Route 8 (previously known as Route 9) between Cheung Sha Wan & Sha Tin

Contract No. HY/2003/10 - Environmental Team for Lai Chi Kok Viaduct and Eagle's Nest Tunnel

Monthly EM&A Report
Part I – Lai Chi Kok Viaduct (Version 2.0)

October 2008

Approved By

(Environmental Team Leader)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

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ABBREVIATION AND ACRONYM

AL Levels Action and Limit Levels

CEDD Civil Engineering and Development Department

E / ER Engineer/Engineer's Representative

EIA Environmental Impact Assessment

EM&A Environmental Monitoring and Audit

EMIS Environmental Mitigation Implementation Schedule

EP Environmental Permit

EPD Environmental Protection Department

ET Environmental Team
HVS High Volume Sampler

HyD Highways Department

IEC Independent Environmental Checker

NOE Notification of Exceedancee

QA/QC Quality Assurance / Quality Control

RE Resident Engineer

RH Relative Humidity

SLM Sound Level Meter

TSP Total Suspended Particulates

EXECUTIVE SUMMARY

Introduction

This is the 59th monthly Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for the "Route 8 (previously known as Route 9) between Cheung Sha Wan & Sha Tin, Lai Chi Kok Viaduct & Eagle's Nest Tunnel". This report documents the findings of EM&A Works conducted in October 2008 for Contract No. HY/2003/01, Lai Chi Kok Viaduct (the Project).

The major site activities for civil works undertaken in the reporting month included:

- Slope upgrading works for Feature No. 11NW-A/FR 54 & A/FR55;
- Planting work at Nob Hill (underneath LW Overpass);
- Reinstatement of Rest Garden at Castle Peak Road; and
- Installation of type II railing at Kom Tsun Street, Butterfly Valley Road, Cheung Hang Road & Lai Po Road.

The major site activities for Traffic Control and Surveillance System (TCSS) works undertaken in the reporting month included:

• Nil

Environmental Monitoring and Audit Works

Environmental monitoring and audit works for the Project was performed regularly as stipulated in the updated EM&A Manual and the results were checked and reviewed. Site audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.

• Summary of the events and action taken in the reporting month is tabulated in **Table I**.

Table I Summary Table for Events Recorded in the Reporting Month

Danamatan	No. of 1	Events	No. of Events	Action Taken
Parameter	Action Level	Limit Level	Due to the Project	Action Taken
1-hr TSP	0	0	0	N/A
24-hr TSP	0	0	0	N/A
Noise	0	0	0	N/A

Environmental Licenses and Permits

Licenses/Permits granted to the Project include the Environmental Permit (EP) for the Project, the Water Discharge Licenses (WDLs) and the Construction Noise Permits (CNPs). No new CNPs were issued to the Project by EPD in the reporting month.

Key Information in the Reporting Month

Summary of key information in this reporting month is tabulated in **Table II**.

 Table II
 Summary Table for Key Information in the Reporting Month

Event	Event Details		Action Taken	Chatas	Remark
Event	Number	Nature	Action Taken	Status	Kemark
Complaint received	0	0	N/A	N/A	
Changes to the assumptions and key construction / operation activities recorded	0		N/A	N/A	
Status of submissions under EP	0		N/A	N/A	
Notifications of any summons & prosecutions received	0		N/A	N/A	

Future Key Issues:

Major site activities for civil works in the coming months include:

- Slope upgrading works for Feature No. 11NW-A/FR 54 & A/FR55;
- Planting work at Nob Hill (underneath LW Overpass); and
- Reinstatement of Rest Garden at Castle Peak Road.

Major site activities for TCSS works in the coming month include:

• Nil.

The anticipated environmental issues will be mainly on dust impact from slope upgrading works and noise nuisance from reinstatement of Rest Garden at Castle Peak Road.

1. INTRODUCTION

Background

- 1.1 Route 9 (Kowloon Section) (R9K) (hereinafter call the R9K-Project) forms part of the Route 9 between Cheung Sha Wan and Sha Tin (R9-CSWST) project, which will be a new expressway connecting West Kowloon and Sha Tin. It will be the fourth external link between Sha Tin and Kowloon and will form an important link between the northeast New Territories and the west Kowloon, Lantau Island and the western New Territories. R9K is being managed and implemented by the Highways Department (HyD).
- 1.2 The engineering design of R9K is covered under Agreement No. CE 50/98 "Route 9 between Cheung Sha Wan and Sha Tin Design Construction Assignment". The main consultant engaged under Agreement No. CE 50/98 is Maunsell Hyder Joint Venture (MHJV), who will act as the Engineer for the construction contracts. The works of R9K mainly comprise a 1.4km dual 3-lane Lai Chi Kok Viaduct from Lai Wan Interchange to Butterfly Valley; 0.5 km of dual 3-lane at-grade carriageway linking to the 2.1 km dual 3-lane twin-bore Eagle's Nest Tunnel with associated portal buildings; a toll plaza with an administration building located with the Sha Tin valley woodland; a ventilation building and an adit; associated noise barriers, noise enclosures, drainage, slope and landscape works; and electrical and mechanical works for the whole R9-CSWST. The remainder of the R9-CSWST forms the Sha Tin Section (R9S) of the project and is being managed and implemented separately by the Civil Engineering and Development Department (CEDD).
- 1.3 The R9-CSWST project is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). An environmental impact assessment (EIA) report has been prepared in 1998 for the R9-CSWST project (1998 R9 EIA) to consider the key issues of noise, air quality, water quality, ecological, construction waste, landscape and visual, land use and cultural impacts, and identify possible mitigation measures.
- 1.4 An Updated Final EIA report was subsequently completed in September 1999 for the R9-CSWST project (1999 R9 EIA), to cater for some changes in R9K portion as mentioned in paragraph 1 in the report. The 1999 R9 EIA was endorsed by Environmental Protection Department (EPD) in November 1999. The 1998 R9 EIA and the 1999 R9 EIA (R9 EIA Reports) were included in the EIA register under the EIAO as report no. EIA-135/BC and AEIAR-022/1999 respectively. Environmental Monitoring and Audit (EM&A) Manuals for each of the R9 EIA Reports (EM&A Manuals) were also included as part of the EIA reports in the register.
- 1.5 Subsequent to the endorsement of the R9 EIA Reports by EPD in November 1999, the project programme was deferred to start in 2002/2003 for completion by 2006/07. The implementation of the project was then separated into the R9S and R9K portion. An Environmental Permit (EP) No. EP-103/2001 was issued on 17 September 2001 for R9K to the HyD as Permit Holder and a varied EP No. EP-103/2001/D was subsequently issued on 19 March 2008.

- 1.6 The major construction activities of two civil contracts of the R9K project, Contract No. HY/2003/01 entitled "Route 9 Lai Chi Kok Viaduct" and Contract No. HY/2003/02 entitled "Route 9 Eagle's Nest Tunnel and Associated Works", were commenced in 15th December 2003 for completion in April 2007.
- 1.7 "Route 9" was recently re-titled as "Route 8 (previously known as Route 9)". Cinotech Consultants Limited (Cinotech) was commissioned by HyD to undertake the Environmental Monitoring and Audit works for "Route 8 between Cheung Sha Wan and Sha Tin Environmental Team (ET) for Lai Chi Kok Viaduct and Eagle's Nest Tunnel (Contract No. HY/2003/10)". Dr. Priscilla CHOY of Cinotech Consultants Ltd. was appointed as the ET Leader under Condition 2.2 of the EP. Mr. Damien Ku of CH2M HILL Hong Kong Ltd. was appointed as the IEC under Condition 2.1 of the EP. This is the 59th monthly EM&A report summarizing the EM&A works for the Project in October 2008.

Project Organizations

- 1.8 Different parties with different levels of involvement in the project organization include:
 - Project Proponent Major Works Project Management Office (MWPMO) of Highways Department (HyD)
 - Engineer (E) / Engineer's Representative (ER) Maunsell-Hyder Joint Venture
 - Environmental Team (ET) Cinotech Consultants Limited
 - Independent Environmental Checker (IEC) CH2M HILL Hong Kong Limited
 - Contractor Acciona Infraestructuras S.A.
 - Engineer's Representative for TCSS works Ove Arup & Partners Hong Hong Limited
 - Contractor for TCSS works Delcan-Imtech-Gtech Joint Venture
- 1.9 The responsibilities of respective parties are detailed in Section 1.8.3 of the EM&A Manual (1999) of the Project.
- 1.10 The key contacts of the Project are shown in **Table 1.1**.

Construction Programme

- 1.11 The site activities for civil works undertaken in the reporting month included:
 - Slope upgrading works for Feature No. 11NW-A/FR 54 & A/FR55;
 - Planting work at Nob Hill (underneath LW Overpass);
 - Reinstatement of Rest Garden at Castle Peak Road; and
 - Installation of type II railing at Kom Tsun Street, Butterfly Valley Road, Cheung Hang Road & Lai Po Road.
- 1.12 The site activities for TCSS works undertaken in the reporting month included:
 - Nil

Table 1.1 Key Project Contacts

Party	Role	Name	Position	Phone No.	Fax No.	
		Mr. Kroc Leung	SE2/R8K	2762 3662		
II-D	Permit Holder	Mr. Esther Yung	E1/R8K	2762 3677	2714 5198	
HyD	Permit Holder	Mr. LC Chung	E2/R8K	2762 3613		
		Mr. George Law	E4/R8K	2762 3675		
	Engineer	Mr. Conrad Ng	Project Manager	2605 6262	2691 2649	
MHJV		Mr. Peter Poon	CRE	2959 0010		
IVITIJ V	Engineer's Representative	Mr. Alan Chan	IOW	9860 8791	2959 0290	
	representative	Mr. Alex Tam	RE	9856 0199		
	Environmental Team	Dr. Priscilla Choy	ET Leader	2151 2089		
Cinotech		Ms. Tammy Lin	Audit Team Leader & Project Coordinator	2151 2092	3107 1388	
		Mr. Henry Leung	Monitoring Team Leader	2151 2087		
СН2М	Independent Environmental Checker	Mr. Damien Ku	Independent Environmental Checker	2872 2921	2507 2293	
CHZM		Mr. Brian Ho	Independent Environmental Checker	6376 3874		
Acciona	Contractor	Mr. William D. Payne	Project Director	2956 3300	2956 3331	
Acciona	Contractor	Mr. Lawrence Kwok	QA/E Manager	2930 3300	2930 3331	
ADIID	Engineer's Representative (TCSS)	Mr. Donald Leung	RE	2436 7489	2426 1002	
ARUP		Mr. Daniel So	ARE	2436 7435	2436 1803	
DIGJV Contractor (TCSS) Ms. Joyce Chan		Quality Manager	2123 0845	2123 0889		
24-hour Er	24-hour Emergency Hotline 2370 9200 -					

Summary of EM&A Requirements

- 1.13 The EM&A programme requires construction phase monitoring for air quality and construction noise, and environmental site audit. The EM&A requirements for each parameter are described in the following sections, including:
 - All monitoring parameters;
 - Action and Limit levels for all environmental parameters;
 - Event Action Plans;
 - Environmental mitigation measures, as recommended in the project EIA study final report; and
 - Environmental requirements in contract documents.
- 1.14 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 4 of this report.
- 1.15 This report presents the environmental monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the required monitoring parameters, namely dust and noise levels and audit works for the Project in the reporting month.

2. AIR QUALITY

Monitoring Requirements

2.1 Monitoring of 1-hour and 24-hour TSP was conducted to monitor the air quality. **Appendix** A shows the established Action/Limit Levels for the environmental monitoring works.

Monitoring Locations

2.2 One designated monitoring station, AM2 was selected for impact dust monitoring for the Project. **Table 2.1** describes the air quality monitoring location, which is also depicted in **Figures 1**.

Table 2.1 Locations for Air Quality Monitoring

Monitoring Station	Description	Location	
AM2	Lai Chi Kok Park Sports Centre	Rooftop	

Monitoring Equipment

2.3 **Table 2.2** summarizes the equipment used for the air quality monitoring. Copies of calibration certificates are attached in **Appendix B**.

Table 2.2 Air Quality Monitoring Equipment

Equipment	Equipment Model and Make	
Calibrator	GMW25; S/N: 1536	1
HVS Sampler	Graseby GMW Model GS2310 High Volume TSP Sampler and associated equipment and shelter	1

Monitoring Parameters, Frequency and Duration

2.4 **Table 2.3** summarizes the monitoring parameters and frequencies of impact dust monitoring for the whole construction period. The air quality monitoring schedule for the reporting period is shown in **Appendix C**.

 Table 2.3
 Impact Dust Monitoring Parameters, Frequency and Duration

Parameters	Frequency
1-hr TSP	Three times / 6 days
24-hr TSP	Once / 6 days

Monitoring Methodology and QA/QC Procedure

Instrumentation

2.5 Graseby GMW Model GS2310 TSP High Volume Sampler (HVS) was employed for 1-hour & 24-hour TSP monitoring. The sampler was composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complied with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50). Moreover, the HVS also met all the requirements in Sections 2.2 to 2.4 of the EM&A Manual (1999).

Operating/Analytical Procedures

- 2.6 Operating/analytical procedures for the operation of HVS were as follows:
 - A horizontal platform was provided with appropriate support to secure the samplers against gusty wind.
 - No two samplers were placed less than 2 meters apart.
 - The distance between the sampler and an obstacle, such as buildings, was at least twice the height that the obstacle protrudes above the sampler.
 - A minimum of 2 meters of separation from walls, parapets and penthouses was required for rooftop samples.
 - A minimum of 2 meters separation from any supporting structure, measured horizontally was required.
 - No furnaces or incineration flues were nearby.
 - Airflow around the sampler was unrestricted.
 - The sampler was more than 20 meters from the drip line.
 - Any wire fence and gate, to protect the sampler, should not cause any obstruction during monitoring.
- 2.7 Prior to the commencement of the dust sampling, the flow rate of the high volume sampler was properly set (between 1.1 m³/min. and 1.4 m³/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.
- 2.8 For TSP sampling, fiberglass filters (G810) were used.
- 2.9 The power supply was checked to ensure the sampler worked properly.
- 2.10 On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.
- 2.11 The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
- 2.12 The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.

- 2.13 The shelter lid was closed and secured with the aluminum strip.
- 2.14 The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
- 2.15 After sampling, the filter was removed and sent to the laboratory for weighing. The elapsed time was also recorded.
- 2.16 Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than ±3°C; the relative humidity (RH) should be < 50% and not vary by more than ±5%. A convenient working RH is 40%.

Maintenance/Calibration

- 2.17 The following maintenance/calibration was required for the HVS:
 - The high volume motors and their accessories were properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking were made to ensure that the equipment and necessary power supply are in good working condition.
 - High volume samplers were calibrated at bi-monthly intervals using GMW-25 Calibration Kit throughout all stages of the air quality monitoring.

Results and Observations

- 2.18 All 1-hr TSP monitoring was conducted as scheduled in this reporting month from 2 October 2008 to 6 October 2008. No Action/Limit Level exceedance for 1-hr TSP was recorded in the reporting month. However, the 1-hr TSP monitoring from 8 October 2008 to 30 October 2008 and all 24-hr TSP monitoring in this reporting month were cancelled due to the suspension of electricity supply of Lai Chi Kok Park Sports Centre (AM2) for internal work of itself.
- 2.19 Wind data monitoring equipment has been installed in Shatin Heights for logging wind speed and wind direction. These wind data for the reporting month is summarized in **Appendix D**.
- 2.20 The monitoring data and graphical presentations of 1-hour and 24-hour TSP monitoring results are shown in **Appendices E** and **F**, respectively.

3. NOISE

Monitoring Requirements

- 3.1 Monitoring and audit of construction noise levels is required to be conducted, in accordance with the EM&A Manual, to ensure that any unacceptable noise impacts could be readily detected and timely and appropriate action be undertaken to rectify the situation.
- 3.2 The construction noise levels shall be measured in terms of the A-weighted equivalent continuous sound pressure level (Leq). Leq (30min) shall be used as the monitoring parameter for the time period between 0700-1900 hours on normal weekdays. For all other time periods, Leq (5min) shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. As supplementary information for data auditing, statistical results such as L₁₀ and L₉₀ shall also be obtained for reference.
- 3.3 Five designated noise monitoring stations, namely NM2, NM4, NM8a, NM8b and NM9 were selected for impact monitoring. **Appendix A** shows the established Action and Limit Levels for the environmental monitoring works.

Monitoring Locations

3.4 Noise monitoring was conducted at five designated monitoring stations as summarized in **Table 3.1**. **Figures 1** show the locations of these stations.

Table 3.1 Noise Monitoring Stations

Stations ⁽¹⁾	Description	Location
NM2	Lai Chi Kok Correctional Institution	Rooftop
NM4	Mei Foo Sun Chuen, Phase 5	Rooftop of Block 9
NM8a Nob Hill		M/F of Car Park
NM8b Nob Hill		3/F of Car Park
NM9	Hoi Lai Estate	G/F of Hoi Fai House

⁽¹⁾ The Lai Chi Kok Hospital (NM3) was also found vacated and noise monitoring has been suspended since January 2005, as approved by EPD on 15th March 2005.

3.5 Stations NM8a and NM8b were installed at Nob Hill in May 2004. Station NM8b is located at 3/F of the car park of Nob Hill, which is strongly influenced by traffic noise from Ching Cheung Road. The measurement at this station is for reference purpose, but not for compliance check of construction noise. The measured noise level at Station NM8a, which is located at M/F of car park and closer to the construction site, acts as an indicator of the construction noise. Since the domestic premises are located above 5/F, noise assessment would be performed to assess the level of nuisance resulting from the construction noise at the domestic premises whenever the measured noise level at NM8a exceeds the noise limit level.

- 3.6 The noise monitoring at Lai Chi Kok Correctional Institution (NM2), which was formerly known as Lai Chi Kok Reception Centre, has been resumed since 8th September 2006 after the completion of the renovation works.
- 3.7 A new housing estate, Hoi Lai Estate, became one of the noise sensitive receivers close to the Project site. As recommended by the Regional (West) Office of EPD, noise monitoring at this location (Station NM9) was newly included in the EM&A programme. Approval for the change of EM&A programme was granted by EPD on 30th December 2004.

Monitoring Equipment

3.8 **Table 3.2** summarizes the noise monitoring equipment model being used. Copies of calibration certificates are attached in **Appendix B**.

Table 3.2 Noise Monitoring Equipment

Equipment	Model and Make	Qty.
Integrating Sound Level Meter	B&K Model 2238	5
Calibrator	B&K 4231	2
Wind Speed Anemometer	RS232 Integral Vane Digital Anemometer	1

Monitoring Parameters, Frequency and Duration

3.9 **Table 3.3** summarizes the monitoring parameters, frequency and total duration of monitoring. The noise monitoring schedule is shown in **Appendix C**.

Table 3.3 Noise Monitoring Parameters, Frequency and Duration

Stations	Parameter	Period	Frequency	Measurement
NM2				Façade
NM4	L ₁₀ (30 min.)dB(A)			Façade
NM8a	L ₁₀ (30 min.)dB(A) L ₉₀ (30 min.)dB(A) L _{eq} (30 min.)dB(A)	0700-1900 hrs. on weekdays	Once per week	Façade
NM8b		on weekdays	Week	Façade
NM9				Façade

Monitoring Methodology and QA/QC Procedures

- The Sound Level Meter was generally set on a tripod at a height of 1.2 m above the ground, depending to the actual monitoring condition.
- The battery condition was checked to ensure the correct functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:

frequency weightingtime weighting<li: Fast

time measurement : 30 minutes / 5 minutes

- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
- The wind speed was frequently checked with the portable wind meter.
- 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.
- Noise measurement was paused during periods of high intrusive noise if possible and observation was recorded when intrusive noise was not avoided.
- Noise monitoring was cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s.

Maintenance and Calibration

- 3.10 The microphone head of the sound level meter and calibrator was cleaned with soft cloth regularly.
- 3.11 The meters were sent to the supplier to check and calibrate on a yearly interval.

Results and Observations

- 3.12 Noise monitoring was performed at the five designated locations (NM2, NM4, NM8a, NM8b and NM9) as scheduled in the reporting month.
- 3.13 All the Construction Noise Levels (CNLs) reported in this report, except those collected at Stations NM8a, NM8b and NM9, were adjusted with the corresponding baseline level (i.e. Measured Leq Baseline Leq = Measured CNL), in order to facilitate the interpretation of the noise exceedance.
- 3.14 Noise monitoring results and graphical presentations are shown in **Appendix G**.
- 3.15 No Action/Limit Level exceedance was recorded in the reporting month.
- 3.16 At Stations NM8a and NM8b, the major noise source identified during the monitoring exercises was mainly the road traffic noise.
- 3.17 At Stations NM2, NM4 and NM9, construction noise from the Project and occasionally the traffic noise were identified as the major noise source during monitoring.

4. ENVIRONMENTAL AUDIT

Site Audits

- 4.1 Site audits were carried out by ET on weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in **Appendix I**.
- 4.2 Site audits for Civil contract were conducted on 8th, 15th, 22nd and 29th October 2008. A joint site audit for Civil works was conducted on 15th October 2008 with representatives from IEC, ER, the Contractor and ET.

Review of Environmental Monitoring Procedures

4.3 The monitoring works conducted by the monitoring team were inspected regularly. The following observations have been recorded for the monitoring works:

Air Quality Monitoring

- The monitoring team recorded all observations around the monitoring stations within and outside the construction site.
- The monitoring team recorded the temperature and weather conditions on the monitoring days.

Noise Monitoring

- The monitoring team recorded all observations around the monitoring stations, which might affect the monitoring result.
- Major noise sources were identified and recorded. Other intrusive noise attributing to the result was trimmed off by pausing the monitoring temporarily.

Status of Environmental Licensing and Permitting

4.4 All valid permits/licenses obtained for the Project are summarized in **Table 4.1**. No new CNPs were issued to the Project in the reporting month.

Implementation Status of Environmental Mitigation Measures

4.5 According to the Environmental Permit and the EM&A Manuals, the mitigation measures detailed in the documents are required to be implemented. An updated summary of the EMIS is provided in **Appendix K**.

 Table 4.1
 Summary of Environmental Licensing and Permit Status

Permit No.		Period	D.4.9.	Chatana	
Permit No.	From	To	Details	Status	
Environmental Peri	mit (EP)				
EP-103/2001/C	22/7/05	N/A	Construction and operation of (a) All civil works (including highways, traffic, geotechnical, drainage, structural, architectural and landscaping works) for the Lai Chi Kok Viaduct, the interchange with Ching Cheung Road, the main road within Butterfly Valley and the Eagle's Nest Tunnel; (b) All E&M works (including ventilation, Traffic Control & Surveillance System (TCSS), toll collection system and lighting) for the whole Route 9 between Cheung Sha Wan and Sha Tin; © The permanent slope works above the northern portal of the Eagle's Nest Tunnel; (d) The architectural works (including fitting out and furnishings) of the portal buildings of the Sha Tin Heights Tunnel.	Valid	
Registration of Che	mical Wast	e Producer			
WPN 5213-261- N2413-04	17/11/03	N/A	N/A	Valid	
Water Discharge Li	sence	I.			
EP482/260/251/1	05/12/03	31/12/08	Discharge of industrial trade effluent arising from the construction site at Route 9 – Lai Po Road Section of Lai Chi Kok Viaduct (Contract HY/2003/01).		
EP482/260/251/2	15/12/03	31/12/08	Discharge of industrial trade effluent arising from the construction site at Route 9 – Lai Chi Kok Viaduct excluding Lai Po Road Section.		
Construction Noise	Permit (CN	(P)			
GW-RW0279-08	29/06/08	28/12/08	Location: Ching Cheung Road Section between Ching Lai Court to Castle Peak Road, Lai Chi Kok, Kowloon., KLN Time Period: 00:00 - 24:00 (on general holidays including Sundays) and 00:00 - 07:00 & 19:00 - 24:00 (any day not being a general holiday)		
GW-RW0280-08	29/06/08	28/12/08	Location: Castle Peak Road Near Ching Cheung Road Time Period: 00:00 - 24:00 (on general holidays including Sundays) and 00:00 - 07:00 & 19:00 - 24:00 (any day not being a general holiday)	Valid	

4.6 During site inspections in the reporting month, no non-conformance was identified. The observations and recommendations are summarized in **Table 4.2** and **Table 4.3**.

Table 4.2 Observations and Recommendations of Site Audits for Civil Works

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality	15 Oct 08	Observation Soil on ground of Rest Garden should be sprayed frequently to prevent dust generation.	The situation was found improved / rectified during the audit on 22 October 2008

Table 4.3 Observations and Recommendations of Site Audits for TCSS

Parameters	Date	Observations and Recommendations	Follow-up
-	-	-	-

4.7 The observations and recommendations arising from pervious month and followed up in the reporting month are summarized in **Table 4.4 and Table 4.5**.

Table 4.4 Observations and Recommendations of Site Audits Followed up for Pervious Month for Civil Works

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality	30 Sept 08	Observation	The situation was found
		Stagnant water was observed accumulate in the	improved / rectified during the
		pits of Rest Garden. The Contractor was	audit on 8 October 2008
		reminded to spray larvicidal Oil to prevent	
		mosquito breeding.	

Table 4.5 Observations and Recommendations of Site Audits Followed up for Pervious Month for TCSS

Parameters	Date	Observations and Recommendations	Follow-up
-	-	•	-

Summary of Exceedance

1-hr and 24-hr TSP Monitoring

4.8 No Action/Limit Level exceedance for 1-hr TSP was recorded in the reporting month. However, the 1-hr TSP monitoring from 8 October 2008 to 30 October 2008 and all 24-hr TSP monitoring in this reporting month were cancelled due to the suspension of electricity supply of Lai Chi Kok Park Sports Centre (AM2) for internal work of itself.

Construction Noise Monitoring

4.9 No Action/Limit Level exceedance was recorded in the reporting month.

Implementation Status of Event Action Plans

4.10 The Event Action Plans for air quality and construction noise are presented in **Appendix J**.

Summary of Complaint and Prosecution

- 4.11 No public complaints were received in the reporting month.
- 4.12 There were 45 environmental complaints referred to the ET and 1 prosecution received since the commencement of the Project. The Complaint Log is attached in **Appendix M**.

5. FUTURE KEY ISSUES

Key Issues for the Coming Month

- 5.1 Key issues to be considered in the coming months include:
 - Construction noise from reinstatement of Rest Garden at Castle Peak Road.
 - Dust generation from road works, slope upgrading works or any other dusty materials.

Monitoring Schedule for the Next Month

5.2 The tentative monitoring schedule for the next month is shown in **Appendix C**.

Construction Program for the Next Month

- 5.3 The major construction activities for civil works in the coming months include:
 - Slope upgrading works for Feature No. 11NW-A/FR 54 & A/FR55;
 - Planting work at Nob Hill (underneath LW Overpass); and
 - Reinstatement of Rest Garden at Castle Peak Road.
- 5.4 The tentative construction program for civil works is provided in **Appendix L**.
- 5.5 The major activities for TCSS works in the coming month include:
 - Nil.

