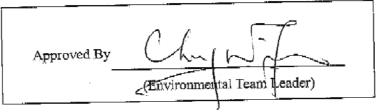
Highways Department

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 1.0)

> > November 2006



REMARKS:

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

CINOTECH accepts no responsibility for changes made to this report by third parties.

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TABLE OF CONTENTS

EX	ECUTIVE SUMMARY	1
	Introduction Environmental Monitoring and Audit Works Environmental Licenses and Permits Key Information in the Reporting Month	1
1.	INTRODUCTION	4
	Background Project Organizations Construction Programme Summary of EM&A Requirements	5 5
2.	AIR QUALITY	8
	Monitoring Requirements Monitoring Locations Monitoring Equipment Monitoring Parameters, Frequency and Duration Monitoring Methodology and QA/QC Procedure Results and Observations	8 8 9
3.	NOISE	11
	Monitoring Requirements Monitoring Locations Monitoring Equipment Monitoring Parameters, Frequency and Duration Monitoring Methodology and QA/QC Procedures Maintenance and Calibration Results and Observations	11 12 12 12 12
4.	ENVIRONMENTAL AUDIT	15
	Site Audits Review of Environmental Monitoring Procedures Status of Environmental Licensing and Permitting Implementation Status of Environmental Mitigation Measures Summary of Exceedances Implementation Status of Event Action Plans Summary of Complaint and Prosecution	15 15 15 20 21
5.	FUTURE KEY ISSUES	22
	Key Issues for the Coming Month Monitoring Schedule for the Next Month Construction Program for the Next Month	22
6.	CONCLUSIONS AND RECOMMENDATIONS	23
	Conclusions	

LIST OF TABLES

- Table I
 Summary Table for Events Recorded in the Reporting Month
- Table II
 Summary Table for Key Information in the Reporting Month
- Table 1.1Key Project Contacts
- Table 2.1Locations for Air Quality Monitoring
- Table 2.2Air Quality Monitoring Equipment
- Table 2.3Impact Dust Monitoring Parameters, Frequency and Duration
- Table 3.1Noise Monitoring Stations
- Table 3.2Noise Monitoring Equipment
- Table 3.3
 Noise Monitoring Parameters, Frequency and Duration
- Table 4.1
 Summary of Environmental Licensing and Permit Status
- Table 4.2Observations and Recommendations of Site Audit

LIST OF FIGURES

Figure 1 Locations of Monitoring Stations

LIST OF APPENDICES

- A Action and Limit Levels for Air Quality and Noise
- B Copies of Calibration Certificates
- C Environmental Monitoring Schedules
- D Wind Data
- E 1-hour TSP Monitoring Results and Graphical Presentations
- F 24-hour TSP Monitoring Results and Graphical Presentations
- G Noise Monitoring Results and Graphical Presentations
- H Summary of Exceedance
- I Site Audit Summary
- J Event Action Plans
- K Environmental Mitigation Implementation Schedule (EMIS)
- L Construction Programme
- M Complaint Log

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 Exceedancne
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 thirty-sixth 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 November 2006 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:

- Rock dowel installation at Slope CCR-S1 & CCR-S4
- Bulk excavation works at Slope CCR-S4, CCR-R6 and LCK-R3
- Retaining wall construction at CCR-R1 to CCR-R6 and LCK-R2 to LCK-R3
- Drainage works at Lai Po Road, Castle Peak Road and Butterfly Valley Road
- Offsite fabrication of parapet and noise barrier
- Cast in-situ of Slip Roads C and D
- Parapet installation for Main Viaduct and slip roads A to D
- Erection of noise barrier at Slip Roads A, C and D
- Construction of Wai Man Tsuen Pump House & Irrigation Pump House near Pier C14 and kiosk at CCR-S1
- Hydroseeding for Slope CCR-S1 & S3

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

- No TCSS works was commenced in the reporting month.

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

Parameter	No. of]	Events	No. of Events	Action Taken
1 al ameter	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	3	0	0	Complaint Investigation Reports were submitted

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). Total of three 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 Sur	mmary Table	for Key Info	ormation in the	Reporting Month
--------------	-------------	--------------	-----------------	------------------------

Event	Event Details		Action Taken	Status	Remark	
Event	Number	Nature	Action Taken	Status	IXCIIIAI K	
Complaint received	3	Noise	Complaint Investigation	Closed		
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 month include:

- Rock dowel installation at slope CCR-S1 & CCR-S4.
- Bulk excavation works at slope CCR-S4, CCR-R6 and LCK-R3.
- Retaining wall construction at CCR-R1 to CCR-R6 and LCK-R2 to LCK-R3.
- Drainage works at Lai Po Road, Castle Peak Road and Butterfly Valley Road.
- Offsite fabrication of parapet and noise barrier.
- Cast in-situ of slip roads \hat{C} and D.
- Parapet installation for Main Viaduct and slip roads A to D.
- Erection of noise barrier at slip roads A, B C, D and Main Viaduct.
- Construction of Wai Man Tsuen pump house & Irrigation Pump House near Pier C14 and kiosk at CCR-S1.
- Hydroseeding for Slope CCR-S1 & S3.

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

• The TCSS works is anticipated not commenced in the coming month.

The anticipated environmental issues will be mainly on dust impact from bulk excavation works and noise nuisance from construction of Wai Man Tsuen Pump House and Irrigation Pump House near Pier C14.

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 August 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/A was subsequently issued on 20 May 2003 for R9K (R9K EP) to HyD as Permit Holder. A varied EP-103/2001/C was recently issued on 22 July 2005.

- 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. David YEUNG of CH2M HILL Hong Kong Ltd. was appointed as the IEC under Condition 2.1 of the EP. This is the thirty-sixth monthly EM&A report summarizing the EM&A works for the Project in November 2006.

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.
- 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:
 - Rock dowel installation at Slope CCR-S1 & CCR-S4
 - Bulk excavation works at Slope CCR-S4, CCR-R6 and LCK-R3
 - Retaining wall construction at CCR-R1 to CCR-R6 and LCK-R2 to LCK-R3
 - Drainage works at Lai Po Road, Castle Peak Road and Butterfly Valley Road
 - Offsite fabrication of parapet and noise barrier
 - Cast *in-situ* of Slip Roads C and D
 - Parapet installation for Main Viaduct and slip roads A to D
 - Erection of noise barrier at Slip Roads A, C and D
 - Construction of Wai Man Tsuen Pump House & Irrigation Pump House near Pier C14 and kiosk at CCR-S1
 - Hydroseeding for Slope CCR-S1 & S3

- 1.12 The site activities for TCSS works undertaken in the reporting month included:
 - No TCSS works was commenced in the reporting month.

Party	Role	Name	Position	Phone No.	Fax No.
		Mr. Kroc Leung	SE2/R8K	2762 3662	
HyD	Permit Holder	Mr. Esther Yung	E1/R8K	2762 3677	2714 5198
		Mr. LC Chung	E2/R8K	2762 3613	
	Engineer	Mr. Conrad Ng	Project Manager	2605 6262	2691 2649
MHJV		Mr. D.F. Lilliman	CRE	2959 0010	
MHJV	Engineer's Representative	Mr. Henry Liu	SRE	2991 1068	2959 0290
	Representative	Mr. Joseph Chi	RE	2991 1034	
		Dr. Priscilla Choy	ET Leader	2151 2089	
		Mr. Jesse Yuen Project M	Project Manager	2151 2091	
Cinotech		Project Coordinator	2151 2068	3107 1388	
	Team	Mr. Ray Yan	Audit Team Leader	2947 8682	
		Mr. Henry Leung	Monitoring Team Leader	2151 2087	
CH2M	Independent Environmental	Mr. David Yeung	Independent Environmental Checker	2872 2934	2507 2293
СП2М	Checker	Mr. Billy Yu	Assistant Independent Environmental Checker	2872 2949	2307 2293
Acciona	Contractor	Mr. William D. Payne	Project Director	2956 3300	2956 3331
Acciolia	Contractor	Mr. Lawrence Kwok	QA/E Manager	2930 3300	2930 3331
24-hour Er	mergency Hotline			2370 9200	-

Table 1.1 Key Project Contacts

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 2.2Air Quality Monitoring Equipment

Equipment	Model and Make	Quantity
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 $1.1 \text{ m}^3/\text{min.}$ and $1.4 \text{ m}^3/\text{min.}$) 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 \pm 3°C; the relative humidity (RH) should be < 50% and not vary by more than \pm 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 TSP monitoring was conducted as scheduled in this reporting month. No Action/Limit Level exceedance for both 1-hr and 24-hr TSP was recorded in the reporting month.
- 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 L_{10} and L_{90} 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.

Stations*	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

Table 3.1Noise Monitoring Stations

(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 3.2Noise 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 3.3Noise Monitoring Parameters, Frequency and Duration

Stations	Parameter	Period	Frequency	Measurement
NM2	$L_{10}(30 \text{ min.})dB(A) \\ L_{90}(30 \text{ min.})dB(A) \\ L_{eq}(30 \text{ min.})dB(A)$			Façade
NM4				Façade
NM8a		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 weighting : A
 - time weighting
- : 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 Limit Level exceedance was recorded in the reporting month but 3 Action Level exceedances were triggered due to receiving three complaints.
- 3.16 The first complaint was referred by the RSS on 3rd November 2006 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 28th October 2006. The complaint was considered not justifiable and the complaint investigation report was submitted to Highways Department on 22nd November 2006.
- 3.17 The second complaint was referred by the RSS on 21st November 2006 about noise generated from the construction works between 09:00 and 18:30 at the area near Lai Chi Kok Swimming Pool. The complaint was considered not justifiable and the complaint investigation report was submitted to Highways Department on 1st December 2006.
- 3.18 The third complaint was referred by the RSS on 21st November 2006 about dust and noise generated from the construction works opposite Tong Nai Kan College. The complaint was

considered not justifiable and the complaint investigation report was submitted to Highways Department on 1st December 2006.

- 3.19 At Stations NM8a and NM8b, the major noise source identified during the monitoring exercises was mainly the road traffic noise.
- 3.20 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 were conducted on 1st, 8th, 15th, 22nd and 28th November 2006 by ET. The audit sessions on 1st and 28th November 2006 were conducted with the representatives of HyD, IEC, ER, the Contractor and ET. The ER and the Contractor for TCSS works were invited to attend the monthly environmental site audit on 28th December 2006 and no environmental deficiency for TCSS works was observed.

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 permits/licenses obtained for the Project are summarized in **Table 4.1**. Total of three new CNPs was 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
-----------	--

Doumit No	Valid	Period	Dataila	Status
Permit No.	From	То	- Details	Status
Environmental Per	mit (EP)			
EP-103/2001/C	22/7/05	N/A	 <u>Construction and operation of</u> (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; (c) 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	nical Wast	e Producer		
WPN 5213-261- N2413-04	17/11/03	N/A	N/A	Valid
Water Discharge Li	isence			
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).	Valid
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.	Valid
Construction Noise	Permit (CN	(P)		
GW-RW0269-06	15/5/06	14/11/06	<i>Location:</i> Lai Po Road near Yuet Lun Street <i>Time Period:</i> General holiday (includes Sundays) between 0000-2400 hours and any day not being a general holiday between 1900-0700 hours.	Expired
GW-RW0270-06	15/5/06	14/11/06	<i>Location:</i> Lai Po Road near Hoi Lai Estate <i>Time Period:</i> General holiday (includes Sundays) between 0000-2400 hours and any day not being a general holiday between 1900-0700 hours.	Expired
GW-RW0271-06	15/5/06	10/11/06	<i>Location:</i> Ching Cheung Road near Butterfly Valley Road <i>Time Period:</i> Any day not being a general holiday between 2100-2400 hours (immediately following a general holiday) and between 2100-0700 hours (not immediately following a general holiday).	Expired
GW-RW0276-06	15/5/06	11/11/06	<i>Location:</i> Butterfly Valley Road near Lai Chi Kok Interchange <i>Time Period:</i> Any day not being a general holiday between 2100-2400 hours (immediately following a general holiday) and between 2100-0700 hours (not immediately following a general holiday).	Expired

Permit No.	Valid	Period	Details	Status
refinit No.	From	То	Details	Status
GW-RW0319-06	30/5/06	26/11/06	<i>Location:</i> Ching Cheung Road near Butterfly Valley Road <i>Time Period:</i> General holiday (includes Sundays) between 0000-2400 hours and any day not being a general holiday between 1900-0700 hours.	Expired
GW-RW0311-06	6/6/06	5/12/06	<i>Location:</i> Butterfly Valley near O Pui Shan Boys' Home <i>Time Period:</i> General holiday (including Sundays) between 0700-2300 hours and any day not being a general holiday between 1900-2300 hours.	Valid
GW-RW0381-06	17/7/06	16/12/06	<i>Location:</i> Kwai Chung Road near Lai Chi Kok Interchange <i>Time Period:</i> Any day not being a general holiday between 2100-2400 (immediately following a general holiday) and 2100-0700 (not immediately following a general holiday).	Valid
GW-RW0393-06	27/7/06	25/1/07	<i>Location:</i> Lai Wan Road <i>Time Period:</i> Any day not being a general holiday between 2100-2400 (immediately following a general holiday) and 2100-0700 (not immediately following a general holiday).	Valid
GW-RW0408-06	02/8/06	30/12/06	<i>Location:</i> Lai Po Road near Hoi Lai Estate <i>Time Period:</i> Any day not being a general holiday between 2100-2400 (immediately following a general holiday) and 2100-0700 (not immediately following a general holiday).	Valid
GW-RW0421-06	3/8/06	2/1/07	<i>Location:</i> Lai Po Road near Sham Mong Road <i>Time Period:</i> Any day not being a general holiday between 19:00 - 07:00 and 00:00 - 24:00 (general holiday including Sundays).	Valid
GW-RW0468-06	7/9/06	5/2/07	<i>Location:</i> Ching Cheung Road near Castle Peak Road <i>Time Period:</i> 0700-2300 (general holiday including Sundays) and 1900-2300 (any day not being a general holiday).	Valid
GW-RW0498-06	16/9/06	15/3/07	<i>Location:</i> Butterfly Valley <i>Time Period:</i> 0700-2300 (general holiday including Sundays) and 1900-2300 (any day not being a general holiday).	Valid
GW-RW0508-06	13/9/06	12/3/07	<i>Location</i> : Butterfly Valley Interchange <i>Time Period</i> Any day not being a general holiday between 2100-2400 hours (immediately following a general holiday) and between 2100-0700 hours (not immediately following a general holiday).	Valid
GW-RW0509-06	13/9/06	12/3/07	<i>Location:</i> Castle Peak Road and Butterfly Valley Road <i>Time Period</i> Any day not being a general holiday between 2100-2400 hours (immediately following a general holiday) and between 2100-0700 hours (not immediately following a general holiday).	Cancelled on 9 th Oct 2006
GW-RW0513-06	17/9/06	11/3/07	<i>Location:</i> Junction of Castle Peak Road and Ching Cheung Road <i>Time Period:</i> 0900-1900 (general holiday including Sundays).	Valid

D	Valid	Period	D.4.9.	States
Permit No.	From	То	Details	Status
GW-RW0515-06	24/9/06	26/12/06	<i>Location:</i> Ching Cheung Road near Butterfly Valley <i>Time Period:</i> 0900-2100 (general holiday including Sundays) and 2100-0700 (any day not being a general holiday).	Valid
GW-RW0558-06	1/10/06	31/3/07	<i>Location:</i> Butterfly Valley Road <i>Time Period:</i> 0700-2300 (general holiday including Sundays) and 1900-2300 (any day not being a general holiday).	Valid
GW-RW0563-06	2/10/06	1/4/07	<i>Location:</i> Ching Cheung Road - Lai Wan Road Overpass near Nob Hill <i>Time Period:</i> 0900-2300 (general holiday including Sundays) and 1900-2300 (any daynot being a general holiday).	Valid
GW-RW0565-06	4/10/06	3/4/07	<i>Location:</i> Castle Peak Road near Ching Cheung Road <i>Time Period:</i> 0700-2300 (general holiday including Sundays) and 1900-2300 (any daynot being a general holiday).	Valid
GW-RW0580-06	9/10/06	9/3/07	<i>Location:</i> Castle Peak Road and Butterfly Road <i>Time Period:</i> Any day not being a general holiday for 2100-2400 (immediately following a general holiday) and 2100-0700 hours (not immediately following a general holiday).	Valid
GW-RW0581-06	7/10/06	6/4/07	<i>Location:</i> Junction of Ching Cheung Road and Castle Peak Road <i>Time Period:</i> 0700-2300 (general holiday including Sundays) and 1900-2300 (any day not being a general holiday).	Valid
GW-RW0582-06	9/10/06	8/3/07	<i>Location:</i> Butterfly Valley Interchange <i>Time Period:</i> Any day not being a general holiday for 2100-2400 (immediately following a general holiday) and 2100-0700 hours (not immediately following a general holiday).	Valid
GW-RW0596-06	17/10/06	16/3/07	<i>Location:</i> Ching Cheung Road near Butterfly Valley <i>Time Period:</i> Any day not being a general holiday for 2100-2400 (immediately following a general holiday) and 2100-0700 hours (not immediately following a general holiday).	Valid
GW-RW0608-06	26/10/06	19/4/07	<i>Location:</i> Ching Cheung Road near Butterfly Valley <i>Time Period:</i> 0000-2400 (general holiday including Sundays) and 1900-0700 (any day not being a general holiday).	Cancelled on 8 Nov 06
GW-RW0624-06	27/10/06	26/4/07	<i>Location:</i> Kwai Chung Road near Lai Chi Kok Interchange <i>Time Period:</i> Any day not being a general holiday for 2100-2400 (immediately following a general holiday) and 2100-0700 hours (not immediately following a general holiday).	Valid

Permit No.	Valid	Period	Details	Status
rerinit ivo.	From	То	Details	Status
GW-RW0625-06	31/10/06	28/4/07	<i>Location:</i> Butterfly Valley Road near Lai Chi Kok Reception Centre <i>Time Period:</i> Any day not being a general holiday for 2100-2400 (immediately following a general holiday) and 2100-0700 hours (not immediately following a general holiday).	Valid
GW-RW0626-06	31/10/06	14/11/06	<i>Location:</i> Lai Po Road near Yuet Lun Street <i>Time Period:</i> Any day not being a general holiday for 2100-2400 (immediately following a general holiday) and 2100-0700 hours (not immediately following a general holiday).	Expired
GW-RW0642-06	13/11/06	11/4/07	<i>Location:</i> Butterfly Valley Road near Lai Chi Kok Interchange <i>Time Period:</i> Any day not being a general holiday between 2100-2400 hours (immediately following a general holiday) and between 0000-0700 hours & 2100-2400 hours (not immediately following a general holiday).	Valid (New)
GW-RW0643-06	8/11/06	7/5/07	<i>Location:</i> Ching Cheung Road near Butterfly Valley <i>Time Period:</i> 0000-2400 (general holiday including Sundays) and 0000-0700 & 1900-2400 (any day not being a general holiday).	Valid (New)
GW-RW0652-06	14/11/06	28/11/06	<i>Location:</i> Lai Po Road near Yuet Lun Street <i>Time period:</i> Any day not being a general holiday between 2100-2400 hours (immediately following a general holiday) and between 0000-0700 hours & 2100-2400 hours (not immediately following a general holiday).	Expired (New)

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

Table 4.2 Observations and Recommendations of Site Audits for civil works

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality	28-Nov-06	<i>Reminder</i> - Muddy soil accumulated around ditches at construction site of Lai Po Road was observed. The Contractor was reminded to remove the muddy soil as soon as possible and maintain the efficiency of the drainage system.	The situation will be inspected in next follow-up audit session.
		<i>Reminder</i> - The Contractor was reminded to modify the drainage system at S1 to divert the runoff from the site to the constructed drainage system.	The situation will be inspected in next follow-up audit session.
		<i>Reminder</i> - Standing water accumulated inside the holes at the deck was observed. The Contractor was reminded to clean up the standing water or apply larvicidal oil after rainfall.	The situation will be inspected in next follow-up audit session.
Air Quality	1-Nov-06	<i>Reminder</i> - Fugitive dust from exposed slope and stockpile was observed at Lai Po Road. The Contractor was reminded to cover the slope and stockpile to tarpaulin sheet or provide water spraying.	The situation was found improved / rectified during the audit on 8-Nov-06.
		<i>Reminder</i> - Black smoke emission from a backhoe at Slope S3 was observed. The Contractor was reminded to provide proper maintenance for the backhoe.	The situation was found improved / rectified during the audit on 8-Nov-06.
Waste/Chemical Management	28-Nov-06	<i>Reminder</i> - Oil stain from machinery was observed at construction site of Lai Po Road, the Contractor was reminded to clean up the stain properly.	The situation will be inspected in next follow-up audit session.

Summary of Exceedances

1-hr and 24-hr TSP Monitoring

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

Construction Noise Monitoring

4.8 3 Action Level exceedances (noise complaints) were recorded on 3rd and 21st November 2006. No Limit Level exceedance was recorded in the reporting month.

Implementation Status of Event Action Plans

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

Summary of Complaint and Prosecution

- 4.10 Three public complaints were received in the reporting month.
- 4.11 The first complaint was referred by the RSS on 3rd November 2006 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 28th October 2006.
- 4.12 The complaint was considered not justifiable and the complaint investigated report was submitted to Highways Department on 22nd November 2006.
- 4.13 The second complaint was referred by the RSS on 21st November 2006 about noise generated from the construction works between 09:00 and 18:30 at the area near Lai Chi Kok Swimming Pool.
- 4.14 The complaint was considered not justifiable and the complaint investigated report was submitted to Highways Department on 1st December 2006.
- 4.15 The third complaint was referred by the RSS on 21st November 2006 about dust and noise generated from the construction works opposite Tong Nai Kan College.
- 4.16 The complaint was considered not justifiable and the complaint investigated report was submitted to Highways Department on 1st December 2006.
- 4.17 No prosecution was received in the reporting month.
- 4.18 There were 34 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 month include:
 - Construction noise from excavation works, construction of pump station, rock dowel installation and retaining wall at CCR-R1 to CCR-R6 and LCK-R2 to LCK-R3;
 - Surface runoff generated at the areas CCR-S4, CCR-R3, CCR-R6 and LCK-R3; and
 - Dust generation from stockpiles of dusty materials, exposed retaining wall and bulk excavation works and haul road.

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 month include:
 - Rock dowel installation at slope CCR-S1 & CCR-S4.
 - Bulk excavation works at slope CCR-S4, CCR-R6 and LCK-R3.
 - Retaining wall construction at CCR-R1 to CCR-R6 and LCK-R2 to LCK-R3.
 - Drainage works at Lai Po Road, Castle Peak Road and Butterfly Valley Road.
 - Offsite fabrication of parapet and noise barrier.
 - Cast in-situ of slip roads C and D.
 - Parapet installation for Main Viaduct and slip roads A to D.
 - Erection of noise barrier at slip roads A, B C, D and Main Viaduct.
 - Construction of Wai Man Tsuen pump house & Irrigation Pump House near Pier C14 and kiosk at CCR-S1.
 - Hydroseeding for Slope CCR-S1 & S3.
- 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:
 - The TCSS works is anticipated not commenced in the coming month.

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 both 1-hour TSP and 24-hours TSP was recorded in the reporting month.
- 6.3 Three Action Level exceedances (noise complaint) were recorded on 3rd and 21st November 2006. No Limit Level exceedance was recorded in the reporting month.
- 6.4 3 complaints were received in the reporting month. No prosecution was 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 and implement temporary drainage system for the upcoming wet season.
- 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 rock dowel installation.
- 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.

