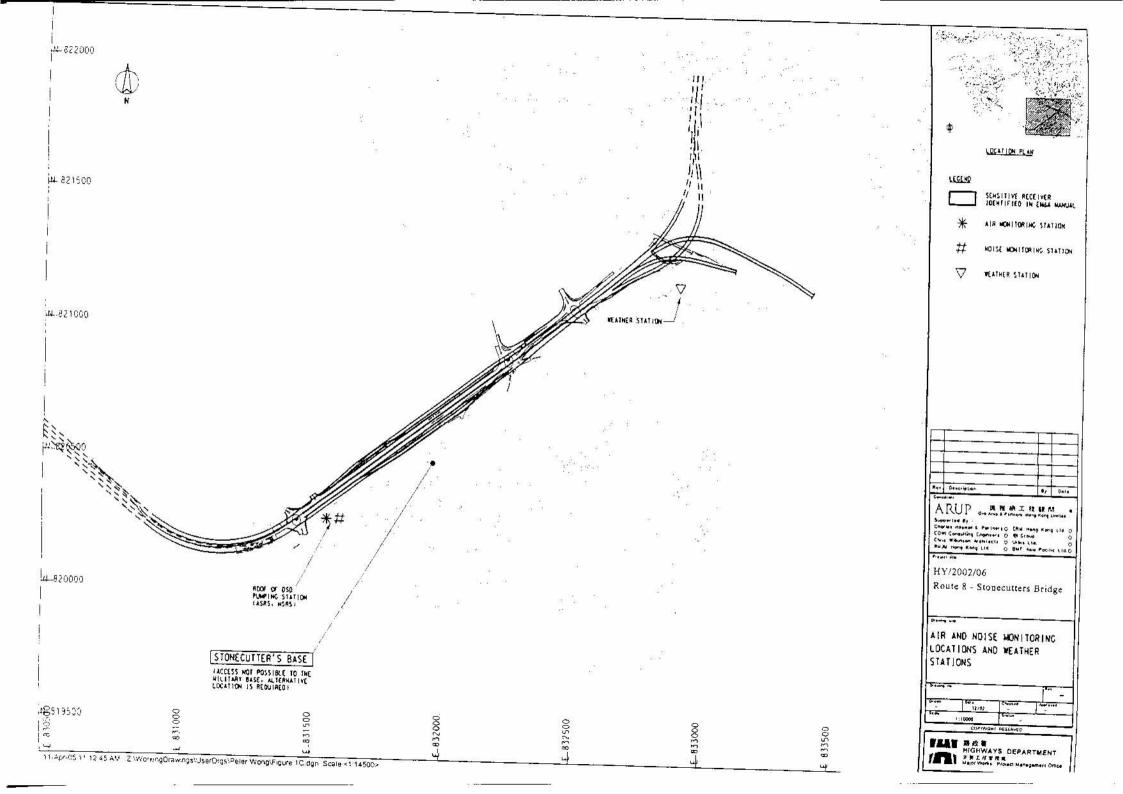
Bold and Italic Rescheduled monitoring events

Reschedule of Air Monitoring Event due to Failure of Power Supply

Tentative Schedule	Rescheduled to
3-Apr-09	6/4/2009 (ASR2)
15-Apr-09	17/4/2009 (ASR1)
21-Apr-09	24/4/2009 (ASR3)
27-Apr-09	28/4/2009 (ASR3)

Appendix F Locations of Monitoring Locations





Appendix G1 Calibration Certificates for HVS

TSP - Total Suspended Particulates High Volume Sampler In-situ Calibration Report (ASR1)

Calibration Date	31-Jan-09	Next Calibration Date	31-Mar-09
Station	H.K. Institute of Vocational Education-Tsing Yi (IVE)	Equipment no.	P2.HVS.04
	Fok Ying Tung Hall of Residence (ASR1)		

100年以前90年9月		Ambient Condition		
Temperature, Ta (K)	289.85		Pressure, Pa (mmHg)	763.79

	Ontice Transfe	r Standard Information	
Equipment no.	P2.CAL.04		
Slope, mo	1.57672	Intercept, co	-0.00705
ast Calibration Date	4-Nov-08	Next Calibration Date	4-Nov-09

Calibration Point	Orifice Manometer Reading, ΔO (inch)	Orifice Q _{etd} (CMM) x-axis	HVS Manometer Reading, ΔH (inch)	[ΔH x (Pa/760) x (298/Ta)] ^{1/2} y-axis
1	7.8	1.80	8.0	2.88
2	6.4	1.64	6.3	2.55
3	5.5	1.52	5.6	2.41
4	4.4	1.36	4.6	2.18
5	3.4	1,19	3.6	1.93

By Liner Regression of y on x

Slope, mh =

1.5101

Intercept, ch =

0.1209

*Correction Coefficient, R = 0.9976 Calibration Result: ACCEPT

Remark: Bi-monthly Calibration

Calibrated By: _

_

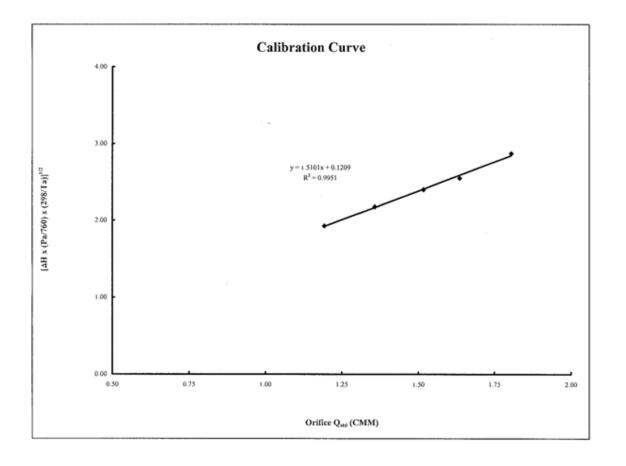
ate: 31/Jan (8

ASR1 2009-01-31.xls

Page 1 of 2

Rev 0 14th May 2002

^{*} If the Correlation Coefficient, R is < 0.9900. Checking and Recalibration are require.



TSP - Total Suspended Particulates High Volume Sampler In-situ Calibration Report (ASR1)

Calibration Date	30-Mar-09	Next Calibration Date	30-May-09
Station	H.K. Institute of Vocational Education-Tsing Yi (IVE)	Equipment no.	P2.HVS.04
	Fok Ying Tung Hall of Residence (ASR1)		

TOP OF THE WAR STORES		Ambient Condition		
Temperature, Ta (K)	291.65		Pressure, Pa (mmHg)	761.95

Orifice Transfer Standard Information					
Equipment no.	P2.CAL.04				
Slope, mo	1.57672	Intercept, co	-0.00705		
Last Calibration Date	4-Nov-08	Next Calibration Date	4-Nov-09		

Calibration Point	Orifice Manometer Reading, ΔO (inch)	Orifice Q _{std} (CMM) x-axis	HVS Manometer Reading, ΔH (inch)	[ΔH x (Pa/760) x (298/Ta)] ^{1/2} y-axis
1	8.0	1.82	8.2	2.90
2	6.5	1.64	6.3	2.54
3	5.5	1.51	5.7	2.42
4	4.5	1.37	4.7	2.19
5	3.4	1.19	3.5	1.89

By Liner Regression of y on x

Slope, mh = 1.5379 Intercept, ch = 0.0739

*Correction Coefficient, R = 0.9958

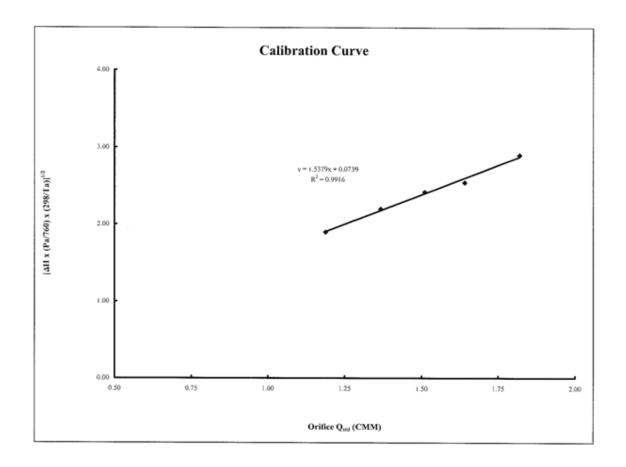
Calibration Result: ACCEPT

* if the Correlation Coefficient, R is < 0.9900, Checking and Refcalibration are require.

Remark: Bi-monthly Calibration

Calibrated By: Date: 31 monthly Calibration

Checked By: Date: 31 monthly Calibration





TSP - Total Suspended Particulates High Volume Sampler In-situ Calibration Report (ASR2)

Calibration Date	31-Jan-09	Next Calibration Date	31-Mar-09
Station	H.K. Institute of Vocational Education-Tsing Yi (IVE)	Equipment no.	P2.HVS.03
	5th Floor Block D of the main Education Building (ASR2)		

1 25 S 2 L 4 S 3 S 4 S 4 S 4 S 4 S 4 S 4 S 4 S 4 S		Ambient Co	ndition	Alexander of the second
Temperature, Ta (K)	289.85		Pressure, Pa (mmHg)	763.79

	Oritice Transfer	r Standard Information	
Equipment no.	P2.CAL.04		
Slope, mo	1.57672	Intercept, co	-0.00705
Last Calibration Date	4-Nov-08	Next Calibration Date	4-Nov-09

Calibration Point	Orifice Manometer Reading, ΔO (inch)	Orifice Q _{std} (CMM) x-axis	HVS Manometer Reading, ΔH (inch)	[ΔH x (Pa/760) x (298/Ta)] ^{1/2} y-axis
1	8.2	1.85	8.0	2.88
2	6.6	1.66	6.7	2.63
3	5.5	1.52	5.3	2.34
4	4.2	1.33	4.6	2.18
5	3.4	1.19	3.5	1.90

By Liner Regression of y on x

Slope, mh =

1.4450

Intercept, ch =

0.2047

*Correction Coefficient, R = 0.9929
Calibration Result: ACCEPT

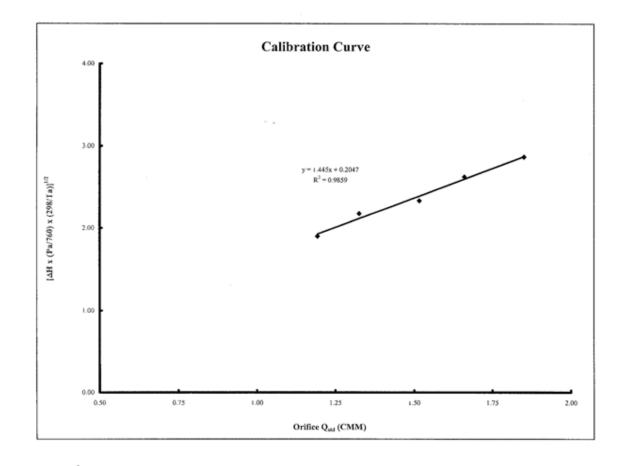
Remark: Bi-monthly Calibration

Calibrated By: _____

Date:

31/Jan 109

^{*} If the Correlation Coefficient, R is < 0.9900. Checking and Recalibration are require.



TSP - Total Suspended Particulates High Volume Sampler In-situ Calibration Report (ASR2)

Calibration Date	30-Mar-09	Next Calibration Date	30-May-09
Station	H.K. Institute of Vocational Education-Tsing Yi (IVE)	Equipment no.	P2.HVS.03
	5th Floor Block D of the main Education Building (ASR2	2)	

		Ambient Condition	ACCOMPANIES OF THE PROPERTY OF	and professional Statement described experiences of the control
Temperature, Ta (K)	291.65		Pressure, Pa (mmHg)	761.95

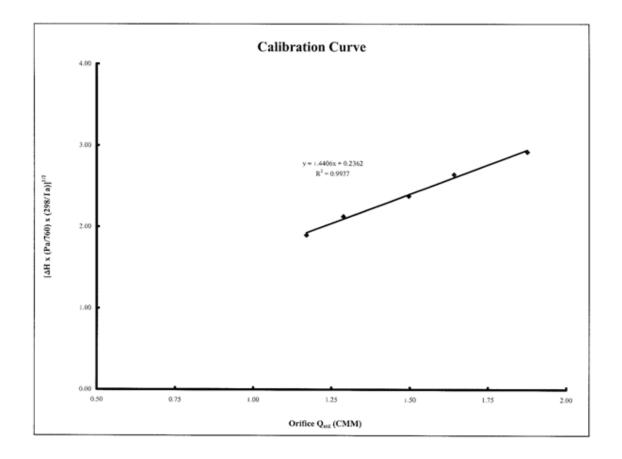
1.04		
AL.04		
672	Intercept, co	-0.00705
v-08	Next Calibration Date	4-Nov-09
7	7672 ov-08	7672 Intercept, co

Calibration Point	Orifice Manometer Reading, ΔO (inch)	Orifice Q _{std} (CMM) x-axis	HVS Manometer Reading, ΔH (inch)	[ΔH x (Pa/760) x (298/Ta)] ^{1/2} y-axis
1	8.5	1.88	8.3	2.92
2	6.5	1.64	6.8	2.64
3	5.4	1.50	5.5	2.37
4	4.0	1.29	4.4	2.12
5	3.3	1.17	3.5	1.89

By Liner Regression of y on x Slope, mh = 1.4406 Intercept, ch = 0.2362 *Correction Coefficient, R = 0.9968 Calibration Result: ACCEPT

* If the Correlation Coefficient, R is < 0.9900. Checking and Recalibration are require.

Remark: Bi-monthly Calibration Calibrated By: ___ Checked By: _



TSP - Total Suspended Particulates High Volume Sampler In-situ Calibration Report (ASR3)

Calibration Date	31-Jan-09	Next Calibration Date	31-Mar-09 .
Station	Mayfair Gardens	Equipment no.	P2.HVS.01
	1st floor adjacent to swimming pool (ASR3)		

		Ambient Condition		SWEETS COMMISSION
Temperature, Ta (K)	289.85		Pressure, Pa (mmHg)	763.79

	Orifice Transfe	r Standard Information	
Equipment no.	P2.CAL.03		
Slope, mo	1.5842	Intercept, co	-0.00884
Last Calibration Date	4-Nov-08	Next Calibration Date	4-Nov-09
		ΔΟ x (Pa/760) x (298/Ta)] ^{1/2} 760) x (298/Ta)] ^{1/2} - co} / mo	

Calibration Point	Orifice Manometer Reading, AO (inch)	Orifice Q _{std} (CMM) x-axis	HVS Manometer Reading, ΔH (inch)	[ΔH x (Pa/760) x (298/Ta)] ^{1/2} y-axis
1	8.3	1.85	8.1	2.89
2	6.3	1.62	6.5	2.59
3	5.4	1.50	5.5	2.38
4	4.5	1.37	4.6	2.18
5	3.3	1.17	3.6	1.93

By Liner Regression of y on x

Slope, mh =

Intercept, ch =

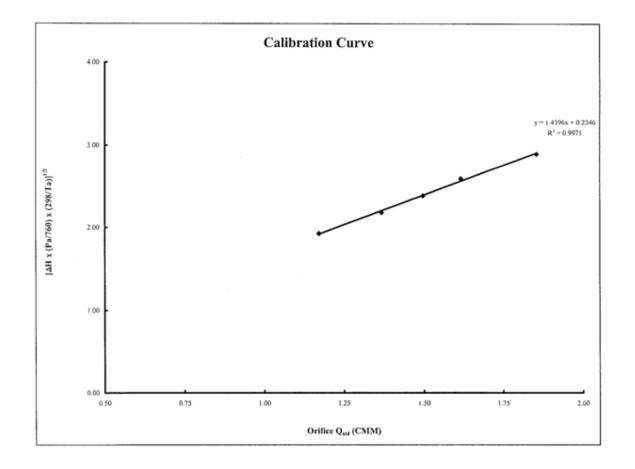
0.2346

*Correction Coefficient, R = 0.9985 Calibration Result: ACCEPT

Remark: Bi-monthly Calibration

Calibrated By: ____

^{*} if the Correlation Coefficient, R is < 0.9900, Checking and Recalibration are require.





TSP - Total Suspended Particulates High Volume Sampler In-situ Calibration Report (ASR3)

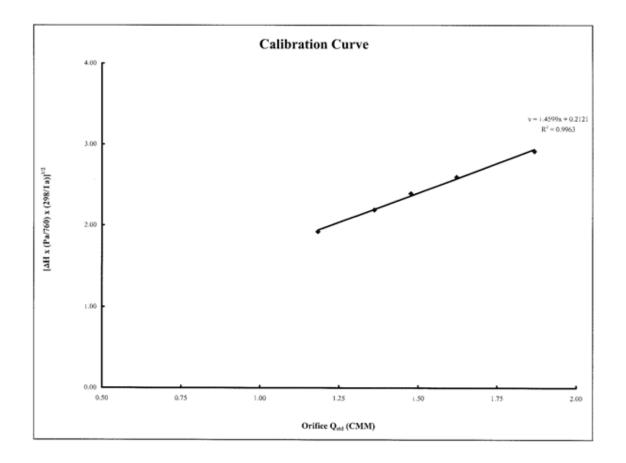
Calibration Date	30-Mar-09	Next Calibration Date	30-May-09
Station	Mayfair Gardens	Equipment no.	P2.HVS.01
	1st floor adjacent to swimming pool (ASR3)		

		Ambient Condition		
Temperature, Ta (K)	291.65		Pressure, Pa (mmHg)	761.95

<u>ำ ระบางการครั้งได้เกียร์เกียร์เกียร์</u>	Orifice Transfe	r Standard Information	
Equipment no.	P2.CAL.03		
Slope, mo	1.5842	Intercept, co	-0.00884
Last Calibration Date	4-Nov-08	Next Calibration Date	4-Nov-09

Calibration Point	Orifice Manometer Reading, ΔO (inch)	Orifice Q _{skl} (CMM) x-axis	HVS Manometer Reading, ΔH (inch)	[ΔH x (Pa/760) x (298/Ta)] ^{1/2} y-axis
1	8.5	1.87	8.3	2.92
2	6.4	1.62	6.6	2.60
3	5.3	1.48	5.6	2.40
4	4.5	1.36	4.7	2.19
5	3.4	1.18	3.6	1.92

By Liner Regression of y on x Slope, mh = 1.4599 0.2121 Intercept, ch = *Correction Coefficient, R = 0.9981 Calibration Result: ACCEPT * If the Correlation Coefficient, R ss < 0.9900. Checking and Recalibration are require. Remark: Bi-monthly Calibration Calibrated By: Checked By: Date:





TSP - Total Suspended Particulates High Volume Sampler In-situ Calibration Report (ASR4)

Calibration Date	31-Jan-09	Next Calibration Date	31-Mar-09
Station	Cheung Ching Estate	Equipment no.	P2.HVS.02
	At the roof of Ching Yung House (25/F)(ASR4)		

	10.700 (1.000 2000)	Ambient Condition		
Temperature, Ta (K)	289.85	-	Pressure, Pa (mmHg)	763.79

03		
L.U3		
12	Intercept, co	-0.00884
-08	Next Calibration Date	4-Nov-09
	42 -08 ma x Q _{-x} + ca = [AQ x (F	

Calibration Point	Orifice Manometer Reading, ΔO (inch)	Orifice Q _{std} (CMM) x-axis	HVS Manometer Reading, ΔH (inch)	[ΔH x (Pa/760) x (298/Ta)] ^{1/2} y-axis
1	8.2	1.84	8.0	2.88
2	6.4	1.63	6.7	2.63
3	5.5	1.51	5.6	2.41
4	4.3	1.34	4.1	2.06
5	3.5	1.21	3.6	1.93

By Liner Regression of y on x

Slope, mh =

1.5670

Intercept, ch =

0.0216

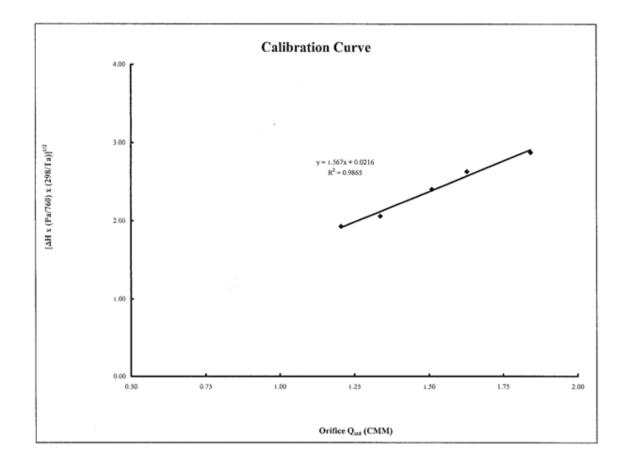
*Correction Coefficient, R = 0.9932 Calibration Result: ACCEPT

Remark: Bi-monthly Calibration

Calibrated By: _____Cm fung
Checked By: _____

Date: 31/7,m/of Date: 31/7,m/of

^{*} If the Correlation Coefficient, R is < 0.9900. Checking and Recalibration are require.



TSP - Total Suspended Particulates High Volume Sampler In-situ Calibration Report (ASR4)

Calibration Date	30-Mar-09	Next Calibration Date	30-May-09
Station	Cheung Ching Estate	Equipment no.	P2.HVS.02
	At the roof of Ching Yung House (25/F)(ASR4)		

State v zakonom deli		Ambient Condition		Between the BORE TO C.
Temperature, Ta (K)	291.65		Pressure, Pa (mmHg)	761.95

CAL OR		
2.CAL.03		
1.5842	Intercept, co	-0.00884
-Nov-08	Next Calibration Date	4-Nov-09
	1.5842 -Nov-08	1.5842 Intercept, co

Calibration Point	Orifice Manometer Reading, ΔO (inch)	Orifice Q _{std} (CMM) x-axis	HVS Manometer Reading, ΔH (inch)	[ΔH x (Pa/760) x (298/Ta)] ^{1/2} y-axis
1	8.4	1.86	8.1	2.88
2	6.5	1.63	6.8	2.64
3	5.4	1.49	5.7	2.42
4	4.4	1.35	4.3	2.10
5	3.3	1.17	3.6	1.92

By Liner Regression of y on x

Slope, mh =

Intercept, ch =

0.2034

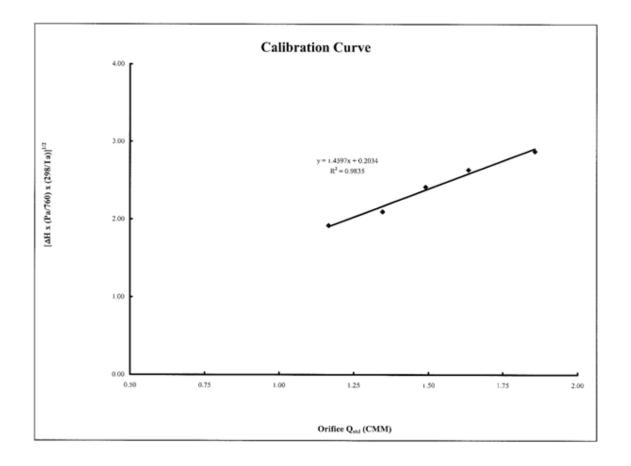
Remark: Bi-monthly Calibration

Rev 0 14th May 2002

^{*}Correction Coefficient, R = 0.9917

Calibration Result: ACCEPT

^{*} If the Correlation Coefficient, R is < 0.9900. Checking and Recalibration are require.