6. CONCLUSIONS AND RECOMMENDATIONS

Conclusions

- 6.1 Environmental monitoring works were conducted in the reporting month and all monitoring results were checked and reviewed.
- 6.2 No Action/Limit Level exceedance for 1-hour TSP was recorded in the reporting month. However, the 1-hr TSP monitoring from 8 October 2008 to 30 October 2008 and all 24-hr TSP monitoring in this reporting month were cancelled due to the suspension of electricity supply of Lai Chi Kok Park Sports Centre (AM2) for internal work of itself.
- 6.3 No Action/Limit Level exceedance for noise was recorded in the reporting month.
- 6.4 No public complaint and prosecution were received in the reporting month.

Recommendations

6.5 According to the environmental audit performed in the reporting month, the following recommendations were made:

Water Impact

- To ensure properly maintenance for de-silting facilities
- To review the capacity of de-silting facilities for discharge.
- To avoid stagnant water accumulation on site.

Noise Impact

- To provide temporary noise barriers for noisy activities, such as slope upgrading works for Feature No. 11NW-A/FR 54 & A/FR55.
- To review the works sequence of site activities so as to reduce the number of noisy equipment in concurrent operation.
- To employ quiet powered mechanical equipment if possible.
- To ensure compliance of CNP conditions during restricted-hour works.

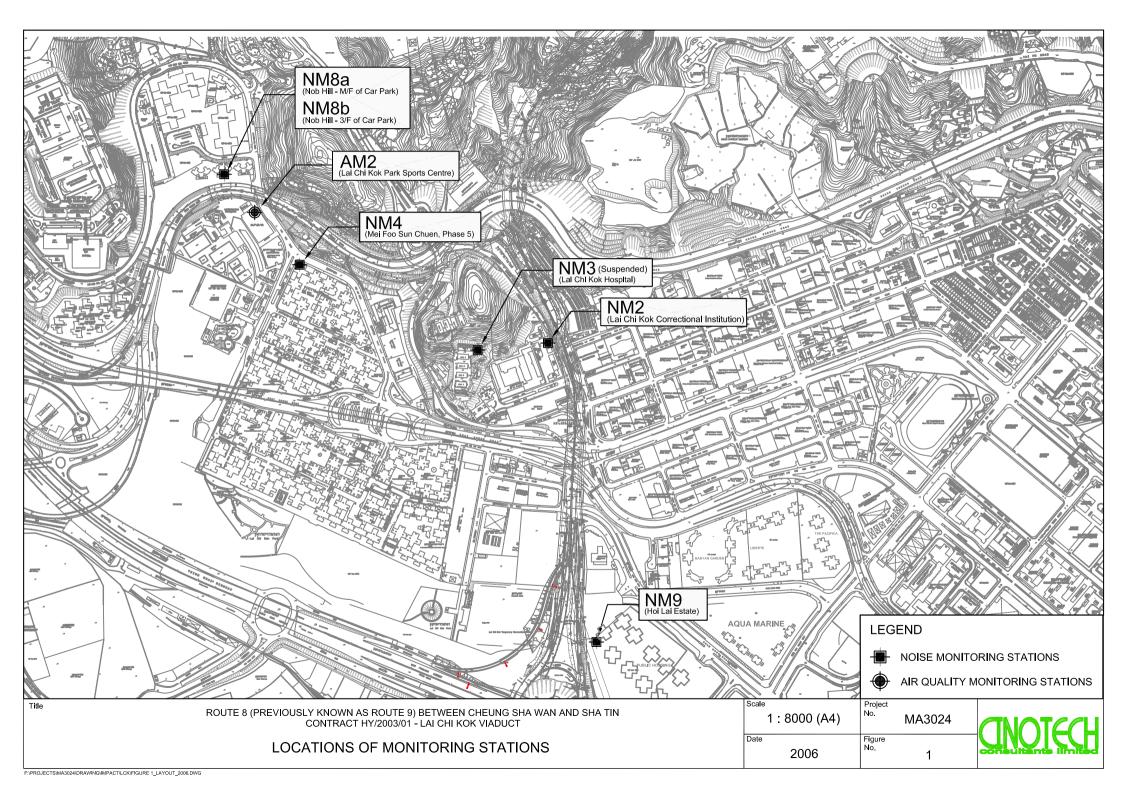
Dust Impact

- To ensure water spray is applied for the dust emissive works, such as slope upgrading, loading and unloading of soil materials.
- To cover soil stockpiles and exposed slope surface by impervious sheets or other means.
- To ensure that all vehicles carrying dusty material are properly covered before leaving the site.

Waste / Chemical Management

- To ensure the performance of sorting of C&D materials at source (during generation);
- To carry out inspection of dump truck at site exit to ensure inert and non-inert C&D materials are properly segregated before removing off site.
- To ensure proper collection and disposal of rubbish generated on site.
- To avoid any discharge or accidental spillage of chemical waste directly from the site.

FIGURES



APPENDIX A ACTION AND LIMIT LEVELS

Appendix A - Action and Limit Levels (LCKV)

1-Hour TSP

Location	Action Level, μg/m ³	Limit Level, μg/m³
AM2	301	500

24-Hour TSP

Location	Action Level, μg/m ³	Limit Level, μg/m³
AM2	177	260

Construction Noise

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

^(*) The Area Sensitivity Rating for the noise monitoring stations (NM4, NM8a, NM8b and NM9) is taken as C, according to Table 1 of EPD's Technical Memorandum on Noise from Construction Work other than Percussive Piling.

APPENDIX B COPIES OF CALIBRATION CERTIFCATES

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



File No. MA3024/20/0031 WK Station Lai Chi Kok Sport Centre (AM2) Operator: Next Due Date: 1-Nov-08 Date: 2-Sep-08 Equipment No.: A-01-20 Serial No. 0818 **Ambient Condition** 760.7 Temperature, Ta (K) 300.4 Pressure, Pa (mmHg) Orifice Transfer Standard Information 0.0575 0.0395 Intercept, be Equipment No.: A-04-06 Slope, mc me x Qstd + be = $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ Last Calibration Date: 10-Mar-08 Qstd = $\{ [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} -bc \} / mc$ Next Calibration Date: 9-Mar-09 Calibration of TSP Sampler HVS Orfice Calibration $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2} Y$ ΔH (orifice), Qstd (CFM) ΔW Point $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ in. of water X - axis (HVS), in. of oil axis 1 11.4 3.36 57.82 8.0 2.82 10.0 3.15 54.11 7.3 2.69 2 2.18 7.2 2.67 45.81 4.8 1.81 4 5.3 2.29 39.21 3.3 29.33 1.37 3.0 1.73 By Linear Regression of Y on X Intercept, bw -0.1987 Slope , mw = ______ 0.0525 Correlation coefficient* = *If Correlation Coefficient < 0.990, check and recalibrate. Set Point Calculation From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to mw x Qstd + bw = $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Therefore, Set Point; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ Remarks:



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AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - M Operator		8 Rootsmeter Orifice I.		833640 0999	Ta (K) - Pa (mm)	295 - 746.76
PLATE OR	VOLUME START	VOLUME STOP	DIFF VOLUME	DIFF	METER DIFF	ORFICE DIFF H20
Run #	(m3)	(m3)	(m3)	(min)	(mm)	(in.)
1	NA	NA	1.00	1.3890	3.2	2.00
2	NA	NA	1.00	0.9850	6.3	4.00
3	NA	NA	1.00	0.8810	7.8	5.00
4	NA	NA	1.00	0.8410	8.6	5.50
5	NA	ДИ	1.00	0.6950	12.5	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9917 0.9876 0.9854 0.9844 0.9792	0.7139 1.0026 1.1185 1.1706 1.4090	1.4113 1.9959 2.2315 2.3405 2.8227		0.9957 0.9916 0.9894 0.9884 0.9832	0.7168 1.0067 1.1231 1.1753 1.4147	0.8874 1.2549 1.4030 1.4715 1.7747
Ostd slo intercep coeffici y axis =	t (b) = ent (r) =	2.03154 -0.03970 0.99999	[a]	Qa slop intercep coeffici y axis =	t (b) =	1.27212 -0.02496 0.99999

CALCULATIONS

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

Qstd = Vstd/Time .

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

Qa = Va/Time

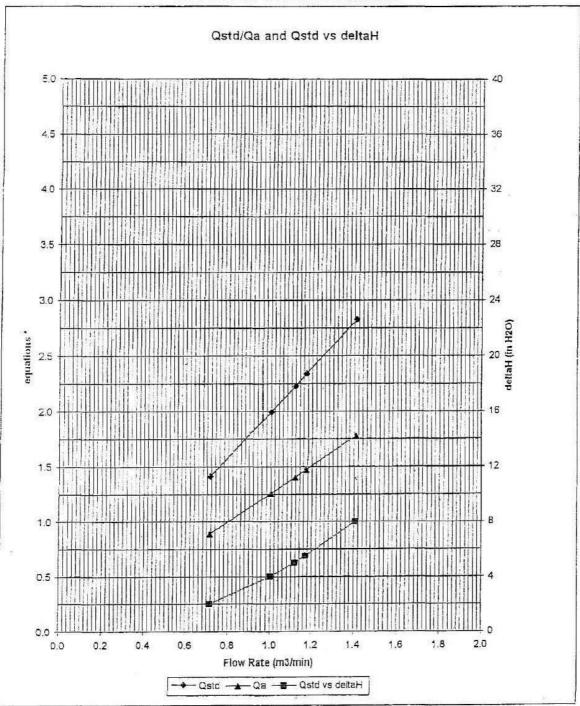
For subsequent flow rate calculations:

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



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AIR POLLUTION MONITORING EQUIPMENT



* y-axis equations:

Qstd series:

$$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$$

Qa series:

$$\sqrt{(\Delta H (Ta / Pa))}$$



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TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.:	C/07/80502
Date of Issue:	2008-05-03
Date Received:	2008-05-02
Date Tested:	2008-05-02
Date Completed:	2008-05-03
Next Due Date:	2009-05-02

ATTN:

Mr. Henry Leung

Page:

1 of 1

Certificate of Calibration

Item for calibration:

Description

: RS232 Integral Vane Digital Anemometer

Manufacturer

: AZ Instrument

Model No.

: 451104

Serial No.

: 9020746

Equipment No.

: A-03-01

Test conditions:

Room Temperature

: 21 degree Celsius

Relative Humidity

: 65%

Pressure

: 101.3 kPa

Methodology:

The anemometer has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

	Reference Set Point	Instrument Readings
Measuring Air Velocity, m/s	2.00	2.00
Temperature, °C	21.0	21.0

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE

Laboratory Manager

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TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/N/71213/1
Date of Issue: 2007-12-14
Date Received: 2007-12-13
Date Tested: 2007-12-14
Date Completed: 2007-12-14
Next Due Date: 2008-12-13

ATTN:

Mr. Henry Leung

Page:

1 of 1

Certificate of Calibration

Item for calibration:

Description

: Integrating Sound Level Meter

Manufacturer Model No.

: Brüel & Kjær : B&K 2238

Serial No. Microphone No. : 2337665 : 2289749

Equipment No.

: N-01-01

Test conditions:

Room Temperatre

: 20 degree Celsius

Relative Humidity

: 60%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB	
94	94.0	
114	114.0	191

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE

Senior Chemist



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TEST REPORT

APPLICANT: Cinotech Consultants Limited

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Shatin, NT, Hong Kong

Test Report No.: C/N/71116/1
Date of Issue: 2007-11-16
Date Received: 2007-11-15
Date Tested: 2007-11-15
Date Completed: 2007-11-16
Next Due Date: 2008-11-15

ATTN:

Mr. Henry Leung

Page:

1 of 1

Certificate of Calibration

Item for calibration:

Description

: Integrating Sound Level Meter

Manufacturer Model No. : Brüel & Kjær : B&K 2238

Serial No.

: 2337666

Microphone No. Equipment No.

: 2289750 : N-01-02

Test conditions:

Room Temperatre

: 20 degree Celsius

Relative Humidity

: 59%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:

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PATRICK TSE Senior Chemist

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TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/N/80903-1

Date of Issue: 2008-09-03

Date Received: 2008-09-02 Date Tested: 2008-09-02

Date Tested: 2008-09-02

Date Completed: 2008-09-03

Next Due Date:

2008-09-03

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Mr. Henry Leung

Page:

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Certificate of Calibration

Item for calibration:

Description

: Integrating Sound Level Meter

Manufacturer

: Brüel & Kjær

Model No.

: B&K 2238

Serial No.

: 2359311

Microphone No.

: 2346382

Equipment No.

: N-01-03

Test conditions:

Room Temperatre

: 21 degree Celsius

Relative Humidity

: 61%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE

Laboratory Manager



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APPLICANT: Cinotech Consultants Limited

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Test Report No.: C/N/80903-2

Date of Issue: 2008-09-03 Date Received: 2008-09-02

Date Tested: 2008-09-02

Date Completed: 2008-09-03

Next Due Date:

2009-09-02

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Mr. Henry Leung

Page:

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Certificate of Calibration

Item for calibration:

Description

: Integrating Sound Level Meter

Manufacturer

: Brüel & Kjær

Model No.

: B&K 2238 : 2359303

Serial No. Equipment No.

: N-01-04

Test conditions:

Room Temperatre

: 21 degree Celsius

Relative Humidity

: 61%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:

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PATRICK TSE

Laboratory Manager





TEST REPORT

APPLICANT: Cinotech Consultants Limited

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Test Report No.: C/N/71015/1
Date of Issue: 2007-10-15
Date Received: 2007-10-13
Date Tested: 2007-10-13
Date Completed: 2007-10-15
Next Due Date: 2008-10-14

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Certificate of Calibration

Item for calibration:

Description

: Integrating Sound Level Meter

Manufacturer

: Brüel & Kjær

Model No.

: B&K 2238

Serial No. Microphone No. : 2394976 : 2407349

Equipment No.

: N-01-05

Test conditions:

Room Temperatre

: 21 degree Celsius

Relative Humidity

: 60%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:

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PATRICK TSE

Senior Chemist

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TEST REPORT

APPLICANT: Cinotech Consultants Limited

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Shatin, NT, Hong Kong

Test Report No.: C/N/81013/1 Date of Issue: 2007-10-15 Date Received: 2008-10-13 Date Tested: 2008-10-13 Date Completed: 2008-10-14 2009-10-14 Next Due Date:

1 of 1

Mr. Henry Leung ATTN: Page:

Certificate of Calibration

Item for calibration:

Description

: Integrating Sound Level Meter

Manufacturer Model No.

: Brüel & Kjær : B&K 2238

Serial No. Microphone No.

: 2394976 : 2407349

Equipment No.

: N-01-05

Test conditions:

Room Temperatre

: 21 degree Celsius

Relative Humidity

: 60%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

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Test Report No.:	C/N/71116/2	
Date of Issue:	2007-11-16	
Date Received:	2007-11-15	
Date Tested:	2007-11-15	
Date Completed:	2007-11-16	
Next Due Date:	2008-11-15	

ATTN:

Mr. Henry Leung

Page:

1 of 1

Item for calibration:

Description

: Acoustical Calibrator

Manufacturer

: Brüel & Kjær

Model No. Serial No. : 4231 : 2326353

Project No.

: C13

Equipment No.

: N-02-01

Test conditions:

Room Temperatre

: 20 degree Celsius

Relative Humidity

: 59%

Pressure

: 1015.2 hPa

Methodology:

The sound calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE Senior Chemist

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TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

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Shatin, NT, Hong Kong

Test Report No.:	C/06/80305
Date of Issue:	2008-03-05
Date Received:	2008-03-03
Date Tested:	2008-03-03
Date Completed:	2008-03-05
Next Due Date:	2009-03-04

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Mr. Henry Leung

Page:

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Item for calibration:

Description

: Acoustical Calibrator

Manufacturer

: Brüel & Kjær

Model No. Serial No. : 4231

Serial No.

: 2343007 : C13

Project No. Equipment No.

: N-02-02

Test conditions:

Room Temperatre

: 20 degree Celsius

Relative Humidity

: 65%

Pressure

: 1020.1hPa

Methodology:

The sound calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.2 dB

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE

Laboratory Manager



TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.:	C/N/80903-3	
Date of Issue:	2008-09-03	
Date Received:	2008-09-02	
Date Tested:	2008-09-02	
Date Completed:	2008-09-03	
Next Due Date:	2009-09-02	

ATTN:

Mr. Henry Leung

Page:

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Item for calibration:

Description

: Acoustical Calibrator

Manufacturer

: Brüel & Kjær

Model No.

: 4231

Serial No.

: 2412367

Equipment No.

: N-02-03

Test conditions:

Room Temperatre

: 21 degree Celsius

Relative Humidity

: 61%

Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE

Laboratory Manager

APPENDIX C ENVIRONMENTAL MONITORING AND AUDIT SCHEDULE

Environmental Monitoring for Lai Chi Kok Viaduct Air Quality and Noise Monitoring Schedule for October 2008

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28-Sep	29-Sep	30-Sep	1-Oct	2-Oct	3-Oct	4-Oct
		1 hr TSP Noise 24 hr TSP		1 hr TSP	1 hr TSP	
5-Oct	6-Oct	7-Oct	8-Oct	9-Oct	10-Oct	11-Oct
	1 hr TSP Noise 24 hr TSP		1 hr TSP	1 hr TSP		24 hr TSP
12-Oct	13-Oct	14-Oct	15-Oct	16-Oct	17-Oct	18-Oct
	1 hr TSP		1 hr TSP		1 hr TSP Noise 24 hr TSP	
19-Oct	20-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct
		1 hr TSP		1 hr TSP Noise 24 hr TSP	1 hr TSP	
26-Oct	27-Oct	28-Oct	29-Oct	30-Oct	31-Oct	1-Nov
	1 hr TSP		1 hr TSP Noise 24 hr TSP	1 hr TSP		

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

AM2 Lai Chi Kok Sports Centre

NM2 Lai Chi Kok Correctional Institution

NM4 Mei Foo Sun Chuen, Phase 5

NM8a M/F of Nob Hill NM8b 3/F of Nob Hill

NM9 G/F, Hoi Fai House, Hoi Lai Estate

Environmental Monitoring for Lai Chi Kok Viaduct Tentative Air Quality and Noise Monitoring Schedule for November 2008

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
2-Nov	3-Nov	4-Nov	5-Nov	6-Nov	7-Nov	8-Nov
		1 hr TSP 24 hr TSP	1 hr TSP	1 hr TSP Noise		
9-Nov	10-Nov	11-Nov	12-Nov	13-Nov	14-Nov	15-Nov
	24 hr TSP	1 hr TSP	1 hr TSP	1 hr TSP Noise		24 hr TSP
16-Nov	17-Nov	18-Nov	19-Nov	20-Nov	21-Nov	22-Nov
	1 hr TSP	1 hr TSP		1 hr TSP Noise	24 hr TSP	
23-Nov	24-Nov	25-Nov	26-Nov	27-Nov	28-Nov	29-Nov
	1 hr TSP	1 hr TSP Noise		24 hr TSP	1 hr TSP	
30-Nov	1-Dec	2-Dec	3-Dec	4-Dec	5-Dec	6-Dec
	1 hr TSP	1 hr TSP Noise	24 hr TSP	1 hr TSP		

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

AM2 Lai Chi Kok Sports Centre

NM2 Lai Chi Kok Correctional Institution

NM4 Mei Foo Sun Chuen, Phase 5

NM8a M/F of Nob Hill NM8b 3/F of Nob Hill

NM9 G/F, Hoi Fai House, Hoi Lai Estate

APPENDIX D WIND DATA

Date	Time	Wind Speed m/s	Direction
1-Oct-2008	00:00	2.7	SW
1-Oct-2008	01:00	2.6	W
1-Oct-2008	02:00	2.0	WSW
1-Oct-2008	03:00	1.7	WSW
1-Oct-2008	04:00	1.7	WSW
1-Oct-2008	05:00	2.0	WNW
1-Oct-2008	06:00	1.7	WNW
1-Oct-2008	07:00	2.1	NE
1-Oct-2008	08:00	1.2	NE
1-Oct-2008	09:00	1.7	NE
1-Oct-2008	10:00	1.7	WNW
1-Oct-2008	11:00	2.1	NW
1-Oct-2008	12:00	2.6	E
1-Oct-2008	13:00	2.4	E
1-Oct-2008	14:00	2.7	ESE
1-Oct-2008	15:00	2.4	ESE
1-Oct-2008	16:00	2.7	ESE
1-Oct-2008	17:00	2.2	ESE
1-Oct-2008	18:00	1.9	SE
1-Oct-2008	19:00	1.1	SE
1-Oct-2008	20:00	1.0	W
1-Oct-2008	21:00	1.2	W
1-Oct-2008	22:00	1.6	W
1-Oct-2008	23:00	1.4	SW
2-Oct-2008	00:00	1.6	SW
2-Oct-2008	01:00	2.3	WSW
2-Oct-2008	02:00	2.5	W
2-Oct-2008	03:00	2.3	WSW
2-Oct-2008	04:00	2.1	NE
2-Oct-2008	05:00	1.9	NE
2-Oct-2008	06:00	2.1	NNE
2-Oct-2008	07:00	1.7	ENE
2-Oct-2008	08:00	1.8	ENE
2-Oct-2008	09:00	1.7	N
2-Oct-2008	10:00	1.7	W
2-Oct-2008	11:00	1.4	WNW
2-Oct-2008	12:00	1.5	WNW
2-Oct-2008	13:00	1.2	WNW
2-Oct-2008	14:00	1.3	W
2-Oct-2008	15:00	1.4	W
2-Oct-2008	16:00	1.4	WNW
2-Oct-2008	17:00	1.2	SW
2-Oct-2008	18:00	1.1	SSW
2-Oct-2008	19:00	0.6	SSE
2-Oct-2008	20:00	0.7	NNE
2-Oct-2008	21:00	0.8	NNE
2-Oct-2008	22:00	1.1	NNE
2-Oct-2008	23:00	1.0	N
3-Oct-2008	00:00	1.2	NE
3-Oct-2008	01:00	1.1	N
3-Oct-2008	02:00	1.3	N
3-Oct-2008	03:00	1.9	ENE
3-Oct-2008	04:00	2.2	ENE
3-Oct-2008	05:00	2.0	ENE

Date	Time	Wind Speed m/s	Direction
3-Oct-2008	06:00	2.4	ENE
3-Oct-2008	07:00	2.6	E
3-Oct-2008	08:00	2.0	ENE
3-Oct-2008	09:00	2.0	SE
3-Oct-2008	10:00	2.3	N
3-Oct-2008	11:00	2.3	N
3-Oct-2008	12:00	2.4	NNE
3-Oct-2008	13:00	1.7	ENE
3-Oct-2008	14:00	1.8	ENE
3-Oct-2008	15:00	2.0	NE
3-Oct-2008	16:00	1.6	NE
3-Oct-2008	17:00	1.4	NE
3-Oct-2008	18:00	1.9	NNE
3-Oct-2008	19:00	1.9	NNE
3-Oct-2008	20:00	1.8	NNE
3-Oct-2008	21:00	1.3	NE
3-Oct-2008	22:00	1.5	NE
3-Oct-2008	23:00	1.1	ENE
4-Oct-2008	00:00	1.7	ENE
4-Oct-2008	01:00	2.0	NE
4-Oct-2008	02:00	1.6	E
4-Oct-2008	03:00	1.7	E
4-Oct-2008	04:00	1.5	ESE
4-Oct-2008	05:00	1.3	ESE
4-Oct-2008	06:00	1.5	ESE
4-Oct-2008	07:00	1.4	NNE
4-Oct-2008	08:00	1.7	NNE
4-Oct-2008	09:00	1.8	NNE
4-Oct-2008	10:00	2.0	SSE
4-Oct-2008	11:00	2.3	NE
4-Oct-2008	12:00	2.7	ENE
4-Oct-2008	13:00	2.5	SSE
4-Oct-2008	14:00	2.9	N
4-Oct-2008	15:00	3.0	N
4-Oct-2008	16:00	2.6	N
4-Oct-2008	17:00	2.6	N
4-Oct-2008	18:00	2.2	NNE
4-Oct-2008	19:00	2.0	ENE
4-Oct-2008	20:00	1.9	WNW
4-Oct-2008	21:00	1.8	S
4-Oct-2008	22:00	2.4	WSW
4-Oct-2008	23:00	2.2	WSW
5-Oct-2008	00:00	2.1	W
5-Oct-2008	01:00	2.5	W
5-Oct-2008	02:00	2.3	WSW
5-Oct-2008	03:00	2.0	WSW
5-Oct-2008	04:00	2.3	WSW
5-Oct-2008	05:00	2.3	W
5-Oct-2008	06:00	2.4	W
5-Oct-2008	07:00	2.9	N
5-Oct-2008	08:00	2.7	W
5-Oct-2008	09:00	2.9	WNW
5-Oct-2008	10:00	2.8	ESE
		2.6	ESE

Date	Time	Wind Speed m/s	Direction
5-Oct-2008	12:00	2.4	NE
5-Oct-2008	13:00	2.7	W
5-Oct-2008	14:00	3.2	NW
5-Oct-2008	15:00	3.2	WNW
5-Oct-2008	16:00	3.1	SSW
5-Oct-2008	17:00	2.6	W
5-Oct-2008	18:00	2.3	WNW
5-Oct-2008	19:00	1.9	WSW
5-Oct-2008	20:00	2.2	W
5-Oct-2008	21:00	2.2	WNW
5-Oct-2008	22:00	2.5	WNW
5-Oct-2008	23:00	2.5	N
6-Oct-2008	00:00	2.4	WNW
6-Oct-2008	01:00	3.0	N
6-Oct-2008	02:00	3.0	ENE
6-Oct-2008	03:00	3.0	NNE
6-Oct-2008	04:00	2.9	N
6-Oct-2008	05:00	2.8	WNW
6-Oct-2008	06:00	2.8	WNW
6-Oct-2008	07:00	2.5	WNW
6-Oct-2008	08:00	2.7	WNW
6-Oct-2008	09:00	2.6	WNW
6-Oct-2008	10:00	2.7	WNW
6-Oct-2008	11:00	3.4	W
6-Oct-2008	12:00	3.3	W
6-Oct-2008	13:00	3.0	W
6-Oct-2008	14:00	2.9	W
6-Oct-2008	15:00	3.0	WNW
6-Oct-2008	16:00	2.7	WNW
6-Oct-2008	17:00	2.9	WNW
6-Oct-2008	18:00	2.6	WNW
6-Oct-2008	19:00	2.6	WNW
6-Oct-2008	20:00	2.7	WNW
6-Oct-2008	21:00	2.0	WNW
6-Oct-2008	22:00	2.3	WNW
6-Oct-2008	23:00	1.9	WNW
7-Oct-2008	00:00	2.4	WNW
7-Oct-2008	01:00	2.6	WNW
7-Oct-2008	02:00	2.8	SW
7-Oct-2008	03:00	2.8	ENE
7-Oct-2008	04:00	3.0	ENE
7-Oct-2008	05:00	2.8	NNE
7-Oct-2008	06:00	2.7	SW
7-Oct-2008	07:00	3.0	SSW
7-Oct-2008	08:00	3.1	WNW
7-Oct-2008	09:00	3.2	WSW
7-Oct-2008	10:00	3.7	W
7-Oct-2008	11:00	3.7	WSW
7-Oct-2008	12:00	3.6	WSW
7-Oct-2008	13:00	3.4	WSW
7-Oct-2008	14:00	3.1	WSW
7-Oct-2008	15:00	3.3	ENE
7-Oct-2008	16:00	3.0	WSW
7-Oct-2008	17:00	3.3	SW
7-001-2008	17:00	ა.ა	311