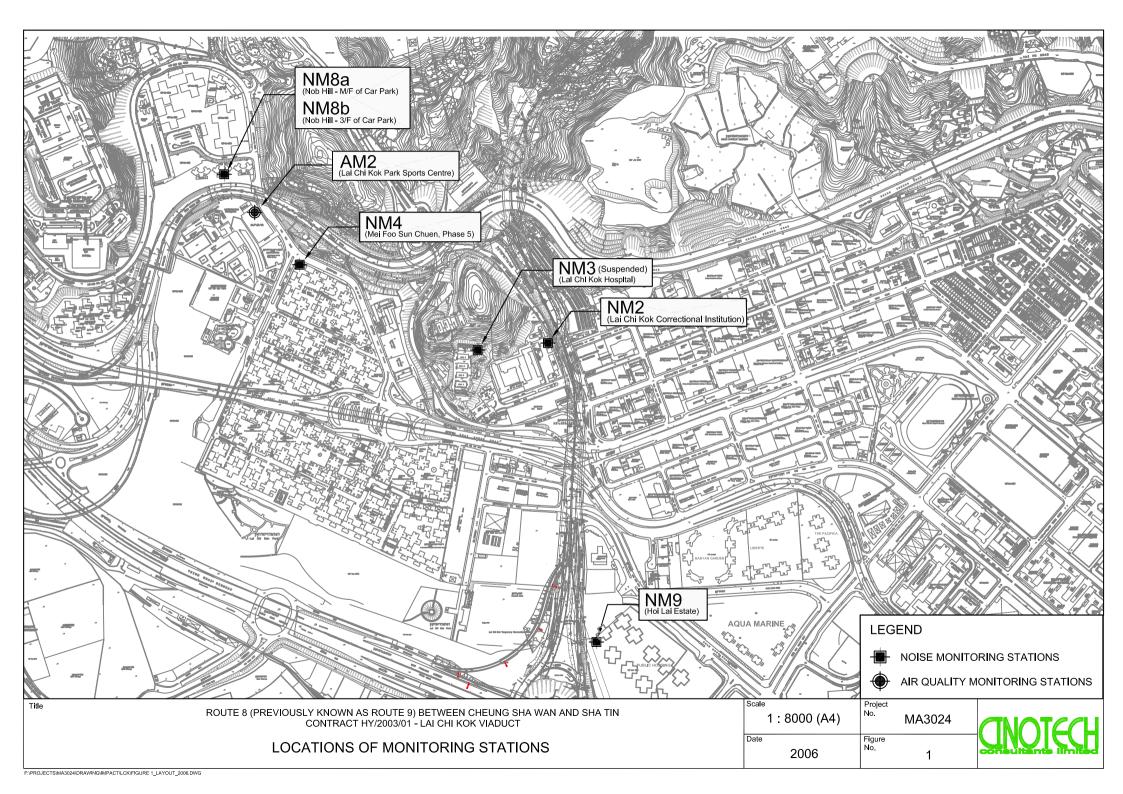
Dust Impact

- To ensure water spray is applied for the dust emissive works, such as soil nail installation, loading and unloading of soil materials, excavation works and rock dowel installation.
- 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/m ³
AM2	301	500

24-Hour TSP

Location	Action Level, μg/m ³	Limit Level, µg/m ³
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	1	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. MA3024/20/0019

Station	Lai Chi Kok Sport	Centre (AM2)	Operator:	WK
Date:	19-Sep-06		Next Due Date:	18-Nov-06
Equipment No.	: A-01-20		Serial No.	0818
			Ambient Condition	
Temperat	ure, Ta (K)	303.4	Pressure, Pa (mmHg)	760.6

	Or	ifice Transfer Sta	andard Informat	tion	
Equipment No .:	A-04-04	Slope, mc	0.0575	Intercept, bc	0.0395
Last Calibration Date:	13-Mar-06		mc x Qstd + bc	$= [\Delta H x (Pa/760) x (298/T)]$	$a)]^{1/2}$
Next Calibration Date:	12-Mar-07		$Qstd = \{ [\Delta H \ x \ ($	(Pa/760) x (298/Ta)] ^{1/2} -bc}	/ mc

		Calibration of	f TSP Sampler		
Calibration		Orfice			HVS
Point	∆H (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of oil	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y axis
1	12.6	3.52	60.52	9.1	2.99
2	- 11.0	3.29	56.50	7.4	2.70
3	7.4	2.70	46.22	4.9	2.19
4	5.0	2.22	37.87	3.1	1.75
5	3.6	1.88	32.03	2.0	1.40
	coefficient* =	0.9990 0, check and recalibrate.	-	-0.320	·
Correlation	coefficient* =	0.9990 0, check and recalibrate.	-		
Correlation (coefficient* = Coefficient < 0.99	0.9990 0, check and recalibrate. Set Point 0	- Calculation		
Correlation of *If Correlation From the TSP F	coefficient* = Coefficient < 0.99	0.9990 0, check and recalibrate. Set Point (urve, take Qstd = 43 CFM	-		
Correlation of *If Correlation From the TSP F	coefficient* = Coefficient < 0.99	0.9990 0, check and recalibrate. Set Point 0	-		
Correlation of *If Correlation From the TSP F	coefficient* = Coefficient < 0.99	0.9990 0, check and recalibrate. Set Point (urve, take Qstd = 43 CFM	– Calculation		

Remarks:					
Conducted by: Checked by:	Luik-Tang	Signature: Signature:	ku ai	Date: Date:	19 Sep 2006

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



						File No.	MA3024/20/0020
Station	Lai Chi Kok Sport Ce	ntre (AM2)		Operator:	WK		
Date:	18-Nov-06		Ν	lext Due Date:	17-Jan-(07	
quipment No.: A-01-20			Serial No.	0818			
ar Mingsan (1999) (Ambient (Condition	A Marine and		
Temperatu	re, Ta (K)	299	Pressure, Pa	(mmHg)		765	
		01	rifice Transfer Sta	indard Inform	ation		
Equipme	ent No.:	A-04-04	Slope, mc	0.0575	Intercept		0.0395
Last Calibra	ation Date:	13-Mar-06			bc = $[\Delta H \times (Pa/760) \times (298/Ta)]$		
Next Calibr	ation Date:	12-Mar-07		Qstd = $\{[\Delta H]$	x (Pa/760) x (298/	$(Ta)]^{1/2} - bc\}$	/ mc
			Calibration of	TSP Sampler		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
Calibration		Or	fice	1		HVS	1/2
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	60) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of oil	[ΔW x (Pa/	760) x (298/Ta)] ^{1/2} Y axis
1	- 12.5	(A)	3.54	60.90	9.0		3.00
2	11.0		3.32	57.09	7.4		2.72
3	7.4		2.72	46.70	5.0		2.24
4	5.0		2.24	38.26	3.1		1.76
5	3.5		1.87	31.90	1.9		1.38
If Correlation From the TSP F	coefficient = Coefficient < 0.99	90, check and re Curve, take Qstd	Set Point = 43 CFM	Calculation	Deserved to		
From the Regre	ession Equation, th	ne "Y" value acc	ording to				
		mw x	Qstd + bw = $[\Delta W]$	7 x (Pa/760) x ($(298/Ta)]^{1/2}$		
Therefore,	Set Point; W = (n	nw x Qstd + bw) ² x (760 / Pa) x (Ta / 298) =	4.0	1	-
Remarks:	D						
Conducted by: Checked by		Signature: Signature:	(Kuc	×	_	Date: Date:	18/11/20 18 NON 200
F:\Equipment\C	alibration\HVS\A-01-20\2	20061118	\sim				

WELLAB LTD.

Unit C, 1/F, Goldlion Holdings Center 13-15 Yuen Shun Circuit, Shatin, Hong Kong. Tel: (852) 2898 7388 Fax: (852) 2898 7076

TEST REPORT

APPLICANT:	Cinotech Consultants Limited
	1602-1610 Delta House,
	3 On Yiu Street,
	Shatin, N.T.

Test Report No .:	C/06/60502	
Date of Issue:	2006-05-02	
Date Received:	2006-05-01	
Date Tested:	2006-05-01	
Date Completed:	2006-05-02	
Page:	1 of 1	

ATTN:

Mr. Henry Leung

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
con	ditions:	

Test c

Room Temperature Relative Humidity Pressure

: 21 degree Celsius : 66% : 1018.4 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

PATRICK TSE Laboratory Manager

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

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Ma Operator		5 Rootsmeter Orifice I.I		9833620 0993	Ta (K) - Pa (mm) -	294 746.76
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA NA	NA NA NA NA	1.00 1.00 1.00 1.00 1.00 1.00	1.3890 0.9850 0.8810 0.8410 0.6950	3.2 6.3 7.8 8.6 12.5	2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	5	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
Qstd slop intercept coefficie	(b) =	2.03154 -0.03970 0.99999		Qa slope intercept coefficie	t (b) = ent (r) =	1.27212 -0.02496 0.99999
y axis =	SQRT [H2O(I	Pa/760) (298/5	[a)]	y axis =	SQRT [H2O (I	la/Pa)]

CALCULATIONS

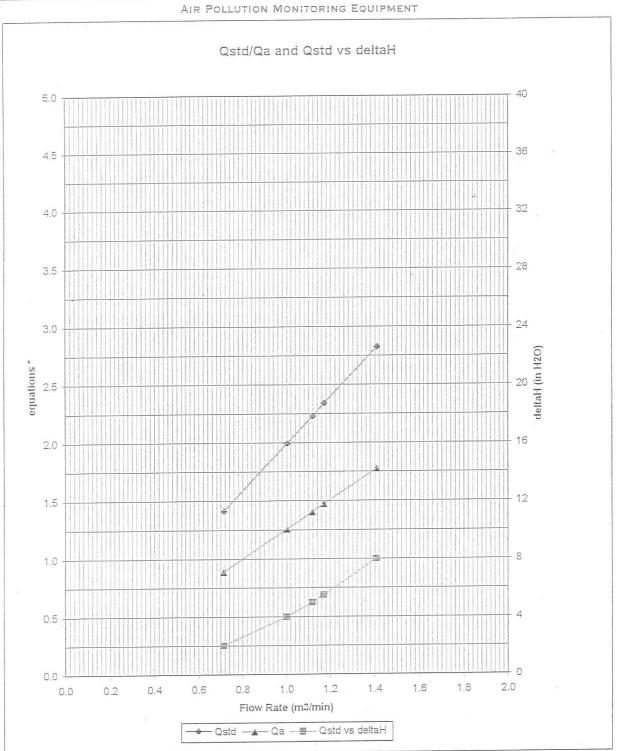
Vstd = Diff. Vol[(Pa-Diff. Hg)/760](298/Ta) Qstd = Vstd/Time

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

For subsequent flow rate calculations:

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

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



* y-axis equations: Qstd series:

P a P s t d Tstd ΔH T a $\sqrt{(\Delta H (Ta / Pa))}$

#0993

Qa series:

Unit C, 1/F, Goldlion Holdings Center 13-15 Yuen Shun Circuit, Shatin, Hong Kong. Tel: (852) 2898 7388 Fax: (852) 2898 7076

TEST REPORT

APPLICANT: Cinotech Consultants Limited 1602-1610 Delta House, 3 On Yiu Street, Shatin, N.T.

Test Report No.:	C/N/51216/1
Date of Issue:	2005-12-16
Date Received:	2005-12-15
Date Tested:	2005-12-15
Date Completed:	2005-12-16
Next Due Date:	2006-12-15
Page:	1 of 1

ATTN:

Mr. Henry Leung

Certificate of Calibration

Item for calibration:

Description Manufacturer Model No. Serial No. Microphone No. Equipment No. : Integrating Sound Level Meter : Brüel & Kjær : B&K 2238 : 2337665 : 2289749 : N-01-01

Test conditions:

Room Temperatre Relative Humidity : 20 degree Celsius : 63%

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 Operation Manager

Unit C, 1/F, Goldlion Holdings Center 13-15 Yuen Shun Circuit, Shatin, Hong Kong. Tel: (852) 2898 7388 Fax: (852) 2898 7076

TEST REPORT

APPLICANT:	Cinotech Consultants Limited	Test Report No .:	C/N/51116/1
	1602-1610 Delta House,	Date of Issue:	2005-11-16
	3 On Yiu Street,	Date Received:	2005-11-15
	Shatin, N.T.	Date Tested:	2005-11-15
		Date Completed:	2005-11-16
		Next Due Date:	2006-11-15

ATTN:

Mr. Henry Leung

Certificate of Calibration

Page:

1 of 1

Item for calibration:

Description	: Integrating Sound Level Meter
Manufacturer	: Brüel & Kjær
Model No.	: B&K 2238
Serial No.	: 2337666
Microphone No.	: 2289750
Equipment No.	: N-01-02
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

PREPARED AND CHECKED BY: For and On Behalf of **WELLAB Ltd.**

atrick

PATRICK TSE Operation Manager

Unit C, 1/F, Goldlion Holdings Center 13-15 Yuen Shun Circuit, Shatin, Hong Kong. Tel: (852) 2898 7388 Fax: (852) 2898 7076

TEST REPORT

APPLICANT:	Cinotech Consultants Limited	Test Report No.:	C/N/61116/1
	1602-1610 Delta House,	Date of Issue:	2006-11-16
	3 On Yiu Street,	Date Received:	2006-11-15
	Shatin, N.T.	Date Tested:	2006-11-15
		Date Completed:	2006-11-16
		Next Due Date:	2007-11-15
ATTN:	Mr. Henry Leung	Page:	1 of 1

Certificate of Calibration

Item for calibration:

Description	: Integrating Sound Level Meter
Manufacturer	: Brüel & Kjær
Model No.	: B&K 2238
Serial No.	: 2337666
Microphone No.	: 2289750
Equipment No.	: 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: For and On Behalf of WELLAB Ltd.

Patriels

PATRICK TSE **Operation Manager**

Unit C, 1/F, Goldlion Holdings Center 13-15 Yuen Shun Circuit, Shatin, Hong Kong. Tel: (852) 2898 7388 Fax: (852) 2898 7076

TEST REPORT

APPLICANT:	Cinotech Consultants Limited	Test Report No.:	C/N/60904-1
	1601-1610 Delta House,	Date of Issue:	2006-09-04
	3 On Yiu Street,	Date Received:	2006-09-02
	Shatin, N.T.	Date Tested:	2006-09-02
		Date Completed:	2006-09-04

ATTN:

Mr. Henry Leung

Certificate of Calibration

Item for calibration:

Description Manufacturer Model No. Serial No. Microphone No. Equipment No. : Integrating Sound Level Meter : Brüel & Kjær : B&K 2238 : 2359311 : 2346382 : N-01-03

Next Due Date:

Page:

2007-09-03

1 of 1

Test conditions:

Room Temperatre Relative Humidity : 23 degree Celsius : 64%

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.

atrick

PATRICK TSE Laborary Manager

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TEST REPORT

APPLICANT:	Cinotech Consultants Limited	Test Report No.:	C/N/60904-2
	1602-1610 Delta House,	Date of Issue:	2006-09-04
	3 On Yiu Street,	Date Received:	2006-09-02
	Shatin, N.T.	Date Tested:	2006-09-02
		Date Completed:	2006-09-04

ATTN:

Mr. Henry Leung

Certificate of Calibration

Item for calibration:

Description Manufacturer Model No. Serial No. Equipment No.

Test conditions:

Room Temperatre Relative Humidity Pressure : Integrating Sound Level Meter : Brüel & Kjær : B&K 2238 : 2359303 : N-01-04

Next Due Date:

Page:

2007-09-03

1 of 1

: 23 degree Celsius : 63% : 1006.5hPa

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

PATRICK TSE Operation Manager

Unit C, 1/F, Goldlion Holdings Center 13-15 Yuen Shun Circuit, Shatin, Hong Kong. Tel: (852) 2898 7388 Fax: (852) 2898 7076

TEST REPORT

APPLICANT:	Cinotech Consultants Limited	Test Report No .:	C/N/61014/1
	1602-1610 Delta House,	Date of Issue:	2006-10-14
	3 On Yiu Street,	Date Received:	2006-10-13
	Shatin, N.T.	Date Tested:	2006-10-14
		Date Completed:	2006-10-14
		Next Due Date:	2007-10-13

ATTN:

Mr. Henry Leung

Certificate of Calibration

Item for calibration:

Description Manufacturer Model No. Serial No. Microphone No. Equipment No. : Integrating Sound Level Meter : Brüel & Kjær : B&K 2238 : 2394976 : 2407349 : N-01-05

Page:

1 of 1

Test conditions:

Room Temperatre Relative Humidity : 21 degree Celsius : 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: For and On Behalf of **WELLAB Ltd.**

Patrick

PATRICK TSE Operation Manager

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TEST REPORT

APPLICANT:	Cinotech Consultants Limited	Test Report No .:	C/05/1115-1
	1602-1610 Delta House,	Date of Issue:	2005-11-15
	3 On Yiu Street,	Date Received:	2005-11-14
	Shatin, N.T.	Date Tested:	2005-11-15
		Date Completed:	2005-11-15
		Next Due Date:	2006-11-14

ATTN:

Mr. Henry Leung

Page:

1 of 1

Item for calibration:

Description	: Acoustical Calibrator
Manufacturer	: Brüel & Kjær
Model No.	: 4231
Serial No.	: 2326353
Project No.	: C13
Equipment No.	: N-02-01

Test conditions:

Room Temperatre	: 20 degree Celsius
Relative Humidity	: 65%
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	$94.0\pm~0.1~\mathrm{dB}$

PREPARED AND CHECKED BY: For and On Behalf of **WELLAB Ltd.**

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PATRICK TSE Operation Manager

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TEST REPORT

APPLICANT:	Cinotech Consultants Limited	Test Report No.:	C/N/61116/2
	1602-1610 Delta House,	Date of Issue:	2006-11-16
	3 On Yiu Street,	Date Received:	2006-11-15
	Shatin, N.T.	Date Tested:	2006-11-15
		Date Completed:	2006-11-16
		Next Due Date:	2007-11-15
ATTN:	Mr. Henry Leung	Page:	1 of 1

Item for calibration:

Description	: Acoustical Calibrator
Manufacturer	: Brüel & Kjær
Model No.	: 4231
Serial No.	: 2326353
Project No.	: C13
Equipment No.	: N-02-01

Test conditions:

Room Temperatre: 20 degree CelsiusRelative 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	$94.0\pm~0.1~\mathrm{dB}$

PREPARED AND CHECKED BY: For and On Behalf of **WELLAB Ltd.**

Patrick

PATRICK TSE Operation Manager

Unit C, 1/F, Goldlion Holdings Center 13-15 Yuen Shun Circuit, Shatin, Hong Kong. Tel: (852) 2898 7388 Fax: (852) 2898 7076

TEST REPORT

APPLICANT:	Cinotech Consultants L 1602-1610 Delta House, 3 On Yiu Street, Shatin, N.T.		Test Report No.: Date of Issue: Date Received: Date Tested: Date Completed:	C/06/60304 2006-03-04 2006-03-03 2006-03-03 2006-03-04
			Next Due Date:	2007-03-04
ATTN:	Mr. Henry Leung		Page:	1 of 1
Item for calibration:				
	Description	: Acoustica	al Calibrator	
]	Manufacturer	: Brüel & H	Kjær	
1	Model No.	: 4231		
	Serial No.	: 2343007		
]	Project No.	: C13		

: N-02-02

Test conditions:

: 20 degree Celsius Room Temperatre **Relative Humidity** : 71% Pressure :1020.1hPa

Equipment No.

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	$94.0\pm~0.2~\mathrm{dB}$	

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

Patrick

PATRICK TSE Operation Manager

606 - 608 Cornell Centre, 50 Wing Tai Road, Chai Wan, Hong Kong. Tel: (852) 2898 7388 Fax: (852) 2898 7076

TEST REPORT

APPLICANT:	Cinotech Consultants Limited	Test Report No.:	C/N/60904-3
	1601-1610 Delta House,	Date of Issue:	2006-09-04
	3 On Yiu Street,	Date Received:	2006-09-02
	Shatin, N.T.	Date Tested:	2006-09-02
		Date Completed:	2006-09-04
		Next Due Date:	2007-09-03
ATTN:	Mr. Henry Leung	Page:	1 of 1

Item for calibration:

Description	: Acoustical Calibrator	
Manufacturer	: Brüel & Kjær	
Model No.	: 4231	
Serial No.	: 2412367	
Equipment No.	: N-02-03	

Test conditions:

Room Temperatre	: 23 degree Celsius
Relative Humidity	: 63%
Pressure	: 1020.1hPa

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

PATRICK TSE Operation Manager

APPENDIX C ENVIRONMENTAL MONITORING AND AUDIT SCHEDULE

Environmental Monitoring for Lai Chi Kok Viaduct Tentative Air Quality and Noise Monitoring Schedule for November 2006

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
29-Oct	30-Oct	31-Oct	1-Nov	2-Nov	3-Nov	4-Nov
		1 hr TSP	1 hr TSP Noise		1 hr TSP	
					24 hrs TSP	
5-Nov	6-Nov	7-Nov	8-Nov	9-Nov	10-Nov	11-Nov
	1 hr TSP	1 hr TSP Noise			1 hr TSP	
				24 hrs TSP		
12-Nov	13-Nov	14-Nov	15-Nov	16-Nov	17-Nov	18-Nov
		1 hr TSP Noise		1 hr TSP	1 hr TSP	
			24 hrs TSP			
19-Nov	20-Nov	21-Nov	22-Nov	23-Nov	24-Nov	25-Nov
		1 hr TSP Noise	1 hr TSP	1 hr TSP		
		24 hrs TSP				24 hrs TSP
26-Nov	27-Nov	28-Nov	29-Nov	30-Nov	1-Dec	2-Dec
		1 hr TSP	1 hr TSP Noise		1 hr TSP	
	24 hrs TSP					24 hrs 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 December 2006

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
26-Nov	27-Nov	28-Nov	29-Nov	30-Nov	1-Dec	2-Dec
		1 hr TSP	1 hr TSP Noise		1 hr TSP	
	24 hr TSP					24 hr TSP
3-Dec	4-Dec	5-Dec	6-Dec	7-Dec	8-Dec	9-Dec
	1 hr TSP	1 hr TSP Noise		1 hr TSP		
					24 hr TSP	
10-Dec	11-Dec	12-Dec	13-Dec	14-Dec	15-Dec	16-Dec
	1 hr TSP			1 hr TSP Noise	1 hr TSP	
				24 hr TSP		
17-Dec	18-Dec	19-Dec	20-Dec	24 m 151 21-Dec	22-Dec	23-Dec
		1 hr TSP		1 hr TSP Noise	1 hr TSP	
			24 hr TSP			
24-Dec	25-Dec	26-Dec	27-Dec	28-Dec	29-Dec	30-Dec
			1 hr TSP	1 hr TSP Noise	1 hr TSP	
			24 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-Nov-2006	00:00	0.9	W
1-Nov-2006	01:00	0.8	W
1-Nov-2006	02:00	0.7	WNW
1-Nov-2006	03:00	0.7	W
1-Nov-2006	04:00	0.6	Ŵ
1-Nov-2006	05:00	0.6	WSW
1-Nov-2006	06:00	0.8	WSW
1-Nov-2006	07:00	0.7	SW
1-Nov-2006	08:00	0.6	SW
1-Nov-2006	09:00	0.6	SW
1-Nov-2006	10:00	0.5	WSW
1-Nov-2006	11:00	0.9	W
1-Nov-2006	12:00	0.9	WNW
1-Nov-2006	13:00	0.7	W
1-Nov-2006	14:00	1.1	W
			W
1-Nov-2006	15:00	1.2	V W
1-Nov-2006	16:00		
1-Nov-2006	17:00	0.8	WNW
1-Nov-2006	18:00	0.6	WNW
1-Nov-2006	19:00	0.6	WNW
1-Nov-2006	20:00	0.6	SW
1-Nov-2006	21:00	0.6	SSW
1-Nov-2006	22:00	1.6	SW
1-Nov-2006	23:00	1.4	SW
2-Nov-2006	00:00	1.6	SW
2-Nov-2006	01:00	1.2	SSW
2-Nov-2006	02:00	1.3	W
2-Nov-2006	03:00	1.6	SSW
2-Nov-2006	04:00	1.6	W
2-Nov-2006	05:00	1.4	WNW
2-Nov-2006	06:00	1.3	W
2-Nov-2006	07:00	1.2	W
2-Nov-2006	08:00	1.0	W
2-Nov-2006	09:00	1.2	SSW
2-Nov-2006	10:00	1.2	SW
2-Nov-2006	11:00	1.0	WSW
2-Nov-2006	12:00	1.3	W
2-Nov-2006	13:00	1.8	W
2-Nov-2006	14:00	1.4	WNW
2-Nov-2006	15:00	1.5	W
2-Nov-2006	16:00	1.5	SSW
2-Nov-2006	17:00	1.2	WSW
2-Nov-2006	18:00	1.1	S
2-Nov-2006	19:00	1.2	<u>E</u>
2-Nov-2006	20:00	1.4	SSW
2-Nov-2006	21:00	1.4	SSW
2-Nov-2006	22:00	1.7	SSW
2-Nov-2006	23:00	1.4	WNW
3-Nov-2006	00:00	1.4	W
3-Nov-2006	01:00	1.2	W
		1.2	WNW
3-Nov-2006	02:00		
3-Nov-2006	03:00	1.2	WNW
3-Nov-2006	04:00	1.1	WNW
3-Nov-2006	05:00	0.9	WNW