TSP - Total Suspended Particulates High Volume Sampler In-situ Calibration Report (ASR5)

Calibration Date	31-Jan-09	Next Calibration Date	31-Mar-09
Station	ASR5	Equipment no.	E.HVS.02
	Ambi	ent Condition	
Temperature, Ta (K)	289.9	Pressure, Pa (mmHg)	763.8
	Orifice Transfe	r Standard Information	
Equipment no.	P2.CAL.04	1 State and The Children	
Slope, mo	1.57672	Intercept, co	-0.00705
Last Calibration Date	4-Nov-08	Next Calibration Date	4-Nov-09
		ΔO x (Pa/760) x (298/Ta)] ^{1/2}	
	$Q_{std} = \{[\Delta O \times (Pa)]\}$	760) x (298/Ta))1/2 - co} / mo	

Calibration Point	Orifice Manometer	Orifice Q _{std} (CMM)	HVS Manometer	[ΔH x (Pa/760) x (298/Ta)] ^{1/2}
Calibration Foint	Reading, ΔO (inch)	x-axis	Reading, ΔH (inch)	y-axis
1	7.8	1.80	7.8	2.84
2	6.6	1.66	6.8	2.65
3	5.3	1.49	5.6	2.41
4	4.5	1.37	4.4	2.13
5	3.3	1.18	3.4	1.87

By Liner Regression of y on x

Slope; mh =

Intercept, ch =

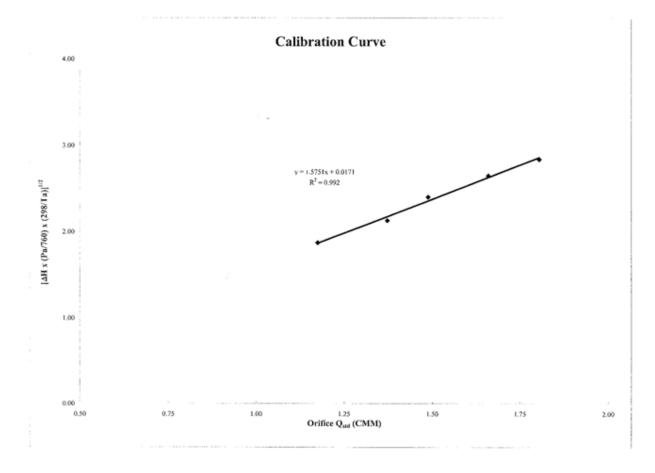
0.0171

*Correction Coefficient, R = 0.9960

Calibration Result: ACCEPT

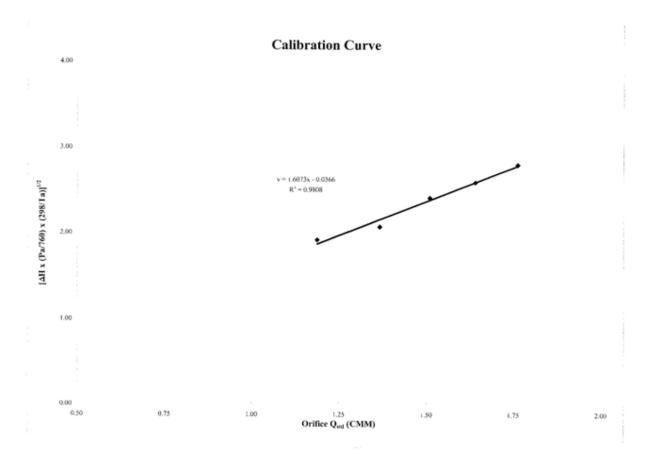
Remark: ____ Calibrated By: Checked By:

^{*} If the Correlation Coefficient, R is < 0.9900. Checking and Recalibration are require.



TSP - Total Suspended Particulates High Volume Sampler In-situ Calibration Report (ASR5)

Station	ASR5	Ambient Condition	Equipment no. Pressure, Pa (mmHg)	E.HVS.02
Temperature, Ta (K)		Ambient Condition	Procesura Da (mmilia)	
Temperature, Ta (K)			Pressure Pa/mmble)	
	0-:6-		Fressure, Fa (Illining)	762.0
	Office	ce Transfer Standard Infor	mation	
Equipment no.	P2.CAL.04			
Slope, mo	1.57672		Intercept, co	-0.00705
ast Calibration Date	4-Nov-08		Next Calibration Date	4-Nov-09
	mo x 0	$Q_{abd} + co = [\Delta O \times (Pa/760) \times (29)]$	98/Ta)] ^{1/2}	
		{[ΔO x (Pa/760) x (298/Ta)] ^{1/2} -		
Calibration Point	Orifice Manometer	Orifice Q _{std} (CMM)	HVS Manometer	[ΔH x (Pa/760) x (298/Ta)] ¹⁶
Cambration Fount	Reading, ΔO (inch) x-axis Reading, ΔH (inch)		y-axis	
1	7.5	1.76	7.7	2.81
2	6.5	1.64	6.6	2.60
3	5.5	1.51	5.7	2.42
4	4.5	1.37	4.2	2.07
5	3.4	1.19	3.6	1.92
Correction Coefficient, R =	1.6073 0.9904 ACCEPT	Intercept, ch =	-0.0366	
If the Correlation Coefficient, R is < 0		W. DROUMED		
	. soos. Grocking and recembration at	e require.		
Remark:				
Calibrated By:	A wone	Date: 31114	v (of	
Calibrated By:		Date: 3 (110(&	60109	
	~			



Appendix G2

Calibration Certificates for Weather Station

Appendix G2: Calibration Certificates for Weather Station

The Weather Station was removed and meteorological data was obtained from Hong Kong Observatory.

Appendix G3

Calibration Certificates for High Volume Orifice Calibrator



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-5028A

I	Date - No Operator	ov 04, 2008 Tisch	Rootsmeter Orifice I.I		833620 1272	Ta (K) - Pa (mm)	295 758.19
	PLATE OR VDC #	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	1.2800 0.9910 0.9050 0.8350 0.6320	4.2 7.1 8.5 9.9 17.1	1.50 2.50 3.00 3.50 6.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
1.0021 0.9983 0.9964 0.9946 0.9850	0.7829 1.0073 1.1010 1.1911 1.5586	1.2295 1.5873 1.7388 1.8781 2.4590	 0.9944 0.9906 0.9887 0.9869 0.9774	0.7769 0.9996 1.0925 1.1819 1.5466	0.7640 0.9863 1.0804 1.1670 1.5279
Qstd slo intercep coeffici y axis =	t (b) = ent (r) =	1.58420 -0.00884 0.99998	 Qa slope intercept coefficie	(b) =	0.99200 -0.00549 0.99998

CALCULATIONS

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

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

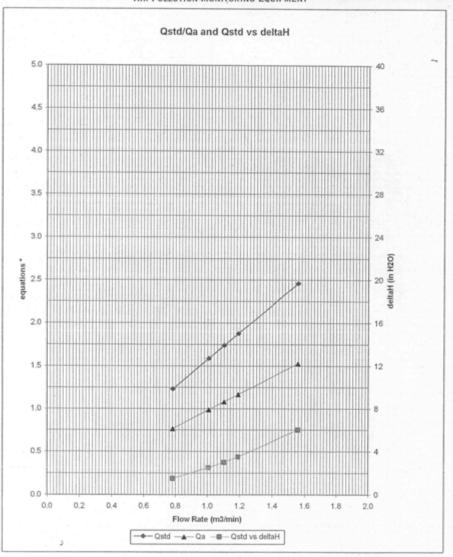
For subsequent flow rate calculations:

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



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



* y-axis equations:

Qstd series:

$$\sqrt{\Delta H \left(\frac{P a}{P s t d}\right) \left(\frac{T s t d}{T a}\right)}$$

Qa series:

#1272



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AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5028A

Date - No Operator		Rootsmeter Orifice I.I		833620 1274	Ta (K) - Pa (mm)	295 758.19
PLATE OR	VOLUME START	VOLUME STOP	DIFF VOLUME	DIFF TIME	METER DIFF Hg	ORFICE DIFF H2O
VDC #	(m3) NA	(m3) NA	(m3) 	(min) 1.2760	(mm) 	(in.)
2 3 4	NA NA NA	NA NA NA	1.00 1.00 1.00	0.9840 0.9030 0.8340	7.1 8.4 9.9	2.50 3.00 3.50
5	NA	NA	1.00	0.6290	17.1	6.00

DATA TABULATION

7							
	Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
	1.0021	0.7854	1.2295		0.9944	0.7793	0.7640
	0.9983	1.0145	1.5873	- CO W. 170	0.9906	1.0067	0.9863
	0.9965	1.1036	1.7388		0.9889	1.0951	1.0804
	0.9946	1.1925	1.8781	1 1 1 1 1 1 1 1	0.9869	1.1833	1.1670
	0.9850	1.5660	2.4590		0.9774	1.5539	1.5279
	Qstd slop intercept coefficie	(b) =	1.57672 -0.00705 0.99988		Qa slope intercept coefficie	(b) =	0.98732 -0.00438 0.99988
						(=,	
		CODM (UDO /	- /360) /300/	2-11		000m/1100/0	n- /n-11
	y axis =	5QKI [H2O (1	Pa/760) (298/1	La)	v axis =	SORT [H20 (7	ra/Pa)

CALCULATIONS

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

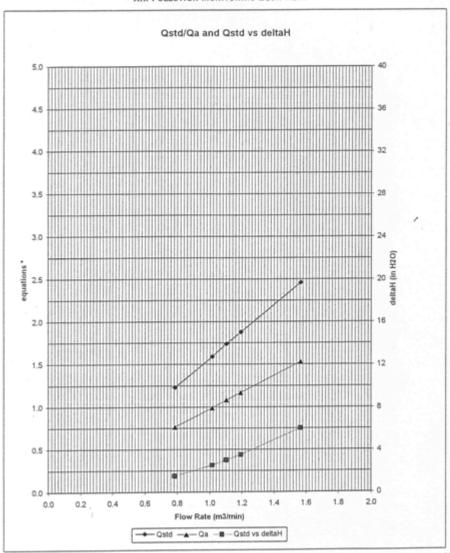
Va = Diff Vol [(Pa-Diff Hg)/Pa] Qa = Va/Time

For subsequent flow rate calculations:



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WWW.TISCH-ENV.COM

AIR POLLUTION MONITORING EQUIPMENT



* y-axis equations:

Qstd series:

$$\sqrt{\Delta H \left(\frac{P a}{P s t d}\right) \left(\frac{T s t d}{T a}\right)}$$

Qa series:

#1274

Appendix G4

Calibration Certificates for Sound Level Meter and Calibrator



綜合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD.

GF, 9F, 12F, 13F, 8 20F, Leader Center 37 Wong Chik Hang Road, Aberdeen, Hong Kong 労運資計な道37就利達中に地下・9種-12種-13種及20個 E-mail: smeo®olgismec.com Website: www.cigismec.com



CERTIFICATE OF CALIBRATION

Certificate No.:	08CA0904 01-01B		Page 1	of	2
tem tested					
Description:	Sound Level Meter	(Type 1)	Microphone		
Manufacturer:	Pulsar, England	1-36	Pulsar, England		
Type/Model No :	Model 30		MK226		
Serial/Equipment No :	T220553		110453		
Adaptors used:					
tem submitted by					
Customer Name:	Meada-Hitachi-Yok	ogawa-Hsin Chong J	loint Venture		
Address of Customer:					
Request No.:	PO/HY26/7192				
Date of request:	01-09-2008				
Date of test:	04-09-2008				
Reference equipment	used in the calibr	ation			
Description:	Model:	Serial No.	Expiry Date:	Traceat	ele to:
Auti function sound calibrator	B&K 4226	2288444	11-01-2009	CIGISME	ic .
Signal generator	DS 360	33873	12-06-2009	CEPREI	
ignal generator	DS 360	61227	18-07-2009	CEPRE	
Ambient conditions					
emperature:	23 ± 2 °C				
Relative humidity:	50 ± 15 %				
Vr pressure:	1000 ± 15 hPa				
est specifications					
The Sound Level Me	ter has been calibrate	d in accordance with	the requirements as specif	ed in BS 75	80: Part 1: 1997
	n procedure SMTP00				
			bstituted for the microphon	e which was	removed and
	alent capacitance with				
The acoustic calibrati	on was performed usi	ng an 8&K 4226 sou	nd calibrator and correction	s was applie	ed for the differe
	and pressure respon				

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.

Approved Signatory:

ng Jun Qi

oved Signatory: Str Date: 24-09-2008 Company Chop:

Comments: The results reported in the 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.

© Soits & Materials Engineering Co. Ltd.

Form No CARP152-1/Move 1/Rev C/01/02/0007



綜合試驗有限公司 SOILS & MATERIALS ENGINEERING CO, LTD.



CERTIFICATE OF CALIBRATION

Certificate No :	08CA0917 02A		P	age	1	of	2
Item tested							
Description:	Sound Level Meter	r (Type 1)	, Micropho	ne			
Manufacturer:	Pulsar, England		Pulsar, Er	ngland			
Type/Model No.:	Model 30		MK226	-			
Serial/Equipment No :	T220551		110452				
Adaptors used:							
Item submitted by				-			
Customer Name:	Meada-Hitachi-Yok	kogawa-Hsin Chong	Joint Venture				
Address of Customer:							
Request No.:	PO/HY26/7192						
Date of request:	12-09-2008						
Date of test:	17-09-2008						
Reference equipment	used in the calibr	ation					
Description:	Model:	Serial No.	Expiry Da	ete:		Traceable	e to:
Multi function sound calibrator	88K 4226	2288444	11-01-200	9		CIGISMEC	;
Signal generator	DS 360	33873	12-06-2001	9		CEPREI	
Signal generator	DS 360	61227	18-07-2009	>		CEPREI	
Ambient conditions					-		
Temperature:	23 ± 2 °C						
Relative humidity:	50 ± 15 %						
	1000 ± 10 hPa						

- 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 replaced by an equivalent capacitance within a tolerance of ±20%. The acoustic calibration was performed using an BSK 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter. 1
- 2,

Test results

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

Actual Measurement data are documented on worksheets. Huang dan Mintrons Jun Qi

Approved Signatory:

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

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Form No GARP152-Lifesive 1/Fex C/91/02/2007

Certificate No : C085814

Certificate of Calibration

This is to certify that the equipment

Description: Sound Level Meter

Manufacturer: Rion

Model No.: NL-31

Serial No.: 00352013

has been calibrated for the specific items and ranges.

The results are shown in the Calibration Report No. C085814.

The equipment is supplied by

Co Name: Dragages China Harbour Joint Venture

Address 22/F, China Harbour Bldg, 370-374 King's Rd, North Point, HK

Date of Issue 10 November 2008

Certifled by

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



輝 創 工 程 有 限 公 司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate No

C085815

Certificate of Calibration

This is to certify that the equipment

Description Sound Level Meter

Manufacturer: Rion

Model No.: NL-31

Serial No.: 01262850

has been calibrated for the specific items and ranges The results are shown in the Calibration Report No. C085815.

The equipment is supplied by

Co. Name Dragages China Harbour Joint Venture Address 22/F, China Harbour Bldg, 370-374 King's Rd, North Point, HK

Date of Issue 10 November 2008

Certified by

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



綜合試驗有限公司 SOILS & MATERIALS ENGINEERING CO, LTD

GF, 9F, 12F, 13E & 22F, Leader Conne 37 Wong Chuk Hang Road, Aberdeen, Hong Xong 音演页作规调77 规则指定它施下。9 据 12 根 13 据及20据 E-mail: smcrottlerjusters com Website: www.clipismec.com

Tel : (852) 2873 6869 Fax : (852) 2555 7533



CERTIFICATE OF CALIBRATION

Page: 1 of 2 08CA0904 01-02B Certificate No.: Item tested Sound Calibrator (Class 1L) Description: Manufacturer: Type/Model No : Pulsar England MODEL 1008 Serial/Equipment No : Adaptors used: Yes Item submitted by Meada-Hitachi-Yokogawa-Hsin Chong Joint Venture Curstomer: Address of Customer: Request No : Date of request: PO/HY26/7192 01-09-2008 04-09-2008 Date of test: Reference equipment used in the calibration Expiry Date: 29-05-2009 12-12-2008 15-12-2008 Traceable to: Serial No. 2412857 2239857 2346941 B&K 4180 B&K 2673 SCL Lab standard microphone CEPREI CEPREI Preamplifier Measuring amplifier B&K 2610 DS 360 34401A CEPRE 61227 18-07-2009 Signal generator Digital multi-meter US36087050 GB41300350 30-11-2008 CIGISMEC CEPREI Audio analyzer Universal counter 89038 53132A MY40003662 11-07-2009 Ambient conditions Temperature: Relative humidity: 24 ± 1 °C 55 ± 10 % 1000 ± 10 hPa Air pressure:

- The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B
- and the lab calibration procedure SMTPO4-CA-156
 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 pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes

This is to certify that the sound calibrator conforms to the requirements of annex 6 of IEC 80942, 1997 for the conditions under which the task was performed. This does not imply that the sound calibrator meets IEC 80942 under any other conditions

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

Approved Signatory:

Date: 24-09-2008 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 log-tylm stability of the instrument.

69 Stoles & Materials Engineering Co. Util

Form No CARP156 Litsuse 1/Per 0/01/05/0007

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HCKLAS) for specific laboratory activities as fasted in the HCKLAS Directory of Accredited Laboratories. The results shown in this certificate were determined by this laboratory in accordance with its terms of accreditation. Such terms of accreditation stipulate that the results shall be traceable to the International System of Units (S.I.) or recognised measurement standards. This certificate shall not be reproduced except in full



輝創工程有限公司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate No.: C085728

Certificate of Calibration

This is to certify that the equipment

Description . Sound Calibrator Manufacturer: Rion Model No. NC-74 Serial No. 34351581

has been calibrated for the specific items and ranges. The results are shown in the Calibration Report No. C085728.

The equipment is supplied by

Co Name: Dragages China Harbour Joint Venture

Address: 22/F, China Harbour Bldg, 370-374 King's Rd, North Point, HK

Date of Issue 5 November 2008

Certified by CF Leurig

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

C085729

Certificate No

Certificate of Calibration

This is to certify that the equipment

Description Sound Calibrator

Manufacturer Rion

Model No NC-74

Serial No 34973223

has been calibrated for the specific items and ranges.

The results are shown in the Calibration Report No. C085729.

The equipment is supplied by

Co Name Dragages China Harbour Joint Venture

Address: 22/F, China Harbour Bldg, 370-374 King's Rd, North Point, HK

Date of Issue 5 November 2008

Certified by CF Leung

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

MateriaLab Division, Fugro Development Centre, 5 Lok Yi Street, 17 M S. Castle Peak Road, Tai Lam, Tuen Mun, N T., Hong Kong.

Report No: 041333CA82714(3)

Tel: +852-2450 8233
Fax: +952-2450 6138
E-mail: mattab@fugro.com.hk
Website: www.materialab.com.hk/www.fugro.com



Page 1 of 2

CALIBRATION CERTIFICATE OF SOUND LEVEL METER

Client Supplied Information

Client: Maeda-Hitachi-Yokogawa-Hsin Chong JV Address: PO Box No. 80330, Cheung Sha Wan Post Office

Project: Calibration Services

Calibration Item -

: Sound level meter Description Model No : Bruel & Kjaer (Type 2238)
Serial No : 2565848 (Microphone), 2562752 (Sound level meter)
Next Calibration Due Date : 16/Dec/2009

Laboratory Information

Calibrating Equipment -

Description : B & K Acoustic Multifunction Calibrator 4226

Serial No. : 2546175 : 16/Dec/2008 Date of Calibration

 Ambient Temperature
 : 20±2 °C

 Specification Limit
 : EN 60651: 1994 Type 1

Calibration Results :

(1) Frequency response

(Reference SPL: 94dB & Range setting: 50 - 130dB at traditional free field)

Table 1: Summary of frequency response (A - weighting)

Frequency (Hz)	Measured Value (dB)	Specific	ation L	imit (dB)
31.5	-38.6	-40.9	to	-37.9
63	-25.8	-27.7	to	-24.7
125	-16.0	-17.1	to	-15.1
250	-8.6	-9.6	to	-7.6
500	-3.3	-4.2	to	-2.2
1000(ref.)	0.0	-1.0	to	1.0
2000	1.2	0.2	to	2.2
4000	0.9	-2.0	to	2.5
8000	-2.0	-4.1	to	0.4
12500	-6.3	-10.3	to	-1.3
16000	-9.8		to	-3.6

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Report No.: 041333CA82714(3)

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Fax +852-2450 6138
E-mail : matlab@fugro.com.hk
Website : www.materialab.com.hk / www.fugro.com



Page 2 of 2

CALIBRATION CERTIFICATE OF SOUND LEVEL METER

(2) Level range control

(Reference SPL: 94dB, Reference frequency: 1kHz & Reference range setting: 50 - 130dB)

Table 2: Summary of level range control accuracy

Level range (dB)	Measured deviation (dB)	Specification limit (dB)
50-130 (Ref.)	NA	NA
20-100	0.0	± 0.5
30-110	0.0	± 0.5
40-120	0.0	± 0.5
60-140	0.0	± 0.5

(3) Differential level linearity

(Reference SPL: 94dB, Reference frequency: 1kHz & Primary indicator range: 50 - 130dB)

Table 3: Summary of differential level linearity

Sound pressure level	Measured deviation	Specification limit
(dB)	(dB)	(dB)
94	NA	NA
104	0.0	± 0.4
114	0.0	± 0.4

(4) Crest factor

(C.F.: 3, Test frequency: 2kHz, Test range: 50 - 130dB & Test SPL: 106dB)

Table 4: Crest factor

Sound pressure level	Measured deviation	Specification limit
(dB)	(dB)	(dB)
106	0.3	± 0.5

Remarks:

- 1. The equipment used in this calibration is traceable to recognized National Standards.
- 2. The above calibration results does comply with the Type 1 specification requirement

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Fugro Development Centre,
5 Lok Yi Street, 17 M S. Castle Peak Road
Tal Lam, Tuen Mun, N.T., Hong Kong

Report No.: 041333CA82714(4)

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E-mail : matiab@fugro com hk
Website : www.materialab.com hk / www.fugro.com



Page 1 of 2

CALIBRATION CERTIFICATE OF SOUND LEVEL METER

Client Supplied Information

Client: Maeda-Hitachi-Yokogawa-Hsin Chong JV Address: PO Box No 80330, Cheung Sha Wan Post Office

Project: Calibration Services

Calibration Item -

: Sound level meter Description

Model No. : Bruel & Kjaer (Type 2238)
Serial No. : 2565853 (Microphone), 2562757 (Sound level meter)

Next Calibration Due Date : 16/Dec/2009

Laboratory Information

Calibrating Equipment -

Description : B & K Acoustic Multifunction Calibrator 4226

Serial No. : 2546175 : 16/Dec/2008 Date of Calibration

: 20±2 °C Ambient Temperature

: EN 60651: 1994 Type 1 Specification Limit

Calibration Results :

(1) Frequency response

(Reference SPL: 94dB & Range setting: 50 - 130dB at traditional free field)

Table 1: Summary of frequency response (A - weighting)

Frequency (Hz)	Measured Value (dB)	Specific	ation L	imit (dB)
31.5	-38.8	-40.9	to	-37.9
63	-26.0	-27.7	to	-24.7
125	-16.1	-17.1	to	-15.1
250	-8.7	-9.6	to	-7.6
500	-3.4	-4.2	to	-2.2
1000(ref.)	-0.1	-1.0	to	1.0
2000	1.1	0.2	to	2.2
4000	0.7	-2.0	to	2.5
8000	-2.4	-4.1	to	0.4
12500	-6.3	-10.3	to	-1.3
16000	-9.2	95	to	-3.6

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Page 2 of 2

CALIBRATION CERTIFICATE OF SOUND LEVEL METER

(2) Level range control

(Reference SPL: 94dB, Reference frequency: 1kHz & Reference range setting: 50 - 130dB)

Table 2: Summary of level range control accuracy

Level range (dB)	Measured deviation (dB)	Specification limit (dB)
50-130 (Ref.)	NA NA	NA
20-100	0.0	± 0.5
30-110	0.0	± 0.5
40-120	0.0	± 0.5
60-140	0.0	± 0.5

(3) Differential level linearity

(Reference SPL: 94dB, Reference frequency: 1kHz & Primary indicator range: 50 - 130dB)

Table 3: Summary of differential level linearity

Sound pressure level	Measured deviation	Specification limit
(dB)	(dB)	(dB)
94	NA	NA
104	0.0	± 0.4
114	0.0	± 0.4

(4) Crest factor

(C.F.: 3, Test frequency: 2kHz, Test range: 50 - 130dB & Test SPL: 106dB)

Table 4: Crest factor

Sound pressure level	Measured deviation	Specification limit
(dB)	(dB)	(dB)
106	0.2	± 0.5

Remarks:

- 1. The equipment used in this calibration is traceable to recognized National Standards.
- 2 The above calibration results does comply with the Type 1 specification requirement

Checked by Certified by :

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MateriaLab Division.
Fugro Development Centre,
5 Lok Yi Street, 17 M S. Castle Peak Road,
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CALIBRATION CERTIFICATE OF SOUND LEVEL CALIBRATOR

Client Supplied Information

Client: Maeda-Hitachi-Yokogawa-Hsin Chong JV Address: PO Box No. 80330, Cheung Sha Wan Post Office

Project: Calibration Services

Calibration Item -

Description

: Bruel & Kjaer Sound Level Calibrator

Model No

: Type 4231

Serial No.

: 2605971

Next Calibration Due Date : 16-Dec-2009

Laboratory Information

Calibrating Equipment -

: B & K Acoustic Multifunction Calibrator 4226

Serial No.