Date	Time	Wind Speed m/s	Direction
7-Oct-2008	18:00	2.8	SW
7-Oct-2008	19:00	2.8	SW
7-Oct-2008	20:00	2.4	NE
7-Oct-2008	21:00	2.1	W
7-Oct-2008	22:00	2.4	S
7-Oct-2008	23:00	3.3	SSW
8-Oct-2008	00:00	3.4	WSW
8-Oct-2008	01:00	3.4	SW
8-Oct-2008	02:00	3.3	SW
8-Oct-2008	03:00	3.2	SW
8-Oct-2008	04:00	3.6	SW
8-Oct-2008	05:00	3.8	NE
8-Oct-2008	06:00	3.2	WSW
8-Oct-2008	07:00	3.6	SW
8-Oct-2008	08:00	3.6	SSW
8-Oct-2008	09:00	3.0	NE
8-Oct-2008	10:00	2.0	NE
8-Oct-2008	11:00	2.8	N
8-Oct-2008	12:00	3.5	N
8-Oct-2008	13:00	2.7	E
8-Oct-2008	14:00	3.0	N
8-Oct-2008	15:00	2.9	N
8-Oct-2008	16:00	3.0	N
8-Oct-2008	17:00	2.9	N
8-Oct-2008	18:00	2.6	NNE
8-Oct-2008	19:00	2.3	NNE
8-Oct-2008	20:00	2.1	ENE
8-Oct-2008	21:00	1.6	N
8-Oct-2008	22:00	1.6	NNE
8-Oct-2008	23:00	1.7	N
9-Oct-2008	00:00	1.5	E
9-Oct-2008	01:00	1.7	NNE
9-Oct-2008	02:00	1.3	NE
9-Oct-2008	03:00	2.1	NE
9-Oct-2008	04:00	1.9	NE
9-Oct-2008	05:00	2.0	NE
9-Oct-2008	06:00	1.5	NE
9-Oct-2008	07:00	1.9	NE
9-Oct-2008	08:00	2.5	NE
9-Oct-2008	09:00	2.4	NE
9-Oct-2008	10:00	2.2	NE
9-Oct-2008	11:00	2.4	N
9-Oct-2008	12:00	2.4	N
9-Oct-2008	13:00	2.2	N
9-Oct-2008	14:00	2.2	E
9-Oct-2008	15:00	2.1	Е
9-Oct-2008	16:00	2.4	Е
9-Oct-2008	17:00	1.8	ENE
9-Oct-2008	18:00	1.8	NE
9-Oct-2008	19:00	1.6	NE
9-Oct-2008	20:00	1.3	ENE
9-Oct-2008	21:00	1.8	NE
9-Oct-2008	22:00	2.1	ENE
9-Oct-2008	23:00	1.3	NE

Date	Time	Wind Speed m/s	Direction
10-Oct-2008	00:00	1.3	ENE
10-Oct-2008	01:00	1.7	ENE
10-Oct-2008	02:00	1.3	ENE
10-Oct-2008	03:00	1.4	ENE
10-Oct-2008	04:00	1.4	NNE
10-Oct-2008	05:00	1.4	NNE
10-Oct-2008	06:00	1.7	N
10-Oct-2008	07:00	1.1	NE
10-Oct-2008	08:00	0.8	N
10-Oct-2008	09:00	1.0	NE
10-Oct-2008	10:00	1.7	NNE
10-Oct-2008	11:00	1.4	ENE
10-Oct-2008	12:00	1.0	N
10-Oct-2008	13:00	1.6	NNE
10-Oct-2008	14:00	1.8	N
10-Oct-2008	15:00	1.9	NNE
10-Oct-2008	16:00	1.9	ENE
10-Oct-2008	17:00	2.4	NE
10-Oct-2008	18:00	1.7	S
10-Oct-2008	19:00	1.2	SE
10-Oct-2008	20:00	1.1	SE
10-Oct-2008	21:00	1.1	SE
10-Oct-2008	22:00	1.6	SE
10-Oct-2008	23:00	0.8	SE
11-Oct-2008	00:00	1.8	SW
11-Oct-2008	01:00	1.0	WSW
11-Oct-2008	02:00	0.8	SE
11-Oct-2008	03:00	1.4	SE
11-Oct-2008	04:00	1.4	SE
11-Oct-2008	05:00	1.3	ESE
11-Oct-2008	06:00	1.6	SSW
11-Oct-2008	07:00	1.3	SW
11-Oct-2008	08:00	1.4	ENE
11-Oct-2008	09:00	2.1	SE
11-Oct-2008	10:00	1.7	SE
11-Oct-2008	11:00	2.0	NE
11-Oct-2008	12:00	2.2	ENE
11-Oct-2008	13:00	2.2	ENE
11-Oct-2008	14:00	2.7	ENE
11-Oct-2008	15:00	2.9	NE
11-Oct-2008	16:00	2.8	NE
11-Oct-2008	17:00	3.8	NE
11-Oct-2008	18:00	2.4	ENE
11-Oct-2008	19:00	2.5	ENE
11-Oct-2008	20:00	2.1	NNE
11-Oct-2008	21:00	2.0	N
11-Oct-2008	22:00	2.0	N
11-Oct-2008	23:00	1.7	W
12-Oct-2008	00:00	1.4	N N
12-Oct-2008	01:00	1.2	N N
12-Oct-2008	02:00	1.3	N N
12-Oct-2008	03:00	1.3	N N
12-Oct-2008	04:00	1.0	N NE
12-Oct-2008	05:00	1.6	NE

Date	Time	Wind Speed m/s	Direction
12-Oct-2008	06:00	1.6	NE
12-Oct-2008	07:00	1.6	ENE
12-Oct-2008	08:00	1.3	ENE
12-Oct-2008	09:00	2.0	ENE
12-Oct-2008	10:00	2.4	NE
12-Oct-2008	11:00	2.1	NNE
12-Oct-2008	12:00	2.3	ENE
12-Oct-2008	13:00	2.3	ENE
12-Oct-2008	14:00	2.4	E
12-Oct-2008	15:00	2.5	Е
12-Oct-2008	16:00	2.4	E
12-Oct-2008	17:00	2.2	Е
12-Oct-2008	18:00	2.0	Е
12-Oct-2008	19:00	1.4	ENE
12-Oct-2008	20:00	1.0	ENE
12-Oct-2008	21:00	0.7	E
12-Oct-2008	22:00	1.2	ENE
12-Oct-2008	23:00	1.4	NNE
13-Oct-2008	00:00	1.1	NE
13-Oct-2008	01:00	1.2	N
13-Oct-2008	02:00	1.1	N
13-Oct-2008	03:00	1.2	ENE
13-Oct-2008	04:00	2.0	ENE
13-Oct-2008	05:00	1.4	ENE
13-Oct-2008	06:00	1.5	ENE
13-Oct-2008	07:00	1.4	NE
13-Oct-2008	08:00	1.7	NE
13-Oct-2008	09:00	2.6	S
13-Oct-2008	10:00	2.7	E
13-Oct-2008	11:00	2.8	E
13-Oct-2008	12:00	3.0	E
13-Oct-2008	13:00	2.6	ENE
13-Oct-2008	14:00	3.0	NE
13-Oct-2008	15:00	3.3	NE
13-Oct-2008	16:00	2.8	ENE
13-Oct-2008	17:00	2.7	NE
13-Oct-2008	18:00	2.5	ENE
13-Oct-2008	19:00	2.4	NE
13-Oct-2008	20:00	2.0	ENE
13-Oct-2008	21:00	1.2	ENE
13-Oct-2008	22:00	1.8	ENE
13-Oct-2008	23:00	1.6	E
14-Oct-2008	00:00	1.4	NE
14-Oct-2008	01:00	1.4	ENE
14-Oct-2008	02:00	1.4	NE
14-Oct-2008	03:00	1.6	E
14-Oct-2008	04:00	2.0	E
14-Oct-2008	05:00	1.6	ENE
14-Oct-2008	06:00	1.7	ENE
14-Oct-2008	07:00	1.8	ENE
14-Oct-2008	08:00	2.3	NE
14-Oct-2008	09:00	2.4	NE
	40.00	0.0	ENIE
14-Oct-2008	10:00	2.6 3.1	ENE

Date	Time	Wind Speed m/s	Direction
14-Oct-2008	12:00	3.5	NE
14-Oct-2008	13:00	3.5	ENE
14-Oct-2008	14:00	3.7	SSE
14-Oct-2008	15:00	3.3	S
14-Oct-2008	16:00	3.4	SSE
14-Oct-2008	17:00	2.9	SE
14-Oct-2008	18:00	2.5	SE
14-Oct-2008	19:00	2.2	SE
14-Oct-2008	20:00	1.6	SE
14-Oct-2008	21:00	1.4	SE
14-Oct-2008	22:00	1.3	SW
14-Oct-2008	23:00	1.2	WSW
15-Oct-2008	00:00	1.5	WSW
15-Oct-2008	01:00	1.2	WSW
15-Oct-2008	02:00	2.0	SW
15-Oct-2008	03:00	1.8	NW
15-Oct-2008	04:00	2.1	NNW
15-Oct-2008	05:00	1.9	N
15-Oct-2008	06:00	1.9	N
15-Oct-2008	07:00	2.3	N
15-Oct-2008	08:00	2.4	NNW
15-Oct-2008	09:00	3.4	N
15-Oct-2008	10:00	3.4	N
15-Oct-2008	11:00	3.4	NNE
15-Oct-2008	12:00	3.6	E
15-Oct-2008	13:00	3.9	E E
15-Oct-2008	14:00	3.7	SE
15-Oct-2008	15:00	3.9	SSE
15-Oct-2008	16:00	3.1	E
15-Oct-2008	17:00	2.4	WSW
15-Oct-2008	18:00	2.8	WNW
15-Oct-2008	19:00	1.7	NNW
15-Oct-2008	20:00	1.8	NNW
15-Oct-2008	21:00	1.6	N
15-Oct-2008	22:00	1.7	NNW
15-Oct-2008	23:00	1.7	NNE
16-Oct-2008	00:00	2.0	NE
16-Oct-2008	01:00	2.1	N
16-Oct-2008	02:00	2.2	NE
16-Oct-2008	03:00	2.2	NNE
16-Oct-2008	04:00	2.4	N
16-Oct-2008	05:00	2.7	N N
16-Oct-2008	06:00	2.2	ESE
16-Oct-2008	07:00	2.7	NE
16-Oct-2008	08:00	1.9	ESE
16-Oct-2008	09:00	2.7	E E
16-Oct-2008	10:00	3.2	NE
16-Oct-2008	11:00	2.4	NNE
16-Oct-2008	12:00	3.5	NE
16-Oct-2008	13:00	3.6	NE NE
16-Oct-2008	14:00	3.6	NE
16-Oct-2008	15:00	3.6	NNE NNE
16-Oct-2008	16:00	2.9	N N
16-Oct-2008	17:00	2.6	NNE

Date	Time	Wind Speed m/s	Direction
16-Oct-2008	18:00	3.2	N
16-Oct-2008	19:00	2.8	NNE
16-Oct-2008	20:00	1.5	ESE
16-Oct-2008	21:00	2.3	E
16-Oct-2008	22:00	2.0	NE
16-Oct-2008	23:00	2.0	SW
17-Oct-2008	00:00	2.1	SW
17-Oct-2008	01:00	2.0	SW
17-Oct-2008	02:00	2.2	SW
17-Oct-2008	03:00	2.5	SSW
17-Oct-2008	04:00	2.1	SW
17-Oct-2008	05:00	2.1	SSW
17-Oct-2008	06:00	1.7	S
17-Oct-2008	07:00	2.4	SSE
17-Oct-2008	08:00	2.5	SSW
17-Oct-2008	09:00	3.1	S
17-Oct-2008	10:00	3.0	SW
17-Oct-2008	11:00	2.7	SW
17-Oct-2008	12:00	2.5	WSW
17-Oct-2008	13:00	3.1	SW
17-Oct-2008	14:00	3.0	SW
17-Oct-2008	15:00	2.7	SW
17-Oct-2008	16:00	1.9	SW
17-Oct-2008	17:00	1.9	SSW
17-Oct-2008	18:00	2.4	SSW
		1.8	NE
17-Oct-2008 17-Oct-2008	19:00 20:00	1.3	NE NE
17-Oct-2008	21:00	0.8	NE NE
			NE NE
17-Oct-2008 17-Oct-2008	22:00 23:00	1.0	NNE
18-Oct-2008	00:00	0.9	NNE
18-Oct-2008	01:00	1.4	NE NE
18-Oct-2008	02:00		NE E
18-Oct-2008	03:00	1.4	
18-Oct-2008	04:00	1.4	ENE
18-Oct-2008	05:00	1.3	NNE
18-Oct-2008	06:00	1.2	SE SE
18-Oct-2008	07:00	1.1	
18-Oct-2008	08:00	1.1	SE
18-Oct-2008	09:00	1.5	S
18-Oct-2008	10:00	1.9	ESE
18-Oct-2008	11:00	2.0	N
18-Oct-2008	12:00	2.4	NNE
18-Oct-2008	13:00	3.3	SSE
18-Oct-2008	14:00	2.5	ESE
18-Oct-2008	15:00	2.9	NE NE
18-Oct-2008	16:00	2.3	SSE
18-Oct-2008	17:00	1.5	SE
18-Oct-2008	18:00	1.9	SSE
18-Oct-2008	19:00	2.3	SSE
18-Oct-2008	20:00	2.3	SSE
18-Oct-2008	21:00	2.1	SSE
18-Oct-2008	22:00	2.0	SSE
18-Oct-2008	23:00	2.2	ENE

Date	Time	Wind Speed m/s	Direction
19-Oct-2008	00:00	2.3	ENE
19-Oct-2008	01:00	2.3	NNE
19-Oct-2008	02:00	2.4	NNE
19-Oct-2008	03:00	2.1	NNE
19-Oct-2008	04:00	1.7	SW
19-Oct-2008	05:00	1.5	NNE
19-Oct-2008	06:00	1.4	NE
19-Oct-2008	07:00	1.4	NE
19-Oct-2008	08:00	1.6	NE
19-Oct-2008	09:00	1.8	NE
19-Oct-2008	10:00	1.8	NE
19-Oct-2008	11:00	2.3	N
19-Oct-2008	12:00	2.6	NE
19-Oct-2008	13:00	2.5	N
19-Oct-2008	14:00	2.2	SE
19-Oct-2008	15:00	3.2	SE
19-Oct-2008	16:00	2.7	ENE
19-Oct-2008	17:00	2.8	Е
19-Oct-2008	18:00	2.6	Е
19-Oct-2008	19:00	2.3	Е
19-Oct-2008	20:00	1.5	NE
19-Oct-2008	21:00	1.0	Е
19-Oct-2008	22:00	1.9	Е
19-Oct-2008	23:00	1.7	Е
20-Oct-2008	00:00	1.4	SE
20-Oct-2008	01:00	1.3	SE
20-Oct-2008	02:00	1.4	ESE
20-Oct-2008	03:00	1.5	Е
20-Oct-2008	04:00	1.6	SE
20-Oct-2008	05:00	2.0	SE
20-Oct-2008	06:00	2.3	SSE
20-Oct-2008	07:00	1.7	S
20-Oct-2008	08:00	1.4	S
20-Oct-2008	09:00	2.3	ENE
20-Oct-2008	10:00	2.1	E
20-Oct-2008	11:00	2.4	SE
20-Oct-2008	12:00	2.2	SE
20-Oct-2008	13:00	2.5	ESE
20-Oct-2008	14:00	2.2	Е
20-Oct-2008	15:00	2.2	ESE
20-Oct-2008	16:00	2.1	NE
20-Oct-2008	17:00	2.4	NE
20-Oct-2008	18:00	2.0	E
20-Oct-2008	19:00	1.9	NNE
20-Oct-2008	20:00	1.3	NNE
20-Oct-2008	21:00	1.3	NE
20-Oct-2008	22:00	1.9	NE
20-Oct-2008	23:00	2.4	SE
21-Oct-2008	00:00	1.9	NE
21-Oct-2008	01:00	1.8	N
21-Oct-2008	02:00	1.9	ENE
21-Oct-2008	03:00	2.2	ENE
04 0 4 0000	04:00	1.6	NE
21-Oct-2008 21-Oct-2008	05:00	2.3	NE NE

Date	Time	Wind Speed m/s	Direction
21-Oct-2008	06:00	1.9	NE
21-Oct-2008	07:00	1.3	NNW
21-Oct-2008	08:00	1.5	N
21-Oct-2008	09:00	1.9	N
21-Oct-2008	10:00	2.5	N
21-Oct-2008	11:00	2.9	ENE
21-Oct-2008	12:00	3.6	ENE
21-Oct-2008	13:00	3.6	NNE
21-Oct-2008	14:00	3.3	NE
21-Oct-2008	15:00	3.4	E
21-Oct-2008	16:00	2.4	E
21-Oct-2008	17:00	2.4	ENE
21-Oct-2008	18:00	2.4	NE
21-Oct-2008	19:00	2.2	NE
21-Oct-2008	20:00	2.0	ENE
21-Oct-2008	21:00	2.0	ENE
21-Oct-2008	22:00	1.9	ENE
21-Oct-2008	23:00	2.0	ENE
22-Oct-2008	00:00	2.7	NNE
22-Oct-2008	01:00	1.8	NNE
22-Oct-2008	02:00	1.8	NNE
22-Oct-2008	03:00	2.0	N
22-Oct-2008	04:00	2.1	N
22-Oct-2008	05:00	1.7	NE
22-Oct-2008	06:00	1.8	SSW
22-Oct-2008	07:00	2.0	SW
22-Oct-2008	08:00	1.7	SW
22-Oct-2008	09:00	1.3	SSW
22-Oct-2008	10:00	1.5	SW
22-Oct-2008	11:00	2.2	SW
22-Oct-2008	12:00	2.9	SW
22-Oct-2008	13:00	3.1	SW
22-Oct-2008	14:00	3.4	W
22-Oct-2008	15:00	2.6	N
22-Oct-2008	16:00	2.2	NNW
22-Oct-2008	17:00	2.1	SW
22-Oct-2008	18:00	2.2	N
22-Oct-2008	19:00	2.0	WNW
22-Oct-2008	20:00	2.4	NE
22-Oct-2008	21:00	2.2	N
22-Oct-2008	22:00	1.4	N
22-Oct-2008	23:00	1.6	NNW
23-Oct-2008	00:00	1.6	N
23-Oct-2008	01:00	1.4	N
23-Oct-2008	02:00	1.3	N
23-Oct-2008	03:00	1.8	N
23-Oct-2008	04:00	1.8	N
23-Oct-2008	05:00	1.4	N
23-Oct-2008	06:00	1.4	N
23-Oct-2008	07:00	1.4	N
23-Oct-2008	08:00	1.3	N
23-Oct-2008	09:00	1.6	NNW
23-Oct-2008	10:00	2.4	E
23-Oct-2008	11:00	2.5	NNW

Date	Time	Wind Speed m/s	Direction
23-Oct-2008	12:00	2.5	WNW
23-Oct-2008	13:00	2.9	NNW
23-Oct-2008	14:00	2.9	NNW
23-Oct-2008	15:00	2.7	N
23-Oct-2008	16:00	2.7	NNW
23-Oct-2008	17:00	2.6	WSW
23-Oct-2008	18:00	3.1	SW
23-Oct-2008	19:00	2.9	N
23-Oct-2008	20:00	3.9	N
23-Oct-2008	21:00	3.4	ENE
23-Oct-2008	22:00	3.6	ENE
23-Oct-2008	23:00	3.4	ENE
24-Oct-2008	00:00	3.6	ENE
24-Oct-2008	01:00	3.5	ENE
24-Oct-2008	02:00	1.9	ENE
24-Oct-2008	03:00	2.2	SW
24-Oct-2008	04:00	3.1	SW
24-Oct-2008	05:00	3.2	SW
24-Oct-2008	06:00	3.1	SW
24-Oct-2008	07:00	3.4	SW
24-Oct-2008	08:00	2.6	ENE
24-Oct-2008	09:00	2.7	ENE
24-Oct-2008	10:00	2.8	ENE
24-Oct-2008	11:00	3.6	ENE
24-Oct-2008	12:00	3.7	ENE
24-Oct-2008	13:00	3.7	ENE
24-Oct-2008	14:00	3.3	ESE
24-Oct-2008	15:00	3.1	SSE
24-Oct-2008	16:00	3.5	SE
24-Oct-2008	17:00	2.2	SE
24-Oct-2008	18:00	1.5	S
24-Oct-2008	19:00	1.9	SSE
24-Oct-2008	20:00	1.7	SSE
24-Oct-2008	21:00	1.2	SSE
24-Oct-2008	22:00	1.4	SE
24-Oct-2008	23:00	1.8	SSE
25-Oct-2008	00:00	1.6	S
25-Oct-2008	01:00	1.8	S
25-Oct-2008	02:00	1.8	ENE
25-Oct-2008	03:00	1.0	NNE
25-Oct-2008	04:00	1.2	SW
25-Oct-2008	05:00	1.3	NE
25-Oct-2008	06:00	1.0	ESE
25-Oct-2008	07:00	0.8	ENE
25-Oct-2008	08:00	1.5	NE NE
25-Oct-2008	09:00	1.8	NE
25-Oct-2008	10:00	2.0	ENE
25-Oct-2008	11:00	3.0	ENE
25-Oct-2008	12:00	2.9	SW
25-Oct-2008	13:00	2.6	SW
25-Oct-2008	14:00	3.2	SW
25-Oct-2008	15:00	3.0	SW
20 000 2000	10.00	5.0	U 1 1
25-Oct-2008	16:00	3.1	SSW

Date	Time	Wind Speed m/s	Direction
25-Oct-2008	18:00	2.2	SSW
25-Oct-2008	19:00	2.3	SW
25-Oct-2008	20:00	1.9	ENE
25-Oct-2008	21:00	1.2	S
25-Oct-2008	22:00	1.4	S
25-Oct-2008	23:00	1.2	N
26-Oct-2008	00:00	1.0	NE
26-Oct-2008	01:00	1.0	WSW
26-Oct-2008	02:00	1.2	SW
26-Oct-2008	03:00	1.8	WSW
26-Oct-2008	04:00	1.0	WSW
26-Oct-2008	05:00	1.2	WSW
26-Oct-2008	06:00	1.1	SW
26-Oct-2008	07:00	1.2	SSW
26-Oct-2008	08:00	1.0	WSW
26-Oct-2008	09:00	1.4	SW
26-Oct-2008	10:00	1.7	ESE
26-Oct-2008	11:00	2.6	ESE
26-Oct-2008	12:00	2.4	NNE
26-Oct-2008	13:00	2.5	NNW
26-Oct-2008	14:00	2.4	N
26-Oct-2008	15:00	2.0	N
26-Oct-2008	16:00	2.6	NNE
26-Oct-2008	17:00	1.7	SW
26-Oct-2008	18:00	1.6	N
26-Oct-2008	19:00	1.5	SSE
26-Oct-2008	20:00	1.2	SW
26-Oct-2008	21:00	1.6	N
26-Oct-2008	22:00	2.0	ENE
26-Oct-2008	23:00	1.9	ENE
27-Oct-2008	00:00	2.3	ENE
27-Oct-2008	01:00	2.3	ENE
27-Oct-2008	02:00	1.8	ENE
27-Oct-2008	03:00	1.5	ENE
27-Oct-2008	04:00	1.8	NE NE
27-Oct-2008	05:00	1.5	ENE
27-Oct-2008	06:00	1.2	NE NE
27-Oct-2008	07:00	1.7	NE NE
27-Oct-2008	08:00	1.6	NE NE
27-Oct-2008	09:00	1.6	NE NE
27-Oct-2008	10:00	2.3	NE
27-Oct-2008	11:00	2.3	NNE
27-Oct-2008	12:00	2.7	N
27-Oct-2008 27-Oct-2008	13:00	2.8	NNE
27-Oct-2008	14:00	3.0	N
27-Oct-2008	15:00	2.5	NNE
27-Oct-2008 27-Oct-2008	16:00	2.7	NNW
27-Oct-2008 27-Oct-2008	17:00	2.7	N
27-Oct-2008	18:00	2.5	N N
27-Oct-2008	19:00	1.7	NNE
	20:00	1.4	N N
27-Oct-2008 27-Oct-2008	21:00	1.4	NE
27-Oct-2008	22:00	1.6	N N
27-Oct-2008	23:00	1.9	IN

Date	Time	Wind Speed m/s	Direction
28-Oct-2008	00:00	2.3	N
28-Oct-2008	01:00	2.1	N
28-Oct-2008	02:00	2.5	N
28-Oct-2008	03:00	1.9	N
28-Oct-2008	04:00	2.2	NNE
28-Oct-2008	05:00	1.7	N
28-Oct-2008	06:00	1.3	NE
28-Oct-2008	07:00	2.0	NE
28-Oct-2008	08:00	2.5	NE
28-Oct-2008	09:00	2.1	NE
28-Oct-2008	10:00	1.9	NE
28-Oct-2008	11:00	2.6	N
28-Oct-2008	12:00	2.3	N
28-Oct-2008	13:00	1.5	N
28-Oct-2008	14:00	1.8	N
28-Oct-2008	15:00	2.1	NNW
28-Oct-2008	16:00	1.5	NNW
28-Oct-2008	17:00	1.6	NNW
28-Oct-2008	18:00	1.7	N
28-Oct-2008	19:00	1.5	N
28-Oct-2008	20:00	1.4	N
28-Oct-2008	21:00	1.6	N
28-Oct-2008	22:00	1.4	SW
28-Oct-2008	23:00	2.0	SW
29-Oct-2008	00:00	1.8	SW
29-Oct-2008	01:00	1.8	SW
29-Oct-2008	02:00	1.9	SW
29-Oct-2008	03:00	2.6	SW
29-Oct-2008	04:00	1.3	WSW
29-Oct-2008	05:00	1.8	WSW
29-Oct-2008	06:00	1.5	SW
29-Oct-2008	07:00	0.8	SW
29-Oct-2008	08:00	0.8	SW
29-Oct-2008	09:00	0.6	W
29-Oct-2008	10:00	1.0	WNW
29-Oct-2008	11:00	1.5	SW
29-Oct-2008	12:00	1.3	SW
29-Oct-2008	13:00	1.7	SW
29-Oct-2008	14:00	1.6	NW
29-Oct-2008	15:00	2.3	SSW
29-Oct-2008	16:00	1.7	SSW
29-Oct-2008	17:00	1.6	SSW
29-Oct-2008	18:00	0.9	SW
29-Oct-2008	19:00	1.0	S
29-Oct-2008	20:00	1.1	<u>S</u>
29-Oct-2008	21:00	1.1	ENE
29-Oct-2008	22:00	1.6	ENE
29-Oct-2008	23:00	1.4	N
30-Oct-2008	00:00	1.4	NE
30-Oct-2008	01:00	1.3	NE
30-Oct-2008	02:00	1.5	NE
30-Oct-2008	03:00	1.5	NE NE
30-Oct-2008	04:00	1.3	NNE
30-Oct-2008	05:00	1.1	N
30-001-2006	03.00	1.1	IN