Date	Time	Wind Speed m/s	Direction
3-Nov-2006	06:00	0.9	W
3-Nov-2006	07:00	1.0	WSW
3-Nov-2006	08:00	1.0	SW
3-Nov-2006	09:00	1.3	WNW
3-Nov-2006	10:00	1.4	WNW
3-Nov-2006	11:00	1.5	WNW
3-Nov-2006	12:00	1.6	WNW
3-Nov-2006	13:00	1.6	WNW
3-Nov-2006	14:00	1.4	WNW
3-Nov-2006	15:00	1.3	WNW
3-Nov-2006	16:00	1.2	WNW
3-Nov-2006	17:00	1.1	WNW
3-Nov-2006	18:00	0.7	WSW
3-Nov-2006	19:00	0.4	W
3-Nov-2006	20:00	0.5	WSW
3-Nov-2006	21:00	0.4	WSW
3-Nov-2006	22:00	0.5	W
3-Nov-2006	23:00	0.4	WNW
4-Nov-2006	00:00	0.7	WNW
4-Nov-2006	01:00	0.9	WNW
4-Nov-2006	02:00	0.8	WNW
4-Nov-2006	03:00	0.9	WNW
4-Nov-2006	04:00	0.8	WNW
4-Nov-2006	05:00	0.8	WNW
4-Nov-2006	06:00	0.9	WSW
4-Nov-2006	07:00	1.0	SSW
4-Nov-2006	08:00	0.9	SW
4-Nov-2006	09:00	1.3	WNW
4-Nov-2006	10:00	1.7	WNW
4-Nov-2006	11:00	1.6	WNW
4-Nov-2006	12:00	1.7	WNW
4-Nov-2006	13:00	1.8	WNW
4-Nov-2006	14:00	1.8	WNW
4-Nov-2006	15:00	1.4	WNW
4-Nov-2006	16:00	1.2	WNW
4-Nov-2006	17:00	0.9	W
4-Nov-2006	18:00	0.9	WSW
4-Nov-2006	19:00	0.3	W
4-Nov-2006	20:00	0.1	W
4-Nov-2006	21:00	0.0	SSW
4-Nov-2006	21:00	0.0	SSW
4-Nov-2006	22:00	0.0	SW
5-Nov-2006	00:00	0.0	SW
5-Nov-2006	01:00	0.0	SSW
5-Nov-2006	01:00	0.0	SSW
5-Nov-2006	02:00	0.0	SSW
5-Nov-2006			WSW
	04:00	0.0	SSW
5-Nov-2006	05:00	0.1	<u>SSW</u>
5-Nov-2006	06:00	0.1	
5-Nov-2006	07:00	0.2	SW
5-Nov-2006	08:00	0.4	W
5-Nov-2006	09:00	0.9	WNW
5-Nov-2006	10:00	0.9	W
5-Nov-2006	11:00	0.7	W

Date	Time	Wind Speed m/s	Direction
5-Nov-2006	12:00	0.7	WNW
5-Nov-2006	13:00	1.1	W
5-Nov-2006	14:00	0.9	WSW
5-Nov-2006	15:00	1.0	W
5-Nov-2006	16:00	0.7	WSW
5-Nov-2006	17:00	0.7	SW
5-Nov-2006	18:00	0.3	SW
5-Nov-2006	19:00	0.0	SW
5-Nov-2006	20:00	0.0	WSW
5-Nov-2006	21:00	0.0	SW
5-Nov-2006	22:00	0.0	SW
5-Nov-2006	23:00	0.0	SW
6-Nov-2006	00:00	0.0	SW
6-Nov-2006	01:00	0.0	WSW
6-Nov-2006	02:00	0.0	WSW
6-Nov-2006	03:00	0.0	WSW
6-Nov-2006	04:00	0.0	WSW
6-Nov-2006	05:00	0.1	WSW
6-Nov-2006	06:00	0.1	SW
6-Nov-2006	07:00	0.0	WSW
6-Nov-2006	08:00	0.1	SW
6-Nov-2006	09:00	0.6	WSW
6-Nov-2006	10:00	0.7	SW
6-Nov-2006	11:00	1.0	W
6-Nov-2006	12:00	1.0	WNW
6-Nov-2006	13:00	1.1	WNW
6-Nov-2006	14:00	0.9	WNW
6-Nov-2006	15:00	0.9	WNW
6-Nov-2006	16:00	0.9	WSW
6-Nov-2006	17:00	0.8	WSW
6-Nov-2006	18:00	0.5	WNW
6-Nov-2006	19:00	0.2	WNW
6-Nov-2006	20:00	0.1	WNW
6-Nov-2006	21:00	0.1	W
6-Nov-2006	22:00	0.0	WSW
6-Nov-2006	23:00	0.1	WSW
7-Nov-2006	00:00	0.2	SW
7-Nov-2006	01:00	0.1	WSW
7-Nov-2006	02:00	0.2	WNW
7-Nov-2006	03:00	0.1	WSW
7-Nov-2006	04:00	0.3	WNW
7-Nov-2006	05:00	0.3	WNW
7-Nov-2006	06:00	0.2	WNW
7-Nov-2006	07:00	0.3	WNW
7-Nov-2006	08:00	0.3	WNW
7-Nov-2006	09:00	0.5	WNW
7-Nov-2006	10:00	0.7	WNW
7-Nov-2006	11:00	0.7	WNW
7-Nov-2006	12:00	0.9	NW
7-Nov-2006	13:00	0.9	WNW
7-Nov-2006	14:00	1.0	W
7-Nov-2006	15:00	0.9	WNW
7-Nov-2006	16:00	0.9	W
7-Nov-2006	17:00	0.9	W

Date	Time	Wind Speed m/s	Direction
7-Nov-2006	18:00	0.8	W
7-Nov-2006	19:00	0.6	W
7-Nov-2006	20:00	0.4	W
7-Nov-2006	21:00	0.5	W
7-Nov-2006	22:00	0.5	SSW
7-Nov-2006	23:00	0.7	W
8-Nov-2006	00:00	0.7	W
8-Nov-2006	01:00	0.7	SSW
8-Nov-2006	02:00	0.7	W
8-Nov-2006	03:00	0.9	W
8-Nov-2006	04:00	0.8	W
8-Nov-2006	05:00	0.7	W
8-Nov-2006	06:00	0.7	W
8-Nov-2006	07:00	0.8	W
8-Nov-2006	08:00	0.9	W
8-Nov-2006	09:00	1.2	W
8-Nov-2006	10:00	1.3	W
8-Nov-2006	11:00	1.4	W
8-Nov-2006	12:00	1.6	WNW
8-Nov-2006	13:00	1.7	WNW
8-Nov-2006	14:00	1.1	WNW
8-Nov-2006	15:00	1.0	W
8-Nov-2006	16:00	1.2	W
8-Nov-2006	17:00	0.8	WSW
8-Nov-2006	18:00	0.5	WSW
8-Nov-2006	19:00	0.3	S
8-Nov-2006	20:00	0.3	S
8-Nov-2006	21:00	0.3	S
8-Nov-2006	22:00	0.4	S
8-Nov-2006	23:00	0.5	SW
9-Nov-2006	00:00	0.5	SW
9-Nov-2006	01:00	0.7	WSW
9-Nov-2006	02:00	0.6	SW
9-Nov-2006	03:00	0.5	W
9-Nov-2006	04:00	0.4	S
9-Nov-2006	05:00	0.5	S
9-Nov-2006	06:00	0.5	WSW
9-Nov-2006	07:00	0.5	SW
9-Nov-2006	08:00	0.5	SW
9-Nov-2006	09:00	0.8	W
9-Nov-2006	10:00	1.4	WNW
9-Nov-2006	11:00	1.4	WNW
9-Nov-2006	12:00	1.4	WNW
9-Nov-2006	13:00	1.4	WNW
9-Nov-2006	14:00	0.9	N
9-Nov-2006	15:00	0.9	N
9-Nov-2006	16:00	1.2	NNE
9-Nov-2006	17:00	0.9	N
9-Nov-2006	18:00	0.6	E
9-Nov-2006	19:00	0.4	ENE
9-Nov-2006	20:00	0.4	ENE
9-Nov-2006	21:00	0.3	N
9-Nov-2006	21:00	0.3	WNW
9-1100-2000	22.00	0.3	VVINVV

Date	Time	Wind Speed m/s	Direction
10-Nov-2006	00:00	0.4	SW
10-Nov-2006	01:00	0.5	SW
10-Nov-2006	02:00	0.2	W
10-Nov-2006	03:00	0.2	WSW
10-Nov-2006	04:00	0.3	WSW
10-Nov-2006	05:00	0.3	WSW
10-Nov-2006	06:00	0.3	NW
10-Nov-2006	07:00	0.3	Ν
10-Nov-2006	08:00	0.3	WNW
10-Nov-2006	09:00	0.3	SW
10-Nov-2006	10:00	0.6	WSW
10-Nov-2006	11:00	0.8	WSW
10-Nov-2006	12:00	0.8	W
10-Nov-2006	13:00	0.9	WSW
10-Nov-2006	14:00	1.0	NW
10-Nov-2006	15:00	1.0	Ν
10-Nov-2006	16:00	0.9	WNW
10-Nov-2006	17:00	0.7	WNW
10-Nov-2006	18:00	0.3	W
10-Nov-2006	19:00	0.3	WSW
10-Nov-2006	20:00	0.1	SW
10-Nov-2006	21:00	0.3	<u> </u>
10-Nov-2006	22:00	0.3	N
10-Nov-2006	23:00	0.2	N
11-Nov-2006	00:00	0.3	N
11-Nov-2006	01:00	0.2	NNW
11-Nov-2006	02:00	0.1	N
11-Nov-2006	03:00	0.1	NW
11-Nov-2006	04:00	0.1	N
11-Nov-2006	05:00	0.0	N
11-Nov-2006	06:00	0.0	SW
11-Nov-2006	07:00	0.0	SW
11-Nov-2006	08:00	0.0	SW
11-Nov-2006	09:00	0.0	W
11-Nov-2006	10:00	0.3	WSW
11-Nov-2006	11:00	0.5	WNW
11-Nov-2006	12:00	0.9	W
11-Nov-2006	13:00	0.7	W
11-Nov-2006	14:00	0.8	W
11-Nov-2006	15:00	0.9	WNW
11-Nov-2006	16:00	1.0	N
11-Nov-2006	17:00	0.6	N
11-Nov-2006	18:00	0.3	W
11-Nov-2006	19:00	0.1	W
11-Nov-2006	20:00	0.1	S
11-Nov-2006	20:00	0.1	SSE
11-Nov-2006	22:00	0.0	SW
11-Nov-2006	22:00	0.0	SW
12-Nov-2006	00:00	0.0	
12-Nov-2006	01:00	0.0	
12-Nov-2006	02:00	0.0	
12-Nov-2006	03:00	0.0	
12-Nov-2006	04:00	0.0	SW
12-Nov-2006	05:00	0.0	SW

Date	Time	Wind Speed m/s	Direction			
12-Nov-2006	06:00	0.1	W			
12-Nov-2006	07:00	0.1	W			
12-Nov-2006	08:00	0.3	W			
12-Nov-2006	09:00	0.3	W			
12-Nov-2006	10:00	0.9	SW			
12-Nov-2006	11:00	1.2	SW			
12-Nov-2006	12:00	1.5	WSW			
12-Nov-2006	13:00	1.4	SW			
12-Nov-2006	14:00	1.3	W			
12-Nov-2006	15:00	1.5	W			
12-Nov-2006	16:00	1.6	WNW			
12-Nov-2006	17:00	1.4	WNW			
12-Nov-2006	18:00	1.1	W			
12-Nov-2006	19:00	1.3	WNW			
12-Nov-2006	20:00	1.2	W			
12-Nov-2006	21:00	1.3	W			
12-Nov-2006	22:00	1.4	W			
12-Nov-2006	23:00	1.1	WNW			
13-Nov-2006	00:00	1.2	W			
13-Nov-2006	01:00	1.2	W			
13-Nov-2006	02:00	1.2	W			
13-Nov-2006	03:00	1.0	W			
13-Nov-2006	03:00	1.0	W			
13-Nov-2006	05:00	1.2	W			
13-Nov-2006	06:00	1.2	W			
13-Nov-2006	07:00	0.9	W			
13-Nov-2006	08:00	0.7	W			
13-Nov-2006	09:00	1.4	SW			
13-Nov-2006	10:00	1.6	WSW			
13-Nov-2006	11:00	1.6	WSW			
13-Nov-2006	12:00	1.5	W			
13-Nov-2006	13:00	1.8	WSW			
13-Nov-2006	14:00	1.5	W			
13-Nov-2006	15:00	1.3	WNW			
13-Nov-2006	16:00	1.0	W			
13-Nov-2006	17:00	0.7	NW			
13-Nov-2006	18:00	0.5	NNE			
13-Nov-2006	19:00	0.5	NNE			
13-Nov-2006	20:00	0.5	NNE			
13-Nov-2006	20.00	0.3	SW			
13-Nov-2006	21:00	0.5	 WSW			
	22:00	0.5	SSW			
13-Nov-2006						
14-Nov-2006	00:00	0.4	<u> </u>			
14-Nov-2006	01:00	0.4	SW			
14-Nov-2006	02:00	0.5	SW			
14-Nov-2006	03:00	0.5	SSW			
14-Nov-2006	04:00	0.5	SSW SSE			
14-Nov-2006	05:00	0.3				
14-Nov-2006	06:00	0.3	NNE			
14-Nov-2006	07:00	0.3	NNE			
14-Nov-2006	08:00	0.4	NNE			
14-Nov-2006	09:00	0.8	N			
14-Nov-2006	10:00	0.8	N			
14-Nov-2006	11:00	0.9	WSW			

Date	Time	Wind Speed m/s	Direction		
14-Nov-2006	12:00	1.0	W		
14-Nov-2006	13:00	1.0	W		
14-Nov-2006	14:00	1.0	W		
14-Nov-2006	15:00	1.2	Ν		
14-Nov-2006	16:00	1.4	Ν		
14-Nov-2006	17:00	1.4	N		
14-Nov-2006	18:00	0.8	E		
14-Nov-2006	19:00	0.7	NE		
14-Nov-2006	20:00	0.8	NE		
14-Nov-2006	21:00	0.6	NE		
14-Nov-2006	22:00	0.7	WSW		
14-Nov-2006	23:00	0.7	WNW		
15-Nov-2006	00:00	0.7	WNW		
15-Nov-2006	01:00	0.9	W		
15-Nov-2006	02:00	0.7	WNW		
15-Nov-2006	03:00	0.7	W		
15-Nov-2006	04:00	0.7	W		
15-Nov-2006	05:00	0.9	W		
15-Nov-2006	06:00	0.7	SW		
15-Nov-2006	07:00	0.8	SW		
15-Nov-2006	08:00	0.7	SSW		
15-Nov-2006	09:00	0.9	SSW		
15-Nov-2006	10:00	0.0			
15-Nov-2006	11:00	0.0			
15-Nov-2006	12:00	0.0			
15-Nov-2006	13:00	0.0			
15-Nov-2006	14:00	0.0			
15-Nov-2006	15:00	0.0			
15-Nov-2006	16:00	0.0			
15-Nov-2006	17:00	0.0			
15-Nov-2006	18:00	1.2	WNW		
15-Nov-2006	19:00	1.1	WNW		
15-Nov-2006	20:00	0.9	WSW		
15-Nov-2006	21:00	0.7	WSW		
15-Nov-2006	22:00	0.6	SW		
15-Nov-2006	23:00	0.7	SW		
16-Nov-2006	00:00	0.7	SW		
16-Nov-2006	01:00	1.1	SW		
16-Nov-2006	02:00	0.7	WSW		
16-Nov-2006	03:00	0.8	WNW		
16-Nov-2006	04:00	0.7	SW		
16-Nov-2006	05:00	0.9	WSW		
16-Nov-2006	06:00	0.7	WSW		
16-Nov-2006	07:00	1.0	WSW		
16-Nov-2006	08:00	1.0	Wew		
16-Nov-2006	09:00	1.3	WNW		
16-Nov-2006	10:00	1.3	WNW		
16-Nov-2006	11:00	1.2	W		
16-Nov-2006	12:00	1.5	WSW		
16-Nov-2006	13:00	1.3	WGW		
16-Nov-2006	14:00	1.0	WNW		
16-Nov-2006	15:00	0.9	WNW		
16-Nov-2006	16:00	0.9	WNW		
16-Nov-2006	17:00	0.9	SW		

Date	Time	Wind Speed m/s	Direction
16-Nov-2006	18:00	0.5	SSW
16-Nov-2006	19:00	0.6	SSW
16-Nov-2006	20:00	0.7	SW
16-Nov-2006	21:00	0.7	W
16-Nov-2006	22:00	1.0	WNW
16-Nov-2006	23:00	0.7	SW
17-Nov-2006	00:00	0.7	SW
17-Nov-2006	01:00	0.7	SW
17-Nov-2006	02:00	0.6	WNW
17-Nov-2006	03:00	0.6	W
17-Nov-2006	04:00	0.6	WSW
17-Nov-2006	05:00	0.5	SW
17-Nov-2006	06:00	0.5	WNW
17-Nov-2006	07:00	0.3	WNW
17-Nov-2006	08:00	0.5	WNW
17-Nov-2006	09:00	1.0	WNW
17-Nov-2006	10:00	1.0	WNW
17-Nov-2006	11:00	1.1	WNW
17-Nov-2006	12:00	1.2	WNW
17-Nov-2006	13:00	1.1	WNW
17-Nov-2006	14:00	1.2	WSW
17-Nov-2006	15:00	1.4	WNW
17-Nov-2006	16:00	1.0	WNW
17-Nov-2006	17:00	0.7	W
17-Nov-2006	18:00	0.4	W
17-Nov-2006	19:00	0.2	WNW
17-Nov-2006	20:00	0.5	WSW
17-Nov-2006	21:00	0.5	SW
17-Nov-2006	22:00	1.1	W
17-Nov-2006	23:00	1.0	WSW
18-Nov-2006	00:00	1.0	WSW
18-Nov-2006	01:00	0.8	SW
18-Nov-2006	02:00	0.9	WSW
18-Nov-2006	03:00	1.0	WSW
18-Nov-2006	03:00	0.9	WSW
18-Nov-2006	05:00	0.9	WSW
18-Nov-2006	06:00	0.8	WSW
18-Nov-2006	07:00	0.8	WSW
		0.7	WSW
18-Nov-2006 18-Nov-2006	08:00 09:00	1.6	WNW
	10:00	2.0	WNW
18-Nov-2006 18-Nov-2006		2.0	W
	11:00	1.7	WSW
18-Nov-2006	12:00		
18-Nov-2006	13:00	1.6	WNW
18-Nov-2006	14:00	1.6	
18-Nov-2006	15:00	1.7	W
18-Nov-2006	16:00	1.3	W
18-Nov-2006	17:00	0.9	W
18-Nov-2006	18:00	0.3	ssw
18-Nov-2006	19:00	0.4	S
18-Nov-2006	20:00	0.3	
18-Nov-2006	21:00	0.2	
18-Nov-2006	22:00	0.3	
18-Nov-2006	23:00	0.3	

Date	Time	Wind Speed m/s	Direction
19-Nov-2006	00:00	0.4	
19-Nov-2006	01:00	0.3	SSW
19-Nov-2006	02:00	0.3	SW
19-Nov-2006	03:00	0.4	SW
19-Nov-2006	04:00	0.5	SW
19-Nov-2006	05:00	0.6	WSW
19-Nov-2006	06:00	0.8	SW
19-Nov-2006	07:00	1.0	WSW
19-Nov-2006	08:00	1.1	WNW
19-Nov-2006	09:00	1.4	WNW
19-Nov-2006	10:00	1.6	WNW
19-Nov-2006	11:00	1.4	WNW
19-Nov-2006	12:00	1.7	WNW
19-Nov-2006	13:00	1.5	W
19-Nov-2006	14:00	1.3	WNW
19-Nov-2006	15:00	1.2	WNW
19-Nov-2006	16:00	1.1	W
19-Nov-2006	17:00	0.9	W
19-Nov-2006	18:00	0.6	W
19-Nov-2006	19:00	0.4	NW
19-Nov-2006	20:00	0.0	NW
19-Nov-2006	21:00	0.0	NW
19-Nov-2006	22:00	0.0	NW
19-Nov-2006	23:00	0.0	WNW
20-Nov-2006	00:00	0.9	WNW
20-Nov-2006	01:00	0.7	SW
20-Nov-2006	02:00	0.7	SW
20-Nov-2006	03:00	0.5	WSW
20-Nov-2006	04:00	0.6	WSW
20-Nov-2006	05:00	0.5	SW
20-Nov-2006	06:00	0.4	SW
20-Nov-2006	07:00	0.5	SW
20-Nov-2006	08:00	0.8	SW
20-Nov-2006	09:00	1.0	NW
20-Nov-2006	10:00	1.9	WNW
20-Nov-2006	11:00	2.0	WNW
20-Nov-2006	12:00	1.8	WNW
20-Nov-2006	13:00	1.7	WNW
20-Nov-2006	14:00	0.0	WNW
20-Nov-2006	15:00	0.0	W
20-Nov-2006	16:00	0.7	W
20-Nov-2006	17:00	0.5	ENE
20-Nov-2006	18:00	0.2	ENE
20-Nov-2006	19:00	0.3	ENE
20-Nov-2006	20:00	0.3	ESE
20-Nov-2006	21:00	0.3	SSE
20-Nov-2006	22:00	0.3	WSW
20-Nov-2006	23:00	0.3	SW
21-Nov-2006	00:00	0.5	W
21-Nov-2006	01:00	0.5	WSW
21-Nov-2006	02:00	0.4	WSW
21-Nov-2006	03:00	0.5	WSW
21-Nov-2006	04:00	0.5	WSW
21-Nov-2006	05:00	0.5	WSW