: 2546175

Date of Calibration

: 16-Dec-2008 : 20±2 °C

Ambient Temperature Specification Limit

: ±0.5dB

Calibration Result:

(1) At 94dB reading

Correction of UUT (at 94dB & 1kHz) : +0.0dB

(2) At 114dB reading

Correction of UUT (at 114dB & 1kHz) : +0.0dB

Remarks:

- 1 The equipment used in this calibration is traceable to recognized National Standards.
- 2 The above calibration results does comply with the specification requirement.
- 3. Serial number of sound level meter (microphone) used is 2562752 (2565848) Settings of SLM are 50-130dB range, A weighting and F response

Date: 18-12-58 Certified by: CK So (Engineer)

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Appendix G5 Certificate HOKLAS Accredited Laboratory



Hong Kong Accreditation Service 香港認可處

Certificate of Accreditation

認可證書

This is to certify that 特此證明

FUGRO TECHNICAL SERVICES LIMITED

輝固土力工程及檢測有限公司

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong 香港新界电門大機樂怡街五號輝園發展中心

has been accepted by the HKAS Executive, on the recommendation of the Accreditation Advisory Board, as a 為香港製可處執行機類相談認可疑的委員會理論而授受的

HOKLAS Accredited Laboratory 「香港實驗所認可計劃」認可實驗所

This laboratory meets the requirements of ISO / IEC 17025 : 2005 - General requirements for the competence This inductiony meets the requirements of ISO / IEC 17025 - 2003 - General requirements for the competency 此實驗所符合ISO / IEC 17025 - 2005 - (創於及校正實驗所能力的透明規定)所訂的要求 of testing and calibration laboratories and it has been accredited for performing specific tests or calibrations as 課證可進行數於要潛實驗所證可對數(證可實驗所名圖)內下透測試驗例中的指定 itsted in the HOKLAS Directory of Accredited Laboratories within the test category of 测於収較正工作

Environmental Testing 環境測試

Phis laboratory is a corecised in accordance with the recognized international Standard ISO / IEC 17025 ; 2005. 本實驗所乃根據公認的課題標準 ISO / IEC 17025 ; 2005. 資格即可 ·

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory 运动能可提供条件还是更具体的 quality management system piece pint ISO-LAC-IAF Committed 電子を持ちませる。 (及稿数様学化総数・観響書籍系数司合作組載品開修数可論達於二学者五年八月十八日の数古公前)。

The common seal of the Hong Kong Accreditation Service is affixed hereto by the authority of the HKAS Executive 搬港即可應根據認可處執行機關的機関在此蓋上適用印度

CHAN Sing Sing, Terence, Executive Administrator 軟行幹事 陳成城

Issue Date: 17 April 2007 簽發日期: 二零零七年四月十七日

Registration Number: MOIGAS 015

Date of First Registration : 23 March 1989 首次註冊日期:一九八九年三月二十三日

L 000260

This conficence in issued subject to the leaves and condition 中国教育研究者教育的研究的对象的原则是由代码法



Hong Kong Accreditation Service

香港認可處

This is to certify that

The test soldy titlet
ALS TECHNICHEM (HK) PTY LIMITED
el the address of MIF. Chung Shun Kultting Centre, 1-3 Wing Yip Street,
Kwai Chung, New Territories, Hong Kong.
has been accepted by the HKAS Executive, on the recommendation of the Accreditation Advisory Board, as a
HOKLAS Accredited Laboratory
This leboratory meets the requirements of ISO/IEC 17025:1999 — General Requirements for the Competence of Testing and Calibration Laboratories and it has been accredited for parforming specific tast or calibrations as listed in the HOKLAS Directory of Accredited Laboratories within the Test Category of

ENVIRONMENTAL TESTING

The common seel of the Hong Kong Accreditation Service is affixed hereto by the authority of the HKAS Executive.

(DR. L.H. NG)
Executive Administrator

Registration Number HCKLAS 066

Issue Date: 30 JANUARY 2002

Date of First Registration: 15 SEPTEMBER 1995

This Cartificate is issued subject to the terms and conditions laid down by HKAS.

F 000101

Appendix H1 Event/Action Plan for Air Quality

Appendix H1: Event/Action Plan for Air Quality

Event	Action			
Level	ET	ER	CONTRACTOR	
Action Level	ı		oon in the contract of the con	
Exceedance for one sample	Identify source Inform ER Repeat Measurement to confirm finding Increase monitoring frequency to daily	Notify Contractor Check mortaring data and Contractor's working methods	Rectify any unacceptable practice Amend working methods if appropriate	
Exceedance for two or more consecutive samples	Identify source Inform ER Repeat measurements to confirm findings Increase monitoring frequency to daily Discuss with ER for remedial actions required If exceedance continues arrange meeting with ER If exceedance stops, cease additional monitoring	Confirm receipt of notification of failure in writing Notify Contractor Check monitoring data and Contractor's working methods Discuss with Environmental Team and Contractor on potential remedial actions Ensure remedial actions properly implemented	Submit proposals for remedial actions to ER within 3 working days of notification Implement the agreed proposals Amend proposal if appropriate	
Limit Level				
Exceedance for one sample	Identify source Inform ER and EPD Repeat measurement to confirm finding Increase monitoring frequency to daily Assess effectiveness of Contractor's remedial actions and keep EPD and ER informed of the results	 Confirm receipt of notification of failure in writing Notify Contractor Check monitoring data and Contractor's working methods Discuss with Environmental Team Leader and Contractor potential remedial actions Ensure remedial actions properly implemented 	 Take immediate action to avoid further exceedance Submit proposals for remedial actions to ER within 3 working days of notification Implements the agreed proposals Amend proposal if appropriate 	
Exceedance for two or more consecutive samples	1. Identify source 2. Inform ER and EPD the causes & actions taken for the exceedances 3. Repeat measurement to confirm findings 4. Increase monitoring frequency to daily 5. Investigate the causes of exceedance 6. Arrange meeting with EPD and ER to discuss the remedial actions to be taken 7. Assess effectiveness of Contractor's remedial actions and keep EPD and ER informed of the results & if exceedance stops, cease additional monitoring	1. Confirm receipt of notification of failure in writing 2. Notify Contractor 3. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented 4. Discuss amongst Environmental Team Leader and the Contractor potential remedial actions 5. Review Contractor's remedial actions whenever necessary to assure their effectiveness 6. If exceedance continues consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated	 Take immediate action avoid further exceedance Submit proposals for remedial actions to ER within 3 working days of notification Implements the agreed proposals Resubmit proposals if problem still not under control Stop the relevant portion of works as determined by the ER until the exceedance is abated 	

Appendix H2 Event/Action Plan for Noise

Appendix H2: Event/Action Plan for Construction Noise

Event	Action		
	ET Leader	ER	Contractor
Action Level	Notify ER Analyse investigation Increase monitoring frequency to check mitigation effectiveness	Notify Contractor Require Contractor to propose measures* for the analysed noise problem	Submit noise mitigation proposals to Environmental Team Implement noise mitigation proposals*
Limit Level	Notify ER Notify EPD	Notify Contractor Require contractor to implement mitigation measures* Increase monitoring frequency to check mitigation effectiveness	Implement mitigation measures Prove to Environmental Team Leader ER effectiveness of measures applied
*	Mitigation Measures may include: Relocation of noise emitting p Use of silenced or super-siler Use of acoustic sheds or scree Limit quantity of plant operatine Change working technique	aced equipment ens	

Appendix I

Implementation Status of Environmental Protection Requirements

Appendix I: Implementation Status of Environmental Protection Requirement

	Environmental Protection Measures	Timing		Implementa	tion Stages*	
Activities			29/12/08 to 28/01/09	29/01/09 to 28/02/09	01/03/09 to 28/03/09	29/03/09 to 28/04/09
Landscape and visual	Erection, painting and maintenance of site hoardings around works and storage areas.	Throughout the	√ √	√ √	√ √	√
	Restrictions on the height of material/spoil stockpiles.	construction period	V	V	V	√
	Prompt hydro-seeding of disturbed areas and cut/fill slopes prior to the permanent landscaping works.	- penou	N/A	N/A	N/A	N/A
	Avoidance of chunam or shotcreting slope treatments.		N/A	N/A	N/A	N/A
	Conservation of topsoil where practical.		N/A	N/A	N/A	N/A
	Site litter patrols and regular site waste collection.		√	√	√	√
	Maintenance of planting.		N/A	N/A	N/A	N/A
Ecological Impact	Minimise damage outside works areas		√	√	√	V
Construction:			1		1	
Material Storage	Covers for dusty stockpiles	Throughout the	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
Vehicle movement	Haul road watering, vehicle wheel wash prior to exit. Where practical, access roads should be protected with crushed gravel.	construction period	√	$\sqrt{}$	√	V
Plant maintenance	All plant shall be maintained to prevent any undue air emissions.		√	V	√	V
All plant activity	Reference should be made the EM&A Manual Action Plan for measures for consideration when Noise Limit Levels are not met.		V	V	V	V
Plant maintenance	All plant shall be maintained to prevent any undue noise nuisance.		V	V	V	V

N/A = Not Applicable
✓ = Implemented
▲ = Rectified
= Not Implemented

	Environmental Protection Measures	Timing		Implementa	tion Stages*	
Activities			29/12/08 to 28/01/09	29/01/09 to 28/02/09	01/03/09 to 28/03/09	29/03/09 to 28/04/09
Wheel wash	All wheel wash water shall be diverted to a sediment pit.	Throughout	V	√	√	$\sqrt{}$
Concrete Truck Washout	All concrete trucks shall wash out into a lined pit.	the construction period	V	V	V	V
Surface water diversion	All clean surface water shall be diverted around the site.	penou	V	V	V	V
Sediment control	Sediment removal facilities shall be provided and be maintained and excavated as necessary to prevent sedimentation of the channel. Perimeter channels shall be provided. Works shall be programmed for the dry season where feasible.		V	V	V	V
Fuel can storage	All fuel cans shall be placed within a bundled area. Any fuel spills shall be mopped up as necessary.		V	V	V	√
Slope covers	Finished slopes and other slopes near drainage areas shall be covered prior to rains to reduce sedimentation of runoff. Slopes should be hydroseeded or shotcreted as early as possible to prevent erosion.		N/A	N/A	N/A	N/A
Excavation works	Excavation works shall avoid sensitive areas.	Throughout the excavation work period	√	V	V	V
Material, plant movement & fuel can refilling.	Any fuel or oil spills shall be excavated and disposed.	Throughout the construction	V	V	V	V
Generators	All generators shall be placed within a bundled area. Any fuel spills shall be mopped up as necessary.	period	V	V	V	V
Material containers	All empty bags and containers shall be collected for disposal.		V	V	V	V

N/A = Not Applicable
✓ = Implemented
▲ = Rectified
= Not Implemented

	Environmental Protection Measures	Timing		Implementa	tion Stages*	
Activities			29/12/08 to 28/01/09	29/01/09 to 28/02/09	01/03/09 to 28/03/09	29/03/09 to 28/04/09
Worker generated litter and Waste	Litter receptacles shall be placed around the site. Litter shall be taken regularly to the refuse collection points. Chemical toilets (or suitable equivalent) should be provided for workers. Any canteens should have grease-traps.	Throughout the construction period	V	V	V	√
Neighbourhood nuisance	All complaints regarding construction works shall be relayed to the Environmental Team.		N/A	N/A	N/A	N/A
Legal requirements	Different types of waste should be segregated, stored, transported and disposed of in accordance with the relevant legislative requirements and guidelines		V	V	V	√
On-site separation	On-site separation of municipal solid waste and construction/demolition wastes should be conducted as far as possible in order to minimize the amount of solid waste to be disposed to landfill.		V	V	V	V
Temporary storage area	Separated wastes should be stored in different containers, skips, or stockpiles to enhance reuse or recycling of materials and encourage their proper disposal.		V	V	V	V
Record of wastes	Records of quantities of wastes generated, recycled and disposed (with locations) should be properly kept.		V	V	√	$\sqrt{}$
Trip-ticket system	To monitor the disposal of waste at landfills and control fly-tipping, a "trip-ticket" system for all solid waste transfer/disposal operations should be implemented. The system should be included as a contractual requirement, and monitored by the Environmental Team and audited by the Independent Environmental Checker.		V	V	V	V

N/A = Not Applicable
✓ = Implemented
▲ = Rectified
= Not Implemented

Appendix J

1-hour and 24-hour TSP Monitoring Results

The Summary of 1-hr TSP Concentration (µg/m³) at HKIVE Fok Ying Tung Hall of Residence (ASR 1)

			Initial Standard Flow	Final Standard Flow	Averaged Standard	Total Standard			
Date	Sampling Time	Elapsed Time	Rate	Rate	Flow Rate	Volume	Initial Filter Weight	Final Filter Weight	TSP Concentration
		(min)	(m³/min)	(m³/min)	(m³/min)	(m ³)	(g)	(g)	μg/m³
30-Mar-09	14:30	60.00	1.34	1.34	1.34	80.17	2.8591	2.8681	112.3
30-Mar-09	15:37	60.00	1.34	1.34	1.34	80.17	2.8435	2.8535	124.7
30-Mar-09	16:44	60.00	1.34	1.34	1.34	80.17	2.8217	2.8313	119.7
3-Apr-09	8:50	60.00	1.34	1.34	1.34	80.64	2.8215	2.8381	205.9
3-Apr-09	9:55	60.00	1.34	1.34	1.34	80.64	2.8277	2.8420	177.3
3-Apr-09	11:00	60.00	1.34	1.34	1.34	80.64	2.8208	2.8347	172.4
9-Apr-09	13:24	60.00	1.34	1.34	1.34	80.34	2.8372	2.8538	206.6
9-Apr-09	14:28	60.00	1.34	1.34	1.34	80.34	2.8215	2.8397	226.5
9-Apr-09	15:33	60.00	1.34	1.34	1.34	80.34	2.8269	2.8453	229.0
17-Apr-09	12:32	60.00	1.33	1.33	1.33	79.92	2.8264	2.8423	199.0
17-Apr-09	13:36	60.00	1.33	1.33	1.33	79.92	2.8164	2.8304	175.2
17-Apr-09	16:45	60.00	1.33	1.33	1.33	79.92	2.8314	2.8450	170.2
21-Apr-09	15:50	60.00	1.33	1.33	1.33	79.72	2.8473	2.8613	175.6
21-Apr-09	16:54	60.00	1.33	1.33	1.33	79.72	2.8052	2.8281	287.2
21-Apr-09	17:59	60.00	1.33	1.33	1.33	79.72	2.8032	2.8233	252.1
27-Apr-09	8:10	60.00	1.34	1.34	1.34	80.32	2.8930	2.9106	219.1
27-Apr-09	9:40	60.00	1.34	1.34	1.34	80.32	2.8484	2.8664	224.1
27-Apr-09	10:45	60.00	1.34	1.34	1.34	80.32	2.8878	2.8969	113.3

The Summary of 24-hrs TSP Concentration (µg/m³) at HKIVE Fok Ying Tung Hall of Residence (ASR1)

			Initial Standard Flow	Final Standard Flow	Averaged Standard	Total Standard			
Date	Sampling Time	Elapsed Time	Rate	Rate	Flow Rate	Volume	Initial Filter Weight	Final Filter Weight	TSP Concentration
		(min)	(m³/min)	(m³/min)	(m³/min)	(m ³)	(g)	(g)	μg/m³
2-Apr-09	0:00	1440.00	1.34	1.34	1.34	1935.79	2.8384	3.0864	128.1
8-Apr-09	0:00	1435.20	1.34	1.34	1.34	1921.67	2.8115	2.9613	78.0
14-Apr-09	0:00	1438.80	1.33	1.33	1.33	1914.88	2.8189	2.9690	78.4
20-Apr-09	0:00	1440.00	1.32	1.33	1.33	1910.00	2.8342	3.0237	99.2
25-Apr-09	0:00	1440.00	1.33	1.34	1.34	1924.55	2.8780	3.0277	77.8

The Summary of 1-hr TSP Concentration (µg/m³) at HKIVE 5th floor Block D of the Main Building (ASR 2)

			Initial Standard Flow	Final Standard Flow	Averaged Standard	Total Standard			
Date	Sampling Time	Elapsed Time	Rate	Rate	Flow Rate	Volume	Initial Filter Weight	Final Filter Weight	TSP Concentration
		(min)	(m³/min)	(m³/min)	(m³/min)	(m ³)	(g)	(g)	μg/m³
30-Mar-09	14:40	60.00	1.34	1.34	1.34	80.30	2.8280	2.8353	90.9
30-Mar-09	15:48	60.00	1.34	1.34	1.34	80.30	2.8353	2.8436	103.4
30-Mar-09	16:57	60.00	1.34	1.34	1.34	80.30	2.8300	2.8352	64.8
6-Apr-09	10:18	60.00	1.32	1.32	1.32	79.28	2.8133	2.8268	170.3
6-Apr-09	11:30	60.00	1.32	1.32	1.32	79.28	2.8159	2.8341	229.6
6-Apr-09	17:15	60.00	1.32	1.32	1.32	79.28	2.7912	2.8114	254.8
9-Apr-09	15:13	60.00	1.32	1.32	1.32	79.01	2.8344	2.8475	165.8
9-Apr-09	16:18	60.00	1.32	1.32	1.32	79.01	2.7728	2.7838	139.2
9-Apr-09	17:21	60.00	1.32	1.32	1.32	79.01	2.8086	2.8211	158.2
15-Apr-09	13:14	60.00	1.31	1.31	1.31	78.67	2.8050	2.8197	186.8
15-Apr-09	14:18	60.00	1.31	1.31	1.31	78.67	2.8445	2.8570	158.9
15-Apr-09	15:25	60.00	1.31	1.31	1.31	78.67	2.8302	2.8438	172.9
21-Apr-09	14:56	60.00	1.31	1.31	1.31	78.35	2.8026	2.8151	159.5
21-Apr-09	16:00	60.00	1.31	1.31	1.31	78.35	2.7963	2.8084	154.4
21-Apr-09	17:05	60.00	1.31	1.31	1.31	78.35	2.8017	2.8139	155.7
27-Apr-09	12:50	60.00	1.32	1.32	1.32	78.99	2.8634	2.8812	225.3
27-Apr-09	14:00	60.00	1.32	1.32	1.32	78.99	2.8679	2.8855	222.8
27-Apr-09	15:15	60.00	1.32	1.32	1.32	78.99	2.8936	2.8993	72.2

The Summary of 24-hr TSP Concentration (µg/m³) at HKIVE 5th floor Block D of the Main Building (ASR 2)

			Initial Standard Flow	Final Standard Flow	Averaged Standard	Total Standard			
Date	Sampling Time	Elapsed Time	Rate	Rate	Flow Rate	Volume	Initial Filter Weight	Final Filter Weight	TSP Concentration
		(min)	(m³/min)	(m³/min)	(m³/min)	(m ³)	(g)	(g)	μg/m³
2-Apr-09	0:00	1440.00	1.32	1.32	1.32	1903.75	2.8095	3.0512	127.0
8-Apr-09	0:00	1440.00	1.32	1.32	1.32	1896.09	2.8098	2.9378	67.5
14-Apr-09	0:00	1440.00	1.31	1.31	1.31	1885.12	2.8253	2.9474	64.8
20-Apr-09	0:00	1440.00	1.30	1.31	1.30	1876.78	2.8242	2.9998	93.6
25-Apr-09	0:00	1440.00	1.31	1.32	1.31	1892.30	2.8580	2.9859	67.6

The Summary of 1-hr TSP Concentration (µg/m³) at Mayfair Gardens 1st floor adjacent to swimming pool (ASR3)

			Initial Standard Flow	Final Standard Flow	Averaged Standard				
Date	Sampling Time	Elapsed Time	Rate	Rate	Flow Rate	Total Standard Volume	Initial Filter Weight	Final Filter Weight	TSP Concentration
		(min)	(m³/min)	(m³/min)	(m³/min)	(m ³)	(g)	(g)	μg/m ³
30-Mar-09	13:00	60.00	1.32	1.32	1.32	79.35	2.8540	2.8596	70.6
30-Mar-09	14:06	60.00	1.32	1.32	1.32	79.35	2.8859	2.8943	105.9
30-Mar-09	15:10	60.00	1.32	1.32	1.32	79.35	2.8426	2.8529	129.8
3-Apr-09	7:50	60.00	1.32	1.32	1.32	79.27	2.8541	2.8677	171.6
3-Apr-09	8:57	60.00	1.32	1.32	1.32	79.27	2.8599	2.8722	155.2
3-Apr-09	12:16	60.00	1.32	1.32	1.32	79.27	2.8585	2.8748	205.6
9-Apr-09	14:14	60.00	1.32	1.32	1.32	78.95	2.8356	2.8469	143.1
9-Apr-09	15:17	60.00	1.32	1.32	1.32	78.95	2.8457	2.8559	129.2
9-Apr-09	16:20	60.00	1.32	1.32	1.32	78.95	2.8524	2.8596	91.2
15-Apr-09	9:40	60.00	1.31	1.31	1.31	78.62	2.8764	2.8917	194.6
15-Apr-09	10:45	60.00	1.31	1.31	1.31	78.62	2.8698	2.8753	70.0
15-Apr-09	16:45	60.00	1.31	1.31	1.31	78.62	2.8127	2.8194	85.2
24-Apr-09	9:12	60.00	1.31	1.31	1.31	78.67	2.8597	2.8713	147.5
24-Apr-09	14:29	60.00	1.31	1.31	1.31	78.67	2.8753	2.8835	104.2
24-Apr-09	15:40	60.00	1.31	1.31	1.31	78.67	2.7971	2.8156	235.2
28-Apr-09	13:31	60.00	1.31	1.31	1.31	78.80	2.8375	2.8536	204.3
28-Apr-09	14:44	60.00	1.31	1.31	1.31	78.80	2.8511	2.8667	198.0
28-Apr-09	15:50	60.00	1.31	1.31	1.31	78.80	2.8787	2.8853	83.8

The Summary of 24-hrs TSP Concentration (µg/m³) at Mayfair Gardens 1st floor adjacent to swimming pool (ASR3)

			Initial Standard Flow	Final Standard Flow	Averaged Standard				
Date	Sampling Time	Elapsed Time	Rate	Rate	Flow Rate	Total Standard Volume	Initial Filter Weight	Final Filter Weight	TSP Concentration
		(min)	(m³/min)	(m³/min)	(m³/min)	(m ³)	(g)	(g)	μg/m³
2-Apr-09	0:00	1440.00	1.32	1.32	1.32	1902.90	2.8392	3.0548	113.3
8-Apr-09	0:00	1440.00	1.32	1.32	1.32	1894.80	2.8568	2.9774	63.6
14-Apr-09	0:00	1440.00	1.31	1.31	1.31	1883.97	2.8310	2.9496	63.0
20-Apr-09	0:00	1440.00	1.30	1.31	1.31	1880.14	2.8222	2.9821	85.0
25-Apr-09	0:00	1440.00	1.31	1.31	1.31	1889.45	2.8112	2.9253	60.4

The Summary of 1-hr TSP Concentration (µg/m³) at Cheung Ching Estate at the roof of Ching Yung House (ASR4)

			Initial Standard Flow	Final Standard Flow	Averaged Standard				
Date	Sampling Time	Elapsed Time	Rate	Rate	Flow Rate	Total Standard Volume	Initial Filter Weight	Final Filter Weight	TSP Concentration
		(min)	(m³/min)	(m³/min)	(m³/min)	(m ³)	(g)	(g)	μg/m³
30-Mar-09	13:45	60.00	1.35	1.35	1.35	81.06	2.8695	2.8765	86.4
30-Mar-09	14:52	60.00	1.35	1.35	1.35	81.06	2.8708	2.8762	66.6
30-Mar-09	15:57	60.00	1.35	1.35	1.35	81.06	2.8303	2.8358	67.9
3-Apr-09	12:20	60.00	1.33	1.33	1.33	79.63	2.8284	2.8402	148.2
3-Apr-09	14:26	60.00	1.33	1.33	1.33	79.63	2.8305	2.8405	125.6
3-Apr-09	15:30	60.00	1.33	1.33	1.33	79.63	2.8998	2.9147	187.1
9-Apr-09	15:05	60.00	1.32	1.32	1.32	79.32	2.8390	2.8502	141.2
9-Apr-09	16:10	60.00	1.32	1.32	1.32	79.32	2.8567	2.8664	122.3
9-Apr-09	17:13	60.00	1.32	1.32	1.32	79.32	2.8637	2.8742	132.4
15-Apr-09	14:00	60.00	1.32	1.32	1.32	78.99	2.8704	2.8808	131.7
15-Apr-09	15:05	60.00	1.32	1.32	1.32	78.99	2.8470	2.8546	96.2
15-Apr-09	16:10	60.00	1.32	1.32	1.32	78.99	2.8039	2.8156	148.1
21-Apr-09	14:41	60.00	1.31	1.31	1.31	78.67	2.8373	2.8447	94.1
21-Apr-09	15:44	60.00	1.31	1.31	1.31	78.67	2.8102	2.8178	96.6
21-Apr-09	16:48	60.00	1.31	1.31	1.31	78.67	2.8044	2.8127	105.5
27-Apr-09	12:30	60.00	1.32	1.32	1.32	79.30	2.8423	2.8570	185.4
27-Apr-09	13:34	60.00	1.32	1.32	1.32	79.30	2.8514	2.8646	166.4
27-Apr-09	14:44	60.00	1.32	1.32	1.32	79.30	2.8647	2.8744	122.3

The Summary of 24-hrs TSP Concentration (µg/m³) at Cheung Ching Estate at the roof of Ching Yung House (ASR4)