Date	Time	Wind Speed m/s	Direction
30-Oct-2008	06:00	1.0	N
30-Oct-2008	07:00	1.1	N
30-Oct-2008	08:00	1.3	N
30-Oct-2008	09:00	1.8	N
30-Oct-2008	10:00	2.0	N
30-Oct-2008	11:00	2.8	N
30-Oct-2008	12:00	3.5	N
30-Oct-2008	13:00	3.4	NNE
30-Oct-2008	14:00	3.6	NNE
30-Oct-2008	15:00	3.6	N
30-Oct-2008	16:00	3.3	NE
30-Oct-2008	17:00	2.8	NE
30-Oct-2008	18:00	2.2	NE
30-Oct-2008	19:00	1.8	NE
30-Oct-2008	20:00	2.0	NE
30-Oct-2008	21:00	1.5	NNE
30-Oct-2008	22:00	1.6	NNE
30-Oct-2008	23:00	1.1	N
31-Oct-2008	00:00	0.8	N
31-Oct-2008	01:00	1.0	NNE
31-Oct-2008	02:00	1.1	NNE
31-Oct-2008	03:00	1.0	ENE
31-Oct-2008	04:00	1.3	ENE
31-Oct-2008	05:00	1.2	ENE
31-Oct-2008	06:00	1.1	NNE
31-Oct-2008	07:00	0.9	NNE
31-Oct-2008	08:00	0.8	NE
31-Oct-2008	09:00	0.6	SSE
31-Oct-2008	10:00	0.6	SSE
31-Oct-2008	11:00	1.0	N
31-Oct-2008	12:00	1.1	NNE
31-Oct-2008	13:00	1.3	NE
31-Oct-2008	14:00	1.4	NNE
31-Oct-2008	15:00	1.3	ENE
31-Oct-2008	16:00	1.2	ENE
31-Oct-2008	17:00	1.2	N
31-Oct-2008	18:00	0.8	NNE
31-Oct-2008	19:00	0.7	N
31-Oct-2008	20:00	0.6	NNE
31-Oct-2008	21:00	0.6	N
31-Oct-2008	22:00	0.6	E
31-Oct-2008	23:00	0.5	E

APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

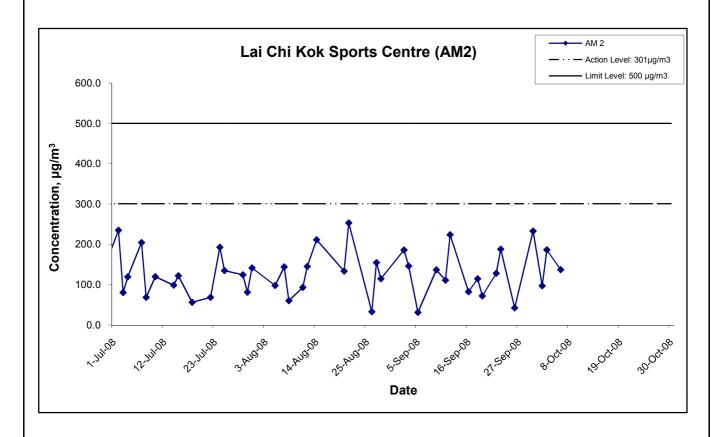
Appendix E - 1-hour TSP Monitoring Results

Location AM 2 - Lai Chi Kok Sports Centre

Date	Weather	Filter We	eight (g)	Flow Rate	(m³/min.)	Elaps	e Time	Air	Atmospheric	Particulate	Av. flow	Total vol.	Sampling	Conc.
	Condition	Initial	Final	Initial	Final	Initial	Final	Temp. (K)	Pressure(Pa)	weight(g)	(m ³ /min)	(m^3)	Time(hrs.)	$(\mu g/m^3)$
2-Oct-08	Sunny	2.8639	2.8710	1.22	1.22	8305.1	8306.1	302.1	761.5	0.0071	1.22	73.1	1.0	97.1
3-Oct-08	Sunny	2.8043	2.8180	1.22	1.22	8306.1	8307.1	299.5	761.5	0.0137	1.22	73.4	1.0	186.7
6-Oct-08	Cloudy	2.9023	2.9124	1.23	1.23	8307.1	8308.1	296.6	760.2	0.0101	1.23	73.7	1.0	137.1
8-Oct-08														
9-Oct-08														
13-Oct-08														
15-Oct-08														
17-Oct-08														
21-Oct-08						Cancelle	d due to elec	ctricity proble	m.					
23-Oct-08														
24-Oct-08														
27-Oct-08														
29-Oct-08														
30-Oct-08														

Min	97.1
Max	186.7
Average	140.3

1-hr TSP Levels



The 1-hr TSP monitoring from 8 October 2008 to 30 October 2008 were cancelled due to the suspension of electricity supply of Lai Chi Kok Park Sports Centre (AM2) for internal work of itself.

Title Contract HY/2003/01 - Lai Chi Kok Viaduct
Route 8 (previously known as Route 9) between Cheung Sha Wan & Sha Tin
Graphical Presentation of 1-hour TSP Impact Monitoring
Results

Scale Project
No. MA3024

Date
Oct 08

Appendix
E

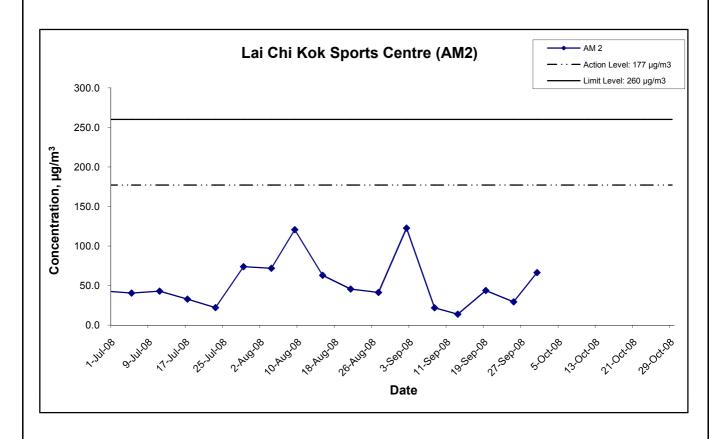
APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix F - 24-hour TSP Monitoring Results

Location AM 2 - Lai Chi Kok Sports Centre

Date	Weather	Filter W	eight (g)	Flow Rate	e (m³/min.	Elaps	se Time	Air	Atmospheric	Particulate	Av. flow	Total vol.	Sampling	Conc.
	Condition	Initial	Final	Initial	Final	Initial	Final	Temp. (K)	Pressure(Pa)	weight(g)	(m ³ /min)	(m^3)	Time(hrs.	$(\mu g/m^3)$
6-Oct-08														
11-Oct-08														
17-Oct-08		Cancelled due to electricity problem.												
23-Oct-08		and the control of th												
29-Oct-08														

24-hr TSP Levels



All 24-hr TSP monitoring in this reporting month were cancelled due to the suspension of electricity supply of Lai Chi Kok Park Sports Centre (AM2) for internal work of itself.

APPENDIX G NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix G - Noise Monitoring Results

Location N	Location NM2 - Lai Chi Kok Reception Centre											
						Unit: dB (A) (30						
Date Time		ne Weather	Measured Noise Level			Baseline Level	Construction Noise Level	Remarks				
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}					
6-Oct-08	09:20	Cloudy	68.1	69.7	64.2		68.1, Measured ≦ Baseline					
17-Oct-08	13:00	Cloudy	67.0	68.7	63.2	68.4	67.0, Measured ≦ Baseline	Resumed since September 2006				
23-Oct-08	09:00	Sunny	63.8	66.7	61.7	00.4	63.8, Measured ≤ Baseline	Resumed since September 2000				
29-Oct-08	09:30	Sunny	67.4	70.7	63.7		67.4, Measured ≤ Baseline	1				

Location NM4 - Mei Foo Sun Chuen, Phase 5											
						Unit: dB (A) (30)-min)				
Date	Date Time Weather		Measured Noise Level			Baseline Level	Construction Noise Level	Remarks			
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}				
6-Oct-08	10:10	Cloudy	73.1	76.0	68.5		73.1, Measured ≤ Baseline	Dead traffic raise from Ohio			
17-Oct-08	13:45	Cloudy	72.8	74.5	68.0	73.8	72.8, Measured ≤ Baseline	Road traffic noise from Ching			
23-Oct-08	09:35	Sunny	73.8	75.5	68.5	13.0	73.8, Measured ≤ Baseline	Cheung Road was identified as the major noise source.			
29-Oct-08	10:30	Sunny	73.9	77.0	70.0		57.5	major noise source.			

Location NM8a - M/F of Nob Hill										
Date	Time	Weather	Unit: c	IB (A) (3	0-min)	Remarks				
			L _{eq}	L ₁₀	L 90					
6-Oct-08	11:00	Cloudy	73.0	75.0	69.5					
17-Oct-08	14:35	Cloudy	71.8	74.0	69.0	Road traffic noise from Ching Cheung Road				
23-Oct-08	10:10	Sunny	73.7	76.0	69.5	was identified as the major noise source.				
29-Oct-08	13:00	Sunny	73.2	75.5	70.5					

Location NM8b - 3/F of Nob Hill										
Date	Time	Weather	Unit: d	IB (A) (3	0-min)	Remarks				
			L _{eq}	L ₁₀	L 90					
6-Oct-08	13:00	Cloudy	73.6	76.5	70.5	This Station (NM8b) which is strongly				
17-Oct-08	15:15	Cloudy	73.6	75.5	1 70 0	influenced by road traffic noise from Ching Cheung Road. The measurement at this station				
23-Oct-08	10:45	Sunny	74.3	76.0		is for reference purpose, but not for compliance				
29-Oct-08	13:00	Sunny	74.2	77.0	70.5	check for construction noise.				

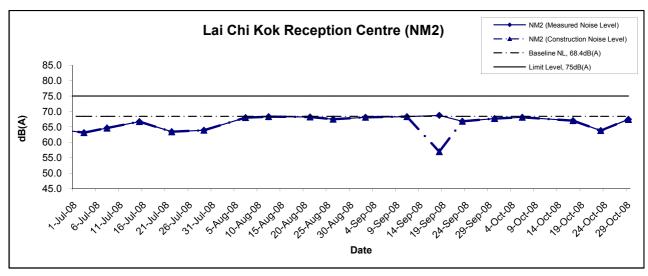
Location NM9 - Hoi Lai Estate									
Date	Time	Weather	Unit: d	IB (A) (3	0-min)	Remarks			
			L _{eq}	L ₁₀	L 90				
6-Oct-08	14:00	Cloudy	67.8	69.5	64.5				
17-Oct-08	16:05	Cloudy	60.8	62.5	57.5				
23-Oct-08	11:20	Sunny	68.0	69.5	65.5	-			
29-Oct-08	15:00	Sunny	66.4	69.0	63.5				

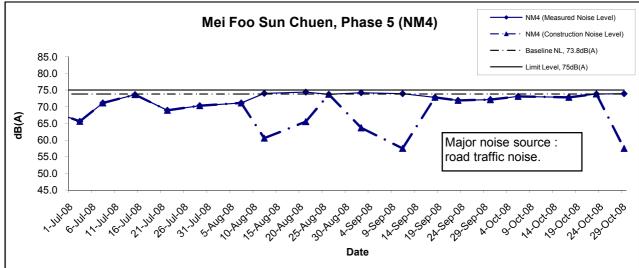
Appendix G - Noise Monitoring Results

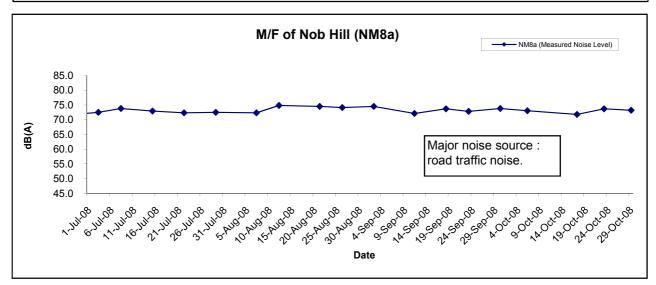
Restricted Hours - 19:00 to 23:00 on normal weekdays

Location NM9 - Hoi Lai Estate									
Dete	T:		dB (A) (5-min)						
Date	Time	Weather	L _{eq}	L ₁₀	L 90	Average L _{eq}			
	19:15		64.5	67.0	61.0				
10-Oct-08	19:20	Cloudy	64.4	67.0	61.0	64.6			
	19:25		64.9	67.5	61.5				
	19:30		62.5	65.0	59.0				
14-Oct-08	19:35	Cloudy	62.0	65.0	59.0	62.2			
	19:40		62.1	65.0	59.0				
	19:00		62.6	65.0	59.5				
21-Oct-08	19:05	Cloudy	62.5	65.0	59.5	62.6			
	19:10		62.8	65.0	59.5				
	19:00		61.7	64.5	58.0				
28-Oct-08	19:05	Cloudy	62.8	65.0	59.0	62.4			
	19:10		62.8	65.0	59.0				









* Construction Noise Level = Measured Noise Level - Baseline Level

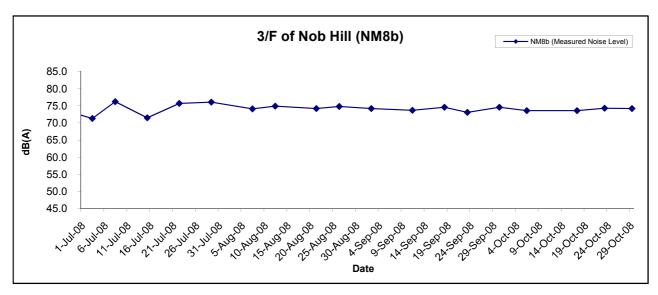
(If the measured noise level is lower than the baseline level, the construction noise level will be taken as the meaured one)

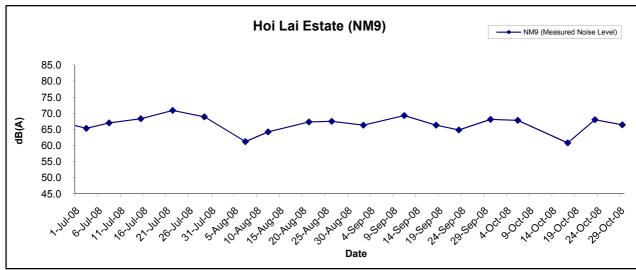
Title Contract HY/2003/01 - Lai Chi Kok Viaduct
Route 8 (previously known as Route 9) between Cheung Sha Wan and
Sha Tin
Graphical Presentation of Construction Noise Monitoring
Results

Scale	N.T.S	No. MA3024
Date		Appendix
	Oct 08	G



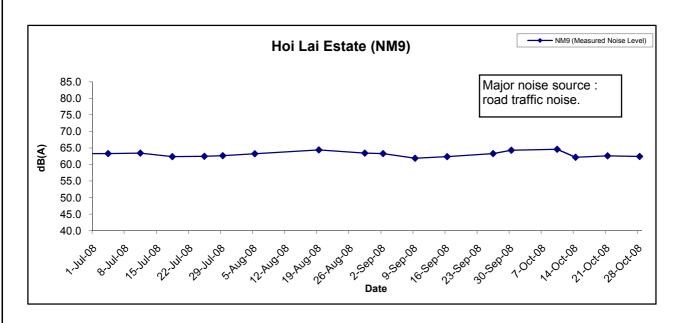
Noise Levels





Title	Contract HY/2003/01 - Lai Chi Kok Viaduct Route 8 (previously known as Route 9) between Cheung Sha Wan and Sha Tin	Scale		Project No. MA3024	CINOTECH
	Graphical Presentation of Construction Noise Monitoring Results	Date	Oct 08	Appendix G	CINOISCU

Restricted Hours (19:00 to 23:00) - Noise Levels



Title Contract HY/2003/01 - Lai Chi Kok Viaduct
Route 8 (previously known as Route 9) between Cheung Sha Wan
and Sha Tin
Graphical Presentation of Construction Noise Monitoring
Results



APPENDIX H SUMMARY OF EXCEEDANCE

Summary of Exceedances Recorded in the Reporting Month

a) Exceedance Report for 1-hr TSP

• No Action/Limit Level exceedance was recorded in the reporting month.

b) Exceedance Report for 24-hr TSP

• No Action/Limit Level exceedance was recorded in the reporting month.

c) Exceedance Report for Construction Noise

• No Action/Limit Level exceedance was recorded in the reporting monthly.

APPENDIX I SITE AUDIT SUMMARY

Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	81008-LCKV
Date	8 October 2008 (Wed)
Time	09:00-10:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	

Ref. No.	Remarks/Observations	Related Item No.
	A. Water Quality	
	No environmental deficiency was identified during the site inspection.	
•	B. Air Quality No environmental deficiency was identified during the site inspection.	
	 C. Noise No environmental deficiency was identified during the site inspection. 	
	D. Waste / Chemical Management	
	No environmental deficiency was identified during the site inspection.	
	F. Others	
	• Follow-up on previous audit (Ref. No.:80930-LCKV), all environmental	
	deficiency was observed to be improved/ rectified by the Contractor	
	during site inspection.	
	• Covering of loaded truck leaving the site was checked during the site	
	inspection. No uncovered truck leaving the construction site was	
	observed without cover.	

	Name	Signature	Date
Recorded by	Tammy Lin	Tanny	8 October 2008
Checked by	Dr. Priscilla Choy		8 October 2008

CINOTECH MA3024 81008_LCKV

Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	81015 -LCKV
Date	15 October 2008 (Wed)
Time	09:30-10:30

	Ref. No.	Non-Compliance	Related Item No.
I	-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
81017L-R01	A. Water Quality Soil on ground of Rest Garden should be sprayed frequently to prevent dust generation.	C10
and Carriage of the second	B. Air Quality No environmental deficiency was identified during the site inspection.	
	C. Noise • No environmental deficiency was identified during the site inspection.	
	D. Waste / Chemical Management	
,	No environmental deficiency was identified during the site inspection.	
	F. Others	
	• Follow-up on previous audit (Ref. No.:81008-LCKV), no environmental deficiency was identified during site inspection.	
	• Covering of loaded truck leaving the site was checked during the site inspection. No uncovered truck leaving the construction site was observed without cover.	

	Name	Signature	Date
Recorded by	Tammy Lin	Janny	15 October 2008
Checked by	Dr. Priscilla Choy	LIZ	15 October 2008

CINOTECH MA3024 81015_LCKV

Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	81022 -LCKV
Date	22 October 2008 (Wed)
Time	09:30-10:30

 Ref. No.	Non-Compliance	Related Item No.
-	None identified	_

Ref. No.	Remarks/Observations	Related Item No.
	A. Water Quality	
	No environmental deficiency was identified during the site inspection.	
	 B. Air Quality No environmental deficiency was identified during the site inspection. 	
	C. Noise No environmental deficiency was identified during the site inspection.	
	D. Waste / Chemical Management	
	No environmental deficiency was identified during the site inspection.	
	F. Others	
-	• Follow-up on previous audit (Ref. No.:81015-LCKV), all environmental	
	deficiency was observed to be improved/ rectified during site inspection.	
	• Covering of loaded truck leaving the site was checked during the site	
	inspection. No uncovered truck leaving the construction site was	
1	observed without cover.	

	Name	Signature	Date
Recorded by	Tammy Lin	Tanny	22 October 2008
Checked by	Dr. Priscilla Choy	WT.	22 October 2008

CINOTECH MA3024 81022_LCKV

Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	81029 -LCKV
Date	29 October 2008 (Wed)
Time	09:30-10:30

Ref. No.	Non-Compliance	Related Item No.
_	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
	A. Water Quality	
,	No environmental deficiency was identified during the site inspection.	
	B. Air Quality No environmental deficiency was identified during the site inspection.	
	C. Noise No environmental deficiency was identified during the site inspection.	
	D. Waste / Chemical Management	
	No environmental deficiency was identified during the site inspection.	
	F. Others	
	• Follow-up on previous audit (Ref. No.:81029-LCKV), no environmental	
	deficiency was observed during site inspection.	
	• Covering of loaded truck leaving the site was checked during the site	
	inspection. No uncovered truck leaving the construction site was	
	observed without cover.	

,	Name	Signature	Date
Recorded by	Tammy Lin	Tommy	29 October 2008
Checked by	Dr. Priscilla Choy	NI	29 October 2008

CINOTECH MA3024 81029_LCKV

APPENDIX J EVENT ACTION PLANS

Appendix J - Event Action Plans

Event/Action Plan for Air Quality

EVENT	ACTION				
EVENT	ET	IEC	ER	Contractor	
ACTION LEVEL					
1. Exceedance for one	1. Identify source	1. Check monitoring data submitted by ET	1. Notify Contractor	1. Rectify any unacceptable practice	
sample	2. Inform ER & IEC	2. Check Contractor's working methods	2. Check monitoring data and Contractor's	2. Amend working methods if	
	3. Repeat measurement to confirm finding		working methods	appropriate	
	4. Increase monitoring frequency to daily				
2. Exceedance for two or	1. Identify source	1. Checking monitoring data submitted by	1. Confirm receipt of notification of failure	1. Submit proposals for remedial	
more consecutive samples	2. Inform ER & IEC	ET	in writing	actions to ER within 3 working days	
	3. Repeat measurement to confirm findings	2. Check Contractor's working methods	2. Notify Contractor	of notification	
	4. Increase monitoring frequency to daily	3. Discuss with ET and Contractor on	3. Check Contractor's working methods	2. Implement the agreed proposals	
	5. Discuss with ER & for remedial actions	possible remedial measure	4. Discuss with ET, IEC and Contractor on	3. Amend proposal if appropriate	
	required	4. Advise the ER & ET on the effectiveness	proposed remedial actions		
	6. If exceedance continues, arrange	of the proposed remedial measures	5. Ensure remedial actions properly		
	meeting with ER & IEC	5. Supervise the implementation of the	implemented		
	7. If exceedance stops, cease additional	remedial measures			
	monitoring				
LIMIT LEVEL					
1. Exceedance for one	1. Identify source	1. Checking monitoring data submitted by	1. Confirm receipt of notification of failure	1. Take immediate action to avoid	
sample	2. Inform ER & IEC and EPD	ET	in writing	further exceedance	
	3. Repeat measurement to confirm finding	2. Check Contractor's working methods	2. Notify Contractor	2. Submit proposals for remedial	
	4. Increase monitoring frequency to daily	3. Discuss with ET and Contractor on	3. Check Contractor's working methods	actions to ER within 3 working days	
	5. Assess effectiveness of Contractor's	possible remedial measure	4. Discuss with ET, IEC and Contractor on	of notification	

EVENT	ACTION			
EVENI	ET	IEC	ER	Contractor
	remedial actions and keep EPD and ER &	4. Advise the ER & ET on the effectiveness	proposed remedial actions	3. Implement the agreed proposals
	IEC informed of the results	of the proposed remedial measures	5. Ensure remedial actions properly	4. Amend proposal if appropriate
		5. Supervise the implementation of the	implemented	
		remedial measures		
2. Exceedance for two or	1. Identify source	1. Checking monitoring data submitted by	1. Confirm receipt of notification of failure	1. Take immediate action to avoid
more consecutive samples	2. Inform ER, IEC, Contractor and EPD	ET	in writing	further exceedance
	the cause & actions taken for the	2. Discuss amongst ER, ET and Contractor	2. Notify Contractor	2. Submit proposals for remedial
	exceedances	on possible remedial measures	3. Carry out analysis of Contractor's	actions to IEC, ER within 3 working
	3. Repeat measurement to confirm findings	3. Review Contractor's remedial measures	working procedures to determine possible	days of notification
	4. Increase monitoring frequency to daily	whenever necessary to ensure their	mitigation to be implemented	3. Implement the agreed proposals
	5. Investigate the causes of exceedance	effectiveness and advise the ER	4. Discuss amongst ET, IEC and the	4. Resubmit proposals if problem
	6. Carry out analysis of contractor's	accordingly	Contractor on proposed remedial actions	still not under control
	working procedures to determine possible	4. Supervise the implementation of the	5. In consultation with IEC, agree with the	5. Stop the relevant portion of works
	mitigation to be implemented.	remedial measures	contractor remedial measures to be	as determined by the ER until the
	7. Arrange meeting with EPD, IEC and ER		implemented	exceedance is abated
	to discuss the remedial actions to be taken		6. Ensure remedial measure are properly	
	8. Assess effectiveness of Contractor's		implemented	
	remedial actions and keep EPD and ER &		7. If exceedance continues, consider what	
	IEC informed of the results		portion of the work is responsible and	
	9. If exceedance stops, cease additional		instruct the Contractor to stop that portion	
	monitoring		of work until the exceedance is abated	

Event/Action Plan for Construction Noise

Exceedance		ACTIO	N	
Exceedance	ET	.IEC	ER	Contractor
Action Level	1. Discuss with the IEC and ER and seek to	1. Review the analyzed results submitted	1. Confirm receipt of notification of	Submit proposals for remedial
	identify potential noise source	by the ET	complaint and notify Contractor	actions to ER within three working
			immediately	days of notification
	2. Undertake noise measurement to	2. Review the proposed remedial measures	2. Check monitoring data trends and	2. Amend proposals if required by
	confirm the validity of complaint	by the Contractor and advise the ER & ET	Contractor's working methods	the Engineer
		accordingly		
	3. Inform ER&IEC in writing	3. Supervise the implementation of	3. Remind the Contractor of his contractual	3. Implement the remedial actions
	Discuss remedial actions required with	remedial measures	obligations and discuss with ET, IEC and	immediately upon instruction
	ER&IEC if an exceedance is recorded		Contractor on proposed remedial actions	
	4. Increase monitoring frequency to		4. Assess the efficacy of remedial actions	4. Liaise with the ER to optimize the
	demonstrate efficacy of remedial measures		and keep the Contractor informed	effectiveness of the agreed
				mitigation
	5. If exceedance continues, meet with		5. Inform complainant of actions taken	5. Amend proposal if appropriate
	ER&IEC to review implementation of			
	appropriate mitigation measures.			
	6. If exceedance stops, cease additional			
	monitoring			