Date	Time	Wind Speed m/s	Direction
21-Nov-2006	06:00	0.7	WSW
21-Nov-2006	07:00	0.6	WSW
21-Nov-2006	08:00	0.8	WSW
21-Nov-2006	09:00	0.8	WSW
21-Nov-2006	10:00	1.4	WSW
21-Nov-2006	11:00	1.8	WSW
21-Nov-2006	12:00	1.6	WSW
21-Nov-2006	13:00	1.5	WSW
21-Nov-2006	14:00	1.4	SW
21-Nov-2006	15:00	1.6	WSW
21-Nov-2006	16:00	1.4	WSW
21-Nov-2006	17:00	1.2	WSW
21-Nov-2006	18:00	0.9	SW
21-Nov-2006	19:00	0.7	WSW
21-Nov-2006	20:00	0.4	WSW
21-Nov-2006	21:00	0.3	WSW
21-Nov-2006	22:00	0.1	WSW
21-Nov-2006	23:00	0.2	WSW
22-Nov-2006	00:00	0.1	WSW
22-Nov-2006	01:00	0.4	WSW
22-Nov-2006	02:00	0.2	WSW
22-Nov-2006	03:00	0.5	SW
22-Nov-2006	04:00	0.7	WSW
22-Nov-2006	05:00	0.8	WSW
22-Nov-2006	06:00	0.5	WSW
22-Nov-2006	07:00	0.7	WNW
22-Nov-2006	08:00	1.1	WSW
22-Nov-2006	09:00	1.5	W
22-Nov-2006	10:00	1.6	WSW
22-Nov-2006	11:00	1.7	WNW
22-Nov-2006	12:00	1.3	W
22-Nov-2006	13:00	1.3	WNW
22-Nov-2006	14:00	1.4	WNW
22-Nov-2006	15:00	1.2	WNW
22-Nov-2006	16:00	1.1	W
22-Nov-2006	17:00	0.9	W
22-Nov-2006	18:00	0.6	SSW
22-Nov-2006	19:00	0.3	S
22-Nov-2006	20:00	0.5	SW
22-Nov-2006	21:00	0.4	SW
22-Nov-2006	22:00	0.0	
22-Nov-2006	23:00	0.0	
23-Nov-2006	00:00	0.0	
23-Nov-2006	01:00	0.0	
23-Nov-2006	02:00	0.0	
23-Nov-2006	03:00	0.0	
23-Nov-2006	04:00	0.1	WSW
23-Nov-2006	05:00	0.0	
23-Nov-2006	06:00	0.0	
23-Nov-2006	07:00	0.0	
23-Nov-2006	08:00	0.8	WSW
23-Nov-2006	09:00	1.2	W
23-Nov-2006	10:00	1.4	WNW
23-Nov-2006	11:00	1.7	WNW

Date	Time	Wind Speed m/s	Direction
23-Nov-2006	12:00	1.8	WNW
23-Nov-2006	13:00	1.5	WNW
23-Nov-2006	14:00	1.4	WNW
23-Nov-2006	15:00	1.3	W
23-Nov-2006	16:00	1.4	W
23-Nov-2006	17:00	0.9	WNW
23-Nov-2006	18:00	0.5	S
23-Nov-2006	19:00	0.0	
23-Nov-2006	20:00	0.0	
23-Nov-2006	21:00	0.1	SSW
23-Nov-2006	22:00	0.0	
23-Nov-2006	23:00	0.0	
24-Nov-2006	00:00	0.3	SSW
24-Nov-2006	01:00	0.5	WSW
24-Nov-2006	02:00	0.5	W
24-Nov-2006	03:00	0.6	WSW
24-Nov-2006	04:00	0.7	WNW
24-Nov-2006	05:00	0.8	W
24-Nov-2006	06:00	0.3	WNW
24-Nov-2006	07:00	0.5	WNW
24-Nov-2006	08:00	0.7	WNW
24-Nov-2006	09:00	1.1	SSW
24-Nov-2006	10:00	1.7	WNW
24-Nov-2006	11:00	1.5	WNW
24-Nov-2006	12:00	1.5	WNW
24-Nov-2006	13:00	1.6	W
24-Nov-2006	14:00	1.4	WNW
24-Nov-2006	15:00	1.0	W
24-Nov-2006	16:00	0.9	WNW
24-Nov-2006	17:00	0.8	W
24-Nov-2006	18:00	0.5	SW
24-Nov-2006	19:00	0.1	W
24-Nov-2006	20:00	0.3	ESE
24-Nov-2006	21:00	0.1	SSE
24-Nov-2006	22:00	0.2	WSW
24-Nov-2006	23:00	0.3	SW
25-Nov-2006	00:00	0.1	W
25-Nov-2006	01:00	0.0	W
		0.0	WNW
25-Nov-2006 25-Nov-2006	02:00	0.0	WNW
25-Nov-2006	03.00	0.0	W
25-Nov-2006	04.00	0.0	SSW
25-Nov-2006	06:00	0.0	SW SW
25-Nov-2006	07:00	0.1	SW
25-Nov-2006	08:00 09:00	0.3	
25-Nov-2006		0.9	 SW
25-Nov-2006	10:00		
25-Nov-2006	11:00	1.4	SW WNW
25-Nov-2006	12:00		
25-Nov-2006	13:00	0.9	W
25-Nov-2006	14:00	0.9	WNW
25-Nov-2006	15:00	1.1	WNW
25-Nov-2006	16:00	0.7	WNW
25-Nov-2006	17:00	0.4	W

Date	Time	Wind Speed m/s	Direction
25-Nov-2006	18:00	0.2	SSW
25-Nov-2006	19:00	0.1	ESE
25-Nov-2006	20:00	0.0	WNW
25-Nov-2006	21:00	0.0	W
25-Nov-2006	22:00	0.3	SSW
25-Nov-2006	23:00	0.6	ESE
26-Nov-2006	00:00	0.5	W
26-Nov-2006	01:00	0.5	WNW
26-Nov-2006	02:00	0.6	NE
26-Nov-2006	03:00	0.5	NE
26-Nov-2006	03:00	0.7	NE
			ESE
26-Nov-2006	05:00	0.9	<u> </u>
26-Nov-2006	06:00	0.9	
26-Nov-2006	07:00	1.2	WNW
26-Nov-2006	08:00	1.0	ESE
26-Nov-2006	09:00	1.2	SW
26-Nov-2006	10:00	1.3	WNW
26-Nov-2006	11:00	1.4	W
26-Nov-2006	12:00	2.0	WNW
26-Nov-2006	13:00	2.2	WNW
26-Nov-2006	14:00	1.5	W
26-Nov-2006	15:00	1.1	WNW
26-Nov-2006	16:00	1.1	NE
26-Nov-2006	17:00	1.3	NE
26-Nov-2006	18:00	0.7	NE
26-Nov-2006	19:00	0.5	
26-Nov-2006	20:00	0.7	NE
26-Nov-2006	21:00	0.9	E
26-Nov-2006	22:00	0.0	
26-Nov-2006	23:00	0.0	
27-Nov-2006	00:00	0.0	
27-Nov-2006	01:00	0.0	
27-Nov-2006	02:00	0.0	
27-Nov-2006	03:00	0.0	
27-Nov-2006	04:00	0.0	
27-Nov-2006	05:00	0.0	
27-Nov-2006	06:00	0.0	
27-Nov-2006	07:00	0.0	
27-Nov-2006	07:00	1.3	 S
27-Nov-2006	09:00	1.3	WNW
	10:00		NW
27-Nov-2006		1.2	WNW
27-Nov-2006	11:00	1.6	
27-Nov-2006	12:00	1.4	W
27-Nov-2006	13:00	1.3	WNW
27-Nov-2006	14:00	1.3	WNW
27-Nov-2006	15:00	1.1	WSW
27-Nov-2006	16:00	0.9	SW
27-Nov-2006	17:00	1.0	WSW
27-Nov-2006	18:00	0.9	W
27-Nov-2006	19:00	0.7	WSW
27-Nov-2006	20:00	0.8	WNW
27-Nov-2006	21:00	0.6	W
27-Nov-2006	22:00	0.8	WNW
27-Nov-2006	23:00	0.7	W

Date	Time	Wind Speed m/s	Direction
28-Nov-2006	00:00	0.7	WNW
28-Nov-2006	01:00	0.6	W
28-Nov-2006	02:00	0.7	W
28-Nov-2006	03:00	0.5	W
28-Nov-2006	04:00	0.4	WNW
28-Nov-2006	05:00	0.5	W
28-Nov-2006	06:00	0.7	WNW
28-Nov-2006	07:00	0.5	WNW
28-Nov-2006	08:00	0.5	W
28-Nov-2006	09:00	1.0	WNW
28-Nov-2006	10:00	1.4	W
28-Nov-2006	11:00	1.5	W
28-Nov-2006	12:00	1.6	WNW
28-Nov-2006	13:00	1.3	WNW
28-Nov-2006	14:00	1.2	WNW
28-Nov-2006	15:00	1.1	WNW
28-Nov-2006	16:00	0.8	WNW
28-Nov-2006	17:00	0.8	NE
28-Nov-2006	18:00	0.4	NE
28-Nov-2006	19:00	0.3	E
28-Nov-2006	20:00	0.3	NE
28-Nov-2006	21:00	0.4	ENE
28-Nov-2006	22:00	0.0	
28-Nov-2006	23:00	0.0	
29-Nov-2006	00:00	0.9	SW
29-Nov-2006	01:00	1.0	WSW
29-Nov-2006	02:00	1.1	SW
29-Nov-2006	03:00	1.1	SW
29-Nov-2006	04:00	0.9	SW
29-Nov-2006	05:00	1.1	WSW
29-Nov-2006	06:00	0.9	SW
29-Nov-2006	07:00	1.2	WSW
29-Nov-2006	08:00	1.0	SW
29-Nov-2006	09:00	1.6	W
29-Nov-2006	10:00	1.6	W
29-Nov-2006	11:00	1.8	W
29-Nov-2006	12:00	1.8	W
29-Nov-2006	13:00	1.6	W
29-Nov-2006	14:00	1.5	WSW
29-Nov-2006	15:00	1.6	WSW
29-Nov-2006	16:00	1.2	SW
29-Nov-2006	17:00	1.2	SW
29-Nov-2006	18:00	0.9	SW
29-Nov-2006	19:00	0.7	SSW
29-Nov-2006	20:00	0.4	SSW
29-Nov-2006	21:00	0.5	SSW
29-Nov-2006	22:00	0.6	SW
29-Nov-2006	23:00	0.7	SW
30-Nov-2006	00:00	0.4	WSW
30-Nov-2006	01:00	0.4	W
30-Nov-2006	02:00	0.7	WSW
30-Nov-2006	03:00	0.8	SW
30-Nov-2006	04:00	0.7	WSW
30-Nov-2006	05:00	0.9	SW

Date	Time	Wind Speed m/s	Direction
30-Nov-2006	06:00	0.7	SW
30-Nov-2006	07:00	0.9	SW
30-Nov-2006	08:00	0.7	SW
30-Nov-2006	09:00	1.1	WSW
30-Nov-2006	10:00	1.5	WSW
30-Nov-2006	11:00	1.5	WSW
30-Nov-2006	12:00	1.5	SW
30-Nov-2006	13:00	1.4	SSW
30-Nov-2006	14:00	1.2	WSW
30-Nov-2006	15:00	1.3	W
30-Nov-2006	16:00	1.0	W
30-Nov-2006	17:00	0.9	W
30-Nov-2006	18:00	0.7	W
30-Nov-2006	19:00	0.6	W
30-Nov-2006	20:00	0.7	W
30-Nov-2006	21:00	0.3	W
30-Nov-2006	22:00	0.5	W
30-Nov-2006	23:00	0.6	W

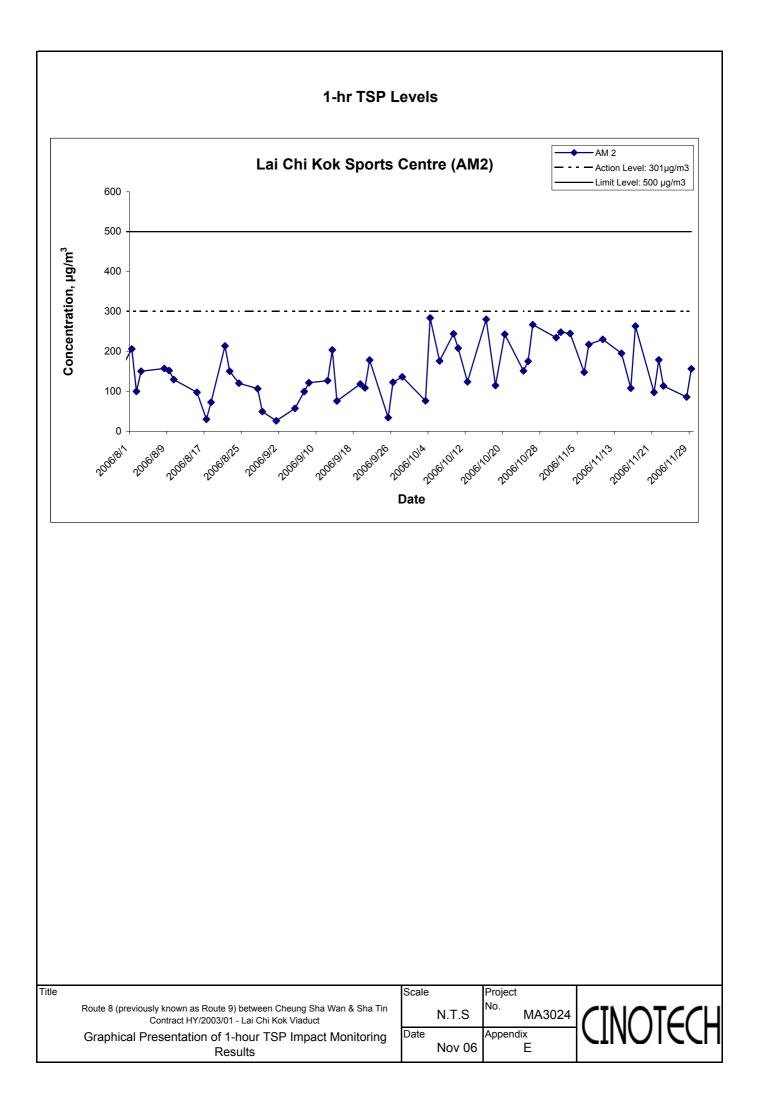
APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix E - 1-hour TSP Monitoring Results

Location AM 2 - Lai Chi Kok Sports Centre

Date	Weather	Filter W	eight (g)	Flow Rate	e (m ³ /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.)	(µg/m ³)
1-Nov-06	Sunny	2.8432	2.8615	1.23	1.23	5028.1	5029.1	297.5	762.4	0.0183	1.23	73.7	1.0	248.4
3-Nov-06	Sunny	2.8490	2.8671	1.23	1.23	5029.1	5030.1	296.1	763.5	0.0181	1.23	73.9	1.0	245.0
6-Nov-06	Sunny	2.8904	2.9013	1.23	1.23	5054.1	5055.1	297.5	763.5	0.0109	1.23	73.7	1.0	147.9
7-Nov-06	Sunny	2.8752	2.8913	1.23	1.23	5055.1	5056.1	295.7	766.1	0.0161	1.23	74.0	1.0	217.5
10-Nov-06	Sunny	2.8660	2.8830	1.23	1.23	5080.1	5081.1	297.5	765.9	0.0170	1.23	73.8	1.0	230.3
14-Nov-06	Sunny	2.8914	2.9058	1.23	1.23	5081.1	5082.1	297.6	765.0	0.0144	1.23	73.8	1.0	195.2
16-Nov-06	Cloudy	2.8614	2.8693	1.22	1.22	5106.1	5107.1	300.5	762.0	0.0079	1.22	73.3	1.0	107.7
17-Nov-06	Cloudy	2.8704	2.8897	1.22	1.22	5107.1	5108.1	300.8	761.6	0.0193	1.22	73.3	1.0	263.3
21-Nov-06	Cloudy	2.8715	2.8786	1.22	1.21	5108.1	5109.1	296.0	757.7	0.0071	1.22	72.9	1.0	97.4
22-Nov-06	Cloudy	2.8351	2.8482	1.22	1.22	5133.1	5134.1	294.1	760.5	0.0131	1.22	73.2	1.0	178.9
23-Nov-06	Sunny	2.8585	2.8669	1.22	1.22	5134.1	5135.1	294.9	763.0	0.0084	1.22	74.0	1.0	113.5
28-Nov-06	Cloudy	2.8712	2.8775	1.23	1.23	5151.0	5152.0	292.2	762.9	0.0063	1.23	73.5	1.0	85.7
29-Nov-06	Cloudy	2.8801	2.8916	1.23	1.23	5160.1	5161.1	293.3	765.5	0.0115	1.23	73.5	1.0	156.4
													Min	85.7

Max 263.3 Average 175.9



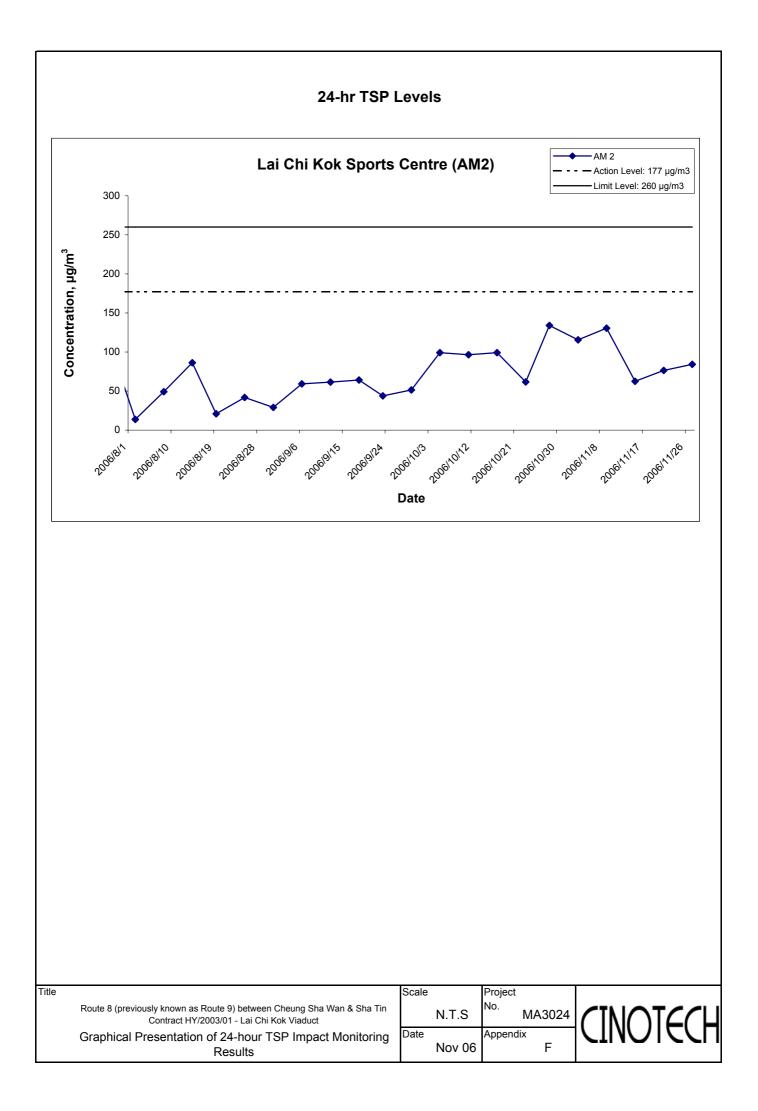
APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix F - 24-hour TSP Monitoring Results

Location AM 2 - Lai Chi Kok Sports Centre

Date	Weather	Filter W	eight (g)	Flow Rate	Flow Rate (m ³ /min.)		Elapse Time		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.)	(µg/m ³)
3-Nov-06	Sunny	2.8875	3.0912	1.22	1.22	5030.1	5054.1	299.7	762.0	0.2037	1.22	1761.4	24.0	115.6
9-Nov-06	Sunny	2.8669	3.0983	1.23	1.23	5056.1	5080.1	297.5	767.4	0.2314	1.23	1773.1	24.0	130.5
15-Nov-06	Cloudy	2.8794	2.9904	1.23	1.23	5082.1	5106.1	295.7	764.6	0.1110	1.23	1775.0	24.0	62.5
21-Nov-06	Cloudy	2.8441	2.9779	1.22	1.21	5109.1	5133.1	296.0	757.6	0.1338	1.22	1749.9	24.0	76.5
27-Nov-06	Cloudy	2.8603	3.0076	1.22	1.22	5135.1	5159.1	296.9	760.7	0.1473	1.22	1750.6	24.0	84.1
													Min	62.5
													Max	130.5

Average 93.9



APPENDIX G NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix G - Noise Monitoring Results

Location NM2 - Lai Chi Kok Reception Centre								
						Unit: dB (A) (30)-min)	
Date	Time	Weather	Measured Noise Level		Baseline Level	Construction Noise Level	Remarks	
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}	
1-Nov-06	14:25	Sunny	60.0	62.2	56.7		60.0, Measured \leq Baseline	
7-Nov-06	17:00	Sunny	64.4	66.7	62.2		64.4, Measured \leq Baseline	
14-Nov-06	15:15	Cloudy	62.4	66.2	59.2	68.4	62.4, Measured \leq Baseline	Resumed since September 2006
21-Nov-06	16:30	Cloudy	68.9	71.7	64.7		59.3	
29-Nov-06	13:05	Cloudy	65.4	68.0	62.0		65.4, Measured \leq Baseline	

Location N	Location NM4 - Mei Foo Sun Chuen, Phase 5							
						Unit: dB (A) (30)-min)	
Date	Time	Weather	Measured Noise Level Baseline Level		Measured Noise Level		Construction Noise Level	Remarks
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}	
1-Nov-06	09:10	Sunny	75.6	78.0	70.5		70.9	
7-Nov-06	13:00	Sunny	76.1	77.5	72.5		72.2	Road traffic noise from Ching
14-Nov-06	10:00	Cloudy	75.4	77.0	73.0	73.8	70.3	Cheung Road was identified as the
21-Nov-06	11:20	Cloudy	70.4	75.5	68.5		70.4, Measured \leq Baseline	major noise source.
29-Nov-06	09:10	Cloudy	76.2	78.5	70.5		72.5	

Location NM8a - M/F of Nob Hill								
Date	Time	Weather	Unit: dB (A) (30-min)		0-min)	Remarks		
			L _{eq}	L ₁₀	L ₉₀			
1-Nov-06	10:00	Sunny	74.7	77.0	70.0			
7-Nov-06	14:00	Sunny	74.2	76.0	69.0	Road traffic noise from Ching Cheung Road		
14-Nov-06	13:00	Cloudy	75.2	77.5	71.0	was identified as the major noise source.		
21-Nov-06	10:40	Cloudy	75.1	78.0	71.0	was identified as the major hoise source.		
29-Nov-06	10:00	Cloudy	73.4	76.0	69.5			

Location NM8b - 3/F of Nob Hill							
Date	Time	Weather	Unit: dB (A) (30-min)			Remarks	
			L _{eq}	L ₁₀	L ₉₀		
1-Nov-06	10:45	Sunny	77.3	79.0	73.5	This Station (NM8b) which is strongly	
7-Nov-06	14:40	Sunny	73.9	76.0	69.0	influenced by road traffic noise from Ching	
14-Nov-06	11:00	Cloudy	76.6	78.5	68.5	Cheung Road. The measurement at this station	
21-Nov-06	10:00	Cloudy	74.2	76.5	69.0	-	
29-Nov-06	10:40	Cloudy	75.8	78.5	68.5	is for reference purpose, but not for compliance check for construction noise.	