			Initial Standard Flow	Final Standard Flow	Averaged Standard				
Date	Sampling Time	Elapsed Time	Rate	Rate	Flow Rate	Total Standard Volume	Initial Filter Weight	Final Filter Weight	TSP Concentration
		(min)	(m³/min)	(m³/min)	(m³/min)	(m ³)	(g)	(g)	μg/m³
2-Apr-09	0:00	1440.00	1.33	1.33	1.33	1911.74	2.8516	3.0588	108.4
8-Apr-09	0:00	1440.00	1.32	1.32	1.32	1903.64	2.8320	2.9402	56.8
14-Apr-09	0:00	1440.00	1.31	1.32	1.31	1892.81	2.8635	2.9667	54.5
20-Apr-09	0:00	1435.20	1.31	1.31	1.31	1878.29	2.8224	2.8895	35.7
25-Apr-09	0:00	1440.00	1.32	1.32	1.32	1899.90	2.7939	2.9547	84.6

The Summary of 1-hr TSP Concentration (µg/m³) at Stonecutters Base (ASR5)

			Initial Standard Flow	Final Standard Flow	Averaged Standard	Total Standard			
Date	Sampling Time	Elapsed Time	Rate	Rate	Flow Rate	Volume	Initial Filter Weight	Final Filter Weight	TSP Concentration
		(min)	(m³/min)	(m³/min)	(m³/min)	(m ³)	(g)	(g)	μg/m³
30-Mar-09	14:15	60.00	1.35	1.35	1.35	81.11	2.8428	2.8555	156.6
30-Mar-09	15:30	60.00	1.35	1.35	1.35	81.11	2.8291	2.8402	136.9
30-Mar-09	17:00	60.00	1.35	1.35	1.35	81.11	2.8487	2.8605	145.5
3-Apr-09	14:00	60.00	1.36	1.36	1.36	81.57	2.8332	2.8405	89.5
3-Apr-09	15:40	60.00	1.36	1.36	1.36	81.57	2.8394	2.8466	88.3
3-Apr-09	16:15	60.00	1.36	1.36	1.36	81.57	2.8633	2.8694	74.8
9-Apr-09	13:10	60.00	1.35	1.35	1.35	81.25	2.8237	2.8421	226.5
9-Apr-09	15:00	60.00	1.35	1.35	1.35	81.25	2.8123	2.8201	96.0
9-Apr-09	16:40	60.00	1.35	1.35	1.35	81.25	2.8442	2.8518	93.5
15-Apr-09	9:20	60.00	1.34	1.34	1.34	80.67	2.8423	2.8486	78.1
15-Apr-09	11:25	60.00	1.34	1.34	1.34	80.67	2.8166	2.8299	164.9
15-Apr-09	16:30	60.00	1.34	1.34	1.34	80.67	2.7955	2.8112	194.6
21-Apr-09	9:55	60.00	1.34	1.34	1.34	80.26	2.8202	2.8293	113.4
21-Apr-09	11:18	60.00	1.34	1.34	1.34	80.26	2.8382	2.8451	86.0
21-Apr-09	13:44	60.00	1.34	1.34	1.34	80.26	2.8292	2.8358	82.2
27-Apr-09	13:15	60.00	1.35	1.35	1.35	81.19	2.8077	2.8155	96.1
27-Apr-09	14:45	60.00	1.35	1.35	1.35	81.19	2.7959	2.8065	130.6
27-Apr-09	16:30	60.00	1.35	1.35	1.35	81.19	2.8282	2.8368	105.9

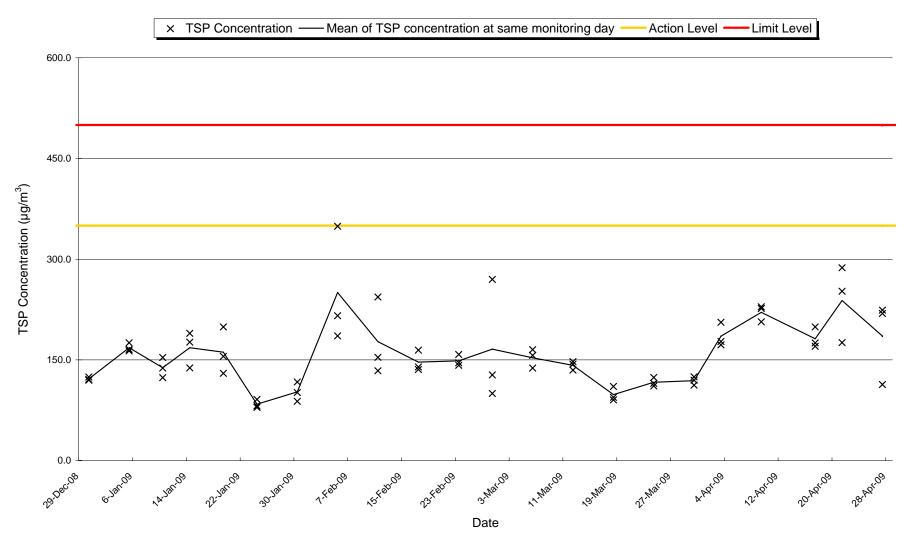
The Summary of 24-hrs TSP Concentration (µg/m³) at Stonecutters Base (ASR5)

			Initial Standard Flow	Final Standard Flow	Averaged Standard	Total Standard			
Date	Sampling Time	Elapsed Time	Rate	Rate	Flow Rate	Volume	Initial Filter Weight	Final Filter Weight	TSP Concentration
		(min)	(m³/min)	(m³/min)	(m³/min)	(m ³)	(g)	(g)	μg/m³
2-Apr-09	0:00	1443.00	1.36	1.36	1.36	1963.43	2.8418	3.0214	91.5
8-Apr-09	0:00	1440.00	1.35	1.35	1.35	1949.89	2.8294	2.9429	58.2
14-Apr-09	0:00	1440.00	1.34	1.34	1.34	1932.63	2.8066	2.9721	85.6
20-Apr-09	0:00	1440.00	1.33	1.34	1.33	1921.59	2.8216	3.0123	99.2
25-Apr-09	0:00	1438.80	1.35	1.35	1.35	1941.66	2.8231	2.8878	33.3

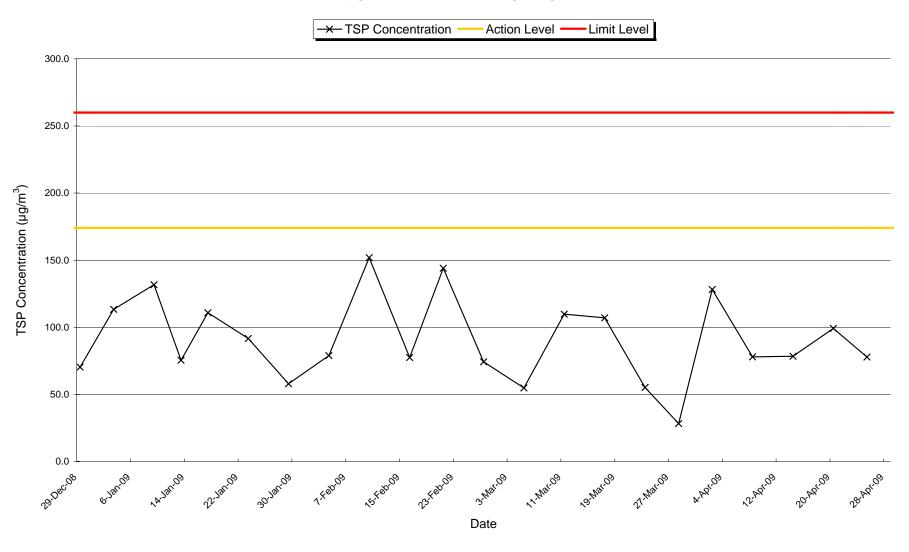
Appendix K

Graphical Presentation of 1-hour and 24-hour TSP Monitoring Result

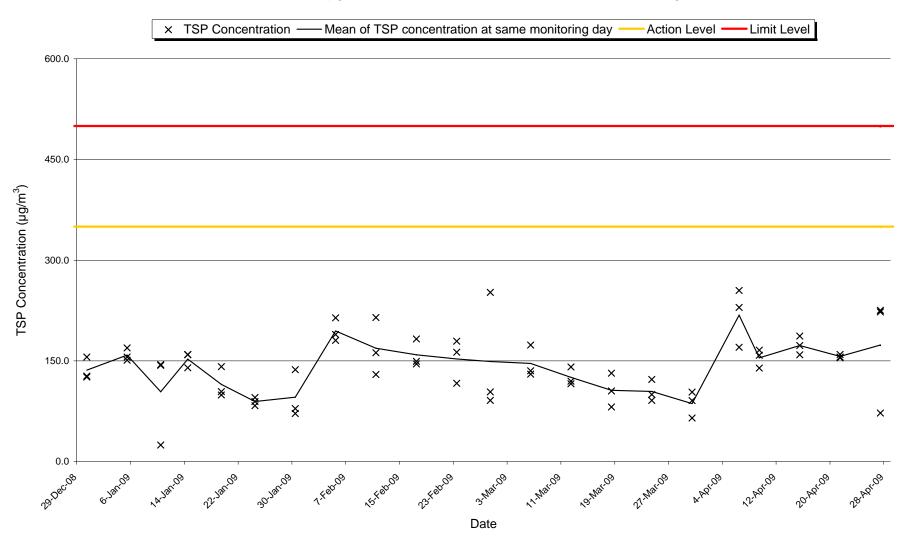
1 hr TSP Concentration ($\mu g/m^3$) at HKIVE Fok Ying Tung Hall of Residence (ASR1)



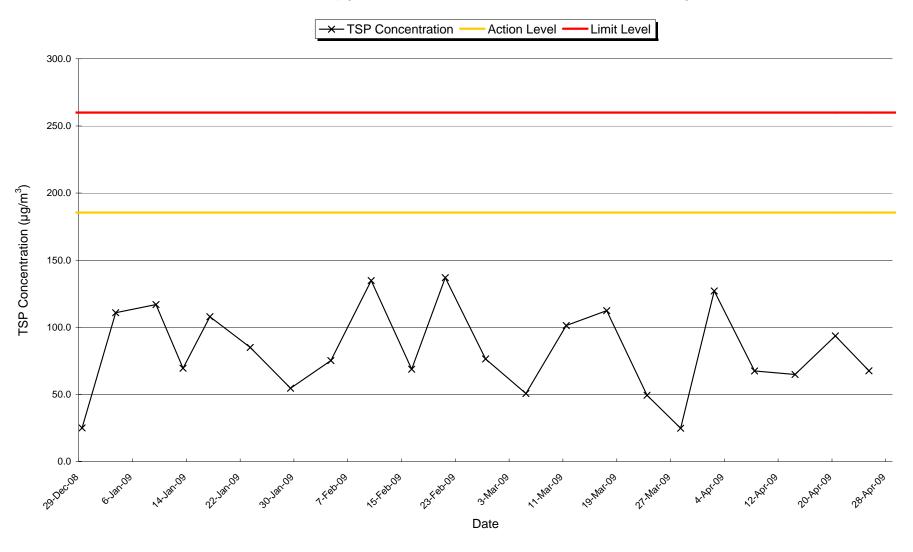
24 hrs TSP Concentration ($\mu g/m^3$) at HKIVE Fok Ying Tung Hall of Residence (ASR1)



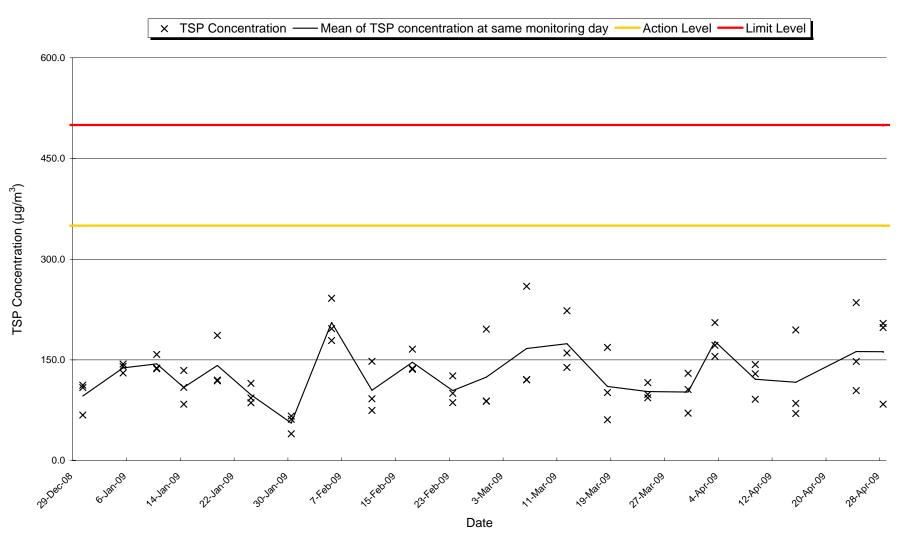
1 hr TSP Concentration ($\mu g/m^3$) at HKIVE 5th floor Block D of the main Building (ASR2)



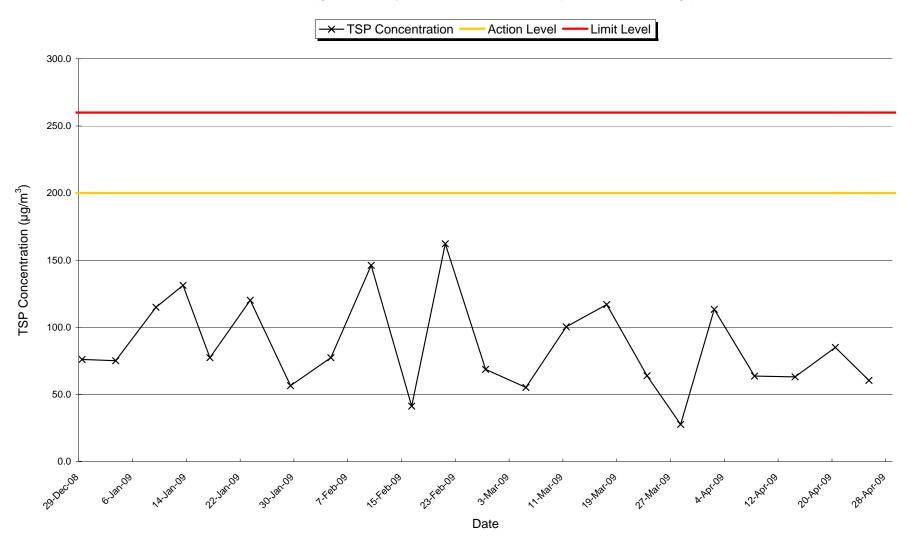
24 hrs TSP Concentration ($\mu g/m^3$) at HKIVE 5th floor Block D of the Main Building (ASR2)



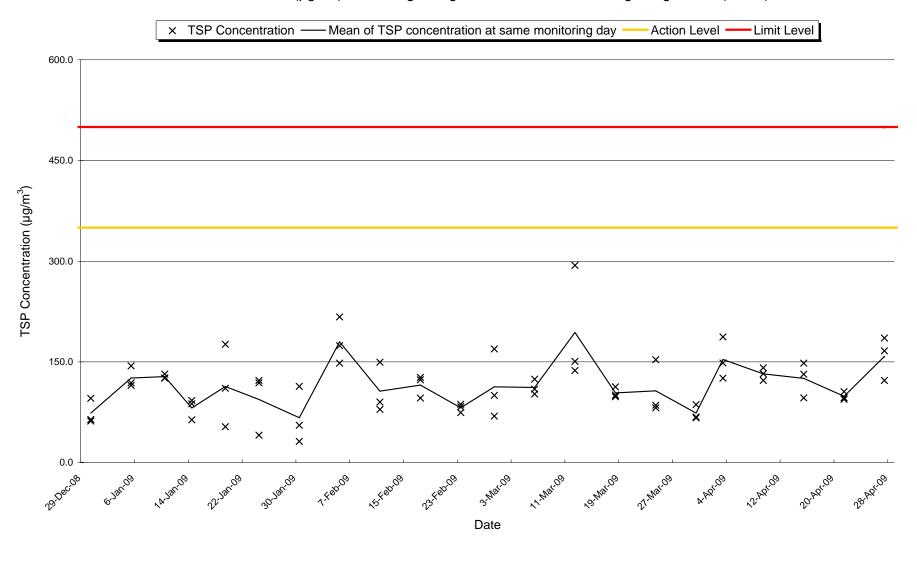
1 hr TSP Concentration ($\mu g/m^3$) at Mayfair Gardens 1st floor adjacent to swimming pool (ASR3)



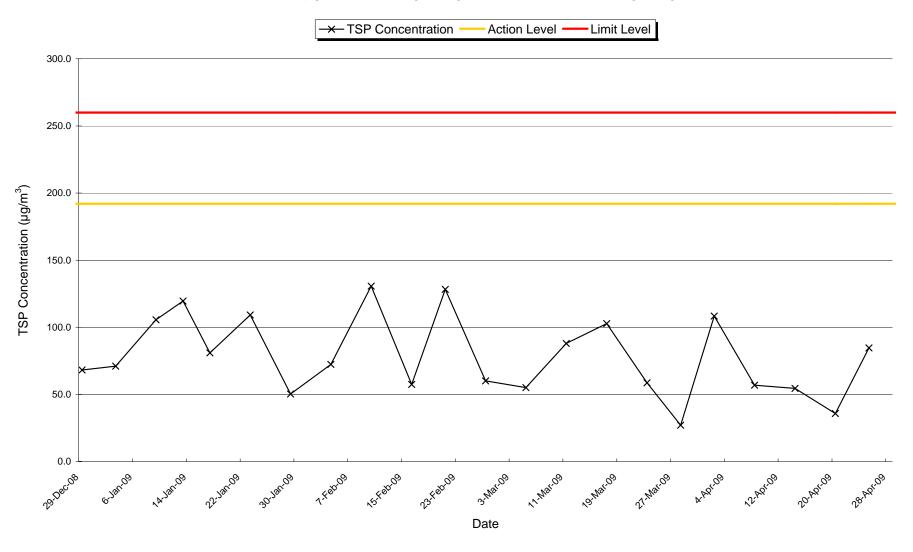
24 hrs TSP Concentration ($\mu g/m^3$) at Mayfair Gardens 1st floor adjacent to swimming pool (ASR3)



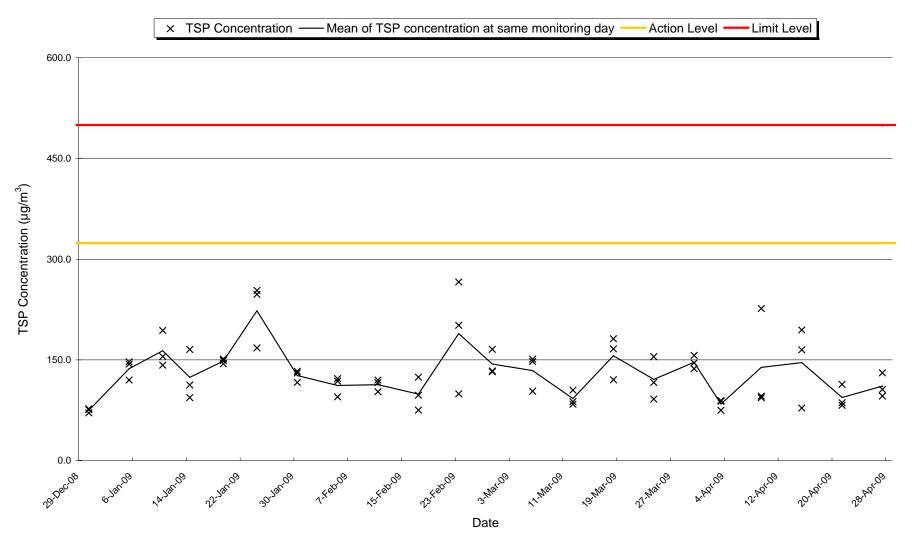
1 hr TSP Concentration (µg/m³) at Cheung Ching Estate at the roof of Ching Yung House (ASR4)



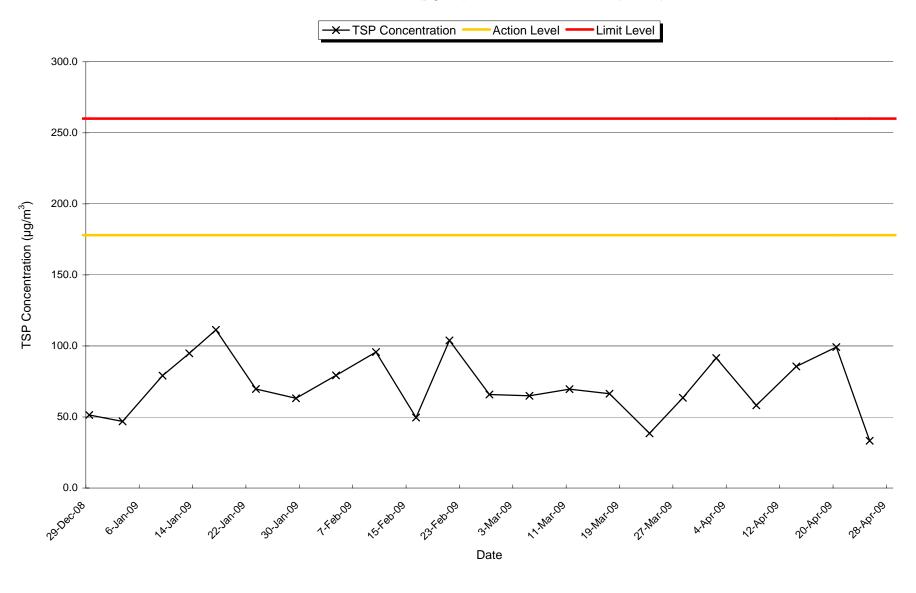
24 hrs TSP Concentration ($\mu g/m^3$) at Cheung Ching Estate at the roof of Ching Yung House (ASR4)



1 hr TSP Concentration (µg/m³) at Stonecutters Base (ASR5)



24 hrs TSP Concentration (µg/m³) at Stonecutters Base (ASR5)



Appendix L

Weather Condition during Impact Monitoring

Appendix L: Weather Condition during Impact Monitoring (ASR1-ASR5)

Date	Time	Weather Condition	Ambient Pressure	Average Ambie	nt Temperature	Relative Humidity	Wind Direction	Wind Speed m/s
Date	Time	Cortaillori	P (mmHg)	oC	K	%	Willia Bircottori	111/3
30-Mar-09	13:00~17:30	Fine	761.95	19.4	291.65	67~87	ENE	10.1
2-Apr-09	00:00~24:00	Fine	764.99	18.4	291.55	60~83	Е	14.3
3-Apr-09	08:15~16:30	Cloudy	763.42	18.8	291.95	69~86	ENE	10.8
6-Apr-09	10:00~17:30	Cloudy	761.99	19.1	292.25	68~94	ENE	8.0
8-Apr-09	00:00~24:00	Sunny	762.44	20.8	293.95	62~84	ENE	6.6
9-Apr-09	09:45~17:45	Sunny	762.74	20.9	294.05	44~69	E	11.5
14-Apr-09	00:00~24:00	Sunny	755.99	24.7	297.85	69~91	ESE	1.4
15-Apr-09	09:00~16:45	Fine	757.26	23.1	296.25	67~96	Е	7.9
17-Apr-09	12:00~17:00	Sunny	755.46	23.9	297.05	70~90	Е	6.8
20-Apr-09	00:00~24:00	Sunny	752.46	27.2	300.35	56~95	SW	3.2
21-Apr-09	09:45~18:00	Fine	755.09	25.3	298.45	51~82	ENE	8.3
24-Apr-09	09:00~16:00	Cloudy	757.19	22.8	295.95	85~93	NNE	6.3
25-Apr-09	00:00~24:00	Cloudy	758.16	22.8	295.95	86~98	N	5.0
27-Apr-09	08:00~17:00	Cloudy	761.84	21.0	294.15	56~98	Е	10.3
28-Apr-09	13:15~16:00	Sunny	762.59	21.9	295.05	39~77	Е	11.6

Meteorological data such as atmospheric pressure and temperature used for the calculation of TSP values was obtained from the Hong Kong Observatory

Appendix M1

Noise Monitoring Results for Normal Hour

The Summary of Day-time Leq₃₀ Level at HKIVE Fok Ying Tung Hall of Residence (NSR 1)

Date	Monitoring Time	Duration	Measured Noise Level ¹			Baseline Level ¹	Construction Noise Level	Limit Level
		min	Leq	L10	L90	Leq	Leq	
			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
31-Mar-09	8:57	30	65.7	67.1	63.6	66.8	65.7*	75.0
7-Apr-09	13:17	30	63.8	65.5	61.6	66.4	63.8*	75.0
16-Apr-09	9:56	30	64.5	65.5	62.9	66.9	64.5*	75.0
22-Apr-09	8:39	30	64.8	66.1	62.7	66.9	64.8*	75.0
28-Apr-09	10:24	30	69.2	71.3	65.5	66.9	65.3	75.0

NB: Bold - exceedance

The Summary of Day-time Leq₃₀ Level at HKIVE 5th Floor Block D of the Main Education Building (NSR 2)

	, 100									
Date	Monitoring Time	Duration	Measured Noise Level ¹			Baseline Level ¹	Construction Noise Level	Limit Level		
		min	Leq	Leq L10 L90			Leq			
			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)		
31-Mar-09	9:48	30	65.6	66.8	63.9	71.7	65.6*	70.0		
7-Apr-09	13:38	30	64.5	65.6	62.9	71.7	64.5*	70.0		
16-Apr-09	10:02	30	65.3	66.5	63.0	71.8	65.3*	70.0		
22-Apr-09	14:21	30	65.3	66.8	63.0	71.9	65.3*	70.0		
28-Apr-09	10:58	30	65.3	66.3	63.8	71.5	65.3*	70.0		

¹ Additional 3dB (A) façade correction was made to the Free-field measurements

^{*} No adjustment was made on the measured noise level, since corresponding baseline level≥ measured noise level. The measured noise level was mainly dominated by local traffic noise and the construction noise generated from the Project was not noticeable at NSR according to the field study record.