Exceedance		ACTIO	N	
Exceedance	ET	IEC	ER	Contractor
Limit Level	1. Repeat measurement to confirm findings	1. Check monitoring data submitted by ET	1. Confirm receipt of notification of	1. Take immediate action to avoid
			exceedance and notify Contractor	further exceedance
	2. Investigate the cause of the exceedance	2. Review Contractor's remedial actions to	2. Check monitoring data trends and	2. Submit proposals for remedial
	and identify the main source(s) of impact	assure their effectiveness and advise the	Contractor's working methods	actions to ER immediately not more
		ER &ET accordingly		than 3 working days of notification
	3. Inform ER&IEC and EPD in writing	3. Supervise the implementation of the	3. Discuss with ET, IEC and Contractor on	3. Amend proposals if required by
		remedial measures	proposed remedial actions to be	the ER
			implemented	
	4. Discuss remedial actions required with		4. Assess the efficacy of remedial actions	4. Implement remedial actions
	ER&IEC		and keep the Contractor informed	immediately upon instruction
	5. Increase monitoring frequency to		5. If exceedance continuous, consider what	5. Liaise with the ER to optimize the
	demonstrate efficacy of remedial measures		portion of the work is responsible and	effectiveness of the agreed
			instruct the Contractor to stop that portion	mitigation
			of work until the exceedance is aborted	
	6. Assess efficacy of remedial actions and			6. Resubmit proposals if problem
	keep ER & IEC informed of the results			still not under control
	7. If exceedance continues, meet with			7. Stop the relevant portion of works
	ER&IEC to identify appropriate mitigation			as determined by the ER until the
	measures			exceedance is aborted
	8. If exceedance stops, cease additional			
	monitoring			

APPENDIX K ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

Appendix K - Summary of Environmental Mitigation Implementation Schedule

Types of Impacts	Mitigation Measures	Status
-	 Any stockpile of dusty materials or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water so as to maintain the entire surface wet. 	*
	 A stockpile of dusty materials should not extend beyond the pedestrian barriers, fencing or traffic cones. 	٨
	 Vehicle washing facilities should be provided at every exit point. 	٨
	• The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores.	^
	• Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit.	^
Construction Dust	 Every main haul road should be sprayed with water or a dust suppression chemical so as to maintain the entire road surface wet. 	^
Dust	• The portion of any road leading only to a construction site that is within 30m of a discernible or designated vehicle entrance or exit should be kept clear of dusty materials.	^
	• Any stockpile of dusty materials should be either covered entirely be impervious sheeting, placed in an area sheltered on the top and the 3 sides or sprayed with water or a dust suppression chemical so as to maintain the entire surface wet.	*
	 All dusty materials should be sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet. 	۸
	 Every vehicle should be washed to remove any dusty materials from its body and wheels immediately before leaving a construction site. 	۸
	• The working area of any excavation should be sprayed with water or a dust suppression chemical immediately before, during and immediately after the operation so as to maintain the entire surface wet.	۸
	Only well-maintained plant should be operated on –site and plant should be serviced regularly during the construction works.	٨
	 Machines and plant that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum. 	۸
	• Plant know to emit noise strongly in one direction, should where possible, be orientated to direct noise away from the NSRS.	٨
Construction	 Mobile plant should be sited as far away from NSRs as possible. 	^
Noise	 Material stockpiles and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities. 	^
	Use quite plant and Working Method	٨
	Reduce the number of plant operating in critical areas close NSRs.	^
	Construct temporary and movable noise barriers	٨

Water Quality	Construction Runoff and Drainage	
	Use of sediment traps and the adequate maintenance of drainage systems to prevent flooding and overflow.	^
	Boundaries of critical areas of earthworks should be marked and surrounded by dykes or embankments for flood protection.	
	Temporary ditches should be provided to facilities runoff discharge into the appropriate watercourses, via a silt retention pond.	۸
	Permanent drainage channels should incorporate sediment basins or traps and baffles to enhance deposition rates.	
	 All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge should be adequately designed for the controlled release of storm flows. All sediment traps should be regularly cleaned and maintained. The 	
	temporarily diverted drainage should be reinstated to its original condition when the construction works has finished or the	^
	temporary diversion is no longer required	
	• Sand silt in the wash water from the wheel washing facilities, which ensure no earth, mud and debris is deposited on roads,	
	should be settled out the removed before discharging into storm drains. A section of the road between the wheel washing bay	^
	and the public road should be paved with backfill to prevent wash water or other site runoff form entering public road drains.	
	Oil interceptors should be provided in the drainage system and regularly emptied to prevent the release of oils and grease into	
	the storm water drainage system after accidental spillage. The interceptor should have a bypass to prevent flushing during	N/A
	periods of heavy rain.	^
	• Catchpits and perimeter channels shall be constructed in advance of site formation works and earthworks.	,,
	• Silt removal facilities, channels and manholes shall be suitably maintained with the deposited silt and grit being removed at least once a week, and at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all	^
	times.	
	• Earthworks final surfaces shall be well compacted and the subsequent permanent work or surface protection shall be carried	
	out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate intercepting channels	٨
	shall be provided along the site boundary or at the locations agreed with the ET Leader. Rainwater pumped out from trenches or foundation excavations shall be discharged into silt removal facilities before discharge into storm drains.	
	All generators, fuel and oil storage shall be within bunded areas. Drainage from the areas shall be connected to storm drains	٨
	via a petrol interceptor.	
	Tunnelling Work	
	• Temporary open storage of excavated materials should be covered with tarpaulin or similar fabric during rainstorms. Any	NT/A
	washout of construction or excavated materials form the drill and blast tunnelling work should be diverted to the drainage system via appropriate sediment traps.	N/A
	 Ground water pumped out of tunnels should be discharged into the drainage channels which incorporated sediment traps to 	
	enhance deposition rates and to remove silt.	N/A
	Spend grouts used in diaphragm wall construction should be collected in a separate slurry collection system, reconditioned	27/4
	and reused wherever practicable. The disposal of used grouting materials will only be permitted if it is treated to the TM	N/A
	standards before discharge to the storm drains or disposal to landfill. General Construction Activities	
	OCHETHE COMMINGUITHUM	

	Debris and rubbish on site should be collected, handled and disposed of properly to avoid entering the water column and cause water quality impacts.	^
	• All fuel tanks and storage areas will be provided with locks and be located on sealed areas (within bunds of a capacity equal to 110% of the storage capacity of the largest tank or 20% by volume of the fuel stored in that areas, whichever in the greatest).	۸
	Sewage Effluent	
	• Construction work force sewage discharges form fixed toilet facilities on-site should be connected to the nearby existing trunk sewer wherever feasible. However, for areas where existing trunk sewer is not available, it is recommended that appropriate and adequate on site portable chemical toilets should be provided by a licensed contractor who will be responsible for appropriate disposal and maintenance of these facilities.	٨
	• It is considered that sewage discharges could also be treated by on-site septic tanks and soakaway. Minimum clearance away form streams and catchments and other requirements for the proposed septic tank and soakaway should be referred to EPD's Practice Note for Professional Persons, Drainage Plans.	N/A
Waste	General	
	 Training and instruction shall be given at a site to construction staff to increase awareness and draw attention to waste management issues and the need to minimise waste generation. The training requirement shall be included in the site waste management plan. 	^
	Storage, Collection and Transportation of Waste	
	 Wastes shall be handled and stored in a manner to ensure that they are held securely without loss or leakage. 	^
	 Authorised or licensed waste hauliers shall be used and they shall only collect wastes prescribed by their permits. 	^
	Waste shall be removed on a daily basis.	^
	Waste storage area shall be maintained and cleaned on a daily basis.	^
	 Windblown litter and dust during transportation shall be minimised by either covering trucks or transporting wastes in enclosed containers. 	^
	Obtain necessary waste disposal permits from the appropriate authorities if they are required.	^
	Wastes shall be disposed of at licensed waste disposal facilities.	^
	• Develop procedure such as ticketing system to facilitate tracking of loads, particularly for chemical waste, and to ensure that illegal disposal of wastes does not occur.	٨
	 Maintain records of the quantities of wastes generated, recycled and disposed. 	٨
	Surplus Excavated Materials	
	• Due to the high risk of loose material being washed into the existing nullah, stockpile materials should be properly compacted and covered from water erosion and located at least 10m away from the nullah wall.	٨
	Construction and Demolition (C&D) Waste	
	 Careful design, planning and good site management shall be adopted to minimise over-ordering and generation of waste materials such as concrete grouts. 	٨
	The handling and disposal of bentonite slurries shall be undertaken in accordance with Practice Note for Professional Persons – Construction Site Drainage (ProPECC PN 1/94) on construction site drainage.	N/A

• Construction and demolition (C&D) material shall be segregated to inert and non-inert parts. The inert portion shall re-used at areas of reclamation or land formation, or to public filling area shall such allocation is deemed necessary. The non-inert portion shall be disposed of to landfill.	^
Chemical Waste	
• Chemical waste that is produce during construction shall be handled in accordance with the Cod of Practice on the Packaging, Handling and Storage of Chemical Wastes.	٨
 Containers used for the storage of chemical wastes should: a. Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; b. Have a capacity of less than 450 litres unless the specifications have been approved by the EPD; c. Display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Chemical Waste Regulations. 	^
 The storage area for chemical wastes should: a. Be clearly labelled and used solely for the storage of chemical waste; b. Be enclosed on at least 3 sides; c. Have an impermeable floor and bunding of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is largest; d. Have adequate ventilation; e. Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed as chemical waste if necessary); f. Be arranged so that incompatible materials are adequately separated. Disposal of chemical waste shall be via a licensed waste collector; and to a facility licensed to receive chemical waste; or a reuser of the waste (under approval from EPD). 	^
General Refuse	
 General refuse generated on-site shall be stored in enclosed bins or compaction unit separate from C&D and chemical wastes. A reputable waste collector shall be employed by the contractor to remove general refuse from the site, separately from C&D and chemical wastes, on a daily for every second day basis to minimise odour, pest and litter impacts. The burning of refuse on construction sites is prohibited by law. 	*
Reusable rather than disposable dishware shall be used if feasible.	۸

	• A sediment barrier shall be erected to minimize stream sedimentation at downstream of the project boundary of the Toll Plaza.	N/A
	 Conduct a tree survey before commencement of the construction work. 	^
	• All measures recommended in the approved landscape proposals under Condition 2.4 in EP above shall be fully implemented in accordance with the details and time schedule set out in the submission.	^
Ecology	 Loss of the adjacent woodland due to temporary land take shall be returned to the original status immediately. 	N/A
	Wild and uncontrolled fire shall be strictly prohibited	^
	• Fences shall be erected along the boundary of the construction sites at the Toll Plaza before commencement of works, to prevent tipping, vehicle movements, and encroachment of personnel onto adjacent wooded areas.	N/A
	• Landscape mitigation measure 1 (LMM1) – Construction programming and management. The periphery of the works areas at street level shall be managed so that they do not appear cluttered, untidy and unattractive and inconvenient to pedestrians. For example, all hoarding shall be colorfully designed with interesting motifs demonstrating the work of Highways Department. Hoardings with bland colours shall be avoided.	٨
Landscape and Visual Impact	• Landscape mitigation measure 2 (LMM2) – Advanced planting and erosion control works. Where possible, the transplantation of existing valuable trees, the stockpiling of topsoil, new planting and erosion control works shall be carried out as early as possible in the construction period instead of at the end. This will assist in maximizing the time for carrying out transplantation and new planting, resulting in a higher success rate for the survival of transplantation and new planting, resulting in a higher success rate for the survival of transplanted trees and the establishment of new screen trees. The stockpiling of topsoil will provide an abundant use of on-site material for growing media. During detailed design, the issue of stockpiling of topsoil in a manner that would avoid washing into the drainage scheme should be examined comprehensively.	۸
	 Measurement of vibration would also be carried out on a need basis during the piling work 	^

Remarks:

Compliance of mitigation measure; Not Applicable; ٨

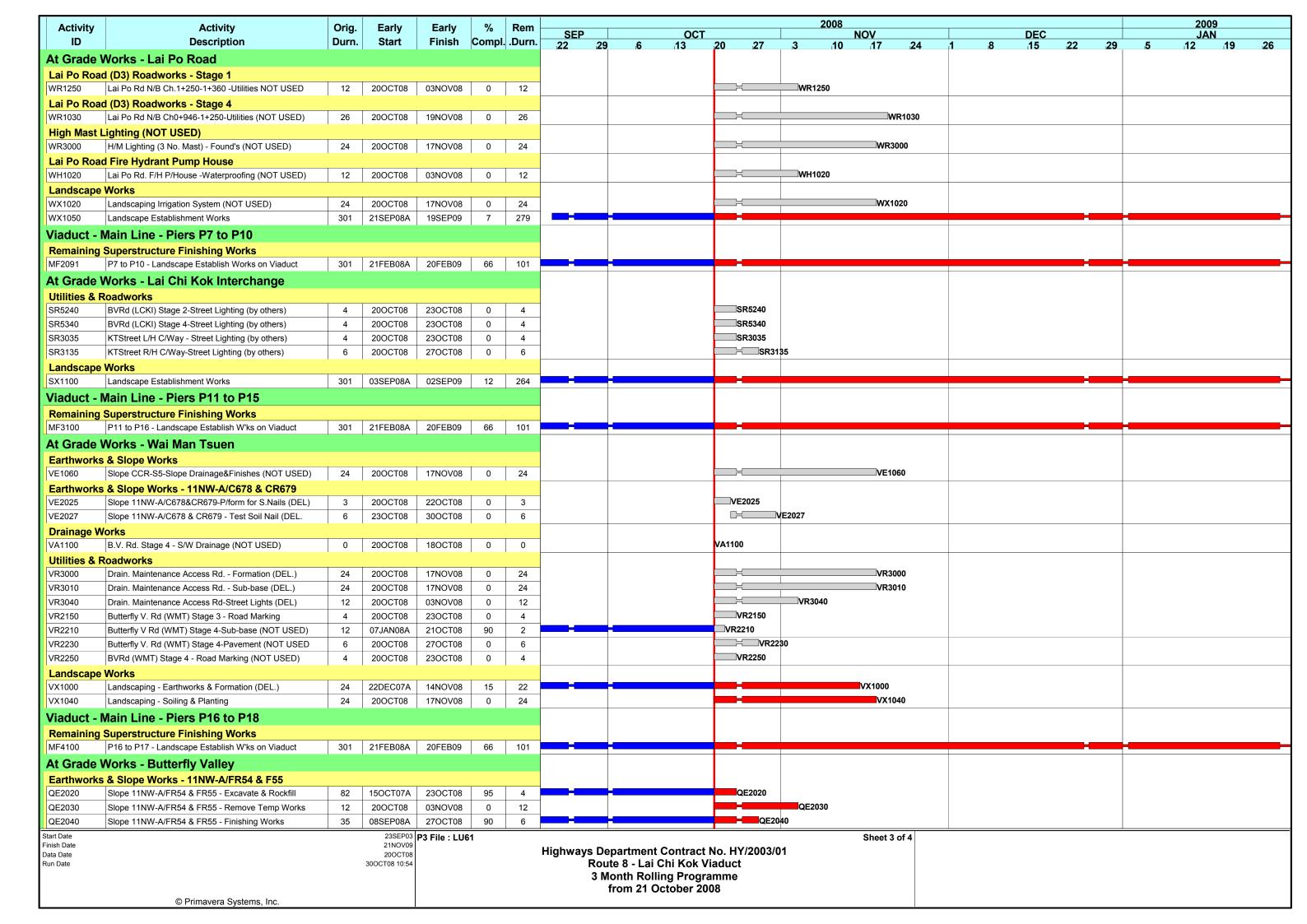
Non-compliance of mitigation measure; Non-compliance but rectified by the contractor X

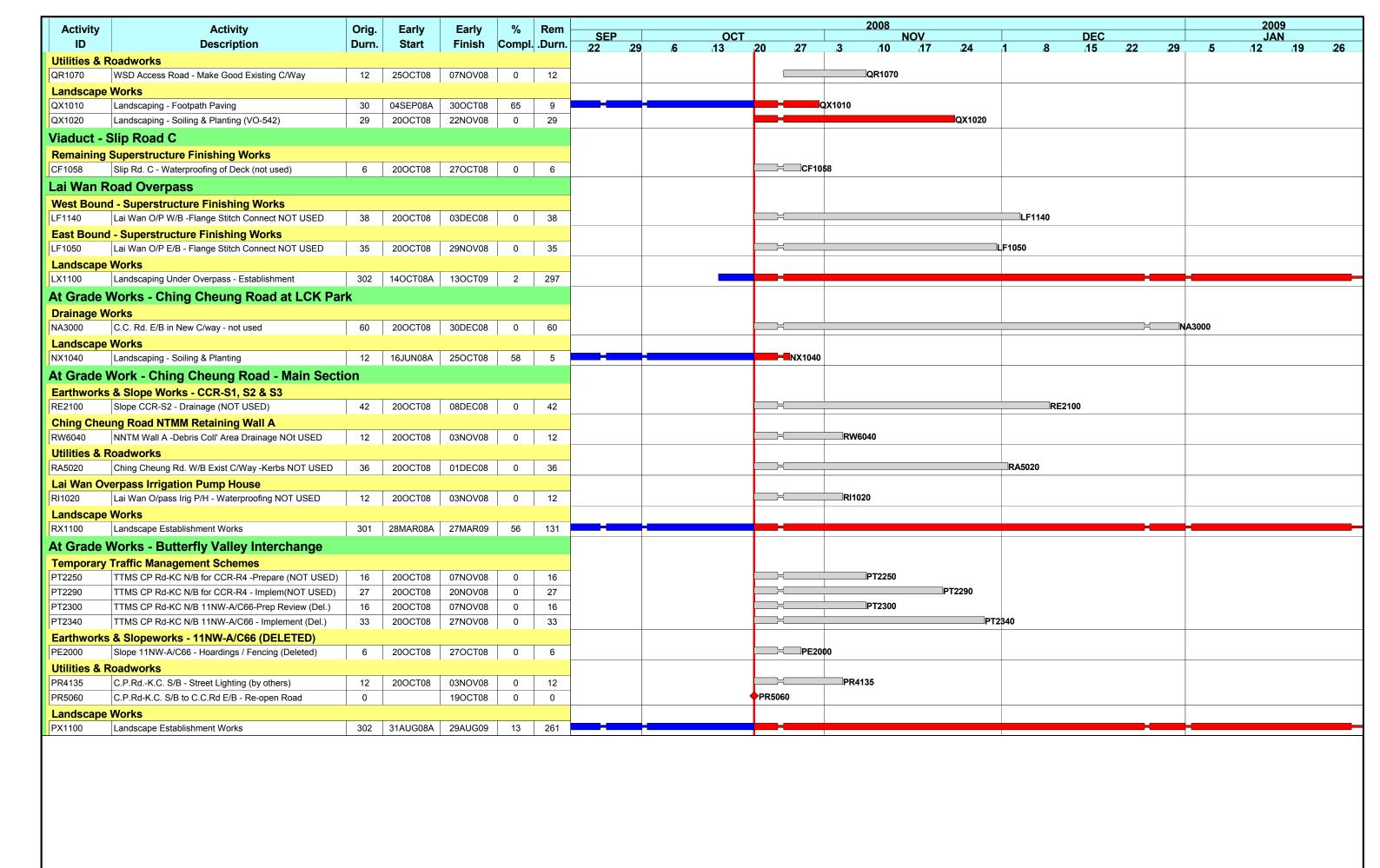
N/A

APPENDIX L CONSTRUCTION PROGRAMME

A adjustes a	A objects -	0-1-	Early.	Earle.	0/	Parre					2008									2009		
Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	% Compl	Rem	SEP	OC ⁻				NOV	0.1			DEC			_	JAN		00
	ries & General Requirments	Duili.	Gtart	1 1111311	Compl		22 29	6 13	20 27	.3	10	₁ 17	24	1	8	15	22	29	5	12	₁19	26
Key Dates	nes & General Requirments																					
KD1090	KD-9: Completion of Section 7 of the Works	0		25OCT08*	0	0	-		♦ KD109	90												
Portion Ac				2000.00																		-
PD1140	Access to Portion F1 (NOT USED)	0	20OCT08*		0	0			PD1140													
Portion Va																						
VD1000	Vacate Portion A	0		19OCT08*	0	0			VD1000													
VD1010	Vacate Portion B	0		19OCT08*	0	0			VD1010													
VD1020	Vacate Portion C	0		19OCT08*	0	0			♦ VD1020													
VD1030	Vacate Portion D1	0		19OCT08*	0	0			♦ VD1030													
VD1040	Vacate Portion D2	0		19OCT08*	0	0			VD1040													
VD1050	Vacate Portion E1	0		19OCT08*	0	0			♦ VD1050													
VD1060	Vacate Portion E2	0		19OCT08*	0	0			VD1060													
VD1080	Vacate Portion E4	0		19OCT08*	0	0			VD1080													
VD1100	Vacate Portion G1	0		19OCT08*	0	0	-		VD1100													
VD1110	Vacate Portion F1	0		19OCT08*	0	0			VD1110													
VD1120	Vacate Portion F2	0		19OCT08*	0	0			VD1120													
VD1130	Vacate Portion F3	0		19OCT08*	0	0			VD1130													
VD1140	Vacate Portion G2	0		19OCT08*	0	0			VD1140													
VD1150	Vacate Portion G3	0		19OCT08*	0	0	-		VD1150													
VD1160	Vacate Portion G4	0		19OCT08*	0	0			VD1160 VD1170													
VD1170	Vacate Portion K1 Vacate Portion K2 & K3	0		19OCT08*	0	0			VD1170 VD1180													
VD1180 VD1190	Vacate Portion K2 & K3 Vacate Portion K4 & K8	0		19OCT08*	0	0	-		VD1190													
VD1190 VD1200	Vacate Portion K5 & K6	0		19OCT08*	0	0	+		VD1200													
VD1200 VD1220	Vacate Portion K7, K9, K10	0		19OCT08*	0	0	-		VD1220													
VD1220 VD1250	Vacate Portion W	0		19OCT08*	0	0			VD1250													
VD1260	Vacate Portion R1	0		19OCT08*	0	0	-		VD1260													
Initial Subn				1000100																		-
SU1075	Continuous Upating of Works & 3 Month Progs	927	09OCT03A	22NOV08	96	29							SU1075									
'	Femporary Works																					
	Design Temp Works Feature11NW-A/C66 (NOT USE	ED) 24	20OCT08	17NOV08	0	24						TW1	370									
Monitoring	& Instrumentation - Existing Features	,																				
IM1005	Monitoring @ Sewage Pumping Station	1,402*	01MAR04A	25OCT08	18	5*			■IM1005	;												
IM1008	Monitoring @ Open Storage	1,401*	02MAR04A	25OCT08	18	5*			■IM1008	3												
IM1015	Monitoring @ PCCW Building	1,402*	01MAR04A	25OCT08	18	5*			── IM1015	;												
IM1025	Monitoring in @ Existing Footbridge	1,398*	05MAR04A	25OCT08	17	5*			IM1025	;												
IM1035	Monitoring @ W. Chandler Bldg.	1,397*	06MAR04A	25OCT08	17	5*			- IM1035													
IM1045	Monitoring @ Tong Yuen Factory Bdlg	1,399*	04MAR04A	25OCT08	18	5*			- IM1045													
IM1055	Monitoring @ LCK Off-take Station	1,399*	04MAR04A	25OCT08	18	5*			IM1055													
IM1065	Monitoring @ Hop Hing Ind. Bldg.	1,399*	04MAR04A	25OCT08	18	5*			IM1065													
IM1075	Monitoring @ KC Rd. Flyover Str. K3	1,375*	01APR04A	25OCT08	15	5*			IM1075													
IM1085	Monitoring @ CLP Link Station	1,399*	04MAR04A	25OCT08	18	5*			IM1085													
IM1095	Monitoring @ LCK Reception Ctr.	1,361*	19APR04A	25OCT08	14	5*			IM1095													
IM2005	Monitoring @ LCKP Indoor Games Hall	1,384*	22MAR04A	25OCT08	16	5*			IM2005													
IM2015	Monitoring @ LCK Public Library	1,379*	27MAR04A	25OCT08	16	5* 5*			IM2015													
IM2025 IM2035	Monitoring @ Mei Foo Sun Chuen	1,378*	29MAR04A 29MAR04A	25OCT08 25OCT08	17	5* 5*			IM2025													
IM2035	Monitoring @ CLP Lai Chi Kok Sub-Station Monitoring @ CLP Pylon A	1,378* 1,361*	19APR04A	25OCT08	15 14	5*			IM2035													
IM2045	Monitoring @ CLP Pylon A Monitoring @ Nob Hill Development	1,361*	19APR04A 22MAR04A	25OCT08	16	5*			IM2045													
IM2075	Monitoring @ Lai Wan Road Overpass	1,330*	26MAY04A	25OCT08	10	5*			IM2075													
IM2085	Monitoring @ CLP H/ways Structure K40C	1,375*	01APR04A	25OCT08	15	5*			IM2085													
IM2095	Monitoring @ CLP H/ways Structure K2	1,375*	01APR04A	25OCT08	15	5*			IM2095													
IM2105	Monitoring @ CLP H/ways Structure K116	1,378*	29MAR04A	25OCT08	15	5*			- IM2105													
IM2135	Monitoring @ Along Lai Wan Road	1,361*	19APR04A	25OCT08	15	5*			- IM2135													
Start Date		.,		P3 File : LU6			1					Sheet 1	of 4									
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IM3010	& Instrumentation - New Works Install Instrumentation @ Cut Slope CCR-S1	12	20OCT08	03NOV08	0	12					IM3010									
IM3015	Monitoring @ Cut Slope CCR-S1	5*	200CT08	25OCT08	0	5*				-JIM3015										
IM3020	Install Instrumentation @ Cut Slope CCR-S2	12	200CT08	03NOV08	0	12					IM3020									
IM3025	Monitoring @ Cut Slope CCR-S2	5*	20OCT08	25OCT08	0	5*				————IM3025										
IM3030	Install Instrumentation @ Cut Slope CCR-S3	12	20OCT08	03NOV08	0	12					IM3030									
IM3035	Monitoring @ Cut Slope CCR-S3	5*	20OCT08	25OCT08	0	5*				———IM3035										
IM3040	Install Instrumentation @ Cut Slope CCR-S4	12	20OCT08	03NOV08	0	12					IM3040									
IM3045	Monitoring @ Cut Slope CCR-S4	5*	20OCT08	25OCT08	0	5*				—— ⊢ □IM3045										
IM3050	Install Instrumentation @ Cut Slope CCR-S5	12	20OCT08	03NOV08	0	12					IM3050									
IM3055	Monitoring @ Cut Slope CCR-S5	5*	20OCT08	25OCT08	0	5*				———IM3055										
IM3060	Install Instrumentation @ Cut Slope CCR-S6	12	20OCT08	03NOV08	0	12					IM3060									
IM3065	Monitoring @ Cut Slope CCR-S6	5*	20OCT08	25OCT08	0	5*				-□IM3065										
IM3080	Install Instrumentation @ Slope 11NW-A/C26	12	20OCT08	03NOV08	0	12				IM3085	IM3080									
IM3085 IM3090	Monitoring @ Slope 11NW-A/C26	5*	20OCT08 25OCT08	25OCT08 07NOV08	0	5* 12					IM309	20								
IM3095	Install Instrumentation @ Slope 11NW-A/FR54 & 55 Monitoring @ Slope 11NW-A/FR54 & 55	12 1*	25OCT08	25OCT08	0	1*				□IM3095	IIVIOU	7 0								
IM3110	Install Instrumentation @ Slip Road A Embankment	12	250CT08 200CT08	03NOV08	0	12					IM3110									
IM3115	Monitoring @ Slip Road A Embankment	5*	200CT08	25OCT08	0	5*														
IM3120	Install Instrumentation @ Slip Road B Embankment	12	200CT08	03NOV08	0	12				-	IM3120									
IM3125	Monitoring @ Slip Road B Embankment	5*	20OCT08	25OCT08	0	5*				IM3125										
IM3130	Install Instrumentation @ Piers P1 to P6	12	20OCT08	03NOV08	0	12					IM3130									
IM3135	Monitoring @ Piers P1 to P6	5*	20OCT08	25OCT08	0	5*				—— ⊢ ⊒IM3135										
IM3140	Install Instrumentation @ Piers P7 to P10	12	20OCT08	03NOV08	0	12					IM3140									
IM3145	Monitoring @ Piers P7 to P10	5*	20OCT08	25OCT08	0	5*				————IM3145										
IM3150	Install Instrumentation @ Piers P11 to P15	12	20OCT08	03NOV08	0	12					IM3150									
IM3155	Monitoring @ Piers P11 to P15	5*	20OCT08	25OCT08	0	5*				——IM3155										
IM3160	Install Instrumentation @ Piers P16 to P18	12	20OCT08	03NOV08	0	12					■ IM3160									
IM3165	Monitoring @ Piers P16 to P18	5*	20OCT08	25OCT08	0	5*				-JIM3165	IM2470									
IM3170	Install Instrumentation @ Piers P19 to Abut. M	12 5*	20OCT08	03NOV08 25OCT08	0	12 5*				IM3175	■ IM3170									
IM3175 IM3180	Monitoring @ Piers P19 to Abut. M Install Instrumentation @ Piers on Slip Road A	12	20OCT08 20OCT08	03NOV08	0	12					IM3180									
IM3185	Monitoring @ Piers on Slip Road A	5*	200CT08	25OCT08	0	5*				—————————————————————————————————————										
IM3190	Install Instrumentation @ Piers on Slip Road B	12	20OCT08	03NOV08	0	12					IM3190									
IM3195	Monitoring @ Piers on Slip Road B	5*	20OCT08	25OCT08	0	5*				—— ⊢ ⊒IM3195										
IM3200	Install Instrumentation @ Piers on Slip Road C	12	20OCT08	03NOV08	0	12					IM3200									
IM3205	Monitoring @ Piers on Slip Road C	5*	20OCT08	25OCT08	0	5*				⊢□IM3205										
IM3210	Install Instrumentation @ Piers on Slip Road D	12	20OCT08	03NOV08	0	12					IM3210									
IM3215	Monitoring @ Piers on Slip Road D	5*	20OCT08	25OCT08	0	5*														
Procurem	ent																			
Signage																				
SG2000	Signage - Award of Sub-contract (NOT USED)	0	20OCT08		0	0			<	SG2000										
SG2010	Signage - Shop Drawings (NOT USED)	50	20OCT08	25OCT08	0	5				SG2010										
	Lighting (NOT USED)	15	0000777	4505000												1844000				
HM1000	High Mast Lighting -Foundation Design (NOT USED)	48	20OCT08	15DEC08	0	48										HM1000				
	Main Line - Piers PA to P6																			
	Superstructure Finishing Works																			
MF1100	P6 - Landscape Establishment Works on Viaduct	301	21FEB08A	20FEB09	66	101														
	Slip Road A																			
	Superstructure Finishing Works	45	0000777	001101155		40					AF40F0									
AF1070	Slip Rd. A - Viaduct Road Lighting (by Others)	12	20OCT08	03NOV08	0	12					AF1070									
	Slip Road B																			
	Superstructure Finishing Works										P= 4.55									
BF1085	Slip Rd. B - Viaduct Road Lighting (by Others)	12	20OCT08	03NOV08	0	12					BF1085									
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APPENDIX M COMPLAINT LOG