Location N	M9 - Ho	i Lai Estat	e			
Date	Time	Weather	Unit: c	IB (A) (3	0-min)	Remarks
			L _{eq}	L ₁₀	L ₉₀	
1-Nov-06	13:00	Sunny	70.9	72.5	64.0	
7-Nov-06	16:10	Sunny	72.3	74.0	67.5	
14-Nov-06	13:50	Cloudy	71.2	73.5	68.0	-
21-Nov-06	17:20	Cloudy	66.7	70.0	64.0	
29-Nov-06	11:30	Cloudy	69.8	72.5	60.5	

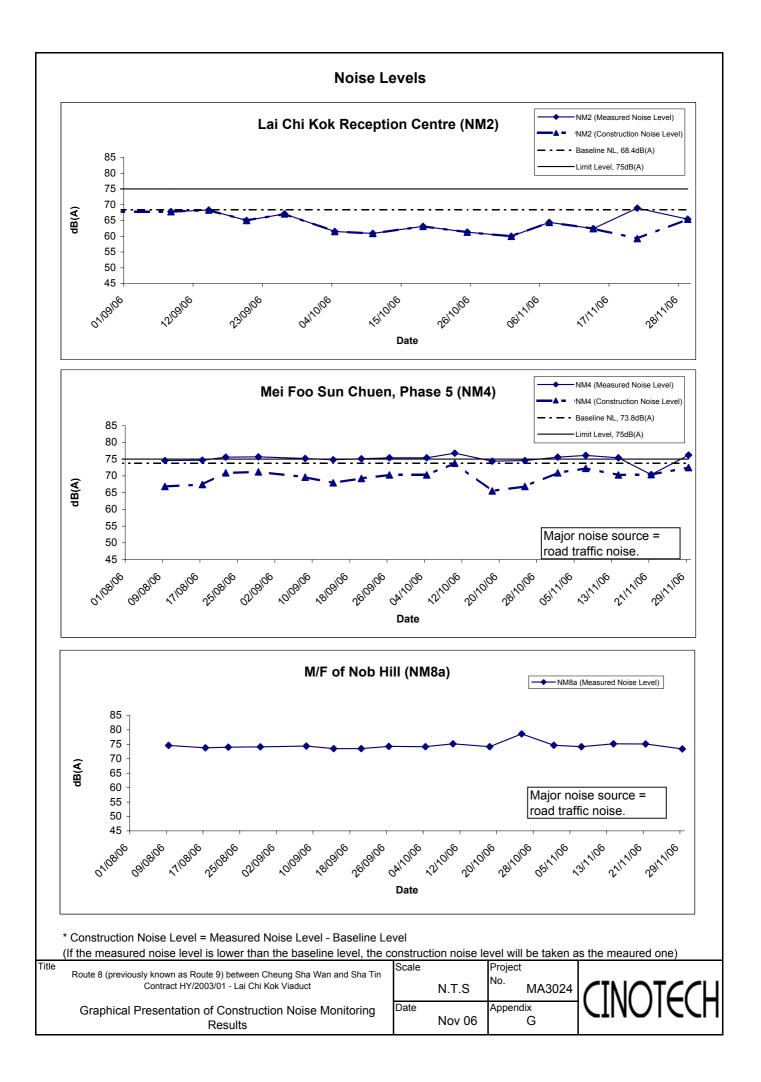
Construction Noise Level (Leq) = Measured Noise Level (Leq) - Baseline Noise Level (Leq)

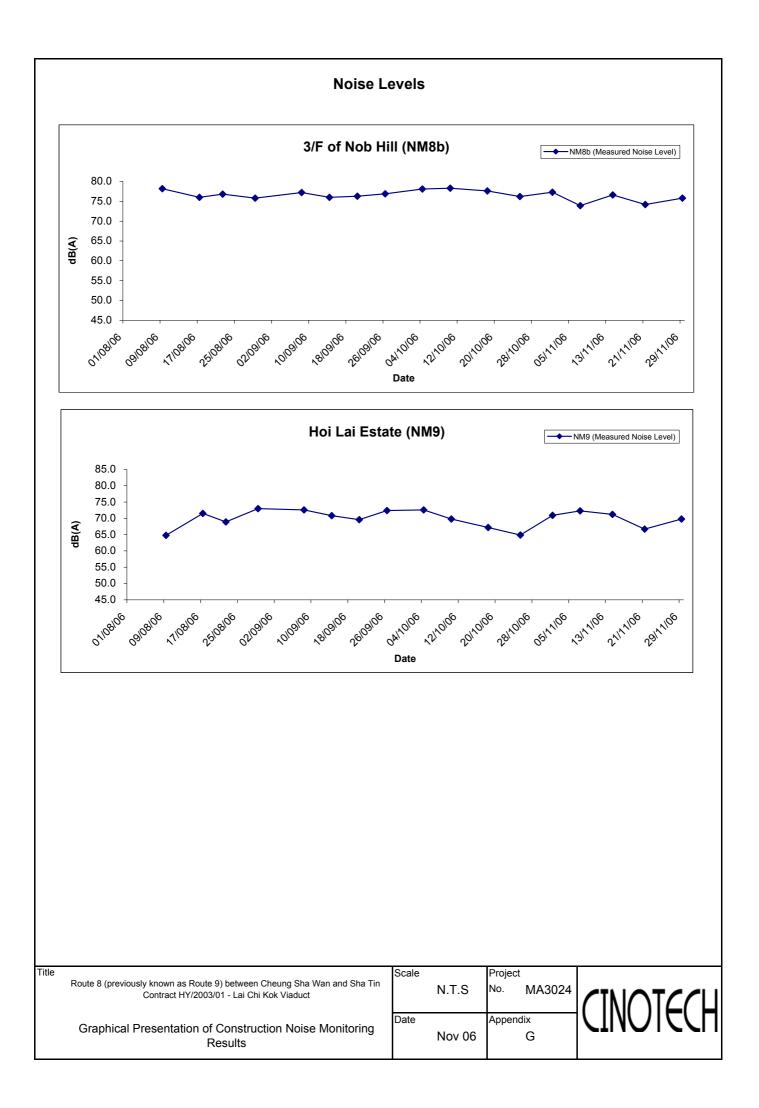
Appendix G - Noise Monitoring Results

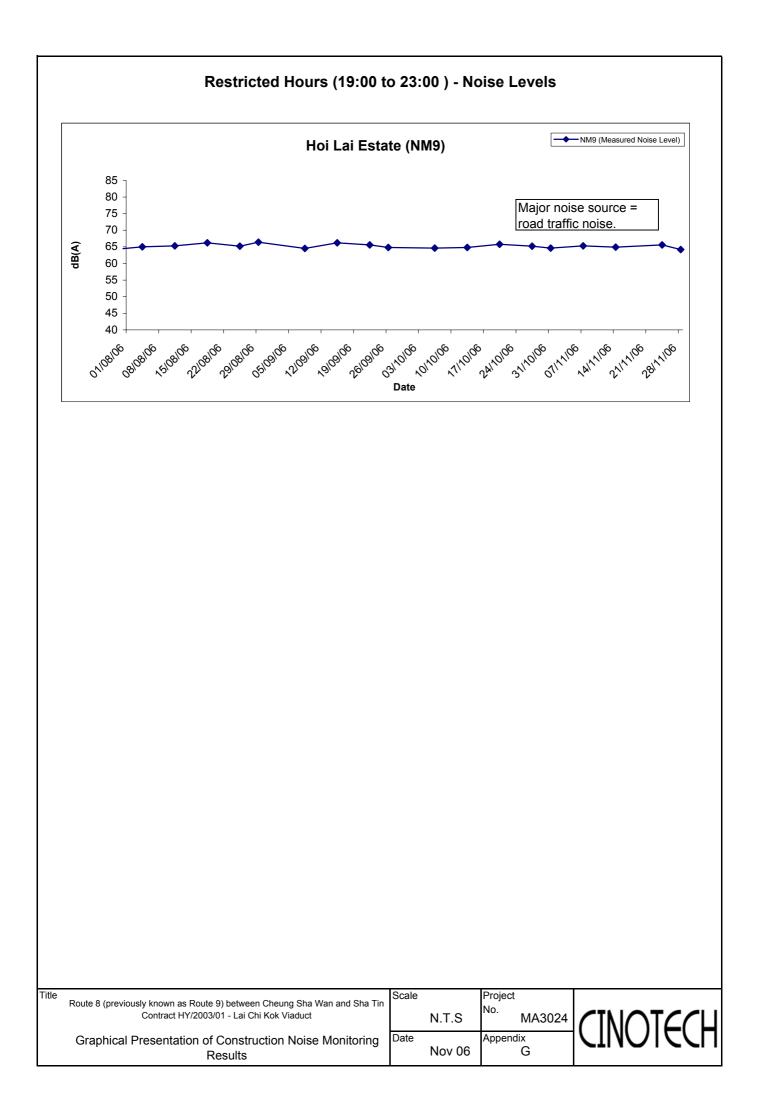
Restricted Hours - 19:00 to 23:00 on normal weekdays

Location NM9 - Hoi Lai Estate							
Dete	Time	Weather	dB (A) (5-min)				
Date	Time	Weather	L _{eq}	L ₁₀	L ₉₀	Average L_{eq}	
	19:00		65.3	68.0	62.5		
7-Nov-06	19:05	Fine	65.2	68.0	62.0	65.3	
	19:10		65.3	68.0	62.5		
	19:30		64.3	67.5	61.0		
14-Nov-06	19:35	Cloudy	65.5	68.0	61.0	64.9	
	19:40		64.9	68.0	61.0		
	19:25		65.3	68.5	62.0		
24-Nov-06	19:30	Cloudy	65.7	69.0	62.5	65.6	
	19:35		65.7	69.0	63.0		
	20:25		64.0	67.5	61.5		
28-Nov-06	20:30	Fine	64.4	68.0	61.5	64.2	
	20:35		64.3	68.0	61.5		

Construction Noise Level (Leq) = Measured Noise Level (Leq) - Baseline Noise Level (Leq)







APPENDIX H SUMMARY OF EXCEEDANCE

Summary of Exceedances Recorded in the Reporting Month

- a) Exceedance Report for 1-hr TSP (NIL)
- b) Exceedance Report for 24-hr TSP (NIL)

c) Exceedance Report for Construction Noise

- Three Action Level exceedances were recorded due to noise complaints received on 3rd and 21st November 2006.
- No Limit Level exceedance was recorded in the reporting month.

APPENDIX I SITE AUDIT SUMMARY

Checklist Reference Number	61101-LCKV
Date	1 November 2006 (Wed)
Time	0930-1200

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	
61011L-01R	• Fugitive dust from exposed slope and stockpile was observed at Lai Po Road.	C8
	The Contractor was reminded to cover the slope and stockpile to tarpaulin	
	sheet or provide water spraying.	
61011L-02R	• Black smoke emission from a blackhole at Slope S3 was observed. The	C15
	Contractor was reminded to provide proper maintenance for the blackhole.	
	C. Noise	
	 No environmental deficiency was identified during the site inspection. 	
	a no environmental denotency was identified during the site hispection.	
	D. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	E. Permit / Licenses	
	• No environmental deficiency was identified during the site inspection.	
	F. Others	
	• The environmental deficiencies identified during last audit (Ref. No.:	
	61025-LCKV) on 25 October 2006, were rectified/improved by the	
	Contractor. There was no stagnant water observed in the holes on the Bridge	
	Deck, however, the Contractor was reminded to fill up the holes on the	
	Bridge Deck once the method for filling the holes is finalized.	

	Name	Signature	Date
Recorded by	Edmond Wu	bff	2 November 2006
Checked by	Dr. Priscilla Choy	N.Z.	2 November 2006

Route 8 (previously known as Route 9) between Cheung Sha Wan and Sha Tin Environmental Team for Lai Chi Kok Viaduct and Eagle's Nest Tunnel Contract No. HY/2003/01 - Lai Chi Kok Viaduct

Weekly Site Inspection Record Summary

Checklist Reference Number	61108-LCKV
Date	8 November 2006 (Wed)
Time	1330-1530

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.	
	E. Permit / Licenses	
	• No environmental deficiency was identified during the site inspection.	
	F. Others	
	• The environmental deficiencies identified during last audit (Ref. No.:	
	61101-LCKV) on 1 November 2006, were rectified/improved by the	
	Contractor.	

	Name	Signature	Date
Recorded by	Tommy Ho	ype	9 November 2006
Checked by	Dr. Priscilla Choy	wh	9 November 2006

Checklist Reference Number	61115-LCKV	
Date	15 November 2006 (Wed)	
Time	1045-1230	

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.	
	an an an an ann ann ann ann an ann an an	
	E. Permit / Licenses	
	 No environmental deficiency was identified during the site inspection. 	
	F. Others	
	• No environmental deficiencies was identified during last audit .	
L		1

	Name	Signature	Date
Recorded by	Tommy Ho	7	15 November 2006
Checked by	Dr. Priscilla Choy	WIL	15 November 2006

Checklist Reference Number	61122-LCKV	
Date	22 November 2006 (Wed)	
Time	1335-1550	

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.	
	E. Permit / Licenses	
	• No environmental deficiency was identified during the site inspection.	
	F. Others	
	No environmental deficiencies was identified during last audit .	

	Name	Signature	Date
Recorded by	Tommy Ho	The	22 November 2006
Checked by	Dr. Priscilla Choy	NE	22 November 2006

Checklist Reference Number	61128-LCKV	
Date	28 November 2006 (Tue)	
Time	9:30 – 11:30 a.m.	

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

Ref. No.	Remarks/Observations	Related Item No.
61128L-R02	A. Water QualityMuddy soil accumulated around ditches at construction site of Lai Po Road was observed. The Contractor was reminded to remove the muddy soil as	В9
61128L-R03	soon as possible and maintain the efficiency of the drainage system.The Contractor was reminded to modify the drainage system at S1 to divert the runoff from the site to the constructed drainage system.	B1
61128L-R04 -	• Standing water accumulated inside the holes at the deck was observed. The Contractor was reminded to clean up the standing water or apply larvicidal oil after rainfall.	B14
	B. Air QualityNo environmental deficiency was identified during the site inspection.	
	<i>C. Noise</i>No environmental deficiency was identified during the site inspection.	
61128L-R01	 D. Waste / Chemical Management Oil stain from machinery was observed at construction site of Lai Po Road, the Contractor was reminded to clean up the stain properly. 	E12
	<i>E. Permit / Licenses</i>No environmental deficiency was identified during the site inspection.	
	 F. Others No environmental deficiency was identified during last audit (Ref. No.: 61122-LCKV) carried out on 22 November 2006. 	

	Name	Signature	Date
Recorded by	Mr. Ray Yan	San.	29 November 2006
Checked by	Dr. Priscilla Choy	Christe	29 November 2006

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		ACTIO	N	
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	ACTION					
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	1. 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					

Encoderac	ACTION					
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
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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.	^
	 Vehicle washing facilities should be provided at every exit point. 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.	^
	• Every vehicle should be washed to remove any dusty materials from its body and wheels immediately before leaving a construction site.	^
	• 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.	^
	• Only well-maintained plant should be operated on –site and plant should be serviced regularly during the construction works.	^
	• Machines and plant that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.	^
	• Plant know to emit noise strongly in one direction, should where possible, be orientated to direct noise away from the NSRS.	^
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	^
	Reduce the number of plant operating in critical areas close NSRs.	^
	Construct temporary and movable noise barriers	^

Types of Impacts	Mitigation Measures	Status
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. 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 periods of heavy rain.	N/A
	• 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 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 via a petrol interceptor.	^
	Tunnelling Work	T
	• Temporary open storage of excavated materials should be covered with tarpaulin or similar fabric during rainstorms. Any 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 and reused wherever practicable. The disposal of used grouting materials will only be permitted if it is treated to the TM standards before discharge to the storm drains or disposal to landfill.	N/A

Types of Impacts	Mitigation Measures	Status
	General Construction Activities	
	• 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).	^
	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. 	^
	• 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.	^
	Maintain records of the quantities of wastes generated, recycled and disposed.	^
	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.	^
	Construction and Demolition (C&D) Waste	

Types of Impacts	Mitigation Measures	Status
F	Careful design, planning and good site management shall be adopted to minimise over-ordering and generation of waste materials such as concrete grouts.	^
	• 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.	^
	 Containers used for the storage of chemical wastes should: Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; Have a capacity of less than 450 litres unless the specifications have been approved by the EPD; 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. 	٨
	• 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.	^

Types of Impacts	Mitigation Measures	Status
•	 A sediment barrier shall be erected to minimize stream sedimentation at downstream of the project boundary of the Toll Plaza. Conduct a tree survey before commencement of the construction work. 	N/A
Faclogy	• 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. Wild and uncontrolled fire shall be strictly prohibited 	N/A
	• 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.	^
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 transplantation and new planting, resulting 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.	^
	Measurement of vibration would also be carried out on a need basis during the piling work	^

Remarks:

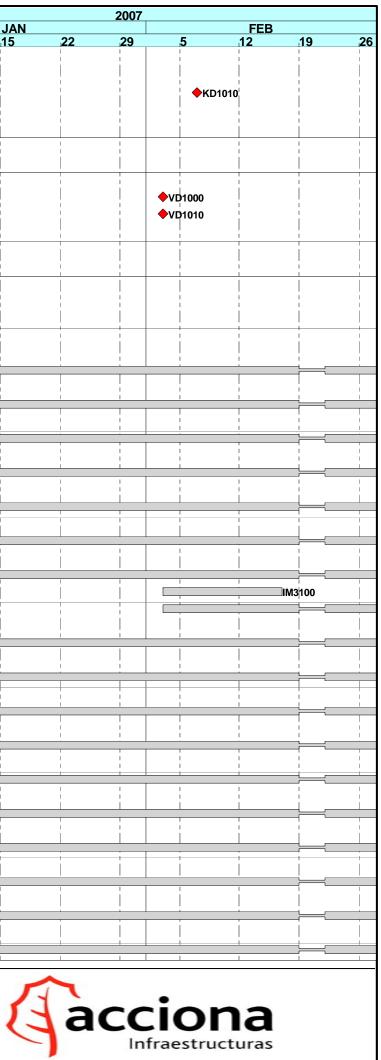
N/A

Compliance of mitigation measure; Not Applicable;

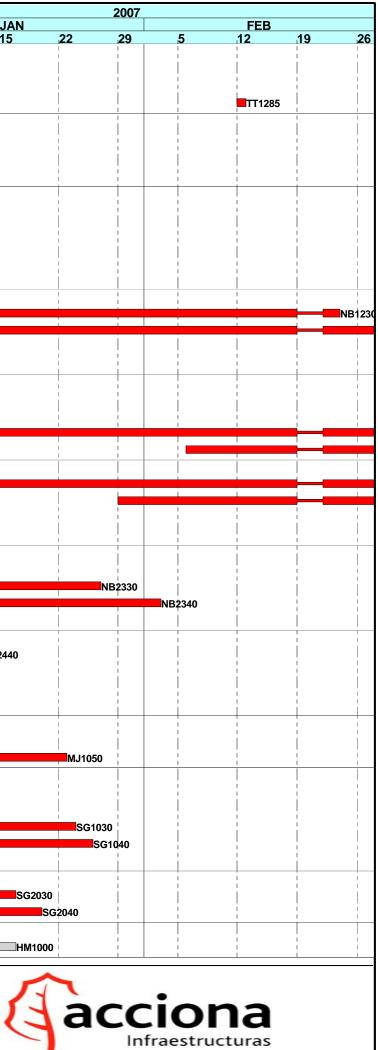
Non-compliance but rectified by the contractor •