^{**} No Construction works was carried out during the reporting period

Additional 3dB (A) façade correction was made to the Free-field measurements

^{*} No adjustment was made on the measured noise level, since corresponding baseline level≥ measured noise level. The measured noise level was mainly dominated by local traffic noise and the construction noise generated from the Project was not noticeable at NSR according to the field study record.

^{**} No Construction works was carried out during the reporting period

The Summary of Day-time Leq₃₀ Level at Mayfair Gardens 1st floor adjacent to swimming pool (NSR 3)

Date	Monitoring Time	Duration	Mea	Measured Noise Level ¹			Construction Noise Level	Limit Level
		min	Leq	L10	L90	Leq	Leq	
			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
31-Mar-09	9:23	30	67.9	69.6	65.4	69.4	67.9*	75.0
7-Apr-09	13:58	30	64.4	66.1	62.3	69.5	64.4*	75.0
16-Apr-09	9:50	30	64.8	66.5	62.5	69.4	64.8*	75.0
22-Apr-09	8:47	30	65.9	67.6	63.8	69.5	65.9*	75.0
28-Apr-09	13:24	30	66.8	68.7	64.4	69.0	66.8*	75.0

NB: Bold - exceedance

The Summary of Day-time Leq₃₀ Level at Cheung Ching Estate at roof of Ching Yung House (NSR 4)

Date	Monitoring Time	Duration	Measured Noise Level ¹			Baseline Level ¹	Construction Noise Level	Limit Level
		min	Leq	L10	L90	Leq	Leq	
			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
31-Mar-09	11:02	30	65.2	67.4	61.8	69.6	65.2*	75.0
7-Apr-09	14:12	30	64.6	66.7	61.6	69.3	64.6*	75.0
16-Apr-09	10:09	30	65.1	67.8	61.2	70.2	65.1*	75.0
22-Apr-09	9:50	30	65.2	67.5	62.1	69.8	65.2*	75.0
28-Apr-09	10:19	30	67.7	69.2	65.0	70.3	67.7*	75.0

¹ Additional 3dB (A) façade correction was made to the Free-field measurements

^{*} No adjustment was made on the measured noise level, since corresponding baseline level≥ measured noise level. The measured noise level was mainly dominated by local traffic noise and the construction noise generated from the Project was not noticeable at NSR according to the field study record.

^{**} No Construction works was carried out during the reporting period

¹ Additional 3dB (A) façade correction was made to the Free-field measurements

^{*} No adjustment was made on the measured noise level, since corresponding baseline level≥ measured noise level. The measured noise level was mainly dominated by local traffic noise and the construction noise generated from the Project was not noticeable at NSR according to the field study record.

^{**} No Construction works was carried out during the reporting period

The Summary of Day-time Leq₃₀ Level at Stonecutters Base (NSR 5)

Date	Monitoring Time	Duration	Mea	Measured Noise Level ¹			Construction Noise Level	Limit Level
		min	Leq	L10	L90	Leq	Leq	
			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
31-Mar-09	10:50	30	71.1	73.7	67.1	75.2	71.1*	75.0
7-Apr-09	9:48	30	70.9	73.7	66.2	75.2	70.9*	75.0
16-Apr-09	11:23	30	70.0	72.0	67.0	74.9	70.0*	75.0
22-Apr-09	13:45	30	71.3	74.1	66.8	75.0	71.3*	75.0
28-Apr-09	16:28	30	71.1	73.2	67.8	74.7	71.1*	75.0

¹ Additional 3dB (A) façade correction was made to the Free-field measurements

^{*} No adjustment was made on the measured noise level, since corresponding baseline level≥ measured noise level. The measured noise level was mainly dominated by local traffic noise and the construction noise generated from the Project was not noticeable at NSR according to the field study record.

^{**} No Construction works was carried out during the reporting period

Appendix M2

Noise Monitoring Results for Restricted Hour

The Summary of Evening-time Leq₅ Level at HKIVE Fok Ying Tung Hall of Residence (NSR 1)

Date	Monitoring Time	Duration	Mea	asured Noise Le	vel ¹	Baseline Level ¹	Construction Noise Level	Limit Level
		min	Leq	L10	L90	Leq	Leq	
			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
31-Mar-09	20:22	5	61.9	63.5	59.5	62.6	61.9*	70.0
31-Mar-09	20:27	5	61.4	62.5	60.0	62.7	61.4*	70.0
31-Mar-09	20:32	5	61.5	63.0	59.5	61.9	61.5*	70.0
31-Mar-09	20:37	5	60.5	61.5	59.0	61.8	60.5*	70.0
31-Mar-09	20:42	5	60.8	62.5	59.0	61.4	60.8*	70.0
31-Mar-09	20:47	5	60.0	61.5	58.5	61.3	60.0*	70.0
7-Apr-09	19:02	5	62.8	65.5	60.0	64.3	62.8*	70.0
7-Apr-09	19:07	5	62.4	63.5	59.5	64.5	62.4*	70.0
7-Apr-09	19:12	5	61.9	63.5	60.0	65.1	61.9*	70.0
7-Apr-09	19:17	5	61.7	63.0	60.0	64.8	61.7*	70.0
7-Apr-09	19:22	5	62.4	64.0	60.0	65.1	62.4*	70.0
7-Apr-09	19:27	5	63.3	66.5	59.5	64.6	63.3*	70.0
16-Apr-09	19:31	5	61.4	62.5	60.0	63.7	61.4*	70.0
16-Apr-09	19:36	5	61.1	62.5	59.5	63.8	61.1*	70.0
16-Apr-09	19:41	5	60.9	63.0	58.5	63.8	60.9*	70.0
16-Apr-09	19:46	5	61.2	63.5	58.5	63.4	61.2*	70.0
16-Apr-09	19:51	5	60.4	61.5	58.5	63.6	60.4*	70.0
16-Apr-09	19:56	5	61.0	62.5	58.5	63.0	61.0*	70.0
22-Apr-09	22:09	5	59.3	60.5	58.0	60.8	59.3*	70.0
22-Apr-09	22:14	5	60.0	61.0	59.0	59.6	49.4	70.0
22-Apr-09	22:19	5	61.0	62.5	59.0	60.5	51.4	70.0
22-Apr-09	22:24	5	60.7	62.0	59.0	59.4	54.8	70.0
22-Apr-09	22:29	5	60.4	62.0	58.0	59.2	54.2	70.0
22-Apr-09	22:34	5	60.3	61.0	59.0	59.9	49.7	70.0
28-Apr-09	21:14	5	60.9	63.0	58.5	60.6	49.1	70.0
28-Apr-09	21:19	5	62.1	64.5	59.0	60.6	56.8	70.0
28-Apr-09	21:24	5	61.0	62.5	59.0	60.9	44.6	70.0
28-Apr-09	21:29	5	63.5	64.5	59.0	61.1	59.8	70.0
28-Apr-09	21:34	5	60.4	61.5	58.5	60.7	60.4*	70.0
28-Apr-09	21:39	5	59.7	61.0	58.0	60.5	59.7*	70.0

¹ Additional 3dB (A) façade correction was made to the Free-field measurements

^{*} No adjustment was made on the measured noise level, since corresponding baseline level > measured noise level. The measured noise level was mainly dominated by local traffic noise and the construction noise generated from the Project was not noticeable at NSR according to the field study record.

^{**} No Construction works was carried out during the reporting period

[#] No monitoring was undertaken due to bad weather

The Summary of Night-time Leq₅ Level at HKIVE Fok Ying Tung Hall of Residence (NSR 1)

Date	Monitoring Time	Duration	Mea	asured Noise Le	evel ¹	Baseline Level ¹	Construction Noise Level	Limit Level
		min	Leq	L10	L90	Leq	Leq	
			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
31-Mar-09	23:02	5	59.2	60.5	57.5	59.4	59.2*	55.0
31-Mar-09	23:07	5	59.0	60.5	57.0	58.7	47.2	55.0
31-Mar-09	23:12	5	58.0	59.0	56.5	59.2	58.0*	55.0
31-Mar-09	23:17	5	58.8	60.0	57.0	58.5	47.0	55.0
7-Apr-09	23:07	5	60.1	62.0	58.0	58.7	54.5	55.0
7-Apr-09	23:12	5	60.2	61.5	58.5	59.2	53.3	55.0
7-Apr-09	23:17	5	60.1	61.5	58.5	58.5	55.0	55.0
7-Apr-09	23:22	5	59.9	62.5	58.5	58.3	54.8	55.0
16-Apr-09	23:01	5	58.3	60.0	56.0	59.4	58.3*	55.0
16-Apr-09	23:06	5	58.2	59.5	56.5	58.7	58.2*	55.0
16-Apr-09	23:11	5	59.0	60.5	56.5	59.2	59.0*	55.0
16-Apr-09	23:16	5	58.4	59.5	56.5	58.5	58.4*	55.0
22-Apr-09	23:04	5	57.9	59.5	56.0	58.7	57.9*	55.0
22-Apr-09	23:09	5	58.3	59.5	57.0	59.2	58.3*	55.0
22-Apr-09	23:14	5	58.7	59.5	57.5	58.5	45.2	55.0
22-Apr-09	23:19	5	57.9	58.5	57.0	58.3	57.9*	55.0
28-Apr-09	23:09	5	56.7	57.5	55.5	59.2	56.7*	55.0
28-Apr-09	23:14	5	57.4	58.5	55.5	58.5	57.4*	55.0
28-Apr-09	23:19	5	57.6	58.5	56.5	58.3	57.6*	55.0
28-Apr-09	23:24	5	57.5	58.5	56.0	58.1	57.5*	55.0

¹ Additional 3dB (A) façade correction was made to the Free-field measurements

^{*} No adjustment was made on the measured noise level, since corresponding baseline level ≥ measured noise level. The measured noise level was mainly dominated by local traffic noise and the construction noise generated from the Project was not noticeable at NSR according to the field study record.

^{**} No Construction works was carried out during the reporting period

[#] No monitoring was undertaken due to bad weather

The Summary of Public Holiday Leq₅ Level at HKIVE Fok Ying Tung Hall of Residence (NSR 1)

Date	Monitoring Time	Duration	Mea	asured Noise Le	vel ¹	Baseline Level ¹	Construction Noise Level	Limit Level
		min	Leq	L10	L90	Leq	Leq	
			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
29-Mar-09	10:18	5	61.9	64.0	59.0	65.1	61.9*	70.0
29-Mar-09	10:23	5	61.8	64.0	59.0	64.8	61.8*	70.0
29-Mar-09	10:28	5	61.1	63.0	58.0	64.5	61.1*	70.0
29-Mar-09	10:33	5	62.0	64.5	58.5	63.7	62.0*	70.0
29-Mar-09	10:38	5	62.3	63.5	59.5	63.6	62.3*	70.0
29-Mar-09	10:43	5	61.5	64.0	59.0	63.9	61.5*	70.0
5-Apr-09	14:32	5	61.2	64.0	57.0	62.0	61.2*	70.0
5-Apr-09	14:37	5	61.5	64.0	57.5	62.6	61.5*	70.0
5-Apr-09	14:42	5	59.8	62.0	57.0	62.9	59.8*	70.0
5-Apr-09	14:47	5	59.2	61.5	56.5	63.7	59.2*	70.0
5-Apr-09	14:52	5	62.4	65.5	58.0	63.3	62.4*	70.0
5-Apr-09	14:57	5	60.3	62.0	57.5	61.7	60.3*	70.0
12-Apr-09	9:37	5	60.9	62.5	58.5	65.7	60.9*	70.0
12-Apr-09	9:42	5	62.5	64.5	59.0	66.0	62.5*	70.0
12-Apr-09	9:47	5	60.3	61.5	58.0	64.1	60.3*	70.0
12-Apr-09	9:52	5	62.0	64.5	58.5	65.7	62.0*	70.0
12-Apr-09	9:57	5	61.0	62.5	58.0	64.7	61.0*	70.0
12-Apr-09	10:02	5	62.3	64.5	59.0	63.5	62.3*	70.0
19-Apr-09	10:41	5	60.7	61.5	59.0	63.6	60.7*	70.0
19-Apr-09	10:46	5	60.6	61.5	59.0	63.9	60.6*	70.0
19-Apr-09	10:51	5	62.0	63.5	60.0	66.2	62.0*	70.0
19-Apr-09	10:56	5	61.5	63.0	59.5	64.5	61.5*	70.0
19-Apr-09	11:01	5	61.3	62.5	59.5	64.2	61.3*	70.0
19-Apr-09	11:06	5	60.9	62.0	59.0	63.7	60.9*	70.0
26-Apr-09	9:04	5	61.1	62.5	59.0	63.2	61.1*	70.0
26-Apr-09	9:09	5	61.1	62.0	59.5	64.7	61.1*	70.0
26-Apr-09	9:14	5	60.5	61.5	59.0	64.6	60.5*	70.0
26-Apr-09	9:19	5	60.3	61.5	58.5	64.8	60.3*	70.0
26-Apr-09	9:24	5	61.1	63.0	58.5	64.8	61.1*	70.0
26-Apr-09	9:29	5	60.7	62.0	59.0	66.4	60.7*	70.0

¹ Additional 3dB (A) façade correction was made to the Free-field measurements

^{*} No adjustment was made on the measured noise level, since corresponding baseline level > measured noise level. The measured noise level was mainly dominated by local traffic noise and the construction noise generated from the Project was not noticeable at NSR according to the field study record.

^{**} No Construction works was carried out during the reporting period

[#] No monitoring was undertaken due to bad weather

The Summary of Evening-time Leq₅ Level at HKIVE 5th Floor Block D of the Main Building (NSR 2)

Date	Monitoring Time	Duration	Mea	asured Noise Le	vel ¹	Baseline Level ¹	Construction Noise Level	Limit Level
		min	Leq	L10	L90	Leq	Leq	
			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
31-Mar-09	20:13	5	64.1	65.0	61.5	66.2	64.1*	70.0
31-Mar-09	20:18	5	63.7	65.5	61.5	65.5	63.7*	70.0
31-Mar-09	20:23	5	62.6	63.5	61.5	65.4	62.6*	70.0
31-Mar-09	20:28	5	62.9	63.5	61.5	65.6	62.9*	70.0
31-Mar-09	20:33	5	62.3	63.0	61.0	64.9	62.3*	70.0
31-Mar-09	20:38	5	61.7	62.5	60.5	64.3	61.7*	70.0
7-Apr-09	19:33	5	63.6	64.5	62.5	66.0	63.6*	70.0
7-Apr-09	19:38	5	64.3	66.5	62.0	66.1	64.3*	70.0
7-Apr-09	19:43	5	64.7	66.5	62.0	66.3	64.7*	70.0
7-Apr-09	19:48	5	63.4	64.5	62.0	65.7	63.4*	70.0
7-Apr-09	19:53	5	63.1	64.0	62.0	66.3	63.1*	70.0
7-Apr-09	19:58	5	62.9	65.0	61.0	65.2	62.9*	70.0
16-Apr-09	19:52	5	61.2	62.0	60.0	65.7	61.2*	70.0
16-Apr-09	19:57	5	62.8	64.0	60.5	66.3	62.8*	70.0
16-Apr-09	20:02	5	62.9	64.5	60.5	65.2	62.9*	70.0
16-Apr-09	20:07	5	63.1	64.5	61.0	66.4	63.1*	70.0
16-Apr-09	20:12	5	62.6	63.5	61.0	65.3	62.6*	70.0
16-Apr-09	20:17	5	61.4	64.0	61.0	66.2	61.4*	70.0
22-Apr-09	20:46	5	63.5	64.0	61.5	64.6	63.5*	70.0
22-Apr-09	20:51	5	63.5	63.9	61.5	64.3	63.5*	70.0
22-Apr-09	20:56	5	63.0	64.0	61.5	64.7	63.0*	70.0
22-Apr-09	21:01	5	62.7	63.5	61.0	64.4	62.7*	70.0
22-Apr-09	21:06	5	62.4	63.5	61.0	64.4	62.4*	70.0
22-Apr-09	21:11	5	62.6	63.5	61.0	64.6	62.6*	70.0
28-Apr-09	21:08	5	62.1	63.0	60.5	64.6	62.1*	70.0
28-Apr-09	21:13	5	62.4	63.5	60.5	63.4	62.4*	70.0
28-Apr-09	21:18	5	63.3	64.0	61.0	63.6	63.3*	70.0
28-Apr-09	21:23	5	62.2	62.5	61.0	64.0	62.2*	70.0
28-Apr-09	21:28	5	62.6	64.0	60.5	63.1	62.6*	70.0
28-Apr-09	21:33	5	61.3	62.0	60.0	64.2	61.3*	70.0

¹ Additional 3dB (A) façade correction was made to the Free-field measurements

^{*} No adjustment was made on the measured noise level, since corresponding baseline level ≥ measured noise level. The measured noise level was mainly dominated by local traffic noise and the construction noise generated from the Project was not noticeable at NSR according to the field study record.

^{**} No Construction works was carried out during the reporting period

[#] No monitoring was undertaken due to bad weather

The Summary of Night-time Leq₅ Level at HKIVE 5th Floor Block D of the Main Building (NSR 2)

Date	Monitoring Time	Duration	Mea	asured Noise Le	vel ¹	Baseline Level ¹	Construction Noise Level	Limit Level
		min	Leq	L10	L90	Leq	Leq	
			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
31-Mar-09	23:08	5	60.6	61.5	59.0	60.3	48.8	55.0
31-Mar-09	23:13	5	60.0	60.5	58.5	61.0	60.0*	55.0
31-Mar-09	23:18	5	60.3	61.0	59.0	60.2	43.9	55.0
31-Mar-09	23:23	5	59.9	60.5	59.0	59.5	49.3	55.0
7-Apr-09	23:03	5	61.7	63.0	60.0	60.7	54.8	55.0
7-Apr-09	23:08	5	61.4	62.5	60.0	60.3	54.9	55.0
7-Apr-09	23:13	5	61.5	62.5	60.0	61.0	51.9	55.0
7-Apr-09	23:18	5	61.3	63.0	61.0	60.2	54.8	55.0
16-Apr-09	23:07	5	61.7	62.5	58.5	60.7	54.8	55.0
16-Apr-09	23:12	5	60.4	61.5	59.0	60.3	44.0	55.0
16-Apr-09	23:17	5	59.6	60.5	58.5	61.0	59.6*	55.0
16-Apr-09	23:22	5	59.8	61.0	58.0	60.2	59.8*	55.0
22-Apr-09	23:01	5	59.4	60.0	58.0	60.3	59.4*	55.0
22-Apr-09	23:06	5	60.0	61.0	58.5	60.7	60.0*	55.0
22-Apr-09	23:11	5	60.2	60.5	59.0	60.3	60.2*	55.0
22-Apr-09	23:16	5	60.6	61.0	59.5	61.0	60.6*	55.0
28-Apr-09	23:03	5	60.6	61.5	59.5	60.7	60.6*	55.0
28-Apr-09	23:08	5	60.2	61.0	59.0	60.3	60.2*	55.0
28-Apr-09	23:13	5	61.0	62.0	59.5	61.0	61.0*	55.0
28-Apr-09	23:18	5	60.6	61.5	59.5	60.2	50.0	55.0

Additional 3dB (A) façade correction was made to the Free-field measurements

^{*} No adjustment was made on the measured noise level, since corresponding baseline level ≥ measured noise level. The measured noise level was mainly dominated by local traffic noise and the construction noise generated from the Project was not noticeable at NSR according to the field study record.

^{**} No Construction works was carried out during the reporting period

[#] No monitoring was undertaken due to bad weather

The Summary of Public Holiday Leq₅ Level at HKIVE 5th Floor Block D of the Main Building (NSR 2)

Date	Monitoring Time	Duration	Mea	asured Noise Le	vel ¹	Baseline Level ¹	Construction Noise Level	Limit Level
		min	Leq	L10	L90	Leq	Leq	
			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
29-Mar-09	9:33	5	61.5	62.5	59.5	67.8	61.5*	70.0
29-Mar-09	9:38	5	61.9	63.0	60.0	67.7	61.9*	70.0
29-Mar-09	9:43	5	62.2	64.0	60.0	68.3	62.2*	70.0
29-Mar-09	9:48	5	61.2	62.5	59.5	68.3	61.2*	70.0
29-Mar-09	9:53	5	61.9	64.5	59.5	68.2	61.9*	70.0
29-Mar-09	9:58	5	61.9	63.0	60.0	67.3	61.9*	70.0
5-Apr-09	10:38	5	62.2	63.5	60.5	66.7	62.2*	70.0
5-Apr-09	10:43	5	61.8	63.5	59.5	67.9	61.8*	70.0
5-Apr-09	10:48	5	62.1	63.5	60.0	67.5	62.1*	70.0
5-Apr-09	10:53	5	62.3	64.0	60.0	67.5	62.3*	70.0
5-Apr-09	10:58	5	62.2	63.0	60.5	66.6	62.2*	70.0
5-Apr-09	11:03	5	61.5	62.5	60.0	67.8	61.5*	70.0
12-Apr-09	14:58	5	60.1	61.5	58.5	66.4	60.1*	70.0
12-Apr-09	15:03	5	60.4	62.0	58.5	66.5	60.4*	70.0
12-Apr-09	15:08	5	60.2	61.0	58.5	65.2	60.2*	70.0
12-Apr-09	15:13	5	60.2	61.0	59.0	66.3	60.2*	70.0
12-Apr-09	15:18	5	60.8	61.5	59.5	65.5	60.8*	70.0
12-Apr-09	15:23	5	60.9	62.5	59.0	66.0	60.9*	70.0
19-Apr-09	10:47	5	62.6	64.0	61.0	67.9	62.6*	70.0
19-Apr-09	10:52	5	62.3	63.5	61.0	67.5	62.3*	70.0
19-Apr-09	10:57	5	62.6	63.5	61.0	67.5	62.6*	70.0
19-Apr-09	11:02	5	61.8	62.5	60.5	66.6	61.8*	70.0
19-Apr-09	11:07	5	61.0	62.5	60.0	67.8	61.0*	70.0
19-Apr-09	11:12	5	61.4	62.5	60.0	68.0	61.4*	70.0
26-Apr-09	8:46	5	61.2	62.0	60.0	67.3	61.2*	70.0
26-Apr-09	8:51	5	62.2	63.0	60.5	66.5	62.2*	70.0
26-Apr-09	8:56	5	61.3	62.5	60.0	67.8	61.3*	70.0
26-Apr-09	9:01	5	61.4	62.5	60.0	66.7	61.4*	70.0
26-Apr-09	9:06	5	61.9	63.0	60.5	67.4	61.9*	70.0
26-Apr-09	9:11	5	61.9	62.5	60.5	67.4	61.9*	70.0

¹ Additional 3dB (A) façade correction was made to the Free-field measurements

^{*} No adjustment was made on the measured noise level, since corresponding baseline level > measured noise level. The measured noise level was mainly dominated by local traffic noise and the construction noise generated from the Project was not noticeable at NSR according to the field study record.