Appendix M - Complaint Log

from the R8 LCKV Project at the oscillator was started on 19 March 2004, which was two days	Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
work areas near Nob Hill. Mr. Kevin Tse mentioned that residents living in Nob Hill have greatly been affected by the noise impacts generating from the R8-LCKV construction works. He also requested relevant government departments to consider installing noise barrier along Ching Cheung Road and to work out possible measures to minimize the noise nuisances to the residents living in the vicinity. after the issue date of this complaint, so this activity was not considered in this report. According to the EM&A Manuals, Nob Hill was not selected as Noise Monitoring Location (NML) for the Project. Therefore, no direct noise monitoring data could be provided for the complaint investigation. However, there was no noise level exceedance recorded at the nearby NML (NM4 – Mei Foo Sun Chuen, Phase 5) since the commencement of the project according to ET's inventory. During ET's weekly environmental site inspections on 3, 10, 17 March 2004, no serious noise nuisance induced by the Project works was observed at the sites near Nob Hill. Based on the joint site visit with the representative of HyD, IEC,				Kwai Tsing District Officer (KTDO) recently received a public noise complaint about construction noise generated from the Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project, near Nob Hill, Lai Chi Kok. KTDO referred the complaint to the Highways Department (HyD) on the same day. HyD subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 18 March 2004. The complaint was raised by the Citybase Property Management Ltd. (the management company of Nob Hill) and the Secretarty of Nob Hill Owners Committee (Mr. Kevin Tse) about construction noise generated from the R8-LCKV Project at the work areas near Nob Hill. Mr. Kevin Tse mentioned that residents living in Nob Hill have greatly been affected by the noise impacts generating from the R8-LCKV construction works. He also requested relevant government departments to consider installing noise barrier along Ching Cheung Road and to work out possible measures to minimize the noise nuisances to the residents	Based on the information provided by the ER, the construction activities conducted in the vicinity of Nob Hill in the period between 2 and 18 March 2004 were: Item 1 – Breaking off existing planter and excavate trial trench to expose underground utilities (using one to two backhoes) Item 2 – Erect rock fall fence & forming platform for predrilling (using one backhoe and occasionally one crane lorry) Item 4 – Excavate further to expose all underground utilities (using hand tools) Item 5 – Pre-drilling works (using one drilling rig) Considering the scale of work and the PMEs adopted, the ET believed that the construction noise impact at Nob Hill from the above construction activities of R8-LCKV was not significant. The bored piling work (Item 3) using one crawler crane and one oscillator was started on 19 March 2004, which was two days after the issue date of this complaint, so this activity was not considered in this report. According to the EM&A Manuals, Nob Hill was not selected as Noise Monitoring Location (NML) for the Project. Therefore, no direct noise monitoring data could be provided for the complaint investigation. However, there was no noise level exceedance recorded at the nearby NML (NM4 – Mei Foo Sun Chuen, Phase 5) since the commencement of the project according to ET's inventory. During ET's weekly environmental site inspections on 3, 10, 17 March 2004, no serious noise nuisance induced by the Project works was observed at the sites near Nob Hill.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				Cheung Road, which is located very close to this building, especially at or above the Podium Floor (i.e. 5/F).	
				Based on the information obtained, this noise complaint is not considered due to the construction activities of the Project. Nevertheless, the Contractor was recommended to adopt good site practice to minimize the construction noise, such as: To space out noisy equipment and position it as far away as possible from the sensitive receivers; To avoid concurrent uses of noisy equipment near the sensitive area; To ensure the equipment are maintaining in good operation condition; and To turned off any idle equipment on site.	
				Adding to that, ET is proposed to install one to two noise monitoring stations at Nob Hill in order to monitor the noise impact generated from the R8-LCKV Project to the resident of Nob Hill or the nearby buildings.	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
40330	Site Areas near Nob Hill	30 March 2004	Highways Department (HyD) recently received a public noise complaint about construction noise generated from the Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project, near Nob Hill, Lai Chi Kok. HyD referred the complaint to the RSS and subsequently referred to the ET Leader of the Project on 30 March 2004. The complaint was raised by Mr. Yau, the Office of DCV Member Mr. Cheung Wing Shum, regarding the high pitch construction noise generated at the R8-LCKV site which cause serious nuisance to the residents at Mei Foo.	Based on the information provided by the RSS, the Contractor was not aware of any high pitched construction noise arising from plant employed for their works. The noise complaint referred to may be originated from the damage of a gas main valve on the afternoon of 29 March 2004 in the vicinity of the junction of Mai Lai Road with Lai King Hill Road. The high pitched whistle apparently resulted from the damage which was repaired by TownGas in that afternoon. Based on the information obtained, this noise complaint is considered not due to the construction activities of the Project. Nevertheless, the Contractor was recommended to adopt good site practice to minimize the construction noise, such as: To space out noisy equipment and position it as far away as possible from the sensitive receivers; To avoid concurrent uses of noisy equipment near the sensitive area; To ensure the equipment are maintaining in good operation condition; and To turned off any idle equipment on site.	Closed
40402	Nob Hill	06 April 2004	A public noise complaint was received by the Contractor (NECSO) on 02 April 2004 regarding the noise generated from the Ching Cheung Road Widening Works of the Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project, near Nob Hill, Lai Chi Kok. NECSO referred the complaint to the RSS and subsequently referred to the ET Leader of the Project on 6 April 2004	The complaint was raised by Ms Wong, regarding the noise generated from the Ching Cheung Road Widening Works of the R8-LCKV Project, which cause serious nuisance to her. Based on the information provided by the RSS, the plants employed by the Contractor for carrying out bored piling works in front of Nob Hill should not generate excessive noise. The RSS had also checked against the site records that no piling works was in progress in front of Nob Hill on 1-3 April 2004. According to telephone communication between the complainant (Ms Wong) and the RSS on 8 April 2004, the RSS reported that Ms Wong was not complaining about the construction noise generated by the R8-LCKV Project. She was actually complaining about the traffic noise she anticipated to be generated after completion of widening work at Ching Cheung Road in front of Nob Hill.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				During ET's weekly environmental site inspections on 17, 24 & 31 March 2004 and 7 April 2004, no serious noise nuisance induced by the Project works was observed at the construction sites near Nob Hill. Based on the joint site visit with the representative of HyD, IEC, RSS and ET to the Nob Hill on 30 March 2004, the major noise source at Nob Hill was identified as traffic noise on Ching Cheung Road, which is located very close to this building, especially at or above the Podium Floor (i.e. 5/F). Based on the information obtained, this noise complaint is considered not due to the construction activities of the Project. Nevertheless, the Contractor was recommended to adopt good site practice to minimize the construction noise, such as To space out noisy equipment and position it as far away as possible from the sensitive receivers; To avoid concurrent uses of noisy equipment near the sensitive area; To ensure the equipment are maintaining in good operation condition; and To turned off any idle equipment on site.	
40710	Pier P7 in Portion E1	10 July 2004	A public complaint was raised on 30 th June 2004 regarding the washout of muddy water from the site area of the Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project, at Pier P7 onto Lai Chi Kok Road. The complaint was referred to the RSS on 3 rd July 2004 and subsequently referred to the ET Leader of the Project on 10 th July 2004.	Based on the information provided by the RSS, the spillage of muddy water was in fact due to a burst in a temporary water pipe being utilized in the piling operations at Pier P7 in Portion E1. Emergency remedial works were undertaken preventing further spillage of muddy water. The remaining ponding water within the works area arising from the burst was all removed from the area on 5 th July 2004. During ET's weekly environmental site inspection on 14 th July 2004, no serious water quality nuisance induced by the Project works was observed at the construction sites near Pier P7. It was also noted that the back of profile barriers along the site	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			The complaint was raised by Mr. Chan, regarding the washout of muddy water from the works area of the R8-LCKV Project onto Lai Chi Kok Road. The washout caused nuisance to the drivers utilizing the road, and may also cause danger to the motorbikes.	boundary had been sealed up by cement as preventive measures. During ET's weekly environmental site inspections on 17, 24 & 31 March 2004 and 7 April 2004, no serious noise nuisance induced by the Project works was observed at the construction sites near Nob Hill. Based on the information obtained, the complaint is considered due to the construction activities of the Project. Emergency remedial works had been taken by the Contractor to rectify the situation and preventive measures had also been implemented. Nevertheless, the Contractor was recommended to adopt the following measures to avoid re-occurrence of similar incidents: • to enhance surface runoff control measures along the site boundary; • to provide adequate training to the frontline workers; and • to regularly inspect temporary water supply equipment, such as hose pipe to make sure the equipment is in good condition.	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
40809	Ching Cheung Road area near Nob Hill	22-Jul-04 (by EPD) 09-Aug-04 (by ET Leader)	EPD received a public noise complaint on 22 July 2004 about construction noise and dust generated from Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project, at the Ching Cheung Road Area near Nob Hill. EPD subsequently referred the complaint to the ET Leader of the Project on 9 August 2004. The complaint was about the construction noise and dust observed at the Ching Cheung Road area near Nob Hill. The locations of the works areas being concerned by the complainant include: 1. Area A: Works area between Nob Hill and Lai Chi Kok Park Swimming Pool 2. Area B: Works area between Ching Cheung Road and Mei Lai Road / Lai Wan Road opposite to Mei Foo Sun Cheung (Phase 5) and Lai Chi Kok Public Library.	Information Provided by RSS Information (construction activities and equipment adopted) in a 2-week period before the date of complaint, i.e. 7 to 21 July 2004, was obtained from the Resident Site Staff. Area A: Item 1 – Drainage works by using 1 x backhoe; Item 2 – Bored piling works by using 1 x crawler crane, 1 x air compressor, 1 x reverse circulation drill and 1 x power pack; Item 3 – Trial trench excavation by man power; Item 4 – Gas main diversion by 1 x backhoe (performed by TGC's Contractor) Area B: No construction activity was undertaken in the concerned period. Review of Environmental Monitoring Results The routine monitoring stations, which are in the vicinity of the concerned works areas, include: Noise Monitoring NM4: R/F of Mei Foo Sun Chuen (Phase 5) NM8a: M/F of Nob Hill NM8b: 3/F of Nob Hill Air Quality (1-hr TSP / 24-hr TSP) Monitoring AM2: R/F of Lai Chi Kok Sports Centre No Action / Limit level exceedance was identified in July 2004. Environmental Site Inspection During the ET site inspections on 8th, 14th and 20th July 04, no major environmental deficiency with regard to noise and air quality was identified by the auditors. Conclusions Based on the RSS's information, environmental monitoring results as well as the observations made during site inspections, this complaint is considered to be invalid and not due to the construction activities of the Project. Nevertheless, the Contractor was recommended to adopt good site practice to minimize the construction noise and dust impacts, such as:	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
Log Kei.	Location	Received Date	Details of Complaint	 To space out noisy equipment and position it as far away as possible from the sensitive receivers; To avoid concurrent uses of noisy equipment near the sensitive area; To ensure the equipment are maintaining in good operation condition; To turn off any idle equipment on site. To cover excavated dusty materials by impervious sheeting; To provide water spray for haul roads, loading/unloading and concrete breaking operations; To perform wheel wash for every vehicle immediately before leaving the site. 	Status

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
50215	Mei Foo Sun Chuen, Phase 5 (Retaining Wall CC-R3)	15-Feb-05 (by ET Leader)	A public complaint was raised on 8 th Feb 2005 regarding construction noise from the site area of the Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project near Mei Foo Sun Chuen. The complaint was referred to the Resident Site Staff on 14 th Feb 2005 and subsequently referred to the ET Leader of the Project on 15 th Feb 2005. The complaint was raised by a resident in Mei Foo Sun Chuen, regarding the noise generation from the piling work at Retaining Wall CC-R3, adjacent to Po Leung Kuk Tong Nai Kan College.	Construction Activities During the weekly site inspection on 17 Feb 05, piling work was being conducted at the concerned. The major powered mechanical equipment (PME) in operation included a mobile crane, an air compressor, a reverse circulation drill and a generator. In view of the separation of the site area and the residential building (around 40 m) and also the high traffic noise from Ching Cheung Road as well as Mei Lai Road, the noise generated from the operation of the PME was believed to be insignificant. Environmental Monitoring The noise monitoring results at Station NM4 (Mei Foo Sun Chuen, Phase 5) for the last 3 months were reviewed in order to evaluate the noise impact from the Project on the noise sensitive receiver. The measured noise levels in last three threes were ranged from 70.8 to 75.8 dB(A). It was observed that the measured noise levels were well within the range of baseline noise levels (69.2 to 75.8 dB(A)). The corrected construction noise levels were found to be ranged from 63.5 to 71.5 dB(A), which were well below the noise criterion of 75 dB(A). Conclusions Based on the information obtained and the noise monitoring results, this complaint is considered to be invalid and not due to the construction activities of the Project. Nevertheless, the Contractor was recommended to adopt good site practice to minimize the construction noise impacts.	Closed
50322	Seung Lai	11-Mar-05	Environmental Protection	Construction Activities	Closed

	House, Wah Lai Estate (Slope S1)	(by EPD) 22-Mar-05	Department (EPD) received a public noise complaint on 11 Mar 05 about		
		(by ET Leader)	daytime construction noise generation from R8-LCKV. EPD subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 22 Mar 05. The complaint was raised by a resident of Seung Lai House of Wah Lai Estate, regarding the daytime (0800-1800 hrs) construction noise generated from the slope work and road work of R8-LCKV Project. As advised by EPD, the complainant is living on 20/F or above in Seung Lai House.	As advised by the RSS, the major construction work during 25 Feb 05 to 11 Mar 05 (2 weeks before the date of complaint) in the vicinity of Wah Lai Estate included excavation work, soil nail work and installation of u-channel and manholes. The major powered mechanical equipment included excavators, drilling machine and air compressor. In view of the separation of the site area (Slope S1) and the Seung Lai House (around 140 m) and also the traffic noise from Ching Cheung Road, the noise generated from the construction activities at Slope S1 was believed to be insignificant. **Environmental Monitoring** Ad-hoc noise measurement was conducted at Seung Lai House on 30th Mar 05 and the measured noise level (Leq-30min) was 66.9 dB(A), which was well below the criterion for daytime construction noise of 75 dB(A). The construction noise level (with reduction of background noise level) is expected to be even lower. **Conclusion** Based on the information obtained and the noise measurement results, this complaint is considered not justifiable. Nevertheless, the Contractor was recommended to adopt good site practice to minimize the construction noise impact.	
50330, 50331,	Wah Lai Estate	30-Mar-05, 31- Mar-05, 4-Apr-05	Four public complaints were lodged by the residents of Wah Lai Estate	Construction Activities	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
50404 & 50407	Location	Received Date & 7-Apr-05 (by ET Leader via RSS)	regarding the construction noise from the site area of the Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project near Wah Lai Estate. The complaints were referred by the Resident Site Staff to the Environmental Team (ET) Leader on 30 th , 31 st March, 4 th and 7 th April 2005, respectively.	The site of concern was likely to be Slope S1, which is around 140 m away from Wah Lai Estate. The major construction work at Slope S1 included trimming of slope, soil nail work and erection of u-channels and step channels. *Environmental Monitoring** Ad-hoc noise measurement was conducted at Seung Lai House on 30 th Mar 05 and 7 th Apr 05 and the measured noise levels (Leq-30min) were ranged from 66.9 to 69.1 dB(A), which were well below the criterion for daytime construction noise of 75	Status
				dB(A). The construction noise level (with reduction of background noise level) is expected to be even lower. Conclusion Based on the results of the ad-hoc noise measurements at Wah Lai Estate, no exceedance of daytime noise criterion of 75 dB(A) was recorded. The complaints lodged are therefore considered not justifiable. Mitigation	
				The Contractor agreed to arrange the noisy activities to commence after 8:00 am. This arrangement could effectively reduce the disturbance to the residents within the more sensitive time period (7:00 am to 8:00 am).	
50404-v2	Mei Foo Sun Chuen	4-Apr-05 (by ET Leader via RSS)	A public complaint was raised on 1 st April 2005 regarding construction noise from the site area of the Route	Construction Activities The site of concern was likely to Retaining Wall CC-R3,	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
Log Ref.	Location	Received Date	B – Lai Chi Kok Viaduct (R8-LCKV) Project near Mei Foo Sun Chuen. The complaint was referred to the Resident Site Staff and the ET Leader on 4 th April 2005.	adjacent to Po Leung Kuk Tong Nai Kan College. The major construction works at this area included bored piling works and excavation works. Environmental Monitoring According to the EM&A Manual, Mei Foo Sun Chuen, Phase 5 (NM4) is designated as one of the noise monitoring stations. Since the commencement of the impact monitoring programme, the construction noise levels recorded at this station were all below the noise criterion. Conclusion Based on the noise monitoring results at Station NM4 (Mei Foo Sun Chuen), no exceedance of daytime noise criterion of 75 dB(A) was recorded since the commencement of the impact monitoring programme. The complaint lodged is therefore considered not justifiable. Mitigation The Contractor has agreed to arrange the noisy activities to commence after 8:00 am. This arrangement could effectively reduce the disturbance to the residents within the more sensitive time period (7:00 am to 8:00 am). The Contractor also agreed to arrange the period (7:00 am to 8:00 am). The Contractor also agreed to	Status
				time period (7:00 am to 8:00 am). The Contractor also agreed to provide some temporary noise barriers for the noisy machinery if found necessary.	
50613	Mei Foo Sun Chuen	7-Jun-05 (by EPD) 13-Jun-05	According to EPD, the complaint was raised by a resident of Mei Foo Sun Chuen (Block 7, Phase 5) on 7 June 2005. It was about construction	Site Activities The site of concern was likely to be CCR-R3. Bored piling works and demolition of existing retaining walls were	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
		(by ET Leader)	dust emitted intermittently from the slope works undertaken on the other side of Mei Lai Road.	undertaken at this area in the period between 1 and 7 June 2005. It was believed that the demolition of existing retaining wall, which involved concrete breaking, was the activity of concern.	
			The complainant was particularly concerned about the fugitive dust emission during rock / concrete breaking activities.	On 1 Jun 05, one of the environmental deficiencies noted by the ET was about fugitive dust emission from breaking activities at CCR-R3. The Contractor was reminded to provide sufficient dust mitigation measures for the breaking works. Immediate action was taken by the Contractor to apply water spray for the works as observed during the audit session. On 9 Jun 05, the breaking works were still being taken at CCR-R3. Water spray as a dust mitigation measure was being adopted by the Contractor during the audit. No observable dust emission was noted from the breaking works or other site activities.	
				On 15 Jun 05, the same area was re-inspected due to the receipt of the complaint from EPD. The demolition works had been finished and no other dust emissive activity was being taken. No other dust source from the construction site was observed during the inspection.	
				Conclusion	
				Based on the observations noted during our site inspections, this complaint is considered to be valid and related to the construction activities of the Project.	
				However, corrective action had been taken by the Contractor and the situation was found improved during the follow-up inspections.	
50721	Hei Lai House, Wah Lai Estate	21-Jul-05 (by ET Leader)	The complaint was lodged by a resident of Hei Lai House of Wah Lai Estate through a Legislative Council member. The complaint was	Site Activities The slope work at Slope S1 was likely to be the activity of concern. The work at Slope S1 recently included the operation	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			about construction noise nuisance caused by rock breaking work, which claimed to be started from 8:30am daily, carried out at Ching Cheung Road near Wah Lai Estate. The complainant hoped that the rock breaking work could start later i.e. be carried out from noon to afternoon and the site could be fully enclosed. The Environmental Team (ET) of the Project received the complaint on 21 July 2005 and forwarded it to the Resident Site Staff (RSS) to obtain necessary information.	of excavator mounted breakers, excavators and dump trucks. The time period of concern was within normal working hours (7am to 7pm) on a weekday not being a public holiday. The noise criterion is 75 dB(A) for domestic premises. Noise Measurement Ad-hoc measurements were carried out on the roof of Hei Lai House on 25 July 2005. The results show that the measured noise level is well below the noise criterion of 75 dB(A). The construction noise level (with reduction of background noise) is expected to be even lower. Conclusion Since the noise measurement results at Wah Lai Estate were below 75 dB(A), the complaint was considered not justifiable. Nevertheless, noise mitigation measures have been implemented by the Contractor to minimize the noise impact arising from the breaking activities: 1. Employment of silenced-type breakers; 2. Temporary noise barriers, attached with sound adsorption materials, were erected to screen the site of breaking from sensitive receivers 3. While the permitted hours for construction works are 7am to 7pm on non-holidays, the Contractor has commenced the rock breaking activity after 8:30am.	
51107	Ching Cheung Road near Mei Foo Sun Chuen	7-Nov-05 (by the ET Leader)	Environmental Protection Department (EPD) received a public complaint about environmental nuisance generated from Route 8 – Lai Chi Kok Viaduct (R8-LCKV)	The site of concern was likely to be CCR-S4 and CCR-R3. According to RSS's records, bored piling works and soil nail drilling at CCR-R3, excavation works at CCR-S4 in the concerned period.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			Project. EPD subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 7 November 2005. According to EPD, the complaint was raised by a resident of Mei Foo Sun Chuen. The complaint was about dark smoke, dust and noise nuisance caused by the construction work of R8-LCKV near Mei Foo Sun Chuen.	Site Inspection After receipt of the complaint, an ad-hoc site inspection was carried by ET on 9 November 2005 and the following observations were made: 1. Breaking activities were undertaken at CCR-R2 and R3. Continuous water spray was applied by the workers for dust suppression. Movable noise barriers were erected to alleviate the noise impact. 2. The haul roads and exposed works areas were observed wet. A water sprinkler was installed at the CCR-S4 for water spraying. 3. Most of the slope was shot-creted to avoid wind erosion. 4. Bored piling work was carried out near the site exit of CCR-R3. Since bored piling mainly involves handling of wet materials, dust nuisance causing by this type of work is not anticipated. Gas exhaust from the machines was visually clear and no dark smoke was identified. Environmental Monitoring Air quality monitoring was conducted at Lai Chi Kok Sports Centre and noise monitoring is conducted at Mei Foo Sun Chuen. No exceedance was recorded for both monitoring. Conclusion Based on the ad-hoc site inspection and the environmental monitoring results, this complaint was considered not justifiable.	
60118	Lai Po Road near Hoi Lai Estate	18-Jan-06 (by the ET Leader)	Environmental Protection Department (EPD) received a public complaint about environmental nuisance generated from Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project. EPD subsequently referred	Site Activities According to the RSS's records, night works were carried out by the Contractor between 2000 hrs on 14 January 2006 and 0530 hrs on 15 January 2006:	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
Bog Ren		received Date	the complaint to the Environmental Team (ET) Leader of the Project on 18 January 2006. According to EPD, the complaint was lodged by a resident of Hoi Ming House of Hoi Lai Estate. The complaint was about construction noise nuisance caused by construction work of R8-LCKV carried out at Lai Po Road near Hoi Lai Estate. The noise nuisance was noted since 14 January 2006 during the periods from 2330 hrs to 0600 hrs.	 Delivery of segment from storage yard near Pier P5/L to Pier 15 for erection; Stressing to temporary PT bars of segments at Pier B3. The above night works, which involved operation of tractor, mobile crane, lifting frame and generator, were undertaken under the two construction noise permits CNP no. GW-RW0739-05 and GW-RW0740-05. Environmental Monitoring In order to evaluate the noise impact onto the residents of Hoi Lai Estate, nighttime noise monitoring was carried out on 18 January 2006 at 23:00. The above monitoring results revealed that the measured noise levels were close to the reference background levels. After correction of the mean background level, all corrected noise levels were below the noise criterion of 55 dB(A). Conclusion Based on the information collected and the monitoring results, the complaint is considered not justifiable. Nevertheless, the Contractor was reminded to take sufficient noise mitigation measures to minimize the environmental impact on the nearby community. 	Status
60119	Mei Foo Sun Chuen (Phase 5)	18-Jan-06 (by the ET Leader)	Environmental Protection Department (EPD) received a public complaint about environmental nuisance generated from Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project. EPD subsequently referred the complaint to the Environmental	 Site Activities The site of concern was likely to be CCR-S4, CCR-R2 and CCR-R3. According to RSS's records, site activities included: Trimming of existing rock slope at CCR-S4; Excavation and rock dowel installation at CCR-R2; and Construction of cable trough at CCR-R3 by CLP's 	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			Team (ET) Leader of the Project on 19 January 2006. According to EPD, the complaint was raised by a resident of Mei Foo Sun Chuen via a Sham Shui Po District Council Member's Office. The complaint mentioned that residents of Mei Foo Sun Chuen Stage 5 were adversely affected by construction dust caused by the Route 8 work carried out at the slopes adjacent to Ching Cheung Road.	contractor. Site Inspection After receipt of the complaint, an ad-hoc site inspection was carried by ET on 19 January 2006. No environmental deficiency regarding construction dust was identified during the inspection. Environmental Monitoring All monitoring results in Jan 06 revealed that no exceedance was recorded for the air quality (1-hr and 24-hr TSP) criteria. Contractor's Action The Contractor of R8-LCKV had implemented several dust mitigation measures: • Haul roads, exposed slope surface and soil stockpiles were watered regularly by hose pipes and sprinklers; • Idled exposed slope were shot-creted; and • Watering was applied for the dust emissive activities, such as loading and unloading of dusty materials, excavation and breaking works. Conclusion Based on the ad-hoc site inspection and the environmental monitoring results, this complaint was considered not justifiable. Nevertheless, the Contractor was reminded to keep on the dust mitigation measures being implemented and step up the measures if necessary.	
60213 60216 60220 60222	Hoi Lai Estate (Lai Po Road)	13-Feb-06 16-Feb-06 20-Feb-06 22-Feb-06 (by the ET Leader)	Four environmental complaints were received in this reporting month. Three of them were referred by EPD on 13 th , 20 th and 22 nd Feb 06 and the other one was referred by HyD via MHJV on 16 th Feb 06.	Site Activities Since around mid-January 2006, segments were transported to Piers P15 and B4, under the permission of construction noise permit (CNP).	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			All about construction noise due to night works at Lai Po Road near Hoi Lai Estate.	It was suspected that the sound of concern was generated from tractors for precast segment transportation. In view of the safety of workers, an alert sound and flashing are maintained during backing action of the tractors.	
				Site Inspection	
				An ad-hoc inspection was carried out by the ET on 16 Feb 06 from 00:30 to 02:30 am. Noise measurement was carried out during the inspection to evaluate the noise impact onto the residents of Hoi Lai Estate. During the monitoring, the major noise source identified was the road traffic noise from Sham Mong Road and Lai Po Road. No alarm sound or alike from the construction equipment was noted. The above monitoring results revealed that the measured noise levels were close to the reference baseline level. After correction of the mean background level, most of data were below the noise criterion of 55 dB(A).	
				Conclusion	
				Based on the information collected and the monitoring results, the complaints are considered not justifiable.	
				It was suspected that the nuisance was caused by the alert sound of tractors during backward movement which servers as a safety measure. However, the RSS and the Contractor are considering the possibility of lowering the alert sound level or replacing by a less disturbing pitch in order to minimize the noise nuisance to residents of Hoi Lai Estate.	
			Environmental Protection Department (EPD) received a public	Site Activities	
			complaint about environmental nuisance generated from Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project. EPD subsequently referred the complaint to the ET Leader on 20	According to the Resident Site Staff (RSS)'s records, the construction works were carried out by the Contractor from daytime to 2230 hours on 14 April and from 2000 hours to 0600 hours 16 April 2006.	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
60420	Near both Hoi Lai Estate and West Kowloon Highway	20-Apr-06 (by the ET Leader)	April 2006. The complaint is about construction noise nuisance caused by construction work of night works at location near both Hoi Lai Estate and West Kowloon Highway between 14 and 17 April 2006.	 Erecting segments at column PA/R; Stressing of top tendon wires of segments and erecting segments at column P1/R; and Transporting segments to storage yard. The above construction activities were undertaken under a construction noise permit CNP no. GW-RW0172-06. Base on the RSS's preliminary investigation, it was suspected that the noise nuisance of concern was caused by loading and unloading of materials, hammering and/or dropping of materials on ground during the stressing works and transportation of precast segment by tractors. Contractor's Action The Contractor had implemented a short term mitigation measures:- Turned off the alert sound of tractors during backward movement in order to reduce the potential for noise impact; Strengthened their management on worker's working manner such as avoid dropping of material on ground, wrapping up of hammering equipment and etc.; and Conducted training of worker in order to reducing noise nuisance during the night works. 	Close
				Conclusion Based on the information collected and the monitoring results, the complaints are considered not justified.	
				It was suspected that the nuisance was caused by loading and unloading of materials, hammering and/or dropping of materials on ground during the stressing works and	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				transportation of precast segment by tractors. The Contractor has strictly complied with PME allowed in the CNP No. GW-RW0172-06. Besides, night work at the concerned location was completed. No further construction work at night at this location is anticipated. Site Activities	
60428	Between Ching Cheung Road and Mei Lai Road (near Phase 5 of Mei Foo Sun Chuen)	28-Apr-06 (by the ET Leader)	Environmental Protection Department (EPD) received a public complaint about tree cutting in the area between Ching Cheung Road and Mei Lai Road (near Phase 5 of Mei Foo Sun Chuen). EPD subsequently referred the complaint to the ET Leader on 28 April 2006. The complaint was about the Contractor cu trees in the area between Ching Cheung Road and Mei Lai Road (near Phase 5 of Mei Foo Sun Chuen). This had removed the traffic noise barrier effect of the trees and hence made the residents of Mei Foo Sun Chuen becoming being seriously affected by the traffic noise nuisance.	According to the Resident Site Staff (RSS)'s records, current construction activities included segment erection works for Slip Road D, excavation works for cut slope CCR-S4 and retaining wall construction at CCR-R2 and CCR-R3. Since excavation for cut slopes and construction of slip road D are required at this area, tree cutting is unavoidable. Tree felling application was approved by DLO/KW. Contractor Action Under the EP condition and EIA, there is no need for this project to mitigate the traffic noise barrier effect due to the removal of tress. No follow up action was required for this complaint. Conclusion Under the EP conditions and EIAO, there is no need for this project to mitigate the traffic noise barrier effect due to the removal of trees. Based on the information collected, the complaint is considered not justifiable. Since excavation for cut slopes and construction of slip road D are required at this area, tree cutting is unavoidable. Tree felling application was approved by DLO/KW.	Close