APPENDIX L CONSTRUCTION PROGRAMME

Activity	Activity	Orig.	Early	Early	%	Rem		NOV			2006	DEC	`				1.6
ID	Description	Durn.	Start	Finish	Compl.	.Durn.	13	20	27		4	<u>DEC</u>	, 18	25	1	8	<u>JA</u> 15
Prelimina	ries & General Requirments		1								1	1	1		-		1
Key Dates													1				
KD1010	KD-1: Achievement of Stage 1	0		06FEB07	0	0	-				1		1				Ì
KD1070	KD-7: Completion of Section 5 of the Works	0		05JAN07*	0	0					1		1		• K	D1070	
KD1080	KD-8: Completion of Section 6 of the Works	0		05JAN07*	0	0			l I		1		1		• K	D1080	I I
Portion Acc					1	1			-		1	1	1			-	
PD1140	Access to Portion F1 (NOT USED)	0	20NOV06*		0	0		PD1140									
Portion Vac		-				-					, 		 				
VD1000	Vacate Portion A	0		02FEB07*	0	0					1		Ì				
VD1010	Vacate Portion B	0		02FEB07*	0	0	-	1	I I		l ļ	1	1	l I		1	I I
VD1110	Vacate Portion F1	0		21DEC06*	0	0	-						♦ VD	01110			
Initial Subn		Ű		LIDEOUD	Ŭ	Ű					1 1 1				+	1 1	
SU1075	Continuous Upating of Works & 3 Month Progs	927	09OCT03A	02JAN07	96	36									SU1075		
L		521	03001034	023/1107	50	50			1			1	1			<u> </u>	
TW1370	Temporary Works Design of Temp Works for Feature 11NW-A/C66	24	20NOV06	16DEC06	0	24						_	W1370				
TW1370	Design of Temp Works for Feature 11NW-A/C66	24 24	20NOV06	16DEC06	0	24	-		Ì				W1370				
	U	24	2010/06	TODECUO	0	24							W1300				
	& Instrumentation - New Works	10	001101/00	0005000		10			_i		12010	Ì	ĺ				ĺ
IM3010	Install Instrumentation @ Cut Slope CCR-S1	12	20NOV06	02DEC06	0	12	-		1		13010						
IM3015	Monitoring @ Cut Slope CCR-S1	279*	20NOV06	240CT07	0	279*	-				1					T	
IM3020	Install Instrumentation @ Cut Slope CCR-S2	12	18DEC06	02JAN07	0	12	-	1			1				IM3020	 	
IM3025	Monitoring @ Cut Slope CCR-S2	255*	18DEC06	24OCT07	0	255*	-							- <u>[</u>			
IM3030	Install Instrumentation @ Cut Slope CCR-S3	12	20NOV06	02DEC06	0	12			1		N 3030	1	 			<u> </u>	
IM3035	Monitoring @ Cut Slope CCR-S3	279*	20NOV06	24OCT07	0	279*	-				1		1			1	
IM3040	Install Instrumentation @ Cut Slope CCR-S4	12	30NOV06	13DEC06	0	12	-				, i	IM3040	Di				i
IM3045	Monitoring @ Cut Slope CCR-S4	270*	30NOV06	24OCT07	0	270*	-				1	1	1			1	1
IM3050	Install Instrumentation @ Cut Slope CCR-S5	12	20NOV06	02DEC06	0	12	-		1		// 3050						
IM3055	Monitoring @ Cut Slope CCR-S5	279*	20NOV06	24OCT07	0	279*			1		1	1	1			<u> </u>	
IM3060	Install Instrumentation @ Cut Slope CCR-S6	12	20NOV06	02DEC06	0	12	-				13060						1
IM3065	Monitoring @ Cut Slope CCR-S6	279*	20NOV06	24OCT07	0	279*	_						1				
IM3080	Install Instrumentation @ Slope 11NW-A/C26	12	20NOV06	02DEC06	0	12	_			IN	13080	ĺ	ĺ			Ì	
IM3085	Monitoring @ Slope 11NW-A/C26	279*	20NOV06	24OCT07	0	279*	_	-	1		I	1	1			1	
IM3100	Install Instrumentation @ Slope11NW-A/C687 & 679	12	03FEB07	16FEB07	0	12											
IM3105	Monitoring @ Slope 11NW-A/C687 & 679	216*	03FEB07	24OCT07	0	216*	_				1		1				1
IM3120	Install Instrumentation @ Slip Road B Embankment	12	11DEC06	23DEC06	0	12	_]	IM3120			
IM3125	Monitoring @ Slip Road B Embankment	261*	11DEC06	24OCT07	0	261*			i I				<u> </u>				
IM3130	Install Instrumentation @ Piers P1 to P6	12	20NOV06	02DEC06	0	12			1	IN	/13130	l I					I I
IM3135	Monitoring @ Piers P1 to P6	279*	20NOV06	24OCT07	0	279*				1							_
IM3140	Install Instrumentation @ Piers P7 to P10	12	20NOV06	02DEC06	0	12				IN	1 3140		1				1
IM3145	Monitoring @ Piers P7 to P10	279*	20NOV06	24OCT07	0	279*				_						-	
IM3150	Install Instrumentation @ Piers P11 to P15	12	20NOV06	02DEC06	0	12			1	IN	/ 3150	l I	1	1		1	I I
IM3155	Monitoring @ Piers P11 to P15	279*	20NOV06	24OCT07	0	279*				1	I		T			-	
IM3160	Install Instrumentation @ Piers P16 to P18	12	20NOV06	02DEC06	0	12					43160		1				1
IM3165	Monitoring @ Piers P16 to P18	279*	20NOV06	24OCT07	0	279*				1	1	1	1				
IM3170	Install Instrumentation @ Piers P19 to Abut. M	12	20NOV06	02DEC06	0	12	1		1	IN	M 3170						
IM3175	Monitoring @ Piers P19 to Abut. M	279*	20NOV06	240CT07	0	279*	1				L		1		<u> </u>	<u> </u>	<u> </u>
IM3180	Install Instrumentation @ Piers on Slip Road A	12	20NOV06	02DEC06	0	12					13180	i I	1 1	i I		- - 	i I
IM3185	Monitoring @ Piers on Slip Road A	279*	20NOV06	24OCT07	0	279*	1						<u> </u>				
IM3190	Install Instrumentation @ Piers on Slip Road B	12	20NOV06	02DEC06	0	12					1 3190		+			+	
IM3195	Monitoring @ Piers on Slip Road B	279*	20NOV06	240CT07	0	279*			1		1	1	1			1	1
IM3200	Install Instrumentation @ Piers on Slip Road C	12	20NOV06	02DEC06	0	12	1		-		13200		1				Ì
IM3205	Monitoring @ Piers on Slip Road C	279*	20NOV06	240CT07	0	279*	-				1 1 1	-				-	
IM3210	Install Instrumentation @ Piers on Slip Road D	12	20NOV06	02DEC06	0	12	-				13210		1	İ			i
IM3215	Monitoring @ Piers on Slip Road D	279*	20NOV06	240CT07	0	279*					· ·	· · · · · · · · · · · · · · · · · · ·	·		<u> </u>		
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Activity	Activity	Orig.	Early	Early	%	Rem					2006				
ID	Description	Durn.	Start	Finish	Compl.		13	NOV 20	27		<u>DEC</u>	<u>;</u> 18	25	.1	JA 8 15
Temporary	Traffic Management Schemes					1		Ē							
TT1275	36th. TMLG Meeting	1	11DEC06	11DEC06	0	1					TT1275				
TT1280	37th. TMLG Meeting	1	10JAN07	10JAN07	0	1									TT1280
TT1285	38th. TMLG Meeting	1	12FEB07	12FEB07	0	1	1								
Procurem	ient											1			
Precast Pa	rapet Panel Casting														
PP2310	Casting Type IV Parapet Units 228 - 455	75	06AUG06A	20NOV06	99	1		PP2310							i i
PP2420	Casting Type V & VI Parapet Units 521 - 780	30	06AUG06A	20NOV06	99	1		PP2420	1		I I I I	1	1		1 I 1 I
Noise Barri	iers & Enclosures	1	1	1	1										
NB1040	Noise Encl' - Slip Rd A - Off-site Fabrication	64	20MAR06A	22NOV06	95	3		NB10	40						
NB1050	Noise Encl' - Slip Rd A - Delivery to Site	18	26JUL06A	29NOV06	95	2				NB105	þ ¦		1		
NB1110	Noise Encl' - Slip Rd B - Eng. Review & Approval	28	16MAR06A	23NOV06	90	4		NB	1110						
NB1130	Noise Encl' - Slip Rd B - Off-site Fabrication	70	20MAR06A	23NOV06	95	4		NB	1130			1			
NB1140	Noise Encl' - Slip Rd B - Delivery to Site	24	06SEP06A	09DEC06	15	18			Ì		NB1140				i i
NB1210	Noise Encl' - P8 to P11 - Eng. Review & Approval	28	16MAR06A	23NOV06	95	4		NB	1210		 	1	1		I I I I
NB1230	Noise Encl' - P8 to P11 - Off-site Fabrication	78	20NOV06	23FEB07	0	78			-						
NB1240	Noise Encl' - P8 to P11 - Delivery to Site	41	12JAN07	03MAR07	0	41									
NB1310	Noise Encl' - ENT Approach - Eng. Review & Appro	28	03APR06A	23NOV06	95	4		NB	1310			1	l I		
NB1320	Noise Encl' - ENT Approach - Material Purchasing	27	28FEB06A	22NOV06	90	3		NB13	20						
NB1330	Noise Encl' - ENT Approach - Off-site Fabricat'n	57	09SEP06A	18DEC06	60	22	_		1			NB1330			
NB1340	Noise Encl' - ENT Approach - Delivery to Site	41	20NOV06	08JAN07	0	41	_								NB1340
NB2010	Noise Barriers - PA to P4 - Eng. Review & Appro'	4	23MAR06A	19NOV06	95	0	_	NB2010	1		 	1			
NB2030	Noise Barriers - PA to P4 - Off-site Fabrication	120	20NOV06	14APR07	0	120	-								
NB2040	Noise Barriers - PA to P4 - Delivery to Site	62	06FEB07	23APR07	0	62			 •			<u> </u>	<u> </u> 		
NB2110	Noise Barriers - P5 to P8 - Eng. Review & Appro'	47	23MAR06A	21NOV06	95	2	-	NB2110	, I						
NB2130	Noise Barriers - P5 to P8 - Off-site Fabrication	110 56	20NOV06	03APR07	0	110	-	1	İ						i i
NB2140 NB2230	Noise Barriers - P5 to P8 - Delivery to Site Noise Barriers - P11 to P13 - Off-site Fabric'n	35	29JAN07 20NOV06	07APR07 30DEC06	0	56 35	-	1						B2230	
NB2240	Noise Barriers - P11 to P13 - Delivery to Site	7	02JAN07	09JAN07	0	7	-						-		NB2240
NB2300	Noise Barriers - ENT Approach -Des'n & Shop Dwgs	82	24AUG05A	22NOV06	95	3		NB23	00			1	1		
NB2310	Noise Barriers - ENT Approach -Eng Rev & Approv	28	03APR06A	29NOV06	75	7		- INDES	-	NB231	 				
NB2330	Noise Barriers - ENT Approach -Off-site Fabric'n	48	30NOV06	26JAN07	0	48	-								
NB2340	Noise Barriers - ENT Approach - Delivery to Site	25	05JAN07	02FEB07	0	25	-								
NB2410	Noise Barriers - Slip Rd. C - Eng Rev & Approv	28	23MAR06A	22NOV06	95	3		NB24	10						
NB2430	Noise Barriers - Slip Rd.C - Off-site Fabricat'n	38	20NOV06	04JAN07	0	38								NB2	430
NB2440	Noise Barriers - Slip Rd. C - Delivery to Site	17	22DEC06	12JAN07	0	17	1								NB2440
NB2510	Noise Barriers - Slip Rd. D - Eng Rev & Approv	125	16MAR06A	21NOV06	98	2		NB2510	ו						
NB2530	Noise Barriers - Slip Rd. D -Off-site Fabricat'n	38	20NOV06	04JAN07	0	38								NB2	530
NB2540	Noise Barriers - Slip Rd. D - Delivery to Site	13	23DEC06	09JAN07	0	13									NB2540
Movement	Joints	,										1			
MJ1040	Off-Site Manuf' of M.Js Main Line & LWRd O/P	35	21AUG06A	09DEC06	15	18					MJ1040				
MJ1050	Off-Site Manufacturing of M.Js Slip Roads	35	11DEC06	22JAN07	0	35						1			
Signage															
SG1010	Sign Gantries - Detailed Design & Shop Drawings	50	17NOV05A	25NOV06	80	6			SG1010			1	l Í		
SG1020	Sign Gantries - Review/Appro of Design & S/Dwgs.	24	20MAR06A	28NOV06	75	6			SG	51020	 1 I				
SG1030	Sign Gantries - Off-Site Fabrication of Gantries	60	02OCT06A	23JAN07	10	54									
SG1040	Sign Gantries - Delivery of Gantries to Site	40	08DEC06	25JAN07	0	40									
SG2010	Signage - Shop Drawings	50	200CT05A	04DEC06	60	13				1	SG2010				
SG2020	Signage - Review & Approval of Shop Drawings.	24	05DEC06	03JAN07	0	24									20
SG2030	Signage - Off-Site Fabrication of Signs	50	02OCT06A	16JAN07	5	48	_								
SG2040	Signage - Delivery of Signs to Site	25	20DEC06	19JAN07	0	25		_							
-	Lighting (NOT USED)								 						
HM1000	High Mast Lighting -Foundation Design (NOT USED)	48	20NOV06	16JAN07	0	48			1						
Start Date Finish Date Data Date			23SEP03 13SEP08 20NOV06	P3 File : LU3	38		Highw	Route 8 3 Month	- Lai C Rollir	chi K ng Pr	ract No. HY/2003/0 ok Viaduct ogramme per 2006	1	Shee	t 2 of 14	ł
	© Primavera Systems, Inc.														



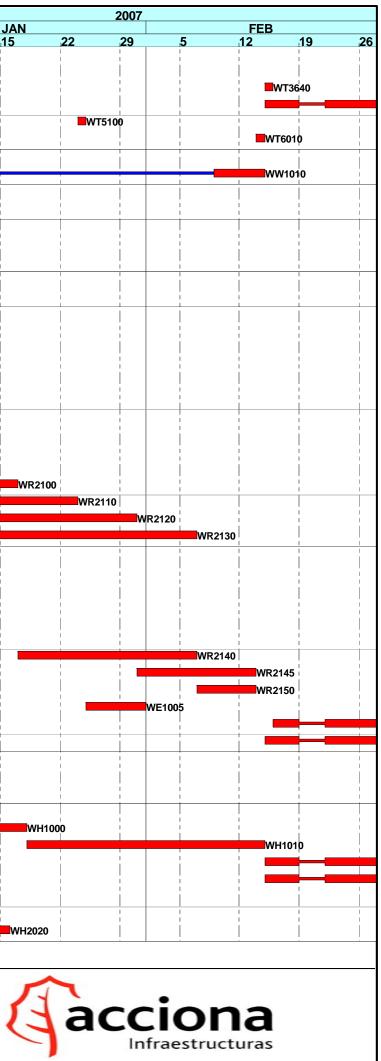
Activity	Activity	Oria	Forby	Forby	0/	Dom				2006						2007	7			
Activity ID	Description	Orig.	Early Start	Early Finish	% Compl	Rem		NOV			DEC			JA	N				В	
	-	Durn.			Compi	Durn.	13	20 27		4	11 18	25	1	8 15	22	29	5	12	1 <u>:</u>	9 26
HM1010	High Mast Lighting - Appr of Found'n (NOT USED)	24	17JAN07	13FEB07	0	24				i I				<u>i</u> i '		1			IM1010	
HM1100	High Mast Lighting Design & Shop Dwgs (NOT USED)	48	18DEC06	13FEB07	0	48				l		[1	i	i	i	F	IM1100	
HM1110	High Mast Lighting - Appro of Design (NOT USED)	56	14FEB07	10APR07	0	56														
Kiosk at Sl																1		1	1	
EM1010	Procurement & Delivery of Electrical Switchboard	48	14JUN06A	09DEC06	75	18					EM1010			i i	ĺ	i	i i	İ	İ	
EM1030	Procurement & Delivery of Fire AFA System	48	31JUL06A	09DEC06	75	18					EM1030				l I	1		1	1	1
EM1040	Submission & Approval for Air Conditioner Unit	24	20NOV06	09DEC06	0	18		1			EM1040									
EM1050	Procurement & Delivery of Air Conditioner Unit	12	30NOV06	09DEC06	0	9		1		1	EM1050									
EM1060	Submission & Approval for Sanitary Wear	24	20NOV06	09DEC06	0	18					EM1060									
EM1070	Procurement & Delivery of Sanitary Wear	12	11DEC06	20DEC06	0	9				<u> </u>	EM1	070				i		i	i	
Lai Po Roa	d Fire Hydrant Pump House									1										
EM2010	Procurement & Delivery of Pumps Valves	48	31JUL06A	23DEC06	80	30						EM2010		1 I 1 I	1	1		1	1	1
EM2020	Submission & Approval for Pump Control Panel	24	18AUG06A	29NOV06	80	9			EM202	20		1			l I	l		I I	l	1
EM2030	Procurement & Delivery of Pump Control Panel	48	30NOV06	26JAN07	0	48										EM2030				
EM2050	Procurement & Delivery of Electrical Switchboard	48	14JUN06A	09DEC06	80	18					EM2050					1		1	1	
EM2070	Procurement & Delivery of Fire AFA System	48	31JUL06A	09DEC06	80	18					EM2070					ĺ			i	
EM2110	Submission & Approval for Air Conditioner Unit	24	20NOV06	09DEC06	0	18				- 	EM2110				I I	i I		i I	i I	
EM2120	Procurement & Delivery of Air Conditioner Unit	12	11DEC06	23DEC06	0	12						EM2120								
Wai Man Ts	suen Fire Hydrant Pump House											1			1				1	
EM3010	Procurement & Delivery of Pumps Valves	48	31JUL06A	23DEC06	80	30						EM3010								
EM3020	Sumission & Approval for Pump Control Panel	24	18AUG06A	29NOV06	80	9			EM302	20					I I	1		1	1	
EM3030	Procurement & Delivery of Pump Control Panel	48	30NOV06	26JAN07	0	48	-									EM3030				
EM3050	Procurement & Delivery of Electrical Switchboard	48	14JUN06A	09DEC06	80	18					EM3050				i I	l l		i I	i i	1
EM3070	Procurement & Delivery of Fire AFA System	48	31JUL06A	09DEC06	80	18					EM3070							I I		
EM3110	Sumission & Approval for Air Conditioner Unit	24	20NOV06	09DEC06	0	18					EM3110									
EM3120	Procurement & Delivery of Air Conditioner Unit	12	11DEC06	23DEC06	0	12						EM3120				1			1	
Lai Wan Ov	verpass Irrigation Pump House	1 1				1														
EM4010	Procurement & Delivery of Pumps Valves	48	31JUL06A	23DEC06	80	30					<u> </u>	EM4010			i I	i I		i	i I	i I
EM4020	Sumission & Approval for Pump Control Panel	24	18AUG06A	29NOV06	80	9			EM402	20										
EM4030	Procurement & Delivery of Pump Control Panel	48	30NOV06	26JAN07	0	48				<u> </u>					<u> </u>	EM4030		1	1 	
EM4050	Procurement & Delivery of Electrical Switchboard	48	14JUN06A	09DEC06	80	18					EM4050									
EM4070	Procurement & Delivery of Fire AFA System	48	31JUL06A	23DEC06	80	30						EM4070			1	1		1	1	1
EM4080	Sumission & Approval for GRP Water Tank	24	23JUN06A	02DEC06	50	12			E	EM4080										
EM4090	Procurement & Delivery of FGRP Water Tank	48	04DEC06	30JAN07	0	48					1 1	_ <u>_</u>		1 1	1		EM4090	1	1	1
EM4110	Sumission & Approval for Air Conditioner Unit	24	20NOV06	09DEC06	0	18					EM4110							l I	l I	
EM4120	Procurement & Delivery of Air Conditioner Unit	12	11DEC06	23DEC06	0	12						EM4120								
		12	TIDE000	2002000	0	12														
1	Main Line - Piers PA to P6										i i				ĺ	i	i i	İ	i	
-	ture Finishing Works Required for TCSS	1 1				1				i I					l I	I I		i I	i i	
MF1000	PA to P6 - Parapet Panels PA/L to P3/L	48	14APR06A	20NOV06	98	1		MF1000												
MF1000A	PA to P6 - Parapet Insitu Concrete PA/L to P3/L	48	06MAY06A	27NOV06	85	7		- I	/IF1000A						1			1	1	
MF1005	P3L to P6 - Parapet Panels P3/L to P7/L	48	22APR06A	23NOV06	90	4		MF1005												
MF1005A	P3L to P6 - Parapet Insitu Concrete P3/L to P7/L	48	11MAY06A	12DEC06	60	20					MF1005A					1		1	1	
MF1010	PA to P6 - Parapet Panels PA/R to P3/R	48	19JUN06A	20NOV06	98	1		MF1010												
MF1010A	PA to P6 - Parapet Insitu Concrete PA/R to P3/R	48	05AUG06A	23NOV06	98	1		MF1010A		1				I I 	1	1		1	I I	1
MF1012	PA to P6 - Parapet Panels P3/R to P7/R	48	03JUL06A	27NOV06	90	5			/F1012										I I	
MF1012A	PA to P6 - Parapet Insitu Concrete P3/R to P7/R	48	10AUG06A	30NOV06	60	10				012A										
MF1015	PA to P6 - Insitu Slab to Under Median Barrier	32	02SEP06A	01DEC06	65	11			M	F1015						1		1	1	
MF1017	PA to P6 - Median Barrier (incl earthing)	45	20NOV06	12JAN07	0	45								MF1017	7		<u> </u>			
MF1020	PA to P6 - Sign Gantry DS2 at P5/R-B4	46	08DEC06	01FEB07	0	46									I	1	MF1020		I I	
MF1030	PA to P6 - Provision for E & M and TCSS	22	13JAN07	07FEB07	0	22										1		MF1030		
Remaining	Superstructure Finishing Works																		1	
MF1040	PA to P6 - Deck Drainage	60	08APR06A	06JAN07	30	40								/IF1040						
MF1050	PA to P6 - Top Rail to Parapets	24	13DEC06	11JAN07	0	24				 				MF1050	 	I			I	
Start Date		· 1	23SEP03		0	<u>.</u>	•	-	1	•	· ·	<u> </u>	12 05 14					1	1	
Finish Date			13SEP08	P3 File : LU3	0		Lichway	o Donortmon	t Cart	tract No	1V/2002/04	Snee	t 3 of 14							
Data Date			20NOV06					vs Departmen Route 8 - La							1 -					
								3 Month Ro)	A A	С	CÍO	na	•	
								from 20 N			~			1			nfraest			
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Activity	Activity	Orig.	Early	Early	%	Rem			2006				2007			
ID	Description	Durn.	Start	-		Durn.		NOV 27	DEC	; _1825	1 8	JAN 15 22	29	5	FEB 12	19
/IF1055	PA to P6 - Install Movement Joint at PA/L	6	08JAN07	13JAN07	0	6	13					MF1055				
1F1057	PA to P6 - Install Movement Joint at PA/R	6	08JAN07	13JAN07	0	6	-					MF1057	i l	i	i	
IF1090	P6 - Landscaping - Planting 0n Viaduct	25	01DEC06*	30DEC06	0	25					MF1090				1	
IF1100	P6 - Landscape Establishment Works on Viaduct	301	02JAN07	31DEC07	0	301										<u></u>
loise Barri	ers & Encl' (Sec.15 Excision)		1		1											
N1000	Viaduct - 3m Absorptive Barriers N/B Ch.407-670	75	13DEC06	15MAR07	0	75										
IN7000	Viaduct - 3m Ref. Barriers N/B Ch.S1280-L938	75	29JAN07	30APR07	0	75	-									
	Noise Barriers & Enclosures		2007 101	007.11107									1		1	
N8040	Viaduct - 5m Reflective Barrier N/B Ch.407 - 642	75	08FEB07	11MAY07	0	75	-								I	
		10	OUL EDUI	1111/11/1107	0	10										7
	Slip Road A												i l			
-	ture Finishing Works Required for TCSS		1	1	1	1										
-1010	Slip Rd.A to P7 -Parapet Panels East Face	60	06JAN06A	20NOV06	99	1		AF1010								
-1010A	Slip Rd.A to P7 -Parapet Insitu Concrete E. Face	60	20JAN06A	23NOV06	90	3		AF1010A		I I I I			I I	I I	l l	
1020	Slip Rd.A to P7- Parapet Panels West Face	60	17JAN06A	20NOV06	99	1	_	AF1020								
-1020A	Slip Rd.A to P7-Parapet Insitu Concrete W. Face	60	20FEB06A	23NOV06	90	3	-	AF1020A								
1030	Slip Rd. A - Provision for E & M and TCSS	24	24NOV06	21DEC06	0	24				AF1030						
1035	Slip Rd. B - Sign Gantry DS13 at Roundabout	12	08DEC06	21DEC06	0	12				AF1035	1				-	-
emaining	Superstructure Finishing Works						_									
1040	Slip Rd. A - Deck Drainage	60	08APR06A	09DEC06	70	18			AF1040							
1050	Slip Rd. A - Top Rail to Parapets	12	02JAN07	15JAN07	0	12						AF1050				
1055	Slip Rd. A - Install Movement Joint at Abut. A	6	23JAN07	29JAN07	0	6							AF105	5		
oise Barri	iers & Encl' (Sec.15 Excision)															
N1000	Slip Rd. A - Full Enclosure Ch.1070 - Pier A2	48	26JUL06A	05DEC06	70	14			AN1000							
1010	Slip Rd. A - Full Enclosure Pier A2 - 1280	48	30SEP06A	13JAN07	40	28		1				AN1010	I I	I I	l I	1
aduct -	Slip Road B															
	ture Finishing Works Required for TCSS															
1010	Slip Rd.B to P7 - Parapets Panels East Face	60	04MAY06A	21NOV06	98	2		BF1010								
1010A	Slip Rd.B to P7 -Parapet Insitu Concrete E. Face	60	17MAY06A	24NOV06	98	2		BF1010A						i		
1015	Slip Rd.B to P7 - Parapets Panels West Face	60	04MAY06A	24NOV06	98	2		BF1015								
1015 1015A	Slip Rd.B to P7 -Parapet Insitu Concrete W. Face	60	12MAY06A	21NOV00 24NOV06	95	3		BF1015A								
-1013A 	Slip Rd. B - Provision for E & M and TCSS	12	18SEP06A	05DEC06	80	3		BI (OTOA	BF1040							
	Superstructure Finishing Works	12	TOSEFOOA	UJDECUU	00	5										+
-1050	Slip Rd. B - Deck Drainage	60	20NOV06	30JAN07	0	60	-	i i	i i I I		i	i i	BF10	50		
F1050	Slip Rd. B - Top Rail to Parapets	12	02JAN07	15JAN07	0	12	-					BF1060				
F1065	Slip Rd. B - Install Movement Joint at Abut. B	6	24JAN07		0	6	-						BF10	65		
	1 •	0	24JANU7	30JAN07	0	0								00		-
•	Noise Barriers & Enclosures				10							BN1000				
N1000	Slip Road B - Full Enclosure Ch.1038 - Pier B2	48	30SEP06A	11JAN07	10	44						BN1000			N1005	
1005	Slip Road B - Full Enclosure Pier B2 - Ch. 1258	48	30SEP06A	08FEB07	5	46	-									
N1010	Slip Road B - Semi Enclosures Ch.1258 - 1318	48	20DEC06	15FEB07	0	48								÷	BN1	
Grade	Works - Lai Po Road															
emporary	Traffic Management Schemes										I I					
T3350	5th. TTMS Lai Po Rd (forN/B&S/B) -Implementation	78*	18AUG06A	20NOV06	0	1*		WT3350				i i	i l	İ	i	
T3420	6th. TTMS Lai Po Rd (for S/B C/W) -Roadwk Advice	6	20NOV06	25NOV06	0	6		WT3420			l			i i	I I	
T3430	6th. TTMS Lai Po Rd (for S/B C/W) - Site Prepare	6	27NOV06	02DEC06	0	6] [WT3430							
T3450	Divert N/B Traffic to Divs'n No.4 (for S/B C/W)	1	20NOV06	20NOV06	0	1	1	WT3450								
T3460	6th. TTMS Lai Po Rd (forS/B C/W) -Implementation	43*	20NOV06	10JAN07	0	43*	1					WT3460				
T3520	7th. TTMS Lai Po Rd (for S/B C/W) -Roadwk Advice	6	20NOV06	25NOV06	0	6		WT3520							 	
T3530	7th. TTMS Lai Po Rd (for S/B C/W) - Site Prepare	6	27NOV06	02DEC06	0	6	1		WT3530							
T3540	Divert S/B Traffic to Divs'n No.5 (for LPR P/H)	1	10JAN07	10JAN07	0	1	1					WT3540		1	I I	1
T3550	7th. TTMS Lai Po Rd (forS/B C/W) -Implementation	32*	10JAN07	15FEB07	0	32*	1								wr:	3550
T3600	8th. TTMS Lai Po Rd (for S/B C/W)-Prepare Review	18	20NOV06	18NOV06	0	0	1		WT3600							
T3610	8th. TTMS Lai Po Rd (for S/B C/W) - CRE Endors't	6	12DEC06	18DEC06	0	6				WT3610				I	I I	
			I	·			·			· · · · · · · · · · · · · · · · · · ·		I	· · ·			·
Date			23SEP03	P3 File : LU3	8					She	et 4 of 14	~				
sh Date a Date			13SEP08 20NOV06						ntract No. HY/2003/0 ⁴	1						
								Route 8 - Lai Chi				11-	CC	in	12	
								3 Month Rolling						IUI	Ia	
								from 20 Nover	nber 2006					aestru		
	© Primavera Systems, Inc.															