^{**} No Construction works was carried out during the reporting period

[#] No monitoring was undertaken due to bad weather

The Summary of Evening-time Leq₅ Level at Mayfair Gardens 1st Floor adjacet to Swimming Pool (NSR 3)

Date	Monitoring Time	Duration	Mea	asured Noise Le	vel ¹	Baseline Level ¹	Construction Noise Level	Limit Level
		min	Leq	L10	L90	Leq	Leq	
			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
31-Mar-09	20:08	5	62.5	64.2	60.6	64.8	62.5*	70.0
31-Mar-09	20:13	5	64.7	66.7	61.3	64.6	48.3	70.0
31-Mar-09	20:18	5	63.5	65.5	61.0	64.8	63.5*	70.0
31-Mar-09	20:23	5	62.0	64.2	59.9	64.5	62.0*	70.0
31-Mar-09	20:28	5	62.3	63.8	60.1	64.3	62.3*	70.0
31-Mar-09	20:33	5	61.9	63.7	60.0	64.2	61.9*	70.0
7-Apr-09	19:33	5	64.2	65.7	62.5	65.3	64.2*	70.0
7-Apr-09	19:38	5	65.8	68.5	62.8	65.1	57.5	70.0
7-Apr-09	19:43	5	65.2	67.8	62.3	65.1	48.8	70.0
7-Apr-09	19:48	5	64.2	65.8	62.3	65.4	64.2*	70.0
7-Apr-09	19:53	5	63.6	65.1	61.9	65.4	63.6*	70.0
7-Apr-09	19:58	5	64.5	66.7	62.1	64.9	64.5*	70.0
16-Apr-09	20:50	5	62.2	63.8	60.4	64.3	62.2*	70.0
16-Apr-09	20:55	5	63.3	65.4	61.0	64.4	63.3*	70.0
16-Apr-09	21:00	5	65.3	67.2	62.0	64.3	58.4	70.0
16-Apr-09	21:05	5	63.6	65.3	61.4	64.1	63.6*	70.0
16-Apr-09	21:10	5	63.2	65.2	60.7	64.2	63.2*	70.0
16-Apr-09	21:15	5	64.1	66.8	60.9	64.5	64.1*	70.0
22-Apr-09	21:07	5	63.2	64.9	61.2	64.1	63.2*	70.0
22-Apr-09	21:12	5	63.7	65.4	61.5	64.2	63.7*	70.0
22-Apr-09	21:17	5	64.1	65.8	61.4	64.5	64.1*	70.0
22-Apr-09	21:22	5	63.9	64.9	61.8	65.4	63.9*	70.0
22-Apr-09	21:27	5	64.2	65.9	61.9	64.7	64.2*	70.0
22-Apr-09	21:32	5	64.4	66.6	61.5	64.3	48.0	70.0
28-Apr-09	19:19	5	65.4	67.3	62.7	65.7	65.4*	70.0
28-Apr-09	19:24	5	64.7	66.9	62.4	65.5	64.7*	70.0
28-Apr-09	19:29	5	65.0	66.8	63.3	65.4	65.0*	70.0
28-Apr-09	19:34	5	65.3	67.1	62.9	65.3	65.3*	70.0
28-Apr-09	19:39	5	65.6	67.9	63.2	65.1	56.0	70.0
28-Apr-09	19:44	5	64.7	66.4	62.5	65.1	64.7*	70.0

¹ Additional 3dB (A) façade correction was made to the Free-field measurements

^{*} No adjustment was made on the measured noise level, since corresponding baseline level ≥ measured noise level. The measured noise level was mainly dominated by local traffic noise and the construction noise generated from the Project was not noticeable at NSR according to the field study record.

^{**} No Construction works was carried out during the reporting period

[#] No monitoring was undertaken due to bad weather

The Summary of Night-time Leq₅ Level at Mayfair Gardens 1st Floor adjacet to Swimming Pool (NSR 3)

Date	Monitoring Time	Duration	Me	asured Noise Le	vel ¹	Baseline Level ¹	Construction Noise Level	Limit Level
		min	Leq	L10	L90	Leq	Leq	
			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
31-Mar-09	23:03	5	60.4	62.1	57.9	62.8	60.4*	55.0
31-Mar-09	23:08	5	61.2	62.9	59.0	62.9	61.2*	55.0
31-Mar-09	23:13	5	60.4	62.6	57.7	63.0	60.4*	55.0
31-Mar-09	23:18	5	61.4	64.4	57.1	62.8	61.4*	55.0
7-Apr-09	23:18	5	60.8	63.0	58.0	62.8	60.8*	55.0
7-Apr-09	23:23	5	60.6	63.3	57.4	62.2	60.6*	55.0
7-Apr-09	23:28	5	61.1	63.5	58.5	62.3	61.1*	55.0
7-Apr-09	23:33	5	60.3	61.9	58.6	62.1	60.3*	55.0
16-Apr-09	23:05	5	61.7	64.0	58.5	62.8	61.7*	55.0
16-Apr-09	23:10	5	61.6	64.1	58.0	62.9	61.6*	55.0
16-Apr-09	23:15	5	59.2	61.7	56.8	63.0	59.2*	55.0
16-Apr-09	23:20	5	60.9	63.4	56.9	62.8	60.9*	55.0
22-Apr-09	23:02	5	60.7	62.9	57.7	63.4	60.7*	55.0
22-Apr-09	23:07	5	60.7	62.7	58.5	62.8	60.7*	55.0
22-Apr-09	23:12	5	60.9	63.1	58.2	62.9	60.9*	55.0
22-Apr-09	23:17	5	61.8	63.5	58.9	63.0	61.8*	55.0
28-Apr-09	23:14	5	61.7	63.4	60.1	63.0	61.7*	55.0
28-Apr-09	23:19	5	62.1	63.9	59.8	62.8	62.1*	55.0
28-Apr-09	23:24	5	61.1	62.4	59.8	62.2	61.1*	55.0
28-Apr-09	23:29	5	62.2	64.2	60.1	62.3	62.2*	55.0

¹ Additional 3dB (A) façade correction was made to the Free-field measurements

^{*} No adjustment was made on the measured noise level, since corresponding baseline level ≥ measured noise level. The measured noise level was mainly dominated by local traffic noise and the construction noise generated from the Project was not noticeable at NSR according to the field study record.

^{**} No Construction works was carried out during the reporting period

[#] No monitoring was undertaken due to bad weather

The Summary of Public Holiday Leq₅ Level at Mayfair Gardens 1st Floor adjacet to Swimming Pool (NSR 3)

Date	Monitoring Time	Duration	Mea	asured Noise Le	vel ¹	Baseline Level ¹	Construction Noise Level	Limit Level
		min	Leq	L10	L90	Leq	Leq	
			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
29-Mar-09	8:50	5	62.4	63.8	61.0	69.0	62.4*	70.0
29-Mar-09	8:55	5	62.9	64.1	61.4	68.2	62.9*	70.0
29-Mar-09	9:00	5	63.1	64.7	61.3	67.5	63.1*	70.0
29-Mar-09	9:05	5	64.8	67.3	61.3	68.1	64.8*	70.0
29-Mar-09	9:10	5	62.7	63.8	61.1	67.8	62.7*	70.0
29-Mar-09	9:15	5	63.8	65.4	61.9	67.5	63.8*	70.0
5-Apr-09	16:18	5	63.2	65.1	60.4	65.6	63.2*	70.0
5-Apr-09	16:23	5	61.9	64.0	59.1	65.8	61.9*	70.0
5-Apr-09	16:28	5	63.0	65.1	60.0	65.6	63.0*	70.0
5-Apr-09	16:33	5	61.9	64.1	59.1	65.8	61.9*	70.0
5-Apr-09	16:38	5	63.1	65.2	59.9	66.0	63.1*	70.0
5-Apr-09	16:43	5	62.4	64.5	59.7	65.9	62.4*	70.0
12-Apr-09	13:53	5	63.8	65.4	59.9	65.5	63.8*	70.0
12-Apr-09	13:58	5	63.9	65.9	60.4	64.7	63.9*	70.0
12-Apr-09	14:03	5	63.0	64.5	60.6	65.1	63.0*	70.0
12-Apr-09	14:08	5	63.4	66.0	59.1	65.0	63.4*	70.0
12-Apr-09	14:13	5	63.3	65.4	60.8	66.5	63.3*	70.0
12-Apr-09	14:18	5	62.8	65.1	60.3	65.4	62.8*	70.0
19-Apr-09	10:25	5	64.0	65.9	61.5	67.6	64.0*	70.0
19-Apr-09	10:30	5	65.3	65.8	61.0	66.7	65.3*	70.0
19-Apr-09	10:35	5	65.4	68.4	61.7	66.3	65.4*	70.0
19-Apr-09	10:40	5	63.3	64.5	61.7	66.7	63.3*	70.0
19-Apr-09	10:45	5	63.8	65.7	61.9	66.5	63.8*	70.0
19-Apr-09	10:50	5	62.9	64.6	60.8	67.3	62.9*	70.0
26-Apr-09	15:40	5	63.1	65.0	60.6	65.4	63.1*	70.0
26-Apr-09	15:45	5	64.5	66.0	60.7	64.9	64.5*	70.0
26-Apr-09	15:50	5	64.0	65.6	61.8	65.8	64.0*	70.0
26-Apr-09	15:55	5	63.2	64.9	61.3	65.5	63.2*	70.0
26-Apr-09	16:00	5	62.7	64.1	60.9	66.0	62.7*	70.0
26-Apr-09	16:05	5	62.7	64.6	60.4	66.2	62.7*	70.0

¹ Additional 3dB (A) façade correction was made to the Free-field measurements

^{*} No adjustment was made on the measured noise level, since corresponding baseline level ≥ measured noise level. The measured noise level was mainly dominated by local traffic noise and the construction noise generated from the Project was not noticeable at NSR according to the field study record.

^{**} No Construction works was carried out during the reporting period

[#] No monitoring was undertaken due to bad weather

The Summary of Evening-time Leq₅ Level at Cheung Ching Estate at Roof of Ching Yung House (NSR 4)

Date	Monitoring Time	Duration	Mea	asured Noise Le	vel ¹	Baseline Level ¹	Construction Noise Level	Limit Level
		min	Leq	L10	L90	Leq	Leq	
			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
31-Mar-09	19:07	5	63.0	65.8	59.4	68.5	63.0*	70.0
31-Mar-09	19:12	5	64.3	67.2	59.1	67.8	64.3*	70.0
31-Mar-09	19:17	5	63.7	66.6	60.1	68.3	63.7*	70.0
31-Mar-09	19:22	5	63.0	65.8	59.0	68.1	63.0*	70.0
31-Mar-09	19:27	5	64.0	67.3	59.9	67.7	64.0*	70.0
31-Mar-09	19:32	5	63.3	66.3	59.4	67.8	63.3*	70.0
7-Apr-09	19:52	5	63.1	65.1	60.2	67.5	63.1*	70.0
7-Apr-09	19:57	5	63.9	67.4	58.3	67.8	63.9*	70.0
7-Apr-09	20:02	5	63.2	65.3	59.5	66.8	63.2*	70.0
7-Apr-09	20:07	5	63.1	66.4	59.7	66.8	63.1*	70.0
7-Apr-09	20:12	5	64.0	66.9	59.4	67.1	64.0*	70.0
7-Apr-09	20:17	5	63.9	66.3	60.3	67.3	63.9*	70.0
16-Apr-09	20:14	5	64.0	66.6	59.8	67.3	64.0*	70.0
16-Apr-09	20:19	5	64.3	66.8	60.5	66.5	64.3*	70.0
16-Apr-09	20:24	5	62.9	65.6	59.5	66.5	62.9*	70.0
16-Apr-09	20:29	5	63.5	66.6	58.8	66.1	63.5*	70.0
16-Apr-09	20:34	5	63.3	66.1	58.9	66.9	63.3*	70.0
16-Apr-09	20:39	5	62.3	64.4	59.6	66.1	62.3*	70.0
22-Apr-09	21:05	5	63.6	66.4	60.2	66.0	63.6*	70.0
22-Apr-09	21:10	5	62.2	64.5	59.1	65.8	62.2*	70.0
22-Apr-09	21:15	5	63.2	66.8	59.0	66.3	63.2*	70.0
22-Apr-09	21:20	5	61.9	64.4	58.8	66.3	61.9*	70.0
22-Apr-09	21:25	5	61.9	63.7	58.3	67.2	61.9*	70.0
22-Apr-09	21:30	5	62.9	65.1	60.0	66.3	62.9*	70.0
28-Apr-09	19:54	5	63.9	66.6	59.5	67.8	63.9*	70.0
28-Apr-09	19:59	5	62.4	64.9	58.9	66.8	62.4*	70.0
28-Apr-09	20:04	5	62.5	64.8	58.5	66.8	62.5*	70.0
28-Apr-09	20:09	5	62.8	65.8	58.7	67.1	62.8*	70.0
28-Apr-09	20:14	5	63.6	66.3	59.0	67.3	63.6*	70.0
28-Apr-09	20:19	5	62.9	65.3	59.3	66.5	62.9*	70.0

¹ Additional 3dB (A) façade correction was made to the Free-field measurements

^{*} No adjustment was made on the measured noise level, since corresponding baseline level ≥ measured noise level. The measured noise level was mainly dominated by local traffic noise and the construction noise generated from the Project was not noticeable at NSR according to the field study record.

^{**} No Construction works was carried out during the reporting period

[#] No monitoring was undertaken due to bad weather

The Summary of Night-time Leq₅ Level at Cheung Ching Estate at Roof of Ching Yung House (NSR 4)

Date	Monitoring Time	Duration	Me	asured Noise Le	vel ¹	Baseline Level ¹	Construction Noise Level	Limit Level
		min	Leq	L10	L90	Leq	Leq	
			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
31-Mar-09	23:02	5	61.5	64.5	57.5	65.5	61.5*	55.0
31-Mar-09	23:07	5	61.9	64.7	57.9	66.0	61.9*	55.0
31-Mar-09	23:12	5	62.5	65.7	57.3	65.7	62.5*	55.0
31-Mar-09	23:17	5	62.7	65.7	56.0	66.7	62.7*	55.0
7-Apr-09	23:17	5	62.0	65.0	58.0	66.7	62.0*	55.0
7-Apr-09	23:22	5	62.2	64.9	57.6	65.7	62.2*	55.0
7-Apr-09	23:27	5	62.0	64.7	56.9	65.3	62.0*	55.0
7-Apr-09	23:32	5	60.5	62.5	56.9	65.4	60.5*	55.0
16-Apr-09	23:09	5	62.2	65.5	56.8	65.7	62.2*	55.0
16-Apr-09	23:14	5	60.9	63.9	54.9	66.7	60.9*	55.0
16-Apr-09	23:19	5	62.4	65.4	57.2	65.7	62.4*	55.0
16-Apr-09	23:24	5	63.0	66.7	55.5	65.3	63.0*	55.0
22-Apr-09	23:10	5	61.4	64.6	57.4	65.7	61.4*	55.0
22-Apr-09	23:15	5	62.9	66.2	57.6	66.7	62.9*	55.0
22-Apr-09	23:20	5	60.2	63.0	56.4	65.7	60.2*	55.0
22-Apr-09	23:25	5	62.1	65.1	56.8	65.3	62.1*	55.0
28-Apr-09	23:24	5	60.8	63.9	55.8	65.3	60.8*	55.0
28-Apr-09	23:29	5	61.2	64.2	56.9	65.4	61.2*	55.0
28-Apr-09	23:34	5	62.9	66.0	58.0	65.7	62.9*	55.0
28-Apr-09	23:39	5	60.0	63.3	55.9	65.8	60.0*	55.0

¹ Additional 3dB (A) façade correction was made to the Free-field measurements

^{*} No adjustment was made on the measured noise level, since corresponding baseline level ≥ measured noise level. The measured noise level was mainly dominated by local traffic noise and the construction noise generated from the Project was not noticeable at NSR according to the field study record.

^{**} No Construction works was carried out during the reporting period

[#] No monitoring was undertaken due to bad weather

The Summary of Public Holiday Leq₅ Level at Cheung Ching Estate at Roof of Ching Yung House (NSR 4)

Date	Monitoring Time	Duration	Mea	asured Noise Le	vel ¹	Baseline Level ¹	Construction Noise Level	Limit Level
		min	Leq	L10	L90	Leq	Leq	
			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
29-Mar-09	10:59	5	63.1	65.6	58.9	66.0	63.1*	70.0
29-Mar-09	11:04	5	64.4	67.5	58.2	66.1	64.4*	70.0
29-Mar-09	11:09	5	62.2	64.6	59.3	66.6	62.2*	70.0
29-Mar-09	11:14	5	62.6	66.0	58.0	67.0	62.6*	70.0
29-Mar-09	11:19	5	63.8	66.6	60.0	66.7	63.8*	70.0
29-Mar-09	11:24	5	62.7	65.9	58.3	67.5	62.7*	70.0
5-Apr-09	13:57	5	63.2	65.5	59.3	66.6	63.2*	70.0
5-Apr-09	14:02	5	63.6	66.2	58.4	66.9	63.6*	70.0
5-Apr-09	14:07	5	62.9	65.8	57.9	67.1	62.9*	70.0
5-Apr-09	14:12	5	62.0	64.3	58.7	67.1	62.0*	70.0
5-Apr-09	14:17	5	63.9	66.5	60.0	66.6	63.9*	70.0
5-Apr-09	14:22	5	61.7	64.5	57.0	66.9	61.7*	70.0
12-Apr-09	15:52	5	63.2	65.7	58.9	67.9	63.2*	70.0
12-Apr-09	15:57	5	62.9	66.2	56.2	67.5	62.9*	70.0
12-Apr-09	16:02	5	61.2	63.8	57.2	66.4	61.2*	70.0
12-Apr-09	16:07	5	62.4	64.8	58.4	67.3	62.4*	70.0
12-Apr-09	16:12	5	61.7	64.8	57.6	66.5	61.7*	70.0
12-Apr-09	16:17	5	62.8	66.2	57.5	67.2	62.8*	70.0
19-Apr-09	15:14	5	63.3	66.3	57.9	67.7	63.3*	70.0
19-Apr-09	15:19	5	62.4	65.1	58.7	67.2	62.4*	70.0
19-Apr-09	15:24	5	62.0	65.1	58.0	66.6	62.0*	70.0
19-Apr-09	15:29	5	61.8	64.6	58.2	67.0	61.8*	70.0
19-Apr-09	15:34	5	61.4	63.4	58.5	66.0	61.4*	70.0
19-Apr-09	15:39	5	63.6	67.0	59.9	66.8	63.6*	70.0
26-Apr-09	10:24	5	62.2	64.4	59.0	66.8	62.2*	70.0
26-Apr-09	10:29	5	63.0	65.7	58.5	67.0	63.0*	70.0
26-Apr-09	10:34	5	63.6	66.6	59.1	66.6	63.6*	70.0
26-Apr-09	10:39	5	62.2	65.6	58.7	67.3	62.2*	70.0
26-Apr-09	10:44	5	63.5	66.0	59.3	66.4	63.5*	70.0
26-Apr-09	10:49	5	62.8	66.2	57.7	66.9	62.8*	70.0

¹ Additional 3dB (A) façade correction was made to the Free-field measurements

^{*} No adjustment was made on the measured noise level, since corresponding baseline level ≥ measured noise level. The measured noise level was mainly dominated by local traffic noise and the construction noise generated from the Project was not noticeable at NSR according to the field study record.

^{**} No Construction works was carried out during the reporting period

[#] No monitoring was undertaken due to bad weather

The Summary of Evening-time Leq₅ Level at Stonecutters Base (NSR 5)

Date	Monitoring Time	Duration	Mea	asured Noise Le	vel ¹	Baseline Level ¹	Construction Noise Level	Limit Level
		min	Leq	L10	L90	Leq	Leq	
			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
31-Mar-09	19:25	5	70.2	73.4	66.1	72.5	70.2*	70.0
31-Mar-09	19:30	5	70.0	73.2	66.3	73.1	70.0*	70.0
31-Mar-09	19:35	5	69.5	73.2	67.3	72.6	69.5*	70.0
31-Mar-09	19:40	5	69.3	72.7	65.5	73.1	69.3*	70.0
31-Mar-09	19:45	5	69.0	72.9	65.6	73.3	69.0*	70.0
31-Mar-09	19:50	5	69.1	71.4	65.0	72.5	69.1*	70.0
7-Apr-09	20:11	5	69.8	72.6	65.6	72.5	69.8*	70.0
7-Apr-09	20:16	5	69.3	71.9	67.2	72.2	69.3*	70.0
7-Apr-09	20:21	5	70.1	73.5	67.8	72.3	70.1*	70.0
7-Apr-09	20:26	5	69.8	72.5	68.1	72.0	69.8*	70.0
7-Apr-09	20:31	5	69.1	71.2	66.8	72.6	69.1*	70.0
7-Apr-09	20:36	5	70.0	71.7	67.5	72.3	70.0*	70.0
16-Apr-09	19:43	5	68.5	70.8	64.4	73.3	68.5*	70.0
16-Apr-09	19:48	5	69.8	72.1	65.7	72.5	69.8*	70.0
16-Apr-09	19:53	5	70.0	73.0	64.9	72.6	70.0*	70.0
16-Apr-09	19:58	5	69.0	71.4	65.6	73.0	69.0*	70.0
16-Apr-09	20:03	5	69.8	73.0	65.2	72.4	69.8*	70.0
16-Apr-09	20:08	5	70.4	73.2	65.4	72.5	70.4*	70.0
22-Apr-09	21:08	5	69.0	71.4	63.6	71.4	69.0*	70.0
22-Apr-09	21:13	5	70.2	71.9	65.6	71.4	70.2*	70.0
22-Apr-09	21:18	5	71.5	75.3	67.5	72.0	71.5*	70.0
22-Apr-09	21:23	5	70.6	73.9	64.7	71.0	70.6*	70.0
22-Apr-09	21:28	5	69.3	71.5	65.1	71.0	69.3*	70.0
22-Apr-09	21:33	5	71.0	73.3	67.0	70.9	54.6	70.0
28-Apr-09	20:44	5	71.5	73.5	67.0	72.1	71.5*	70.0
28-Apr-09	20:49	5	71.7	73.2	68.4	72.0	71.7*	70.0
28-Apr-09	20:54	5	72.3	74.4	68.6	71.6	64.0	70.0
28-Apr-09	20:59	5	71.4	74.2	66.5	71.7	71.4*	70.0
28-Apr-09	21:04	5	71.4	74.6	66.0	71.7	71.4*	70.0
28-Apr-09	21:09	5	71.5	72.9	67.3	71.4	55.1	70.0

¹ Additional 3dB (A) façade correction was made to the Free-field measurements

^{*} No adjustment was made on the measured noise level, since corresponding baseline level > measured noise level. The measured noise level was mainly dominated by local traffic noise and the construction noise generated from the Project was not noticeable at NSR according to the field study record.

^{**} No Construction works was carried out during the reporting period

[#] No monitoring was undertaken due to bad weather

The Summary of Night-time Leq₅ Level at Stonecutters Base (NSR 5)

Date	Monitoring Time	Duration	Me	asured Noise Le	vel ¹	Baseline Level ¹	Construction Noise Level	Limit Level
		min	Leq	L10	L90	Leq	Leq	
			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
31-Mar-09	23:06	5	66.8	70.8	64.5	69.1	66.8*	55.0
31-Mar-09	23:11	5	66.0	69.7	63.3	69.6	66.0*	55.0
31-Mar-09	23:16	5	66.1	70.3	63.3	69.2	66.1*	55.0
31-Mar-09	23:21	5	66.5	70.7	63.6	69.0	66.5*	55.0
7-Apr-09	23:09	5	65.9	70.1	64.0	69.6	65.9*	55.0
7-Apr-09	23:14	5	65.6	69.6	62.9	69.2	65.6*	55.0
7-Apr-09	23:19	5	66.0	67.6	62.2	69.0	66.0*	55.0
7-Apr-09	23:24	5	66.2	71.4	61.7	68.5	66.2*	55.0
16-Apr-09	23:05	5	66.0	69.9	64.2	69.1	66.0*	55.0
16-Apr-09	23:10	5	66.0	70.1	63.5	69.6	66.0*	55.0
16-Apr-09	23:15	5	66.1	70.6	64.2	69.2	66.1*	55.0
16-Apr-09	23:20	5	66.1	69.8	62.3	69.0	66.1*	55.0
22-Apr-09	23:07	5	65.7	68.4	63.1	69.1	65.7*	55.0
22-Apr-09	23:12	5	65.1	68.8	62.5	69.6	65.1*	55.0
22-Apr-09	23:17	5	67.0	71.6	62.9	69.2	67.0*	55.0
22-Apr-09	23:22	5	66.6	69.3	62.8	69.0	66.6*	55.0
28-Apr-09	23:32	5	65.7	67.4	61.4	68.2	65.7*	55.0
28-Apr-09	23:37	5	67.3	70.2	61.0	69.0	67.3*	55.0
28-Apr-09	23:42	5	67.1	69.6	61.7	68.7	67.1*	55.0
28-Apr-09	23:47	5	67.8	71.1	61.7	68.9	67.8*	55.0

¹ Additional 3dB (A) façade correction was made to the Free-field measurements

^{*} No adjustment was made on the measured noise level, since corresponding baseline level ≥ measured noise level. The measured noise level was mainly dominated by local traffic noise and the construction noise generated from the Project was not noticeable at NSR according to the field study record.