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				Compensatory planting will be provided at the concerned area after completion of the construction works in order to improve the landscape and visual impacts. No follow up action will be required for this complaint.	
60522	Hoi Lai Estate (Hoi Fai House)	22-May-06 (by ET Leader)	Environmental Protection Department (EPD) received a public complaints about noise nuisance generated from Route 8 – Lai Chi Kok Viaduct Project. EPD subsequently referred the complaint to ET Leader on 22 May 2006. The complaint was concerned about the noise produced from construction work during the period between 2300 hours and 0100 hours every night since 3 weeks ago. The complaint described the noise being like sound of poring concrete.	According to the RSS's records, only precast segment transportation works at the concerned area which was used as the segment storage yard near Pier P5L to Piers near Mui Kong Tsuen. No concreting activities were carried out at the abovementioned area between 2300 hours and 0100 hours every night in concerned period. In addition, the transportation works were usually carried out from 2000 hours to 0300 hours (or before 0300 hours). Contractor Action The idle and backup equipments such as tractors has turned off or throttled down in order to reduce the noise impact since the last complaint on this issue near Hoi Lai Estaet. Besides, the above night works were undertaken with three construction noise permits. Site Inspection An ad-hoc inspection was carried out by the ET at 2300 on 26 May 2006. During the inspection, no construction activities were carried out at the concerned area, where the tractor and mobile crane were throttled down. Conclusion According to RSS's information, no concreting activities were	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				carried out at the concerned area. Therefore, the major noise nuisance (pouring concrete) might not be generated from the abovementioned area. Besides, the Contractor strictly complied with PME allowed in the CNP No. GW-RW0172-06. In addition, the Contractor had turned off the alert sound of tractors during backward movement.	
				Based on the information collected, the complaint is considered not justifiable.	
				However, the Contractor was reminded to continuously implement their practice to prevent noise nuisance generation due to the construction works. The site situation will be continuously reviewed by ET and RSS also.	
60609	Near Phase 5 of Mei Foo Sun Chuen	9-Jun-06 (by ET Leader)	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint about environment nuisance generated from Route 8 – Lai Chi Kok Viaduct (R8-LVKC). Resident Site Staff (RSS) subsequently referred the complaint to the ET Leader on 9 June 2006. The complaint was about the noise generated from rock excavation work from 9 a.m. to 6 p.m. at the area between Ching Cheung Road and Mei Lai Road (near Phase 5 of Mei Foo Sun Cheun).	Site Activities As advised by the RSS, the site of concerned area was likely to be CCR-S4. According to the RSS's records, 1 number of excavator mounted breaker was unsed to carry out rock breaking work at CCR-S4 during the period between 9 a.m. and 6 p.m. The excavation and rock breaking activities at the concerned area will likely be completed by end of September 2006. Contractor Action The silent rock breaking equipment has been used and noise barriers were erected to minimize the noise impact generated from the breaking activity. Site Inspection and Environmental Monitoring An ad-hoc inspection was carried out by ET on 14 June 2006 from 1:30 p.m. to 4:30 p.m. and 16 June 2006 from 4:00 p.m. to 4:45 p.m.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				During the inspections, the construction activities at CCR-S4 included handheld breaking, excavation and rock breaking activities were carried out at CCR-S4. However, the temporary noise barriers were erected at the abovementioned location as same as RSS's mentioned.	
				Noise measurement was carried out during the inspection to evaluate the noise impact onto the residents of Mei Foo Sun Chuen. The monitoring location was original monitoring location NM4 (Mei Foo Sun Chuen Phase 5).	
				The measured monitoring results were close to the reference baseline level. After correction of the mean background level, the monitoring data were below the noise criterion of 75 dB(A).	
				Conclusion	
				Base on the information collection and the monitoring result, the complaint was considered not justifiable.	
				The Contractor had implemented noise mitigation measures to minimize the noise impact. Besides, the monitoring result were below the noise criteria of 75dB(A). However, the Contractor was still reminded to continuously implement their practice to prevent noise nuisance generation from the construction works.	
				The environmental conditions of the site will be continuously reviewed by the RSS and the ET.	
60626	Near Phase 5	26 Jun 06	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint through a facsimile on 12 June 2006 about an environmental puisance generated from Poute 8	Site Activities As advised by the RSS, the site of concerned area was likely to be CCR-S4.	
	of Mei Foo Sun Chuen	of Mei Foo 26-Jun-06 (by FT Leader)	nuisance generated from Route 8 – Lai Chi Kok Viaduct 9R8-LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the ET Leader on 26 June 2006.	According to the RSS's records, 1 number of excavator mounted breaker was unsed to carry out rock breaking work at CCR-S4 during the period between 9 a.m. and 6 p.m.	Closed
				The excavation and rock breaking activities at the concerned	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			According to the explanation from	area will likely be completed by end of September 2006.	
			the RSS, this complaint was indeed		
			the same as that received by the ET on 9 June 2006. The complaint	Contractor Action	
			initiated the complaint verbally to the	Contractor Action	
			ICC on 8 June 2006 and then also	The silent rock breaking equipment has been used and noise	
			issued a facsimile to the ICC. The	barriers were erected to minimize the noise impact generated	
			facsimile was transferred to the RSS	from the breaking activity.	
			on 12 June 06 and eventually reached	,	
			the ET on 26 June 2006.	Site Inspection and Environmental Monitoring	
			The complaint was about the noise generated from rock excavation work from 9 a.m. to 6 p.m. at the area between Ching Cheung Road and	As the complaint was identical to the one received on 9 June 06 by the ET, the ad-hoc inspections carried out on 14 June 2006 from 1:30 p.m. to 4:30 p.m. and 16 June 2006 from 4:00 p.m. to 4:45 p.m. were still applicable to this report. In addition, further	
			Mei Lai Road (near Phase 5 of Mei Foo Sun Cheun).	ad-hoc inspections were carried out on 28 June 2006 from 1:30 p.m. to 4:00 p.m. and 3 July 2006 from 9:30 a.m. to 11:30 a.m.	
			This complaint was made by the same complainant to the ICC through two different channels (by phone and by facsimile) and the ET of the Project was firstly notified on 9 June 2006. A complaint investigation	During the aforesaid inspections, the construction activities at CCR-S4 included handheld breaking, excavation and rock breaking activities were carried out at CCR-S4. However, the temporary noise barriers were erected at the abovementioned location.	
			report was issued on 22 June 06.	In addition to the noise measurement conducted on 14 and 16 June 2006, further noise measurement was carried out on 30	
			As the ET received this separate	June 2006 to evaluate the noise impact onto the residents of Mei	
			complaint after the issue of the complaint investigation report and	Foo Sun Chuen. The monitoring location was original monitoring location NM4 (Mei Foo Sun Chuen Phase 5).	
			considered the nature of the		
			complained event (general	Noise measurement carried out on 30 June 06, after correction	
			construction during daytime but not	of the mean background level, the monitoring data were below	
			single event at a particular moment),	the noise criterion of 75 dB(A)	
			the complaint investigation	Canalysian	
			procedures were initiated.	Conclusion	
				This complaint was identical to the one received by the ET on 9	
				June 06 because the complainant addressed the complaint to the	
				ICC through two different channels (by phone and by	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
9				facsimile). The facsimile was transferred to the RSS on 12 June 06 and eventually reached the ET on 26 June 06. Base on the information collection and the monitoring result, the complaint was considered not justifiable. The Contractor had implemented noise mitigation measures to minimize the noise impact. Besides, the monitoring result were below the noise criteria of 75dB(A). However, the Contractor was still reminded to continuously implement their practice to prevent noise nuisance generation from the construction works.	
				The environmental conditions of the site will be continuously reviewed by the RSS and the ET.	
60830	Near Mei Foo and Lai King Hill Road	30-Aug-06 (by ET Leader)	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint on 25 August 2006 about an environmental nuisance generated from Route 8 – Lai Chi Kok Viaduct 9R8-LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the ET Leader on 30 August 2006. The complaint was concerned about dust generated from the rock drilling works affected the nearby ASRs. The complaint described that spraying of water during rock drilling works was not implemented.	Site Activities According to RSS's record, rock dowel installation for slope stabilization at CCR-S1 was commenced on 22 August 2006 and would likely last for at least 6 months. Contractor Action After receiving the complaint, the Contractor has further enhanced the dust mitigation measures as follows: • Enclosing the rock dowel drilling work on three sides, i.e. top, back and the left hand side, with tarpaulin sheets; • Spraying of water at the hole during drilling; • Wrapping the head of the drilling rig with a wet thick towel. Site Inspection and Environmental Monitoring During the monthly site inspection on 4th September 2006, rock drilling at the slope CCR-S1 was carrying out. The ET observed that the work area was enclosed by tarpaulin sheets at three sides. Water was sprayed continuously at the drilling hole and head of the drilling rig was enclosed with a wet thick towel. All the mitigation measures mentioned by the RSS were	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				implemented.	
				Conclusion	
				Base on the information collected and the monitoring results, the complaints are considered not justifiable.	
				It was because there was no exceedance of the air quality monitoring results and dust mitigation measures were implemented by the Contractor during the rock drilling works.	
				However, the Contractor was still reminded to take sufficient dust mitigation measures to minimize the environmental impact on the nearby community:	
				• Enclose dusty activity such as rock drilling with tarpaulin sheet;	
				Apply water spraying for any dust emissive activities, such as breaking, excavation, loading and unloading of dusty materials;	
				Cover long-term idle exposed slope surfaces and stockpiles with tarpaulin sheets.	
				The environmental conditions of the site will be continuously reviewed by the RSS and the Environmental Team through site inspections and monitoring exercises.	
60831	Between Lai Wan Road and Lai King Hill	31-Aug-06 (by ET Leader)	Environmental Protection Department (EPD) received a public complaint about environment nuisance generated from Route 8 – Lai Chi Kok Viaduct Project. EPD subsequently referred the complaint to ET Leader on 31 August 2006.	Site Activities According to RSS's record, rock dowel installation for slope stabilization at CCR-S1 was commenced on 22 August 2006 and would likely last for at least 6 months. Contractor Action	Closed
	Road	(oy L1 Leader)	The complaint was concerned about construction noise, dust and waste water generated from the	With reference to RSS's site diary, all site activities including drilling works at the concerned area were conducted between 8:00 and 18:00 daily. Ad hoc site observation carried out by the	
			construction work affect the nearby	RSS confirmed that no construction activity was carried out	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			NSRs after 19.00 hrs, the nearby ASRs and discharged to exiting road	after 18:00.	
			respectively	As advised by the RSS, tarpaulin sheet covering and water spraying were provided by the Contractor to mitigate the dust nuisance generated from the rock drilling works. On 31 August 2006, the Contractor was further enhanced the dust mitigation measures as follows:-	
				• Enclosing the rock dowel drilling work on three sides, i.e. top, back and the left hand side (LHS) with tarpaulin sheets;	
				Spraying water at the hole during drilling;	
				• Wrapping the head of the drilling rig with a wet thick towel.	
				Site Inspection and Environmental Monitoring	
				During the monthly site inspection on 4 th September 2006, rock drilling at the slope CCR-S1 was carrying out. The ET observed that the work area was enclosed by tarpaulin sheets at three sides. Water was sprayed continuously at the drilling hole and head of the drilling rig was enclosed with a wet thick towel. All the mitigation measures mentioned by the RSS were implemented.	
				Conclusion	
				Base on the information collected and the monitoring results, the complaint was considered not justifiable.	
				It was because there was no exceedance of the air quality monitoring results and dust mitigation measures were implemented by the Contractor during the rock drilling works. No construction activities were carried after 18:00 in the period mentioned by the complainant. In addition, no wastewater discharge was observed.	
				However, the Contractor was still recommended to take the following mitigation measures to minimize the environmental impact on the nearby community:	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
Log Kei.	Location	Received Date	Details of Complaint	 Dust Nuisance Enclose dusty activity such as rock drilling by tarpaulin sheet; Apply water spraying for any dust emissive activities, such as breaking, excavation, loading and unloading of dusty materials; Cover long-term idle exposed slope surfaces and stockpiles with tarpaulin sheets. Construction Noise The Contractor was reminded that construction activities during restricted hours could only be carried out with a valid Construction Noise Permit (CNP). In addition, appropriate noise mitigation measures described in the CNP should be implemented in order to minimize the noise impact on the nearby noise sensitive receivers. Wastewater Discharge Fill up the gaps under the footings of hoarding fence along Lai King Hill Road so as to prevent spillage of muddy water during heavy rain onto the existing road. The environmental conditions of the site will be continuously reviewed by the Resident Site Staff and the Environmental Team through site inspections and monitoring exercises. 	Status
60925	Near Ching Cheung Road, Nob Hill and Mei Lai Road	25-Sep-06 (by ET Leader)	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint on 25 September 2006 about the an environmental nuisance generated from Route 8 – Lai Chi Kok Viaduct 9R8-LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the ET Leader on 25 September 2006.	Site Activities According to RSS's record, rock dowel installation for slope stabilization at the Slope CCR-S1 was commenced on 22 August 2006 and would last for at least 6 months and the first batch of rock drilling works at the Slope CCR-S4 was commenced on 19 September 2006 and completed on 23 September 2006. Contractor Action	Closed

	After receiving the complaint, the Contractor has further enhanced the noise mitigation measures as follows:- • Placing of a wooden box to cover the head of drilling;	
Du dri obsthr pla Th core core not du Ho core (i.e. mit	 Spraying of water at the hole during drilling and erecting of nylon sheets; Providing silent type drilling rigs for the drilling works at both Slopes CCR-S1 and CCR-S4 Site Inspection and Environmental Monitoring During the weekly site inspection on 27 September 2006, rock drilling at the Slope CCR-S1 was not carrying out. The ET observed that the work area was enclosed by tarpaulin sheets at three sides. Temporary noise barrier was erected at the working platform of the Slope CCR-S1. The ET also undertook an ad hoc site inspection at the concerned areas after 19:00 on 27 September 2006. No construction activities were observed and noise monitoring was not conducted. Conclusion Base on the information collected and the monitoring results, there was no exceedance of the noise monitoring results and noise mitigation measures were implemented by the Contractor during the rock drilling works. However, the Contractor was still reminded to carry out construction activities only within the permitted working hours (i.e. 07:00 – 19:00 on weekday) and to take sufficient noise mitigation measures to minimize the environmental impact on the nearby community: 	

The Integrated Complaint Centre (ICC) of HKSAR received a public complaint on 25 th October 2006 regarding noise nuisance generated from Route 8 – Lai Chi Kok Viaduct R8-LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the ET Leader on 25 th October 2006. Site Activities: According to RSS's record, installation of catchfan at Pier P5/L to P6 near PCCW was carried out at around 0115 to 0500 at both nights of 19 th and 20 th October 2006. The construction equipment used in both nights included one mobile crane, one crane lorry and one generator. Contractor Action According to RSS' record, acoustic material wrapping the head of chain blocks and hessian bags placing on ground around catchfans to suppress noise generation when hand tools were	
(ICC) of HKSAR received a public complaint on 25 th October 2006 to P6 near PCCW was carried out at around 0115 to 0500 at both nights of 19 th and 20 th October 2006. The construction equipment used in both nights included one mobile crane, one crane lorry and one generator. **Contractor Action** Contractor Action** Contractor Action** According to RSS's record, installation of catchfan at Pier P5/L to P6 near PCCW was carried out at around 0115 to 0500 at both nights of 19 th and 20 th October 2006. The construction equipment used in both nights included one mobile crane, one crane lorry and one generator. **Contractor Action** Contractor Action** According to RSS's record, installation of catchfan at Pier P5/L to P6 near PCCW was carried out at around 0115 to 0500 at both nights of 19 th and 20 th October 2006. The construction equipment used in both nights included one mobile crane, one crane lorry and one generator. **Contractor Action** According to RSS's record, installation of catchfan at Pier P5/L to P6 near PCCW was carried out at around 0115 to 0500 at both nights of 19 th and 20 th October 2006. The construction equipment used in both nights included one mobile crane, one crane lorry and one generator. **Contractor Action** According to RSS's record, installation of catchfan at Pier P5/L to P6 near PCCW was carried out at around 0115 to 0500 at both nights of 19 th and 20 th October 2006. The construction equipment used in both nights included one mobile crane, one crane lorry and one generator. **Contractor Action** The complaint was concerned about at around 0115 to P6 near PCCW was carried out at around 115 to P6 near PCCW was carried out at around 115 to P6 near PCCW was carried out at around 115 to P6 near PCCW was carried out at around 115 to P6 near PCCW was carried out at around 115 to P6 near PCCW was carried out at around 115 to P6 near PCCW was carried out at around 115 to P6 near PCCW was carried out at around 115 to P6 near PCCW was carried out at around 115 to P	
the noise nuisance generated from workers and construction vehicles during the mid-night between 0100 and 0200 on both 19th and 20th October 2006 at Lai Chi Kok Road Flyover near PCCW building 25-Oct-06 (by ET Leader) 26 hOuse of Hoi Lai Estate were conducted by the Contractor on 26th October 2006 between 0100 and 0130. The ET also carried out at Pier P5 to P6, which involved the operation of mobile crane and movement of lorry and trucks. During the monitoring, the major noise source identified was the road traffic noise. The monitoring results revealed that the measured noise levels were close to the reference background level, all corrected noise levels were below the noise criterion of 55 dB (A) which consists with the noise monitoring results from the Contractor. 26 October 2006 between 0100 and 0130. The ET also carried out at Pier P5 to P6, which involved the operation of mobile crane and movement of lorry and trucks. During the monitoring, the major noise source identified was the road traffic noise. The monitoring results revealed that the measured noise levels were close to the reference background levels. After correction of the mean background level, all corrected noise levels were close to the reference	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				Nevertheless, the Contractor was reminded to take sufficient noise mitigation measures to minimize the environmental impact on the nearby community: To strengthen management on worker's working manner, such as avoiding dropping materials on ground; No hammering is allowed during restricted hours; and To provide adequate training to workers working, esp. for night works.	
				reviewed by the Resident Site Staff and the Environmental Team.	
61103	Pier C13 and C14 at Lai Wan Road Overpass	3-Nov-06 (by ET Leader)	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint on 28 th October 2006 regarding noise nuisance generated from Route 8 – Lai Chi Kok Viaduct R8-LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the ET Leader on 3 rd November 2006. The complaint was concerned about noise generated from the general cleaning work of deck surface using water jet between Pier C13 and C14 at Lai Wan Road Overpass, at the evening of 28 th October 2006.	Site Activities According to the RSS's record, there is a CNP (CNP no. GW-RW0563-06) at the concerned location. Construction activities were allowed to be carried out between 19:00hr and 23:00hr (any day not being a general holiday) under the CNP. Environmental Monitoring During the weekly site inspections in October 2006, no noncompliance or observation on noise was recorded. Accordance to the EM&A program, two noise monitoring stations at Nob Hill, namely (NM8a and NM8b), have been set up in order to monitor the noise level generated from the construction activities. The Station (NM8b) is strongly influenced by road traffic noise from Ching Cheung Road. The measurement at this station is for reference purpose, but not for compliance check for construction noise. All measured value were lower than the noise criterion of 75 dB(A). No exceedance of noise level has been recorded in October 2006. Moreover, based on our site observation record during monitoring, road traffic noise from Ching Cheung Road was the major noise source. Conclusion	Closed
				Based on the information collected, the complaint is considered not justifiable.	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status		
				Nevertheless, the Contractor was reminded to take sufficient noise mitigation measures to minimize the environmental impact on the nearby community:			
				As the general cleaning work could be carried out during normal working hours (i.e. 07:00 to 19:00hr) instead as the work was not critical. RSS would remind the Contractor to programme their works better in order to minimize nuisance to nearby residents. The environmental conditions of the site will be continuously reviewed by the Resident Site Staff and the Environmental Team.			
		The Integrated Complaint Centre (ICC) of HKSAR received a public complaint through telephone on 18 th November 2006 regarding noise nuisance generated from Route 8 – Lai Chi Kok Viaduct R8-LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the ET Leader on 21 st November 2006.	Site Activities According to RSS's record, rebar fixing, formwork erection, placing concrete and preparation work for construction joint were carried out at the concerned site during the period of 13 th to 18 th November 2006 and the construction works within the mentioned period were occasionally finished at 18:30. As advised by the RSS, the RSS has recommended the Contractor to finish the construction works at the concerned areas before 18:00 in order to minimize the noise nuisance to the public.				
61121-1	Area near Lai Chi Kok Swimming Pool	Chi Kok 21-Nov-06 (by ET Leader) t	noise generated from the construction works between 09:00 and 18:30 at the area near Lai Chi Kok Swimming	works between 09:00 and 18:30 at the area near Lai Chi Kok Swimming	works between 09:00 and 18:30 at	Environmental Monitoring During the weekly site inspections in November 2006, no non-compliance or observation on noise was recorded.	Closed
	1001			Accordance to the EM&A programme, one noise monitoring station at Mei Foo Sun Chuen, Phase 5 (NM4) and two noise monitoring stations at Nob Hill, namely (NM8a and NM8b), were set up in order to monitor the noise level generated from the construction activities. The Station (NM8b) is strongly influenced by road traffic noise from Ching Cheung Road. The measurement at this station is for reference purpose, but not for compliance check for construction noise.			
				The noise monitoring results in the period between 1 st and 21 st November 2006 at the M/F of Nob Hill and at Mei Foo Sun Chuen, Phase 5 are all lower than or equal to the noise criterion			