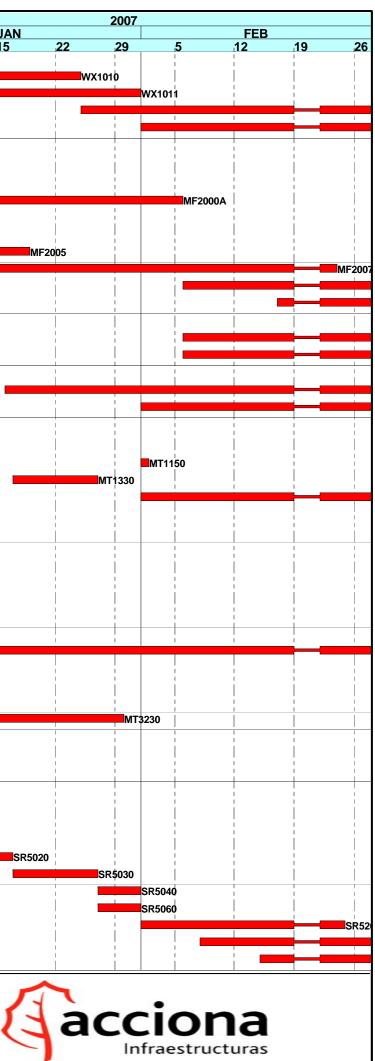
Activity	Activity	Orig.	Early	Early	%	Rem		Next			2006				
ID	Description	Durn.	Start	Finish	Compl.		13	<u>NOV</u> 20	27		<u>DEC</u> 4 <u>1</u> 1) 18 25	1		<u>JA</u> 15
WT3620	8th. TTMS Lai Po Rd (for S/B C/W) -Roadwk Advice	6	19DEC06	26DEC06	0	6	13	20		ľ	* 11	WT3620	1	O I	15
WT3630	8th. TTMS Lai Po Rd (for S/B C/W) - Site Prepare	6	27DEC06	03JAN07	0	6	-			ĺ			WT363	, O	I
WT3640	Divert S/B Traffic to Divs'n No.6 (for N/B C/W)	1	15FEB07	15FEB07	0	1	-			Ì				i i T	I
WT3650	8th. TTMS Lai Po Rd (forS/B C/W) -Implementation	108*	15FEB07	27JUN07	0	108*	-								
WT5100	Transfer Viaduct Access to Slip Rd B	1	24JAN07	24JAN07	0	1		-	1		I			<u> </u>	
WT6010	Open New Lai Po Rd. South Bound	1	14FEB07	14FEB07	0	1	-								1
	Wall LCK-R1		-	-		1				1	1			, , , , , , , , , , , , , , , , , , ,	
WW1010	Ret. Wall LCK-R1 - Bases	18	15AUG06A	14FEB07	45	5						 		 	_
	Wall LCK-R2	10		1.1.2201	10	0					I			I	
WW2030	Ret. Wall LCK-R2 - Insitu Concrete Parapets	24	11DEC06	09JAN07	0	24				1				WW2030	
	Wall LCK-R3	1 24	TIDE000	000/1110/		27								1	
WW3000	Ret. Wall LCK-R3 - Bases	18	04SEP06A	30NOV06	30	10			w	/w30	000			i i	I
WW3010	Ret. Wall LCK-R3 - Bases	24	140CT06A	14DEC06	10	18	_				WW3	010			I
L		24	1400100A	14DEC00	10	10								<u> </u>	
WR1250	ad (D3) Roadworks - Stage 1 Lai Po Rd N/B Ch.1+250 - 1+360- Utilities	12	20NOV06	02DEC06		12				w	R1250				1
		12	20100006	02DEC06	0	12					1230			 '	
	ad (D3) Roadworks - Stage 3		001101/00	401101/00				WE1040							I
WE1040	Lai Po Rd S/B - Temp. Ramp at Slip Rd B NOT USED	0	20NOV06	18NOV06	0	0	-	VVE 1040			WE2400			1 I	I
WE2400	Lai Po Rd S/B Ch.1+140 - 1+300 Fill Embankment	18	20NOV06	09DEC06	0	18	-					VA2400			
WA2400	Lai Po Rd S/B Ch.1+140 - 1+300 Drainage	18	27NOV06	16DEC06	0	18	-			I	V	WR2400			I
WR2400	Lai Po Rd S/B Ch.1+140 - 1+300 - Formation	12	11DEC06	23DEC06	0	12	-			i		IVR2400	WR2410		I
WR2410	Lai Po Rd S/B Ch.1+140 - 1+300- Sub-base	12	18DEC06	02JAN07	0	12		_						R2420	1
WR2420	Lai Po Rd S/B Ch.1+140 - 1+300- Kerbs	12	21DEC06	05JAN07	0	12	-			1	l I			WR2420	
WR2430	Lai Po Rd S/B Ch.1+140 - 1+300 - Pavement	6	03JAN07	09JAN07	0	6	-				WE2000			VVR2430	
WE2000	Lai Po Rd S/B Ch.1+000 - 1+140 Fill Embankment	18	20NOV06	09DEC06	0	18	-			ļ	WE2000		WA2200		I
WA2200	Lai Po Road S/B Ch.1+000 - 1+140 - Drainage	24	04DEC06	02JAN07	0	24	-			ľ					_
WR2100	Lai Po Rd S/B Ch.1+000 - 1+140 - Formation	24	18DEC06	16JAN07	0	24		_		i					
WR2110	Lai Po Rd S/B Ch.1+000 - 1+140 - Sub-base	24	26DEC06	23JAN07	0	24	-								
WR2120	Lai Po Rd S/B Ch.1+000 - 1+140- Kerbs	24	03JAN07	30JAN07	0	24	-			ĺ					_
WR2130	Lai Po Rd S/B Ch.1+000 - 1+140 - Pavement	24	10JAN07	06FEB07	0	24								' '	
	ad (D3) Roadworks - Stage 4									Ì				i i	I
WA3200	Lai Po Rd S/B Ch.1+300 - 1+360 - Drainage	12	04OCT06A	27NOV06	35	7	-		WA320	0		I I I I		1 I 1	ı
WR2300	Lai Po Rd S/B Ch.1+300 - 1+360 - Formation	6	28NOV06	04DEC06	0	6	-				WR2300				
WR2310	Lai Po Rd S/B Ch.1+300 - 1+360 - Sub-base	6	05DEC06	11DEC06	0	6	-			1	WR2310				I
WR2320	Lai Po Rd S/B Ch.1+300 - 1+360 - Kerbs	6	12DEC06	18DEC06	0	6	-					WR2320			I
												WR2330		i i	
WR2330	Lai Po Rd S/B Ch.1+300 - 1+360 - Pavement	6	12DEC06	18DEC06	0	6		_	1						
WR2140	Lai Po Rd S/B Ch.1+000 - 1+360- Crash Barriers	18	17JAN07	06FEB07	0	18	-								
WR2140 WR2145	Lai Po Rd S/B Ch.1+000 - 1+360- Crash Barriers Lai Po Rd S/B Ch.1+000 - 1+360 -Street Lighting	18 12	17JAN07 31JAN07	06FEB07 13FEB07	0	18 12	-								I
WR2140 WR2145 WR2150	Lai Po Rd S/B Ch.1+000 - 1+360- Crash Barriers Lai Po Rd S/B Ch.1+000 - 1+360 -Street Lighting Lai Po Rd S/B Ch.1+000 - 1+360 -Marking & Signs	18 12 6	17JAN07 31JAN07 07FEB07	06FEB07 13FEB07 13FEB07	0 0 0	18 12 6	-								1
WR2140 WR2145 WR2150 WE1005	Lai Po Rd S/BCh.1+000 - 1+360- Crash BarriersLai Po Rd S/BCh.1+000 - 1+360 -Street LightingLai Po Rd S/BCh.1+000 - 1+360 -Marking & SignsLai Po Rd N/B - Remove Temp Ramp to Slip Rd. A	18 12 6 6	17JAN07 31JAN07 07FEB07 25JAN07	06FEB07 13FEB07 13FEB07 31JAN07	0 0 0 0	18 12 6 6	-								
WR2140 WR2145 WR2150 WE1005 WE1007	Lai Po Rd S/BCh.1+000 - 1+360- Crash BarriersLai Po Rd S/BCh.1+000 - 1+360 -Street LightingLai Po Rd S/BCh.1+000 - 1+360 -Marking & SignsLai Po Rd N/B - Remove Temp Ramp to Slip Rd. ALai Po Rd N/B - Remove Temp Road Over Slip Rd A	18 12 6 6 12	17JAN07 31JAN07 07FEB07 25JAN07 16FEB07	06FEB07 13FEB07 13FEB07 31JAN07 05MAR07	0 0 0 0 0	18 12 6 6 12	-								
WR2140 WR2145 WR2150 WE1005 WE1007 WE1010	Lai Po Rd S/BCh.1+000 - 1+360- Crash BarriersLai Po Rd S/BCh.1+000 - 1+360 - Street LightingLai Po Rd S/BCh.1+000 - 1+360 - Marking & SignsLai Po Rd N/BRemove Temp Ramp to Slip Rd. ALai Po Rd N/B - Remove Temp Road Over Slip Rd ALai Po Rd N/B Ch.0+946 - 1+250 - Fill Embankment	18 12 6 6	17JAN07 31JAN07 07FEB07 25JAN07	06FEB07 13FEB07 13FEB07 31JAN07	0 0 0 0	18 12 6 6	-								
WR2140 WR2145 WR2150 WE1005 WE1007 WE1010	Lai Po Rd S/BCh.1+000 - 1+360- Crash BarriersLai Po Rd S/BCh.1+000 - 1+360 - Street LightingLai Po Rd S/BCh.1+000 - 1+360 - Marking & SignsLai Po Rd N/BRemove Temp Ramp to Slip Rd. ALai Po Rd N/B - Remove Temp Road Over Slip Rd ALai Po Rd N/B Ch.0+946 - 1+250 - Fill EmbankmentLighting (NOT USED)	18 12 6 6 12	17JAN07 31JAN07 07FEB07 25JAN07 16FEB07 15FEB07	06FEB07 13FEB07 13FEB07 31JAN07 05MAR07 24MAR07	0 0 0 0 0	18 12 6 6 12 30									
WR2140 WR2145 WR2150 WE1005 WE1007 WE1010 High Mast WR3000	Lai Po Rd S/B Ch.1+000 - 1+360- Crash Barriers Lai Po Rd S/B Ch.1+000 - 1+360 - Street Lighting Lai Po Rd S/B Ch.1+000 - 1+360 - Marking & Signs Lai Po Rd N/B Ch.1+000 - 1+360 - Marking & Signs Lai Po Rd N/B - Remove Temp Ramp to Slip Rd. A Lai Po Rd N/B - Remove Temp Road Over Slip Rd A Lai Po Rd N/B Ch.0+946 - 1+250 - Fill Embankment Lighting (NOT USED) H/M Lighting (3 No. Mast) - Found's (NOT USED)	18 12 6 12 30 24	17JAN07 31JAN07 07FEB07 25JAN07 16FEB07 15FEB07 20NOV06	06FEB07 13FEB07 31JAN07 05MAR07 24MAR07 16DEC06	0 0 0 0 0 0 0	18 12 6 12 30 24						VR3000			
WR2140 WR2145 WR2150 WE1005 WE1007 WE1010 High Mast	Lai Po Rd S/BCh.1+000 - 1+360- Crash BarriersLai Po Rd S/BCh.1+000 - 1+360 - Street LightingLai Po Rd S/BCh.1+000 - 1+360 - Marking & SignsLai Po Rd N/BRemove Temp Ramp to Slip Rd. ALai Po Rd N/B - Remove Temp Road Over Slip Rd ALai Po Rd N/B Ch.0+946 - 1+250 - Fill EmbankmentLighting (NOT USED)	18 12 6 12 30	17JAN07 31JAN07 07FEB07 25JAN07 16FEB07 15FEB07	06FEB07 13FEB07 13FEB07 31JAN07 05MAR07 24MAR07	0 0 0 0 0 0	18 12 6 6 12 30					V				
WR2140 WR2145 WR2150 WE1005 WE1007 WE1010 High Mast WR3000 WR3010	Lai Po Rd S/B Ch.1+000 - 1+360- Crash Barriers Lai Po Rd S/B Ch.1+000 - 1+360 - Street Lighting Lai Po Rd S/B Ch.1+000 - 1+360 - Marking & Signs Lai Po Rd N/B Ch.1+000 - 1+360 - Marking & Signs Lai Po Rd N/B - Remove Temp Ramp to Slip Rd. A Lai Po Rd N/B - Remove Temp Road Over Slip Rd A Lai Po Rd N/B Ch.0+946 - 1+250 - Fill Embankment Lighting (NOT USED) H/M Lighting (3 No. Mast) - Found's (NOT USED)	18 12 6 12 30 24	17JAN07 31JAN07 07FEB07 25JAN07 16FEB07 15FEB07 20NOV06	06FEB07 13FEB07 31JAN07 05MAR07 24MAR07 16DEC06	0 0 0 0 0 0 0	18 12 6 12 30 24					V				
WR2140 WR2145 WR2150 WE1005 WE1007 WE1010 High Mast WR3000 WR3010 Lai Po Roa WH1000	Lai Po Rd S/BCh.1+000 - 1+360- Crash BarriersLai Po Rd S/BCh.1+000 - 1+360 - Street LightingLai Po Rd S/BCh.1+000 - 1+360 - Marking & SignsLai Po Rd N/BRemove Temp Ramp to Slip Rd. ALai Po Rd N/B - Remove Temp Road Over Slip Rd ALai Po Rd N/B Ch.0+946 - 1+250 - Fill EmbankmentLighting (NOT USED)H/M Lighting (3 No. Mast) - Found's (NOT USED)H/MLighting (3 No. Mast) - Erect Masts (NOT USED)	18 12 6 12 30 24	17JAN07 31JAN07 07FEB07 25JAN07 16FEB07 15FEB07 20NOV06	06FEB07 13FEB07 31JAN07 05MAR07 24MAR07 16DEC06 02JAN07 17JAN07	0 0 0 0 0 0 0	18 12 6 12 30 24									
WR2140 WR2145 WR2150 WE1005 WE1007 WE1010 High Mast WR3000 WR3010 Lai Po Roa	Lai Po Rd S/B Ch.1+000 - 1+360- Crash Barriers Lai Po Rd S/B Ch.1+000 - 1+360 - Street Lighting Lai Po Rd S/B Ch.1+000 - 1+360 - Marking & Signs Lai Po Rd S/B Ch.1+000 - 1+360 - Marking & Signs Lai Po Rd N/B - Remove Temp Ramp to Slip Rd. A Lai Po Rd N/B - Remove Temp Road Over Slip Rd A Lai Po Rd N/B Ch.0+946 - 1+250 - Fill Embankment Lighting (NOT USED) H/M Lighting (3 No. Mast) - Found's (NOT USED) H/MLighting (3 No. Mast) - Erect Masts (NOT USED)	18 12 6 12 30 24 12	17JAN07 31JAN07 07FEB07 25JAN07 16FEB07 15FEB07 20NOV06 18DEC06	06FEB07 13FEB07 31JAN07 05MAR07 24MAR07 16DEC06 02JAN07	0 0 0 0 0 0 0 0 0 0 0	18 12 6 6 12 30 24 12									
WR2140 WR2145 WR2150 WE1005 WE1007 WE1010 High Mast WR3000 WR3010 Lai Po Roa WH1000	Lai Po Rd S/B Ch.1+000 - 1+360- Crash Barriers Lai Po Rd S/B Ch.1+000 - 1+360 - Street Lighting Lai Po Rd S/B Ch.1+000 - 1+360 - Marking & Signs Lai Po Rd N/B Ch.1+000 - 1+360 - Marking & Signs Lai Po Rd N/B - Remove Temp Ramp to Slip Rd. A Lai Po Rd N/B - Remove Temp Road Over Slip Rd A Lai Po Rd N/B Ch.0+946 - 1+250 - Fill Embankment Lighting (NOT USED) H/M Lighting (3 No. Mast) - Found's (NOT USED) H/MLighting (3 No. Mast) - Erect Masts (NOT USED) Lai Po Rd. F/H Pump House Lai Po Rd. F/H Pump House - Plate Load Test	18 12 6 12 30 24 12 6	17JAN07 31JAN07 07FEB07 25JAN07 16FEB07 15FEB07 20NOV06 18DEC06 11JAN07	06FEB07 13FEB07 31JAN07 05MAR07 24MAR07 16DEC06 02JAN07 17JAN07	0 0 0 0 0 0 0 0 0 0 0	18 12 6 12 30 24 12 6					V				
WR2140 WR2145 WR2150 WE1005 WE1007 WE1010 High Mast WR3000 WR3010 Lai Po Roa WH1000 WH1010	Lai Po Rd S/B Ch.1+000 - 1+360- Crash Barriers Lai Po Rd S/B Ch.1+000 - 1+360 - Street Lighting Lai Po Rd S/B Ch.1+000 - 1+360 - Marking & Signs Lai Po Rd S/B Ch.1+000 - 1+360 - Marking & Signs Lai Po Rd N/B - Remove Temp Ramp to Slip Rd. A Lai Po Rd N/B - Remove Temp Road Over Slip Rd A Lai Po Rd N/B Ch.0+946 - 1+250 - Fill Embankment Lighting (NOT USED) H/M Lighting (3 No. Mast) - Found's (NOT USED) H/MLighting (3 No. Mast) - Erect Masts (NOT USED) A Fire Hydrant Pump House Lai Po Rd. F/H Pump House - Plate Load Test Lai Po Rd. F/H Pump House - Structure	18 12 6 12 30 24 12 6 24 12 24 12 24 12 24 12 24 12 24 12 24 24 24 24 24 24 24 24 24 24 24	17JAN07 31JAN07 07FEB07 25JAN07 16FEB07 15FEB07 20NOV06 18DEC06 11JAN07 18JAN07	06FEB07 13FEB07 31JAN07 05MAR07 24MAR07 24MAR07 16DEC06 02JAN07 17JAN07 14FEB07	0 0 0 0 0 0 0 0 0 0 0 0	18 12 6 12 30 24 12 6 24 12 24 12 24 12 24									
WR2140 WR2145 WR2150 WE1005 WE1010 High Mast WR3000 WR3010 Lai Po Roa WH1000 WH1010 WH1020	Lai Po Rd S/B Ch.1+000 - 1+360- Crash Barriers Lai Po Rd S/B Ch.1+000 - 1+360 - Street Lighting Lai Po Rd S/B Ch.1+000 - 1+360 - Marking & Signs Lai Po Rd S/B Ch.1+000 - 1+360 - Marking & Signs Lai Po Rd N/B - Remove Temp Ramp to Slip Rd. A Lai Po Rd N/B - Remove Temp Road Over Slip Rd A Lai Po Rd N/B Ch.0+946 - 1+250 - Fill Embankment Lighting (NOT USED) H/M Lighting (3 No. Mast) - Found's (NOT USED) H/MLighting (3 No. Mast) - Erect Masts (NOT USED) ad Fire Hydrant Pump House Lai Po Rd. F/H Pump House - Structure Lai Po Rd. F/H Pump House - Waterproofing	18 12 6 12 30 24 12 6 24 12 13 14 15 16 17	17JAN07 31JAN07 07FEB07 25JAN07 16FEB07 15FEB07 20NOV06 18DEC06 20NOV06 18DEC06 11JAN07 18JAN07 15FEB07	06FEB07 13FEB07 31JAN07 05MAR07 24MAR07 24MAR07 16DEC06 02JAN07 17JAN07 14FEB07 03MAR07	0 0 0 0 0 0 0 0 0 0 0 0 0 0	18 12 6 12 30 24 12 6 24 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12					2000				
WR2140 WR2145 WR2150 WE1005 WE1010 High Mast WR3000 WR3010 Lai Po Roa WH1000 WH1020 WH1040	Lai Po Rd S/B Ch.1+000 - 1+360- Crash Barriers Lai Po Rd S/B Ch.1+000 - 1+360 - Street Lighting Lai Po Rd S/B Ch.1+000 - 1+360 - Marking & Signs Lai Po Rd N/B Ch.1+000 - 1+360 - Marking & Signs Lai Po Rd N/B - Remove Temp Ramp to Slip Rd. A Lai Po Rd N/B - Remove Temp Road Over Slip Rd A Lai Po Rd N/B Ch.0+946 - 1+250 - Fill Embankment Lighting (NOT USED) H/M Lighting (3 No. Mast) - Found's (NOT USED) H/MLighting (3 No. Mast) - Erect Masts (NOT USED) ad Fire Hydrant Pump House Lai Po Rd. F/H Pump House - Structure Lai Po Rd. F/H Pump House - Waterproofing Lai Po Rd. F/H Pump House - Mechanical Works	18 12 6 12 30 24 12 6 24 12 24 12 24 12 24 12 24 12 24 24 24 24 24 24 24 24 24 24 24 24 24 24 24 24	17JAN07 31JAN07 07FEB07 25JAN07 16FEB07 15FEB07 20NOV06 18DEC06 18DEC06 11JAN07 18JAN07 15FEB07 15FEB07	06FEB07 13FEB07 31JAN07 05MAR07 24MAR07 24MAR07 16DEC06 02JAN07 17JAN07 14FEB07 03MAR07 17MAR07	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	18 12 6 12 30 24 12 6 24 12 24 12 24 12 24 12 24 12 24 12 24 12 24 12 24					2000				

Start Date Finish Date Data Date 23SEP03 13SEP08 20NOV06

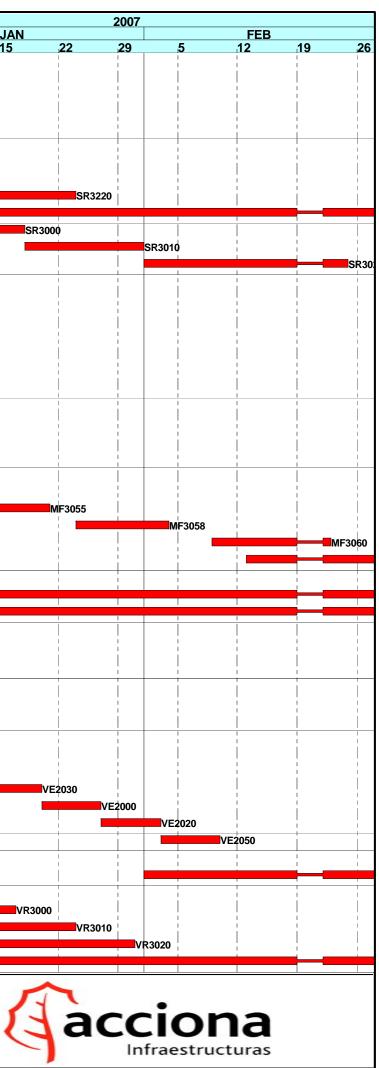
Highways Department Contract No. HY/2003/01 Route 8 - Lai Chi Kok Viaduct 3 Month Rolling Programme from 20 November 2006 Sheet 5 of 14