^{**} No Construction works was carried out during the reporting period

[#] No monitoring was undertaken due to bad weather

The Summary of Public Holiday Leq₅ Level at Stonecutters Base (NSR 5)

Date	Monitoring Time	Duration	Mea	asured Noise Le	vel ¹	Baseline Level ¹	Construction Noise Level	Limit Level
		min	Leq	L10	L90	Leq	Leq	
			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
29-Mar-09	14:22	5	70.9	73.6	66.5	73.3	70.9*	70.0
29-Mar-09	14:27	5	71.0	73.0	66.3	74.1	71.0*	70.0
29-Mar-09	14:32	5	71.2	73.6	67.4	74.6	71.2*	70.0
29-Mar-09	14:37	5	70.4	73.4	64.7	72.8	70.4*	70.0
29-Mar-09	14:42	5	71.4	74.2	65.1	74.6	71.4*	70.0
29-Mar-09	14:47	5	68.6	71.2	64.1	73.2	68.6*	70.0
5-Apr-09	15:48	5	71.3	72.5	65.6	72.9	71.3*	70.0
5-Apr-09	15:53	5	70.6	72.0	69.2	73.4	70.6*	70.0
5-Apr-09	15:58	5	72.2	74.3	69.6	72.9	72.2*	70.0
5-Apr-09	16:03	5	71.1	72.4	69.0	74.0	71.1*	70.0
5-Apr-09	16:08	5	70.4	71.8	68.8	73.0	70.4*	70.0
5-Apr-09	16:13	5	69.8	71.2	68.2	73.2	69.8*	70.0
12-Apr-09	13:31	5	69.4	70.2	68.4	74.2	69.4*	70.0
12-Apr-09	13:36	5	70.0	71.2	68.7	72.9	70.0*	70.0
12-Apr-09	13:41	5	70.2	71.6	67.8	73.2	70.2*	70.0
12-Apr-09	13:46	5	69.3	71.3	66.9	73.5	69.3*	70.0
12-Apr-09	13:51	5	69.8	71.6	67.7	73.8	69.8*	70.0
12-Apr-09	13:56	5	70.3	71.7	68.7	74.3	70.3*	70.0
19-Apr-09	10:52	5	69.8	74.0	61.5	74.7	69.8*	70.0
19-Apr-09	10:57	5	70.3	73.2	64.8	74.8	70.3*	70.0
19-Apr-09	11:02	5	71.0	74.4	65.5	74.5	71.0*	70.0
19-Apr-09	11:07	5	69.5	72.3	64.7	74.3	69.5*	70.0
19-Apr-09	11:12	5	69.1	71.1	63.9	73.8	69.1*	70.0
19-Apr-09	11:17	5	69.7	72.5	65.2	74.2	69.7*	70.0
26-Apr-09	9:47	5	69.0	71.5	64.4	74.2	69.0*	70.0
26-Apr-09	9:52	5	69.6	71.6	66.2	73.8	69.6*	70.0
26-Apr-09	9:57	5	70.1	72.5	66.1	74.4	70.1*	70.0
26-Apr-09	10:02	5	68.8	71.3	65.3	74.6	68.8*	70.0
26-Apr-09	10:07	5	68.9	70.8	65.2	74.6	68.9*	70.0
26-Apr-09	10:12	5	69.4	71.6	66.4	75.9	69.4*	70.0

¹ Additional 3dB (A) façade correction was made to the Free-field measurements

^{*} No adjustment was made on the measured noise level, since corresponding baseline level \geq measured noise level. The measured noise level was mainly dominated by local traffic noise and the construction noise generated from the Project was not noticeable at NSR according to the field study record.

^{**} No Construction works was carried out during the reporting period

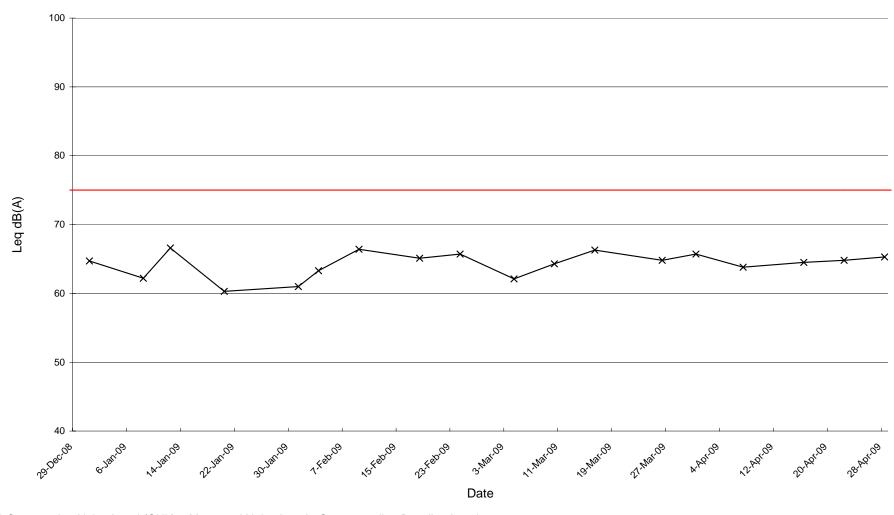
[#] No monitoring was undertaken due to bad weather

Appendix N1

Graphical Presentation of Noise Monitoring Results for Normal Hour

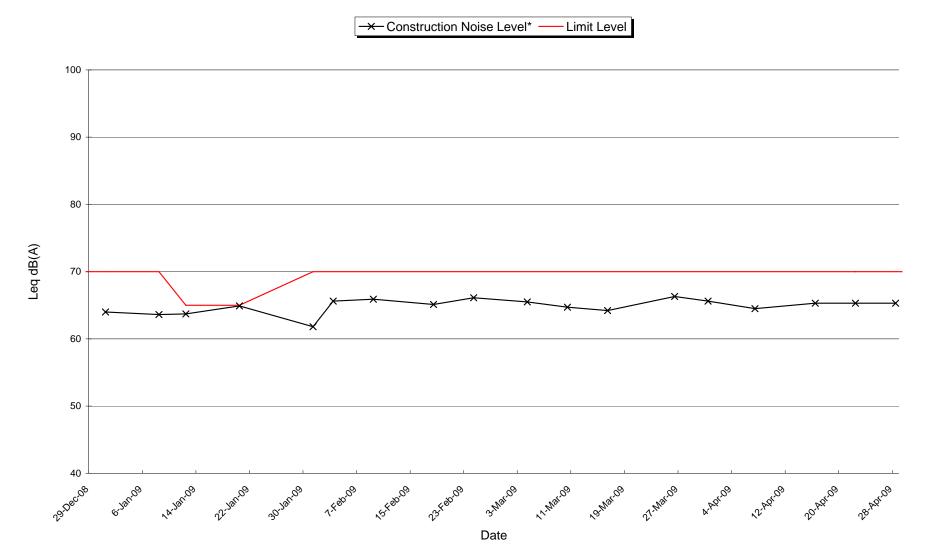
Day-time Leq₃₀ (Construction Noise Level) at HKIVE Fok Ying Tung Hall of Residence (NSR1)





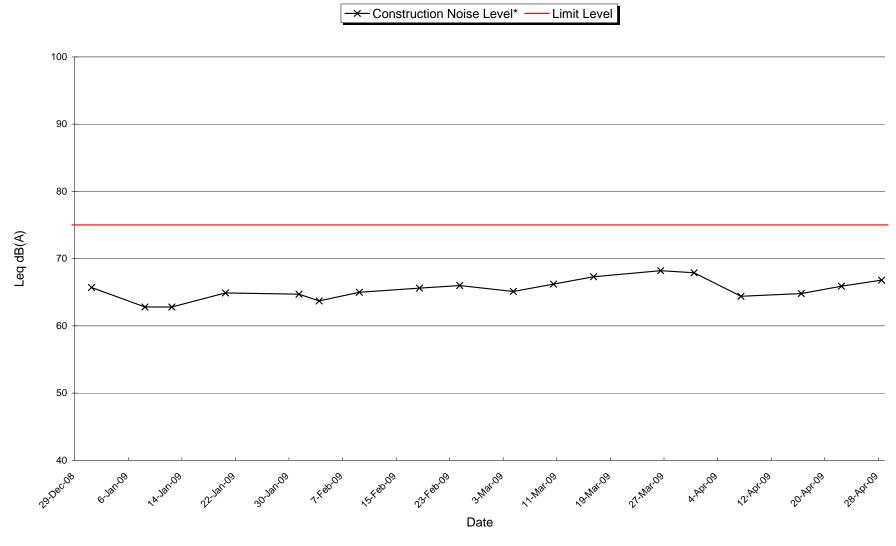
^{*} Construction Noise Level (CNL) = Measured Noise Level - Corresponding Baseline Level Please refer to Section 6.2 and Appendix M1 for more details.

Day-time Leq₃₀ (Construction Noise Level) at HKIVE 5th Floor Block D of the Main Education Building (NSR2)



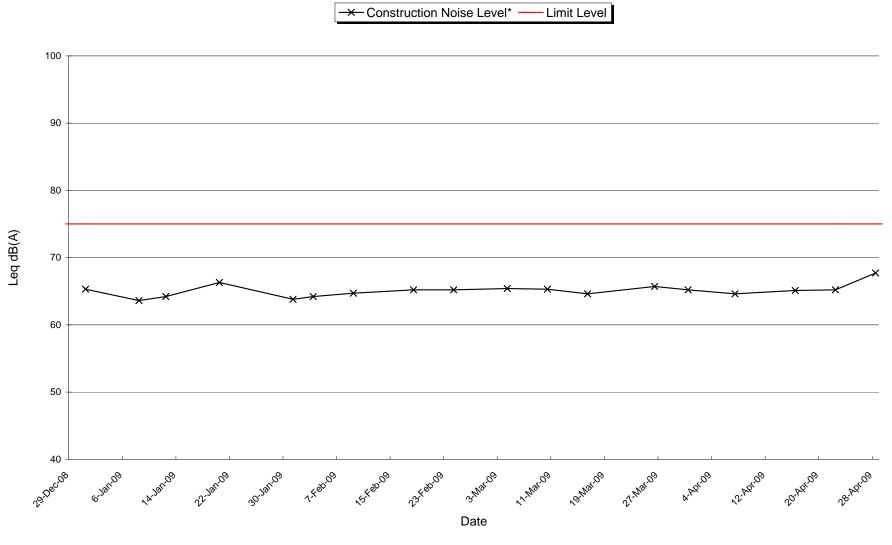
^{*} Construction Noise Level (CNL) = Measured Noise Level - Corresponding Baseline Level Please refer to Section 6.2 and Appendix M1 for more details.

Day-time Leq₃₀ (Construction Noise Level) at Mayfair Gardens 1st floor adjacent to swimming pool (NSR3)



^{*} Construction Noise Level (CNL) = Measured Noise Level - Corresponding Baseline Level Please refer to Section 6.2 and Appendix M1 for more details.

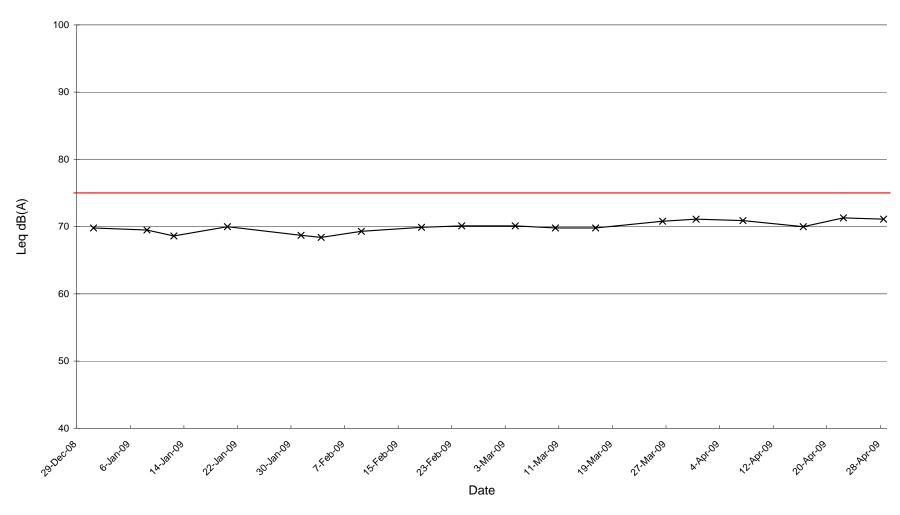
Day-time Leq₃₀ (Construction Noise Level) at Cheung Ching Estate at the Roof of Ching Yung House (NSR4)



^{*} Construction Noise Level (CNL) = Measured Noise Level - Corresponding Baseline Level Please refer to Section 6.2 and Appendix M1 for more details.

Day-time Leq₃₀ (Construction Noise Level) at Stonecutters Base (NSR5)





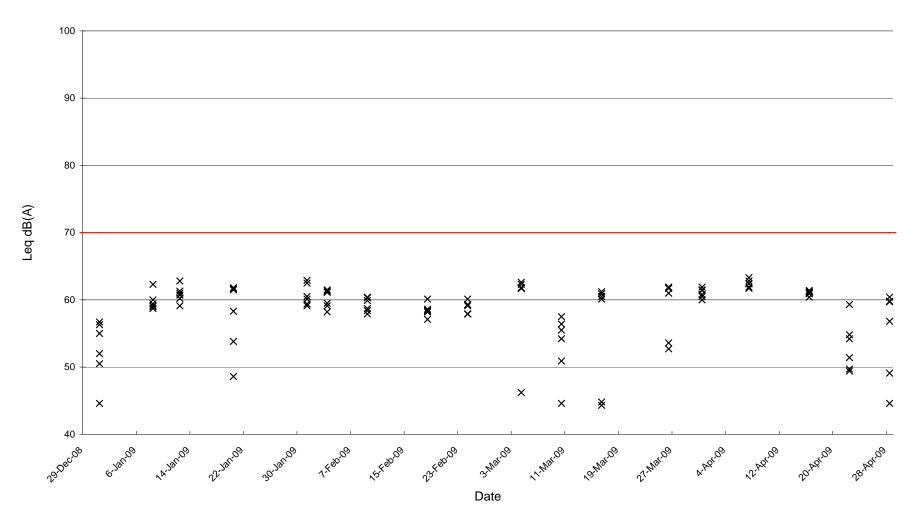
^{*} Construction Noise Level (CNL) = Measured Noise Level - Corresponding Baseline Level Please refer to Section 6.2 and Appendix M1 for more details.

Appendix N2

Graphical Presentation of Noise Monitoring Results for Restricted Hour

Evening-time Leq₅ (Construction Noise Level) at HKIVE Fok Ying Tung Hall of Residence (NSR1)

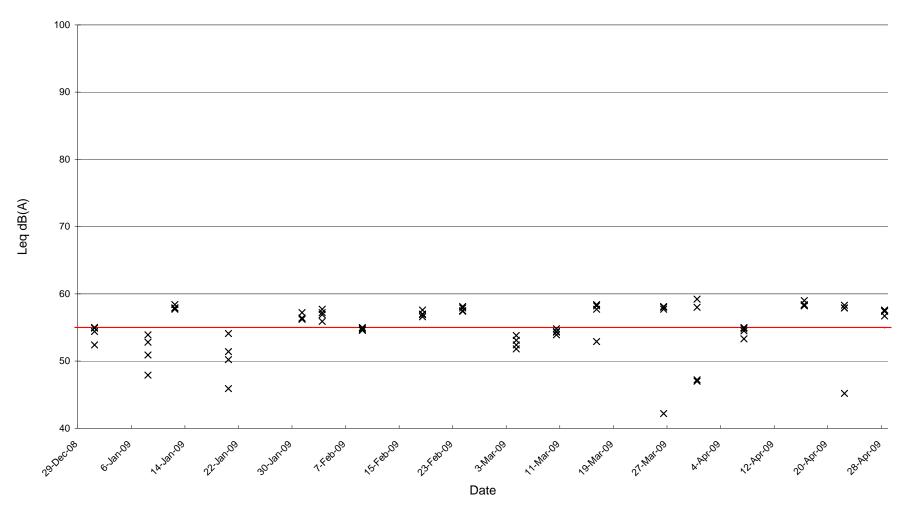




^{*} Construction Noise Level (CNL) = Measured Noise Level - Corresponding Baseline Level Please refer to Section 6.2 and Appendix M2 for more details.

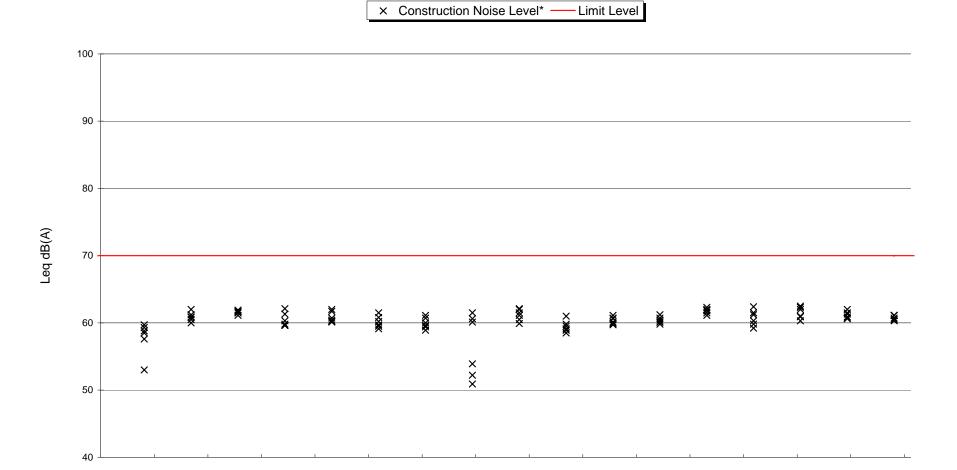
Night-time Leq₅ (Construction Noise Level) at HKIVE Fok Ying Tung Hall of Residence (NSR1)





^{*} Construction Noise Level (CNL) = Measured Noise Level - Corresponding Baseline Level Please refer to Section 6.2 and Appendix M2 for more details.

Public Holiday Leq₅ (Construction Noise Level) at HKIVE Fok Ying Tung Hall of Residence (NSR1)

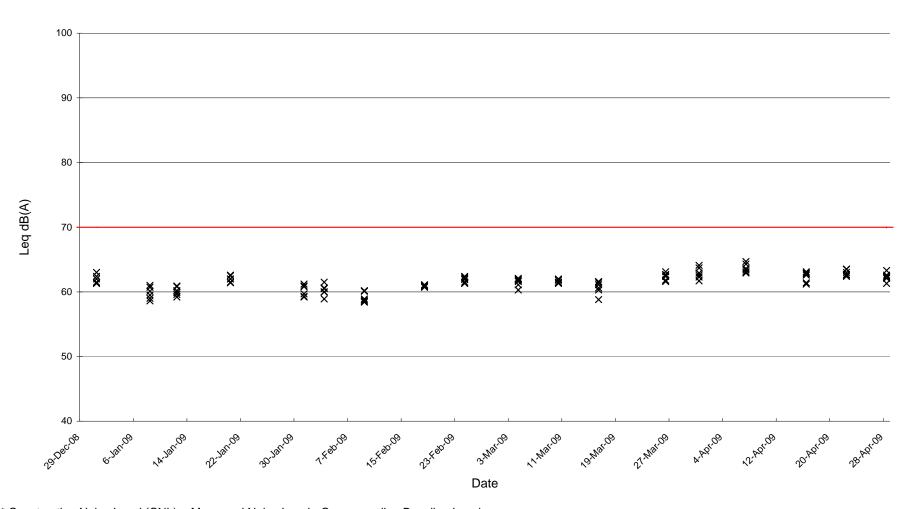


Date

^{*} Construction Noise Level (CNL) = Measured Noise Level - Corresponding Baseline Level Please refer to Section 6.2 and Appendix M2 for more details.

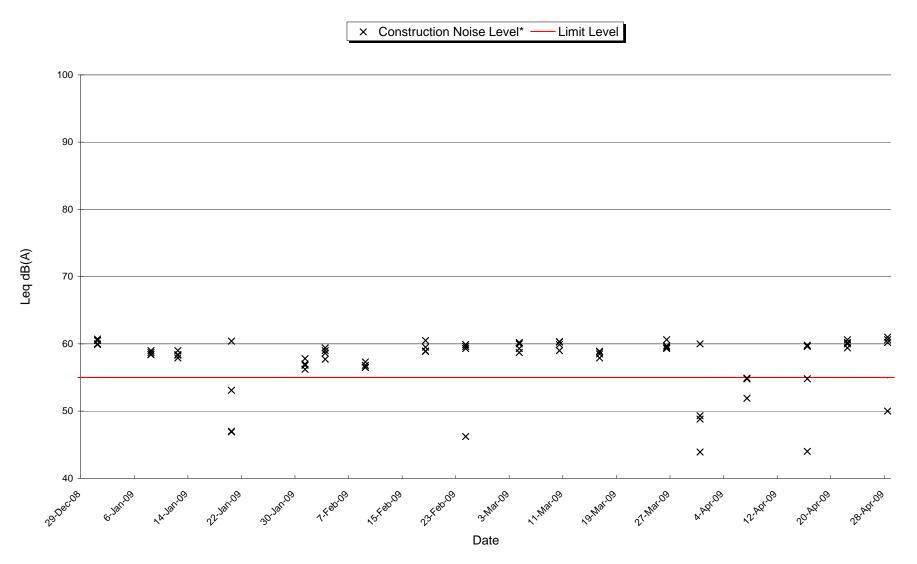
Evening-time Leq₅ (Construction Noise Level) at HKIVE 5th Floor Block D of the Main Education Building (NSR2)

× Construction Noise Level* — Limit Level



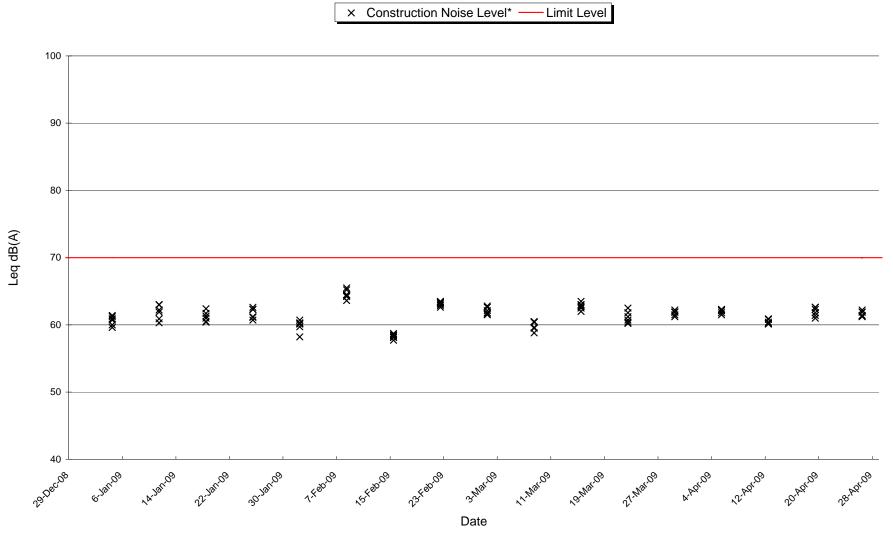
 $^{^{*}}$ Construction Noise Level (CNL) = Measured Noise Level - Corresponding Baseline Level Please refer to Section 6.2 and Appendix M2 for more details.

Night-time Leq₅ (Construction Noise Level) at HKIVE 5th Floor Block D of the Main Education Building (NSR2)



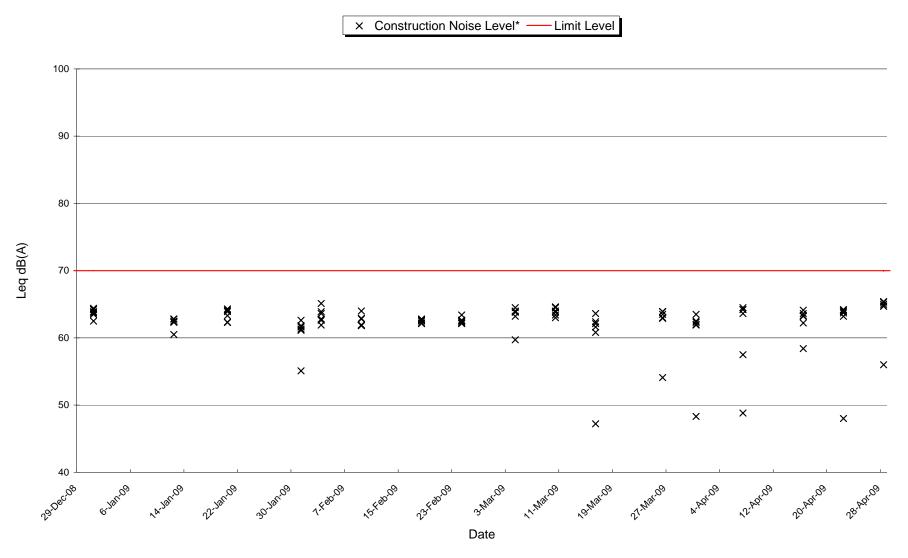
^{*} Construction Noise Level (CNL) = Measured Noise Level - Corresponding Baseline Level Please refer to Section 6.2 and Appendix M2 for more details.

Public Holiday Leq₅ (Construction Noise Level) at HKIVE 5th Floor Block D of Main Education Building (NSR2)



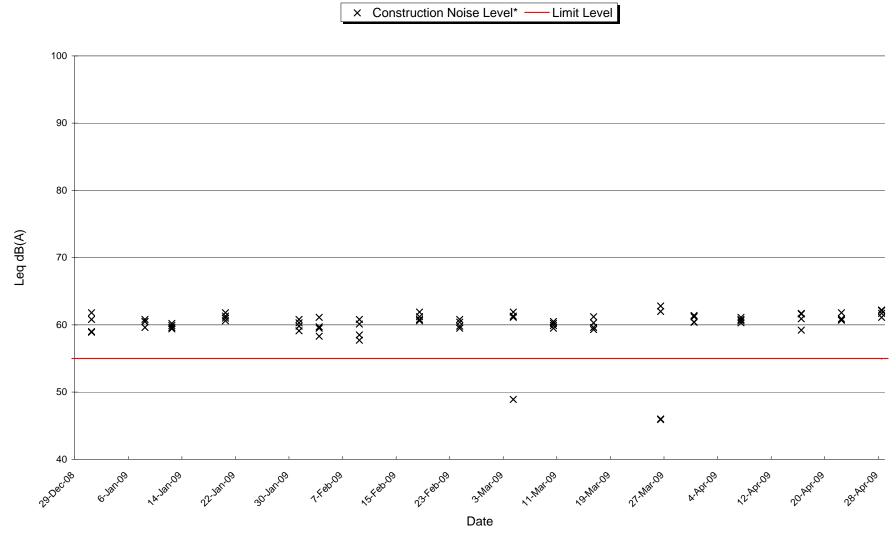
^{*} Construction Noise Level (CNL) = Measured Noise Level - Corresponding Baseline Level Please refer to Section 6.2 and Appendix M2 for more details.