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				of 75 dB(A). No exceedance of noise level has been recorded in the above mentioned period. Moreover, based on our site observation record during monitoring, road traffic noise from Ching Cheung Road was the major noise source.	
				Conclusion Base on the information collected and the monitoring results, the complaint was considered not justifiable.	
				However, the Contractor was still reminded to finish the construction works at the concerned areas before 18:00 and to carry out construction activities only within the permitted working hours (i.e. 07:00 – 19:00 on weekday).	
				The environmental conditions of the site will be continuously reviewed by the RSS and the Environmental Team through site inspections and monitoring exercises.	
	Construction		The Integrated Complaint Centre (ICC) of HKSAR received a public complaint through telephone on 17 th November 2006 regarding dust and noise nuisance generated from Route 8 – Lai Chi Kok Viaduct R8-LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the ET Leader on 21 st November 2006.	Site Activities According to RSS's record, construction works adjacent to Tong Nai Kan College in the past years included the construction of Retaining Wall CCR-R3 and Slip Road D. As advised by the RSS, noise and dust mitigation measures such as provision of noise barriers and acoustic materials at drill pit, dust suppression system and water browser were provided in order to minimize the noise and dust nuisance generated from the above mentioned construction activities.	
61121-2	works opposite Tong Nai Kan	21-Nov-06 (by ET Leader)	The complaint was concerned about	Environmental Monitoring	Closed
	College	College	dust and noise generated from the construction works opposite Tong Nai Kan College in the past years.	During the weekly site inspections in November 2006, no non-compliance or observation on noise and air at the concerned site was recorded.	
				Accordance to the EM&A programme, one noise monitoring station at Mei Foo Sun Chuen, Phase 5 (NM4) and one air monitoring station at Lai Chi Kok Sports Centre (AM2), were set up in order to monitor the noise and dust level generated from the construction activities.	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				The monitoring results revealed that no exceedance was recorded for the noise and air quality (1-hr and 24-hr TSP).	
				Conclusion Base on the information collected and the monitoring results, the complaint was considered not justifiable.	
				However, the Contractor was still reminded to continuously implement their practice, such as providing noise barrier with acoustic materials at drill pit and applying water spraying for any dust emissive activities to minimize the noise and dust nuisance generated from these construction activities.	
				The environmental conditions of the site will be continuously reviewed by the RSS and the Environmental Team through site inspections and monitoring exercises.	
			Environmental Protection Department (EPD) received a public complaint about environment nuisance generated from Route 8 – Lai Chi Kok Viaduct Project. EPD subsequently referred the complaint to ET Leader on 5 th December 2006.	Site Activities According to RSS's record, a catchfan was moved from bay (AL-62) to (AL-58) from 22:00 to 02:00hr. Installation of catchfan at parapet bay (MS-R-74) was carried out from 00.00 to 04:00hr on 29 th November 2006. As advised by the RSS, the Contractor has been requested to: Wrapping of tools with acoustic material	
61205	Banyan Garden	5 th December 2006 (by ET Leader)	The complaint was concerned construction noise near Banyan Garden within the period of 01:00 – 02:00hr on 29 th November 2006.	 Erection of noise barrier (mill barrier with acoustic material) adjacent to isolated noise source Placing of hessin bags on ground to mitigate noise generated as a result of the dropping of tools on ground. 	Closed
				According to the RSS, there is no evidence of hammering of metals on site.	
				Conclusion Based on the information collected, the complaint is considered unjustifiable.	
				Nevertheless, the Contractor was reminded to take sufficient noise mitigation measures to minimize the environmental	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				 impact on the nearby community: To strengthen management on worker's working manner, such as avoiding dropping materials on ground; No hammering is allowed during restricted hours; and To provide adequate training to workers working, esp. for night works. The environmental conditions of the site will be continuously reviewed by the Resident Site Staff and the Environmental Team. 	
70117-1	P6 – P8 near Lai Chi Kok Road Interchange	17 th January 2007 (by ET Leader)	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint through telephone on 16 th January 2007 regarding noise nuisance generated from Route 8 – Lai Chi Kok Viaduct R8-LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the ET Leader on 17 th January 2007. The complaint was concerned about noise generated from the P6 – P8 near Lai Chi Kok Road Interchange in the past months.	Site Activities According to RSS's record, the construction activities at the concerned area was mainly central stitch construction and parapet erection and similar works will be carried out in the concerted site in coming one month. The equipment used on site during the complaint period was covered under the construction noise permit (CNP) no. GW-RW0624-06. Based on the RSS's record of PME used in the concerned area from 15 November 2006 to 30 December 2006, the construction works complied with the CNP no. GW-RW0624-06. Conclusion Based on the information collected, the complaint is considered unjustifiable as the equipment used complied with the CNP conditions. Nevertheless, the Contractor was recommended to take further noise mitigation measures to minimize the environmental impact on the nearby community: To strengthen management on worker's working manner, such as avoiding dropping materials on ground; No hammering is allowed during restricted hours; and To provide adequate training to workers working, esp. for night works.	Closed
70117-2	P3 – P6 near Banyan	17 th January 2007 (by ET Leader)	Environmental Protection Department (EPD) received a public	Site Activities	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
	Garden		complaint about environment nuisance generated from Route 8 – Lai Chi Kok Viaduct Project. EPD subsequently referred the complaint to ET Leader on 17 th January 2007. The complaint was concerned construction noise near Banyan Garden within the period of 01:00 – 02:00hr on 11 th January 2007.	concerned area was mainly central stitch construction and parapet erection and similar works will be carried out in the concerned site in coming one month. The equipment used on site during the complaint period was covered under the construction noise permit (CNP) no. GW-RW0624-06. Based on the RSS's record of PME used in the concerned area from 1 st December 2006 to 13 th January 2007, the construction works complied with the CNP no. GW-RW0624-06. Conclusion Based on the information collected, the complaint is considered unjustifiable as the equipment used complied with the CNP conditions. Nevertheless, the Contractor was recommended to take further noise mitigation measures to minimize the environmental impact on the nearby community: To strengthen management on worker's working manner, such as avoiding dropping materials on ground; No hammering is allowed during restricted hours; and To provide adequate training to workers working, esp. for	
			The Integrated Compleint Control	night works.	
70723	Construction site near Mei Lai Road and Tong Nai Kan College	17 th July 2007 (by ET Leader)	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint through telephone on 21 July 2007 about an environment nuisance generated from Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 23 July 2007. The complaint was concerned about noise generated from the construction	Site Activities The concerned site was likely the Slope CCR-S4 near Ching Cheung Road. A location plan is provided in Appendix A and the work programme near Slope CCR-S4 from February 2007 to September 2007 is provided in Appendix B. According to RSS's record and the above mentioned work programme, excavation and rock breaking works for slope stabilization near the Slope CCR-S4 was begun on early of July 2007 and to be completed on early of August 2007. As advised by the RSS, noise mitigation measures implemented at the concerned site include: - installing a line of noise barriers formed by acoustic	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			works near Mei Lai Road and Tong Nai Kan College.	materials in front of the noise sources; - warping the breaker with acoustic material; and - deploying silence type of breaker.	
				Environmental Monitoring	
				During the weekly site inspections in July 2007, no non-compliance or observation on noise was recorded.	
				Accordance to the EM&A programme, one noise monitoring station at Mei Foo Sun Chuen, Phase 5 (NM4) was set up in order to monitor the noise level generated from the construction activities.	
				The noise monitoring results in the period between 3 rd and 23 rd July 2007 at Mei Foo Sun Chuen, Phase 5 are all lower than or equal to the noise criterion of 75 dB(A). No exceedance of noise level has been recorded in the above mentioned period.	
				Conclusion Base on the information collected and the monitoring result, the complaints are considered not justifiable.	
				It was suspected that the nuisance was caused by the breaking activities. However, the Contractor has implemented the mitigation measures to minimize the noise generation from construction activities.	
71003	Construction site near Ching Cheung Road and Tong Nai Kan College	3 rd October 2007 (by ET Leader)	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint through telephone on 1 October 2007 about an environment nuisance generated from Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint	Site Activities According to RSS's record, approximately 100m long asphalt material on carriageway was removed on 30 th September and 1 st October 2007. The equipment used on site during the complaint period was covered under the construction noise permit (CNP) no. GW-RW0469-07.	Closed
	22000		to the Environmental Team (ET) Leader of the Project on 3 October 2007	Environmental Monitoring	
				During the weekly site inspections in September 2007, no non-	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			The complaint was concerned construction noise near Tong Nai Kan College and Ching Cheung Road during public holiday on 1 st October 2007.	compliance or observation on noise was recorded. Accordance to the EM&A programme, one noise monitoring station at Mei Foo Sun Chuen, Phase 5 (NM4) was set up in order to monitor the noise level generated from the construction activities. The noise monitoring results on 25 September 2007 and 2 October 207 at Mei Foo Sun Chuen, Phase 5 are all lower than the noise criterion of 75 dB(A). No exceedance of noise level has been recorded in the above mentioned period	
				Conclusion Based on the information collected, the complaint is considered unjustifiable as the equipment used complied with the CNP conditions. Nevertheless, the Contractor was recommended to implement a good sit practice and mitigation measures to prevent noise nuisance generated from the construction work to minimize the environmental impact on the nearby community: - wrapping the breaker with acoustic material; and - deploying silence type of breaker.	
71119	Construction site near Nob Hill	19 th November 2007 (by ET Leader)	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint through telephone on 16 November 2007 about a noise nuisance generated from Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 19 November 2007 The complaint was concerned the noise generated from breaking the footpath on King Lai Path opposite to Nob Hill on 16 November 2007	Site Activities According to the RSS, footpath breaking by hand-held breaker was carried out on 16 November 2007. Environmental Monitoring During the weekly site inspections on November 2007, no non-compliance or observation on noise was recorded. Accordance to the EM&A programme, noise monitoring was conducted at Nob Hill M/F of Car Park (NM8a) and 3/F of Car Park (NM8b) in order to monitor the noise level generated from the construction activities. There was no Action/Limit Level exceedance identified, except the noise monitoring conducted at Station NM8b on 12 November 2007, which is strongly influenced by the road traffic noise from Ching Cheung Road. The measurements at these two stations are for reference purpose but not for compliance check for construction noise.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				Conclusion Base on the information collected and the monitoring result, the complaints are considered not justifiable.	
				Nevertheless, the Contractor was recommended to implement a good sit practice and mitigation measures to prevent noise nuisance generated from the construction work to minimize the environmental impact on the nearby community: - wrapping the breaker with acoustic material; and - deploying silence type of breaker.	
71121	Construction site at Lai Wan Road opposite to the Lai Chi Kok Park Sports Centre	21 st November 2007 (by ET Leader)	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint through telephone on 21 st November 2007 about the construction dust nuisance generated from Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 21 st November 2007 The complaint was raised by a resident via the ICC hotline and EPD about the construction dust generated from the lorry (JA2315) leaving the works site opposite to Lai Chi Kok Park Sports Centre at 8.35am on 21 st November 2007	Site Activities According to the information provided by RSS, the site of the concern was likely to be the site access at R2 opposite to Lai Chi Kok Park Sports Centre. The construction works at the sports centre included the masonry on retaining wall, surface drain along slope toe, road work at the footpath, street furniture and reinstatement the pavement. Environmental Monitoring During the weekly site inspection on 21 November 2007, no non-compliance or major dust generation construction activity was recorded. Accordance to the EM&A programme, the air monitoring station at Lai Chi Kok Sports Centre (AM2), was set up in order to monitor the dust level generated from the construction activities. There was no exceedance of the air quality monitoring results and dust mitigation measures were implemented by the Contractor. Conclusion Base on the information collected and the monitoring results, the complaints are considered not justifiable. It was because there was no exceedance of the air quality monitoring results. After receiving the complaint, the Contractor has further enhanced the dust mitigation measures as follows:-	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				The environmental conditions of the site will be continuously reviewed by the RSS and the Environmental Team through site inspections and monitoring exercises.	
80103	Construction site near the junction of King Lai Path and Lai Wan Road	3 rd January 2008 (by ET Leader)	Environmental Protection Department (EPD) received a public complaint about the construction dust generated from Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project near the Junction of King Lai Path and Lai Wan Road. EPD subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 3 January 2008 The complaint was raised by a resident via the EPD about the construction dust of slope works near the junction of King Lai Path and Lai Wan Road on 3rd January 2008.	Site Activities Based on the information provided by the ER, the construction site was likely to be the slope CCR-S1 between Lai Wan Road and Lai King Hill Road. According to RSS's record, rock slope stabilization measures was carried on at batter 8 of slope CCR-S1. Rock drilling for installation of rock dowels (6m long) at CCR-S1 was commenced on 20 December 2007 and would likely last up to the 2 February 2008 Environmental Monitoring During the ET's weekly environmental site inspection on 28 December 2007 and 9 January 2008 and the monthly site inspection on the 2 January 2008. There was no serious dust nuisance induced by the Projects at slope CCR-S1 while rock drilling was carrying out at the slope. As advised by the RSS, a three side's tarpaulin covering sheets were provided by the Contractor to suppress the dust nuisance generated from the rock drilling works. On 5 January 2008, the drilling rig was wrapped with a we thick towel and the speed of the drill was controlled. Besides, there was no Action/Limit Level exceedance for both 1-hr and 24-hr TSP identified during the period in between the 20 December2007 and 9 January 2008. Conclusion Base on the information collected and the monitoring results,	Closed
				the complaint was considered not justifiable. It was because there was no exceedance of the air quality monitoring results and dust mitigation measures were implemented by the Contractor during the rock drilling works. After receiving the complaint, the Contractor has further enhanced the dust mitigation measures as follows: • Apply water spraying for any dust emissive activities, such	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				 as breaking, excavation, loading and unloading of dusty materials Cover long-term idle exposed slope surfaces and stockpiles with tarpaulin sheets; The environmental conditions of the site will be continuously reviewed by the RSS and the Environmental Team through site inspections and monitoring exercises. 	
80121	Construction site near Nob Hill	21st January 2008 (by ET Leader)	The Resident Site Staff (RSS) received a verbal complaint from a Legislative Council member, Mr. Cheung, on 21 January 2008. The complaint was about the construction noise and dust generated from Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project near Nob Hill. The RSS subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on the same day The complaint was raised by a Legislative Council member, Mr. Cheung, via the RSS about the construction noise and dust nuisances generated near Nob Hill on 21st January 2008.	Contractor Action As advised by the RSS, tarpaulin covering, water spraying and temporary noise absorbent materials were provided by the Contractor to suppress the dust and noise nuisance generated from the rock drilling works. Besides, the working hours was lie in between the normal working hours from 7am to 7pm Environmental Monitoring Weekly site inspection was performed by ET on 28 th December 2007, 2 nd , 9 th , 16 th , 23 rd January 2008. A joint environmental site audit was also conducted on 2 nd January 2008 with the representatives of IEC, RSS, the Contractor and ET. There was no non-compliance or observation with regard to noise and dust	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				No Action / Limit level exceedance was identified in the period between 20 th December 2007 and 24 January 2008.	
				Conclusion Based on the RSS's information, environmental monitoring results as well as the observations made during site inspections, this complaint is considered to be invalid and not due to the construction activities of the Project.	
				It was because there was no exceedance of the air quality monitoring results and dust mitigation measures were implemented by the Contractor during the rock drilling works.	
				However, the Contractor was still recommended to take the following mitigation measures to minimize the environmental impact on the nearby community:	
				<u>Dust Nuisance</u>	
				To cover excavated dusty materials by impervious sheeting;	
				• To provide water spray for haul roads, loading/unloading and concrete breaking operations;	
				To perform wheel wash for every vehicle immediately before leaving the site;	
				 Apply water spraying for any dust emissive activities, such as breaking, excavation, loading and unloading of dusty materials; and 	
				Cover long-term idle exposed slope surfaces and stockpiles with tarpaulin sheets.	
				Construction Noise	
				To space out noisy equipment and position it as far away as possible from the sensitive receivers;	
				To avoid concurrent uses of noisy equipment near the sensitive area;	
				To ensure the equipment are maintaining in good operation condition;	
				To turn off any idle equipment on site;	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				Silence-type breakers were employed for the rock breaking work close to the sensitive receivers;	
				To wrap the breaker with acoustic material; and	
				• While the permitted hours for construction works are 7am to 7pm on non-holidays, the Contractor has commenced the rock breaking activity after 8:30am. This arrangement could effectively reduce the disturbance to the residents within the more sensitive time period (7:00 am to 8:30 am).	
				The environmental conditions of the site will be continuously reviewed by the Resident Site Staff and the Environmental Team through site inspections and monitoring exercises.	
			The Highways Department (HyD) received a public complaint through telephone on 29 February 2008 about	Information from RSS According to RSS's record, the movement joints have been installed for about half year under the Project design and satisfactory procedures.	
			the noise nuisance generated from Route 8 – Lai Chi Kok Viaduct (R8- LCKV) Project near Nob Hill. The Resident Site Staff (RSS) subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on the same	Environmental Monitoring The recent weekly site inspection was performed by ET on 27 th February 2008. No abnormal noise nuisance was noticed during the site inspection. The major noise source was identified to be traffic noise.	
80229	Ching Cheung Road near Nob Hill	29 th February 2008 (by ET Leader)	day. The complaint was concerned the noise nuisance generated when vehicles passing over the movement joints at both bound of the Ching Cheung Road	Review of Environmental Monitoring Results Regular construction noise monitoring works were performed by ET, in accordance with the EM&A Manual. The monitoring stations, which are in the vicinity of the concerned works areas, include: Noise Monitoring Stations NM8a: M/F of Nob Hill NM8b: 3/F of Nob Hill	Closed
			carriageway at night.	The time period of construction noise monitoring was within normal working hours (7am to 7pm) on a weekday not being a public holiday. There is no control of construction noise based on the Noise Control Ordinance within this time period.	

Log Ref.	Location	Received Date	Details of Complaint			itigation Action		Status	
				However, according to the EM&A Manual of the Project, the criterion of construction noise in term of Leq-30min within this period is 75 dB(A) for domestic premises.					
				Stations NM8a an May 2004. Static Nob Hill, which Ching Cheung R reference purpose noise. The meast located at M/F of acts as an indicated. The monitoring January 2007 and as below:	on NM8b is lot is strongly in oad. The me, but not for coured noise left car park and or of the construction of the constructi	ocated at 3/F of the fluenced by traff asurement at this compliance check of vel at Station NM closer to the confuction noise.	the car park of ic noise from station is for of construction M8a, which is astruction site,		
				Table 1	– Noise Mon	itoring Results at Hill	NM8a, Nob		
					Measured Noise Level, dB(A)	Date	Measured Noise Level, dB(A)		
				3-Jan-07	75.9	2-Oct-07	73.1		
				11-Jan-07	70.6	8-Oct-07	73.4		
				16-Jan-07	74.3	15-Oct-07	71.2		
				23-Jan-07	70.8	23-Oct-07	72.6		
						30-Oct-07	73.8		
				2-Apr-07	73.7	4-Jan-08	73.7		
				10-Apr-07	74.2	8-Jan-08	72.7		
				17-Apr-07	73.5	15-Jan-08	73.8		
				24-Apr-07	74.6	22-Jan-08	72.4		
						1	ı		

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action				Status
				3-Jul-07	71.9	4-Feb-08	72.9	
				10-Jul-07	71.9	12-Feb-08	73.8 73.6	
				17-Jul-07	74.7	21-Feb-08	72.6	
				23-Jul-07	73.8	26-Feb-08	72.8	
				30-Jul-07	72.5		72.0	
				and the high meas noise instead of comeasured noise le movement joints a Conclusion Based on the R results as well as	sured noise level onstruction noise level was observat Ching Cheur SS's informat the observation	construction noise of els were mainly du- ise. No obvious incoved after the installa- ing Road near Nob lution, environmenta- ins made during sit- to be invalid and	e to traffic rease of ation of the Hill.	
				It was because the noise level before at the concerned a	ere was no obve and after the area. ce should be cound at night	vious difference on installation of mo only comparatively instead of abnorma	the measured vement joints	
				Nevertheless, the site practice to movement joints, • Check and	Contractor w minimize th such as:	as recommended to the noise generated movement joints	ed from the	
				Provide lubri	C	e movement joints	to minimize	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				Provide noise absorbent (e.g. sponge) as a damper within the movement joints to reduce noise nuisance when necessary.	
				The environmental conditions of the site will be continuously reviewed by the Resident Site Staff and the Environmental Team through site inspections and monitoring exercises	
80411	Ching Cheung Road near Lai Chi Lok Park, Kowloon.	11 th Apr 2008	Environmental Protection Department (EPD)received a public complaint from Sham Shui Po DC member's Office about the construction noise generated from Route 8 – Lai Chi Kok Viaduct (R8- LCKV) Project around Widening of Ching Cheung Road near Lai Chi Lok Park, Kowloon. EPD subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 11 April 2008. The complaint was concerned the construction noise occurring on public holidays and at early morning on weekdays.	Information from RSS The major works around Widening of Ching Cheung Road near Nob Hill in the past three months included laying of bituminous paving; installation of gully pot & grating; modification of central median; installation of road marking; road studs; parapet top rails at Lai Wan Overpass; and traffic signs & modification of gantry sign face. All the above-mentioned works have been completed for Route 8 opening on 21 March 2008. The Contractor has obtained the Construction Noise Permits (GW-RW0478-07), (GW-RW0656-07), (GW-RW0669-07), (GW-RW0723-07), (GW-RW0111-08) for carrying out the construction activities during restricted hour on normal weekdays or general holidays including Sundays at the concerned area. Environmental Monitoring Weekly site inspections were performed by ET on every Wednesday morning in the past three months. A recent joint environmental site audit was also conducted on 9th April 2008 with the representatives of IEC, RSS, the Contractor and ET. No abnormal noise nuisance was noticed during the site inspection.	
				Review of Environmental Monitoring Results Regular construction noise monitoring works were performed by ET, in accordance with the EM&A Manual. The monitoring stations, which are in the vicinity of the concerned works areas, include: Noise Monitoring Stations NM4: Mei Foo Sun Chuen, Phase 5 NM8a: M/F of Nob Hill Car Park The monitoring results at NM4 and NM8a from January to	

Log Ref.	Location	Received Date	Details of Complaint		Investigation/N	Iitigation Actio	n	Status
				March 2008 are	e summarized as	below.		
				Noise Monitori	ng Results at NN	M4 and NM8a		
				Date	Measured Leq- 30min, dB(A)	Date	Measured Leq-30min, dB(A)	
				4-Jan-08	72.7	4-Jan-08	73.7	
				8-Jan-08	70.6	8-Jan-08	72.7	
				15-Jan-08	70.3	15-Jan-08	73.8	
				22-Jan-08	63.6	22-Jan-08	72.4	
				29-Jan-08	71.5	29-Jan-08	73.5	
				4-Feb-08	73.3	4-Feb-08	73.8	
				12-Feb-08	70.3	12-Feb-08	73.6	
				21-Feb-08	73.2	21-Feb-08	72.6	
				26-Feb-08	62.3	26-Feb-08	72.8	
						•		
				4-Mar-08	73.2	4-Mar-08	72.7	
				11-Mar-08	65.8	11-Mar-08	69.9	
				18-Mar-08	67.8	18-Mar-08	69.8	
				27-Mar-08	72.8	27-Mar-08	72.3	
				traffic noise fr	om Ching Che		identified. Road identified as the 14 and NM8a.	
				the complaint v	was considered r	not justifiable as	onitoring results, no Action/Limit monitoring was	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				identified as well as construction activities were carried out with Construction Noise Permit at night and during public holidays.	
				Nevertheless, the Contractor was recommended to adopt good site practice to minimize the construction noise, such as:	
				Noise Control To space out noisy equipment and position it as far away as possible from the sensitive receivers; To avoid concurrent uses of noisy equipment near the sensitive area; To ensure the equipment are maintaining in good operation condition; To turn off any idle equipment on site; Wrapping of tools with acoustic material as far as possible; Erection of mill barriers with acoustic material adjacent to noise source; and Laying of hessin bags on ground to absorb noise generated due	
				to accidental falling of hand tools on ground. The environmental conditions of the site will be continuously reviewed by the Resident Site Staff and the Environmental Team.	