Evening-time Leq₅ (Construction Noise Level) at Mayfair Gardens 1st floor adjacent to swimming pool (NSR3)



^{*} Construction Noise Level (CNL) = Measured Noise Level - Corresponding Baseline Level Please refer to Section 6.2 and Appendix M2 for more details.

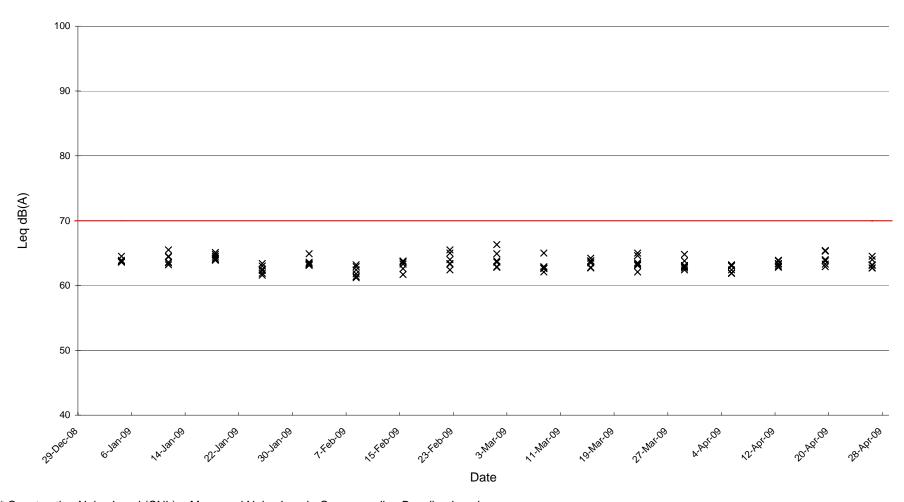
Night-time Leq₅ (Construction Noise Level) at Mayfair Gardens 1st floor adjacent to swimming pool (NSR3)



^{*} Construction Noise Level (CNL) = Measured Noise Level - Corresponding Baseline Level Please refer to Section 6.2 and Appendix M2 for more details.

Public Holiday Leq₅ (Construction Noise Level) at Mayfair Gardens 1st floor adjacent to swimming pool (NSR3)

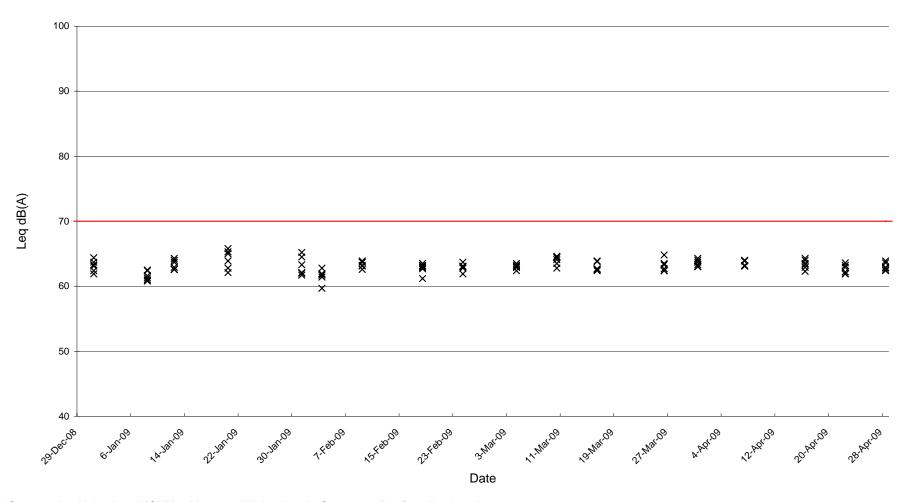
× Construction Noise Level* —— Limit Level



 $^{^{*}}$ Construction Noise Level (CNL) = Measured Noise Level - Corresponding Baseline Level Please refer to Section 6.2 and Appendix M2 for more details.

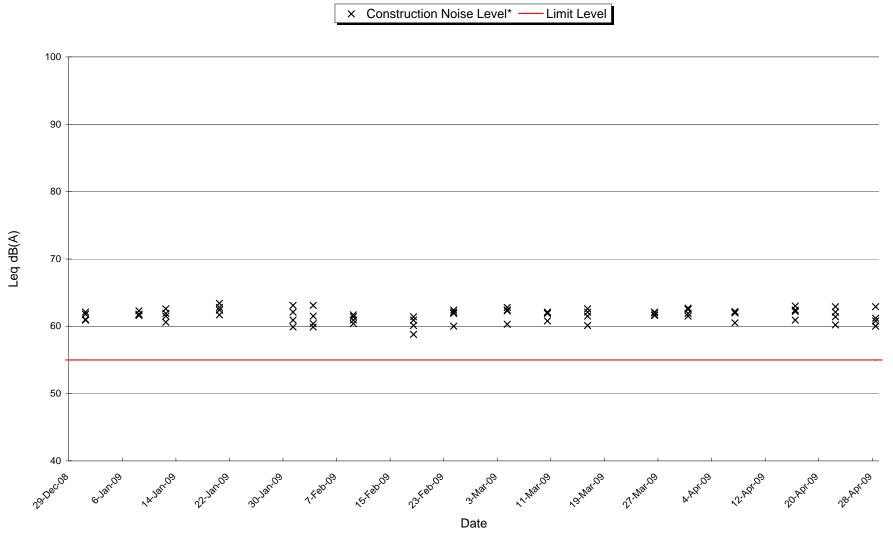
Evening-time Leq₅ (Construction Noise Level) at Cheung Ching Estate at the Roof of Ching Yung House (NSR4)

× Construction Noise Level* —— Limit Level



^{*} Construction Noise Level (CNL) = Measured Noise Level - Corresponding Baseline Level Please refer to Section 6.2 and Appendix M2 for more details.

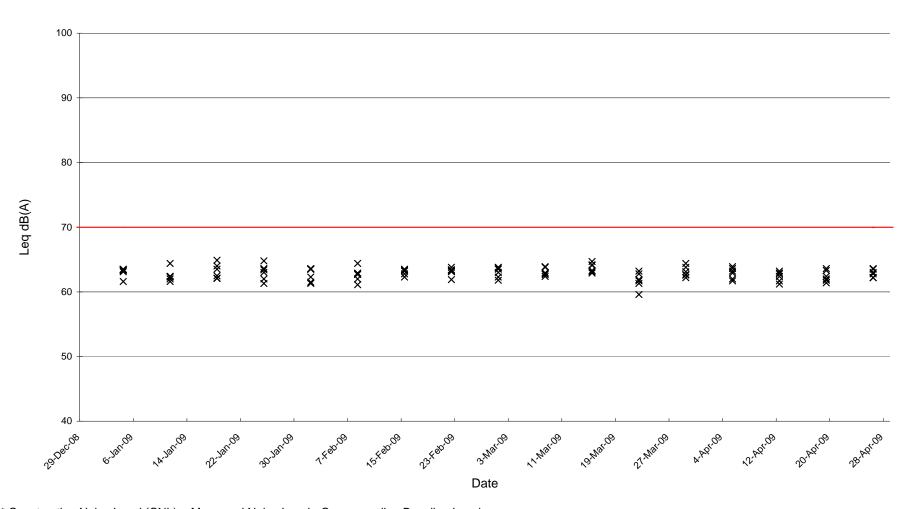
Night-time Leq₅ (Construction Noise Level) at Cheung Ching Estate at the Roof of Ching Yung House (NSR4)



^{*} Construction Noise Level (CNL) = Measured Noise Level - Corresponding Baseline Level Please refer to Section 6.2 and Appendix M2 for more details.

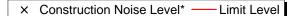
Public Holiday Leq₅ (Construction Noise Level) at Cheung Ching Estate at the Roof of Ching Yung House (NSR4)

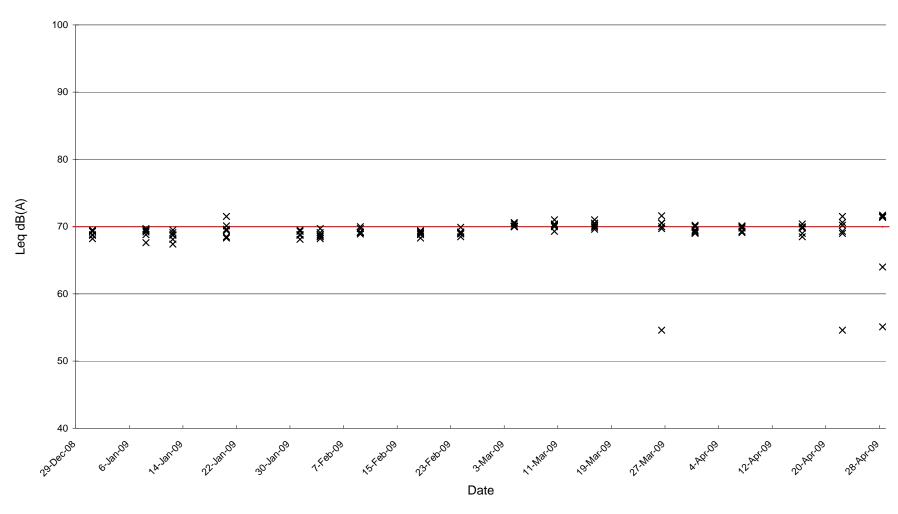
× Construction Noise Level* ——Limit Level



 $^{^{*}}$ Construction Noise Level (CNL) = Measured Noise Level - Corresponding Baseline Level Please refer to Section 6.2 and Appendix M2 for more details.

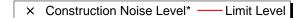
Evening-time Leq₅ (Construction Noise Level) at Stonecutters Base (NSR5)

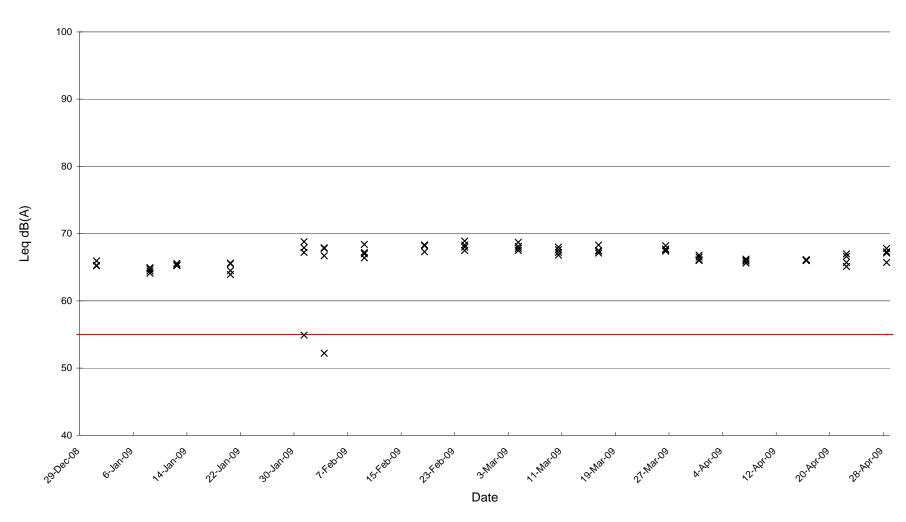




^{*} Construction Noise Level (CNL) = Measured Noise Level - Corresponding Baseline Level Please refer to Section 6.2 and Appendix M2 for more details.

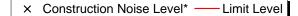
Night-time Leq₅ (Construction Noise Level) at Stonecutters Base (NSR5)

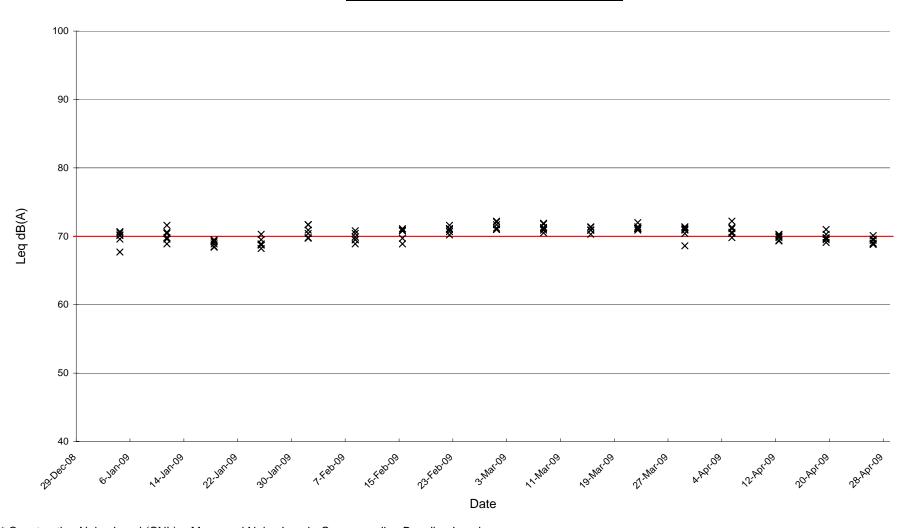




^{*} Construction Noise Level (CNL) = Measured Noise Level - Corresponding Baseline Level Please refer to Section 6.2 and Appendix M2 for more details.

Public Holiday Leq₅ (Construction Noise Level) at Stonecutters Base (NSR5)





 $^{^{*}}$ Construction Noise Level (CNL) = Measured Noise Level - Corresponding Baseline Level Please refer to Section 6.2 and Appendix M2 for more details.

Appendix O1 Environmental Complaint Log Book

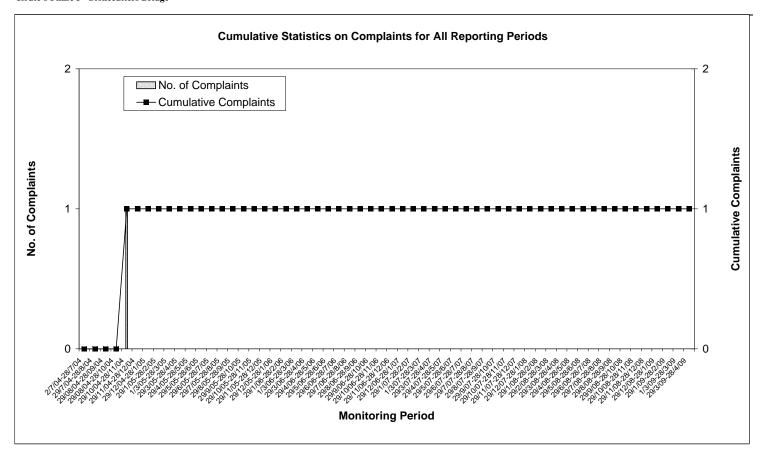
Case No	Date of Received		Complainant's information	Detail's of complaint	Recommended Mitigation Measures	Follow-up Action	Status/Remarks
EC01	25-Nov-04 by e-mail from HyD	mail and	The complainant claimed to be a resident of Rambler Crest, east Tsing Yi.	The complainant mainly enquired about why impact monitoring at Rambler Crest is not being carried out as part of the routine EM&A Programme currently being implemented for the Route 8 Stonecutter's Bridge Project during the construction stage. In addition, the complainant also enquired why monitoring at the 4 sensitive receivers are not being done for the same Project.		Both HyD and EPD have formally replied to the complainant by e-mail on 10 December 2004. Further enquiries were made by the complainant and a joint meeting was held between HyD, EPD and the ET and a second formal reply was issued by HyD on 23 December 2004 via e-mail. No further enquiries were received since and therefore the complaint is considered closed.	Closed.

Appendix O2

Cumulative Statistics for Environmental Complaint

Appendix O2 - Cumulative Statistics of Complaints

Route 8 Phase 3 - Stonecutters Bridge



Appendix P

Tentative Environmental Monitoring Schedule for the Next Three Months

Tentative Environmental Monitoring Schedule between 29 April 2009 and 28 May 2009

Sunday		Monday		Tuesday		Wednesday		Thursday		Friday		Saturday	
						24hrs-TSP	29-Apr	1hr-TSP	30-Apr		1-May		2-May
Noise _{P.H.}	3-May	Noise Noise _{evening} Noise _{night}	4-May	24hrs-TSP	5-May	1hr-TSP	6-May		7-May		8-May		9-May
Noise _{P.H.}	10-May	24hrs-TSP	11-May	1hr-TSP		Noise Noise _{evening} Noise _{night}	13-May		14-May		15-May	24hrs-TSP	16-May
Noise _{P.H.}	17-May	1hr-TSP	18-May		19-May			Noise Noise _{evening} Noise _{night}	21-May	24hrs-TSP	22-May	1hr-TSP	23-May
Noise _{P.H.}	24-May			Noise Noise _{evening} Noise _{night}	26-May	24hrs-TSP	27-May		28-May				

1hr-TSP 3 x 1 hour TSP monitoring at ASR1 to ASR5 during 0900~1800.

24hrs-TSP 24 hours TSP monitoring at ASR1 to ASR5

Noise Leq30 measurement at NSR1 to NSR5 during 0700~1900.

Noise_{Evening} 6 x Leq5 will be measured at NSR1 to NSR5 during 1900~2300 (if construction activities are undertaken).

Noise_{Night} 4 x Leq5 will be measured at NSR1 to NSR5 during 2300~0700 next day (if construction activities are undertaken).

Noise_{P.H.} 6 x Leq5 will be measured at NSR1 to NSR5 during 0700~1900 (if construction activities are undertaken).

Tentative Environmental Monitoring Schedule between 29 May 2009 and 28 June 2009

Sunday		Monday		Tuesday		Wednesday		Thursday		Friday		Saturday	
										1hr-TSP	29-May		30-May
Noise _{P.H.}		Noise Noise _{evening} Noise _{night}	1-Jun	24hrs-TSP	2-Jun	1hr-TSP	3-Jun		4-Jun		5-Jun		6-Jun
Noise _{P.H.}	7-Jun	24hrs-TSP	8-Jun	1hr-TSP	9-Jun	Noise Noise _{evening} Noise _{night}	10-Jun		11-Jun		12-Jun	24hrs-TSP	13-Jun
Noise _{P.H.}	14-Jun	1hr-TSP		Noise Noise _{evening} Noise _{night}	16-Jun		17-Jun		18-Jun	24hrs-TSP	19-Jun	1hr-TSP	20-Jun
Noise _{P.H.}	21-Jun		22-Jun		23-Jun	Noise Noise _{evening} Noise _{night}	24-Jun	24hrs-TSP	25-Jun	1hr-TSP	26-Jun		27-Jun
Noise _{P.H.}	28-Jun												

1hr-TSP 3 x 1 hour TSP monitoring at ASR1 to ASR5 during 0900~1800.

24hrs-TSP 24 hours TSP monitoring at ASR1 to ASR5

Noise Leg30 measurement at NSR1 to NSR5 during 0700~1900.

Noise_{Evening} 6 x Leq5 will be measured at NSR1 to NSR5 during 1900~2300 (if construction activities are undertaken).

Noise_{Night} 4 x Leq5 will be measured at NSR1 to NSR5 during 2300~0700 next day (if construction activities are undertaken).

Noise_{P.H.} 6 x Leq5 will be measured at NSR1 to NSR5 during 0700~1900 (if construction activities are undertaken).

Tentative Environmental Monitoring Schedule between 29 June 2009 and 28 July 2009

Sunday		Monday		Tuesday		Wednesday		Thursday		Friday		Saturday	
		Noise Noise _{evening} Noise _{night}	29-Jun	24hrs-TSP	30-Jun		1-Jul	1hr-TSP	2-Jul		3-Jul		4-Jul
Noise _{P.H.}	5-Jul	24hrs-TSP	6-Jul	1hr-TSP	7-Jul	Noise Noise _{evening} Noise _{night}	8-Jul		9-Jul		10-Jul	24hrs-TSP	11-Jul
Noise _{P.H.}	12-Jul	1hr-TSP		Noise Noise _{evening} Noise _{night}	14-Jul		15-Jul		16-Jul	24hrs-TSP	17-Jul	1hr-TSP	18-Jul
Noise _{P.H.}	19-Jul		20-Jul			Noise Noise _{evening} Noise _{night}	22-Jul	24hrs-TSP	23-Jul	1hr-TSP	24-Jul		25-Jul
Noise _{P.H.}		Noise Noise _{evening} Noise _{night}	27-Jul		28-Jul								

1hr-TSP 3 x 1 hour TSP monitoring at ASR1 to ASR5 during 0900~1800.

24hrs-TSP 24 hours TSP monitoring at ASR1 to ASR5

Noise Leq30 measurement at NSR1 to NSR5 during 0700~1900.

Noise_{Evening} 6 x Leq5 will be measured at NSR1 to NSR5 during 1900~2300 (if construction activities are undertaken).

Noise_{Night} 4 x Leq5 will be measured at NSR1 to NSR5 during 2300~0700 next day (if construction activities are undertaken).

Noise_{P.H.} 6 x Leq5 will be measured at NSR1 to NSR5 during 0700~1900 (if construction activities are undertaken).

Appendix Q

Photographic Records of Implemented Measures

Appendix Q Photographical Records of Implemented Measures



Photo 01 (P3-SA3G)

Appendix R

Summary of Environmental Licensing, Notification and Permit Status

Route 8 Contract No. H/2002/26 – Stonecutters Bridge Summary of Licensing, Notification and Permit Status

Item	Nature of Permits/License	Date of Application	Date of issue of Permits/License	Permit/License No.	Remark
1	Environmental Permit	6/9/2002 (HyD, VEP-073/2002)	26/09/2002	EP-085/2000/E	Valid
2	Registration as a Waste Producer	5/5/2004 (M45/100/000773)	06/08/2004 (EP760/350/0089331)	WPN 5213-350- M2640-01	Valid
3	Effluent Discharge License	6/9/2004 (M45/100/001766)	20/09/2004 (EP760/269/009124I)	EP760/269/009124I (until 30/09/2009)	For Eastern Tower Site Works Area
		9/9/2004 (M45/400/002475)	21/12/2004 (EP760/350/008933I)	EP760/350/008933I (until 31/12/2009)	For Western Tower Site Works Area
4	Construction Noise Permit	16/09/2008 (received by EPD)	03/10/2008 (EP731/N31/RW0468-08)	GW-RW0468-08 (until 20/04/2009) (superseded)	For Western Tower Site: 00:00 to 24:00 (General Holiday, including Sunday), 00:00 to 07:00 and 19:00 to 24:00 (Any day not being a general holiday)
		16/09/2008 (received by EPD)	03/10/2008 (EP731/N31/RW0470-08)	GW-RW0470-08 (until 20/04/2009) (superseded)	For Western Tower Site: 00:00 to 24:00 (General Holiday, including Sunday), 00:00 to 07:00 and 19:00 to 24:00 (Any day not being a general holiday)
		19/11/2008 (received by EPD)	20/12/2008 (EP731/N31/RW0594-08)	GW-RW0594-08 (until 19/06/2009)	For Eastern Tower Site: 00:00 to 24:00 (General Holiday, including Sunday), 00:00 to 07:00 and 19:00 to 24:00 (Any day not being a general holiday)
		02/01/2009 (received by EPD)	15/01/2009 (EP731/N31/RW0009-09)	GW-RW0009-09 (until 14/07/2009)	For Eastern Tower Site: 00:00 to 24:00 (General Holiday, including Sunday), 00:00 to 07:00 and 19:00 to 24:00 (Any day not being a general holiday)
		22/01/2009 (received by EPD)	12/02/2009 (EP731/N31/RW0055-09)	GW-RW0055-09 (until 11/08/2009)	For Western Site area P3-SA2, SA2A: 00:00 to 24:00 (General Holiday, including Sunday), 00:00 to 07:00 and 19:00 to 24:00 (Any day not being a general holiday)
		24/03/2009 (received by EPD)	21/04/2009 (EP731/N31/RW0115-09)	GW-RW0115-09 (until 20/10/2009)	For Western Tower Site: 00:00 to 24:00 (General Holiday, including Sunday), 00:00 to 07:00 and 19:00 to 24:00 (Any day not being a general holiday)
		09/04/09 (received by EPD)	30/04/2009 (EP731/N31/RW0132-09)	GW-RW0132-09 (until 29/10/2009)	For Western Tower Site: 00:00 to 24:00 (General Holiday, including Sunday), 00:00 to 07:00 and 19:00 to 24:00 (Any day not being a general holiday)