Activity	Activity	Orig.	Early	Early	%	Rem		Nov			2006	DE	0				
ID	Description	Durn.	Start	-	Compl.		13	NOV 20	27		4 11	DE		25	.1	8	<u>JA</u> 15
Landscape	Works						15	20									
WX1010	Landscaping - Dwarf Walls FW8, FW10 & FW13	54	21NOV06	24JAN07	0	54	_										The second seco
WX1011	Landscaping - Dwarf Walls FW4 & FW6	41	13DEC06	31JAN07	0	41	-										
WX1012	Landscaping - Dwarf Walls FW12 & FW14	34	25JAN07	08MAR07	0	34	-									1	
WX1013	Landscaping - Dwarf Walls FW8, FW10 & FW13	34	01FEB07	15MAR07	0	34	-									I	1
Viaduct - I	Main Line - Piers P7 to P10		1	1	1	1							1	1		I	
	ture Finishing Works Required for TCSS																
MF2000	P7 to P10 - Parapet Panels P7 to P8	22	30AUG06A	09DEC06	20	18					MF20	00					1
MF2000A	P7 to P10 - Parapet Insitu Concrete P7 to P8	74	02JUN06A	05FEB07	10	65											
MF2002	P7 to P10 - Parapet Panels P8 to P10	36	02JUN06A	05DEC06	60	14			1		MF2002		1	1		I	I I
MF2002A	P7 to P10 - Parapet Insitu Concrete P8 to P10	36	14AUG06A	14DEC06	40	22						MF2	002A			I.	
MF2005	P7 to P10 - Insitu Slab to Under Median Barrier	50	13DEC06	18JAN07	0	30	-										
MF2007	P7 to P10 - Median Barrier (incl earthing)	46	28DEC06	23FEB07	0	46									-		
MF2010	P7 to P10 - Sign Gantry CAP4 at P8/L	46	06FEB07	04APR07	0	46	_		1		1 I 1 I		1			l	1
MF2030	P7 to P10 - Provision for E & M and TCSS	36	17FEB07	04APR07	0	36	-									I	
1	Superstructure Finishing Works			• • • • • • • •	-				I								
MF2050	P7 to P10 - Top Rail to Parapets	18	06FEB07	01MAR07	0	18			i I								I I
MF2090	P7 to P10 - Landscaping - Planting 0n Viaduct	25	06FEB07	09MAR07	0	25	_		Í		İ İ		Í				Ì
1	Noise Barriers & Enclosures	1 20				20		1			I I		1	1			<u> </u>
MN8000	Viaduct - Semi Enclosure N/B Ch.980 to 1181	60	16JAN07	29MAR07	0	60										I	
MN8020	Viaduct - 3m Reflective Barrier C/L Ch.845 - 980	60	01FEB07	16APR07	0	60	-									1	
		00	UII LBU/	TOAT INOT	0	00		-					1				
	Norks - Lai Chi Kok Interchange								i I				i I	i I		I	i I
· · ·	Traffic Management Schemes	_			1	1	_		I I				1	1		I	I.
MT1150	B.V. Rd - Divert Traffic to Fast & Slow Lanes	1	01FEB07	31JAN07	0	0	_										
MT1330	2nd. TTMS Butterfly Valley Rd - Prepare	9	17JAN07	26JAN07	0	9	_									1	
MT1340	2nd. TTMS Butterfly Valley Rd - Implementation	43*	01FEB07	26MAR07	0	43*	_				L						ĺ
MT1400	3rd TTMS Butterfly Valley Rd -Prepare for Review	12	20NOV06	02DEC06	0	12	_		i	IN	IT1400		i			I	i I
MT1410	3rd. TTMS Butterfly Valley Rd - CRE Endorsement	6	12DEC06	18DEC06	0	6		_					MT1410			I	
MT1420	3rd. TTMS Butterfly Valley Rd - Roadworks Advice	6	19DEC06	26DEC06	0	6			I I					MT1420		1	1
MT2140	TTMS for Pier P8/L - Implementation	843*	23FEB04A	08DEC06	29	17*					MT2140					1	
MT3100	2nd. TTMS Kom Tsun Street - Prepare for Review	12	20NOV06	02DEC06	0	12			i	I	IT3100					I	1
MT3110	2nd. TTMS Kom Tsun Street - CRE Endorsement	6	12DEC06	18DEC06	0	6							MT3110			I	
MT3120	2nd. TTMS Kom Tsun Street - Roadworks Advice	6	19DEC06	26DEC06	0	6			1				-	MT3120		ļ	
MT3130	2nd. TTMS Kom Tsun Street - Site Preparation	6	27DEC06	03JAN07	0	6									MT3130	1	l
MT3140	2nd. TTMS Kom Tsun Street - Implementation	74*	04JAN07	04APR07	0	74*											-
MT3200	3rd. TTMS Kom Tsun Street - Prepare for Review	12	20NOV06	02DEC06	0	12				M	1T3200					r I	
MT3210	3rd. TTMS Kom Tsun Street - CRE Endorsement	6	12DEC06	18DEC06	0	6			İ		i i 🗖		MT3210				
MT3220	3rd. TTMS Kom Tsun Street - Roadworks Advice	6	19DEC06	26DEC06	0	6			1		1 I 1 I		1	MT3220		I	
MT3230	3rd. TTMS Kom Tsun Street - Site Preparation	28	27DEC06	29JAN07	0	28											
Drainage W	lorks															I.	
SA5100	Butterfly Valley Rd Stage2 - Stormwater Drainage	36	21SEP06A	27NOV06	80	7			SA51	00						I	
SA5300	Butterfly Valley Rd Stage4 - Stormwater Drainage	12	21SEP06A	24NOV06	60	5			SA5300							1	
Utilities & R	Roadworks															I	1
SR2000	Castle Peak Road - Roadworks Reinstatement	17	20NOV06	08DEC06	0	17					SR2000)					
SR5000	Butterfly V. Rd (LCKI) Stage1-Excav. & Formation	36	19SEP06A	09DEC06	50	18		-			SR50	00				1	1
SR5010	Butterfly V. Rd (LCKI) Stage 1 - Sub-base	36	20NOV06	02JAN07	0	36]							-	SR5010	I	
SR5020	Butterfly V. Rd (LCKI) Stage 1 - Kerbs	24	18DEC06	16JAN07	0	24	1		i I		1 I 1 I						
SR5030	Butterfly V. Rd (LCKI) Stage 1 - Pavement	9	17JAN07	26JAN07	0	9	1	1								I	
SR5040	Butterfly V. Rd (LCKI) Stage 1 - Street Lighting	4	27JAN07	31JAN07	0	4							1	1			
SR5060	Butterfly V. Rd (LCKI) Stage 1 - Road Marking	4	27JAN07	31JAN07	0	4	1									I	
SR5200	Butterfly V. Rd (LCKI) Stage2-Excav. & Formation	18	01FEB07	24FEB07	0	18	1							1		İ	
SR5210	Butterfly V. Rd (LCKI) Stage 2 - Sub-base	18	08FEB07	03MAR07	0	18	1									I	
SR5220	Butterfly V. Rd (LCKI) Stage 2 - Kerbs	18	15FEB07	10MAR07	0	18	1	1	l					1			1
Start Date	1	1		P3 File : LU3	38	1	1	•		1	ı <u> </u>		1	Sheet	6 of 14		
inish Date			13SEP08				Highway	vs Dena	rtment (Cont	ract No. HY/2	2003/0	1	Cried			
Data Date			20NOV06								ok Viaduct		-				1
											rogramme						1
											per 2006						
	© Primavera Systems, Inc.																
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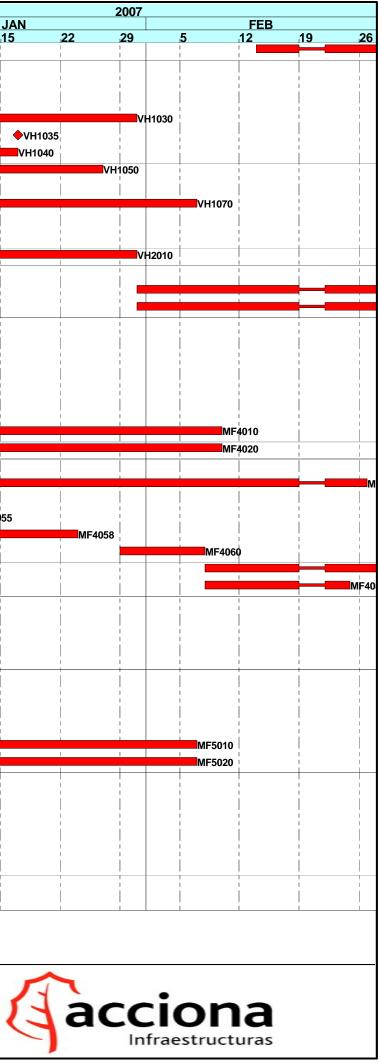
Activity	Activity	Orig.	Early	Early	%	Rem		NOV		2006	254			
ID	Description	Durn.	Start	Finish	Compl.		13	NOV 20	27	4	DEC 11 18	25 1	.8	JA 15
SR5300	Butterfly V. Rd (LCKI) Stage4-Excav. & Formation	18	20NOV06	09DEC06	0	18					SR5300			
SR5310	Butterfly V. Rd (LCKI) Stage 4 - Sub-base	18	28NOV06	18DEC06	0	18		1			SR5310			
SR5320	Butterfly V. Rd (LCKI) Stage 4 - Kerbs	18	05DEC06	26DEC06	0	18	1					SR5320		
SR5330	Butterfly V. Rd (LCKI) Stage 4 - Pavement	6	27DEC06	03JAN07	0	6						SR53	330	
SR5340	Butterfly V. Rd (LCKI) Stage 4 - Street Lighting	4	04JAN07	08JAN07	0	4		i i					SR5340	i -
SR5350	Butterfly V. Rd (LCKI) Stage 4 - Road Marking	4	04JAN07	08JAN07	0	4							SR5350	1
SR3200	Kom Tsun Street Bus Stn Excavate & Formation	18	11DEC06	02JAN07	0	18	1						0	1
SR3210	Kom Tsun Street bus Stn Sub-base	18	18DEC06	09JAN07	0	18							SR3210	
SR3220	Kom Tsun Street Bus Stn Kerbs	24	26DEC06	23JAN07	0	24								
SR3230	Kom Tsun Street Bus Stn Concrete Pavement	75	03JAN07	04APR07	0	75		i						÷.
SR3000	Kom Tsun Street L/H C/Way - Excavate & Formation	12	04JAN07	17JAN07	0	12								
SR3010	Kom Tsun Street L/H C/Way - Sub-base	12	18JAN07	31JAN07	0	12				l I		l l	l I	1
SR3020	Kom Tsun Street L/H C/Way - Kerbs	18	01FEB07	24FEB07	0	18								
Viaduct - I	Main Line - Piers P11 to P15	1	1	1	1									1
	ture Finishing Works Required for TCSS													
MF3000	P11 to P16 - Parapet Panels P10 to P12	30	06JUN06A	23NOV06	85	4		MF30	00					
MF3000A	P11 to P16 - Parapet Insitu Concrete P10 to P12	30	08AUG06A	02DEC06	60	12	_			MF3000A				
MF3005	P11 to P16 - Parapet Panels P12 to P14	24	25MAY06A	21NOV06	99	2		MF3005			i i			i i
MF3005A	P11 to P16 - Parapet Insitu Concrete P12 to P14	32	04SEP06A	28NOV06	75	8			MF30	005A				i -
MF3010	P11 to P16 - Parapet Panels P14 to P16	24	30MAY06A	25NOV06	75	6	_	M	-3010					
MF3010A	P11 to P16 - Parapet Insitu Concrete P14 to P16	33	25SEP06A	29NOV06	80	7			MF	3010A				1
MF3015	P11 to P15 - Insitu Slab to Under Median Barrier	72	02AUG06A	12DEC06	70	20	_				MF3015			
MF3017	P11 to P15 - Median Barrier (incl earthing)	54	110CT06A	06JAN07	5	40	_						MF3017	i i
MF3020	P11 to P16 - Provision for E & M and TCSS	24	08AUG06A	02DEC06	50	12				MF3020				
1		27	UUAUUUUA	0202000	50	12		1					<u> </u>	<u> </u>
MF3050	Superstructure Finishing Works	18	08DEC06	29DEC06	0	18						MF3050		
MF3050 MF3055	P11 to P16 - Top Rail to Parapets P11 to P16 - Install Movement Joint at P12		08JAN07	29DEC08 20JAN07	0	10	-					MI \$050		
MF3055 MF3058	P11 to P16 - Waterproofing of Deck	12	24JAN07	03FEB07	0	12	-							1
		10			-	9	-	i i			i i			i i
MF3060	P11 to P16 - Flexible Pavement	9	09FEB07	22FEB07	0	-	-	1		l I		l l		1
MF3090	P11 to P16 - Landscaping - Planting 0n Viaduct	25	13FEB07	16MAR07	0	25								+
	Noise Barriers & Enclosures	75	40 14 107	4440007	0	75								
MN8030	Viaduct - 3m Reflective Barrier S/B Ch.1181-1302	75	10JAN07	11APR07		75	_							1
MN8070	Viaduct - 5m Reflective Barrier N/B Ch.1181-1302	75	10JAN07	11APR07	0	75		i i						
	Works - Wai Man Tsuen													
	Channel at Wai Man Tsuen		1	1		1								
VC3000	Channel - Modifications to Channel Floor -VO 299	12	30NOV05A	23NOV06	95	4		VC30	00					
Earthworks	& Slope Works							j		Ì	i i			Ì.
VE1060	Slope CCR-S5 - Slope Drainage & Finishes	24	20NOV06	16DEC06	0	24		1		1	VE1060	l I	l l	1
VE1070	Slope CCR-S5 - Landscaping & Hydroseeding	12	11DEC06	23DEC06	0	12						/E1070		
Earthworks	& Slope Works - 11NW-A/C678 & CR679					_								1
VE2025	Slope 11NW-A/C678 & CR679 - Platform for S.Nails	3	18DEC06	20DEC06	0	3					VE202			
VE2027	Slope 11NW-A/C678 & CR679 - Test Soil Nail	6	21DEC06	28DEC06	0	6						VE2027		
VE2030	Slope 11NW-A/C678 & CR679 - Soil Nails	18	29DEC06	19JAN07	0	18	1							-
VE2000	Slope 11NW-A/C678 & CR679 - Remove Temp Platform	6	20JAN07	26JAN07	0	6								
VE2020	Slope 11NW-A/C678 & CR679 - Trim Original Slope	6	27JAN07	02FEB07	0	6								-
VE2050	Slope 11NW-A/C678 & CR679 -Landscape & Hydroseed	6	03FEB07	09FEB07	0	6								
Drainage W	/orks													1
VA1000	Butterfly Valley Rd Stage3 - Stormwater Draiange	24	01FEB07	03MAR07	0	24]	l i						
Utilities & F	Roadworks							1		1				1
VR3000	Drainage Maintenance Access Rd Formation	24	18DEC06	16JAN07	0	24	1							<u> </u>
VR3010	Drainage Maintenance Access Rd Sub-base	24	26DEC06	23JAN07	0	24	1							-
VR3020	Drainage Maintenance Access Rd Kerbs	24	03JAN07	30JAN07	0	24	1			l				-
VR3030	Drainage Maintenance Access Rd Pavement	48	03JAN07	02MAR07	0	48	1							-
Start Date	,		23SEP03	P3 File : LU3	38	I	1			I		Sheet 7 of 14	1	
Finish Date Data Date			13SEP08 20NOV06				Highway	s Departm	ent Co	ontract No.	HY/2003/01			
ימום שמוכ			20140400				5			i Kok Viadu				1
) Programm	ne			1
								from 20	Nove	mber 2006				
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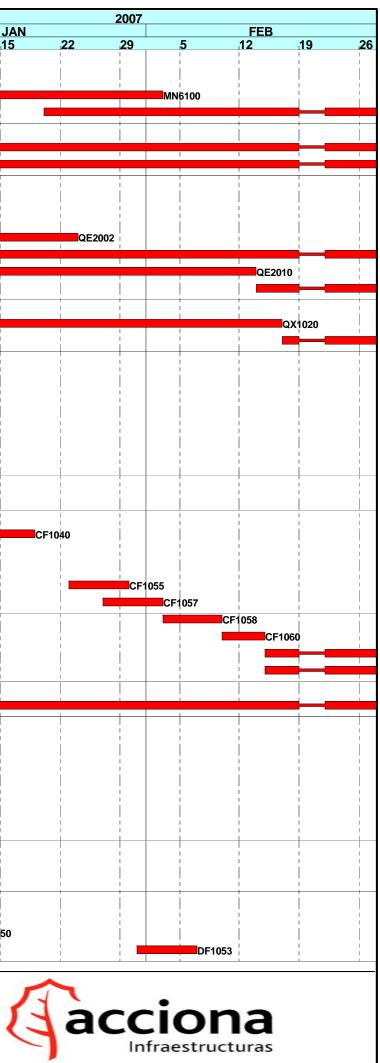
Activity	Activity	Orig.	Early	Early	%	Rem		NOV			2006	EC				
ID	Description	Durn.	Start	Finish	Compl	Durn.	13	<u>NOV</u> 20	27		4 11	18	25		8	JA 15
VR3040	Drainage Maintenance Access Rd Street Lights	12	14FEB07	02MAR07	0	12			1					-		
Wai Man Ts	suen Fire Hydrant Pump House															
VH1010	Wai Man Tsuen F/H Pump House - Structure	48	06SEP06A	16DEC06	50	24						VH1010				1
VH1020	Wai Man Tsuen F/H Pump House - Waterproofing	12	18DEC06	02JAN07	0	12								VH1020)	
VH1030	Wai Man Tsuen F/H Pump House - Building Works	24	03JAN07	30JAN07	0	24			i			i	i I			÷
VH1035	Wai Man Tsuen F/H P/H - Provide for E & M Contr'	0		16JAN07	0	0			l T							
VH1040	Wai Man Tsuen F/H Pump House - Mechanical Works	24	18DEC06	16JAN07	0	24	1									—
VH1050	Wai Man Tsuen F/H Pump House - Electrical Work	24	29DEC06	26JAN07	0	24			1							-
VH1060	Wai Man Tsuen F/H Pump House - FS Installation	24	11DEC06	09JAN07	0	24	-		ĺ						VH1060	1
VH1070	Wai Man Tsuen F/H Pump House - Plumb & Drains	24	10JAN07	06FEB07	0	24	-		i			i I				÷
VH2000	Fire Main - Pipework Along Maintenance Road	18	18DEC06	09JAN07	0	18	1								VH2000)
VH2005	Fire Main - Pipework to Piers P10/R & P14	18	18DEC06	09JAN07	0	18									VH2005	;
VH2010	Fire Main - Valves & Connections	18	10JAN07	30JAN07	0	18										
Landscape	Works					1			l I							
VX1000	Landscaping - Earthworks & Formation	24	31JAN07	02MAR07	0	24										
VX1040	Landscaping - Soiling & Planting	24	31JAN07	02MAR07	0	24			I I			1	1			I I
	Main Line - Piers P16 to P18				-	1			I			I	I		1	-
												l			l	i.
•	ture Finishing Works Required for TCSS	6	00000000	20NOV06	00	1		MF4000								I I
MF4000	P16 to P19 - Parapet Panels at P16 - P18	6	09OCT06A		98	1	-		, F4000A		İ İ					İ
MF4000A	P16 to P19 -Parapet Insitu Concrete at P16 - P18	8	11NOV06A	23NOV06	5	4			F4000A		MF40	05	l I		1	l I
MF4005	P16 to P18 - Insitu Slab to Under Median Barrier	26	07NOV06A	12DEC06	5	20	-				IVIF40	05	MF4	007		
MF4007	P16 to P18 - Median Barrier (incl earthing)	24	29NOV06	27DEC06	0	24	-					i		007		
MF4010	P16 to P19 - Sign Gantry DS1 at P18/R	53	08DEC06	09FEB07	0	53										
MF4020	P16 to P19 - Provision for E & M and TCSS	46	16DEC06	09FEB07	0	46		_								
	Superstructure Finishing Works								l I		I I I I	l				
MF4040	P16 to P18 - Deck Drainage	48	28DEC06	26FEB07	0	48	-		1							1
MF4050	P16 to P18 - Top Rail to Parapets	12	24NOV06	07DEC06	0	12	-		1		MF4050					
MF4055	P16 to P18 - Install Movement Joints at P16/L&R	12	28DEC06	11JAN07	0	12	-		i i						IMF4	4055
MF4058	P16 to P18 - Waterproofing of Deck	10	12JAN07	23JAN07	0	10	-		i I			i I				-
MF4060	P16 to P18 - Flexible Pavement	9	29JAN07	07FEB07	0	9										
MF4070	P16 to P18 - Viaduct Road Lighting	18	08FEB07	03MAR07	0	18	-									I I
MF4080	P16 to P18 - Road Marking & Traffic Signage	12	08FEB07	24FEB07	0	12										
Viaduct - I	Main Line - Piers 19 to Abutment M															÷.
Substructu	re								1							
MS5177	P21 - Slope Reinstatement	24	250CT06A	21NOV06	95	2		MS51	77						1	1
MS5225	Abutment M - Slope Reinstatement	24	310CT06A	25NOV06	75	6			MS5225							
Superstruc	ture Finishing Works Required for TCSS															
MF5000A	P19 to Abut M -Parapet Insitu Conc P18 - Abut M	20	250CT06A	22NOV06	90	2		MF5	5000A			i i				i I
MF5005	P19 to Abut M - Insitu Slab Under Median Barrier	20	07NOV06A	07DEC06	15	16			l.		MF5005					
MF5007	P19 to Abut M - Median Barrier (incl earthing)	18	29NOV06	19DEC06	0	18						MF5	007		l l	1
MF5010	P19 to Abut M - Sign Gantry FADS1at Abutment M	50	08DEC06	06FEB07	0	50										
MF5020	P19 to Abut M - Provision for E & M and TCSS	46	13DEC06	06FEB07	0	46	-									<u> </u>
Remaining	Superstructure Finishing Works					1										+
MF5040	P19 to Abut M - Deck Drainage	18	06DEC06	27DEC06	0	18			i				MF5	040	i i	į.
MF5050	P19 to Abut M - Top Rail to Parapets	12	20NOV06	02DEC06	0	12				N	IF5050	l			l	
MF5055	P19 to Abut M - Install Movement Joint at Abut M	4	18DEC06	21DEC06	0	4	1		l I				/F5055		1	
MF5058	P19 to Abut M - Waterproofing of Deck	4	21DEC06	26DEC06	0	4	1						MF505	58		
MF5060	P19 to Abut M - Flexible Pavement	4	27DEC06	30DEC06	0	4	-							MF5060		
MF5070	P19 to Abut M - Viaduct Road Lighting	18	12DEC06	03JAN07	0	18		_						MF50	70	- <u>i</u>
		+	02JAN07	05JAN07	+	+	-		1		1	1	1		IF5080	

Start Date Finish Date Data Date 23SEP03 13SEP08 20NOV06

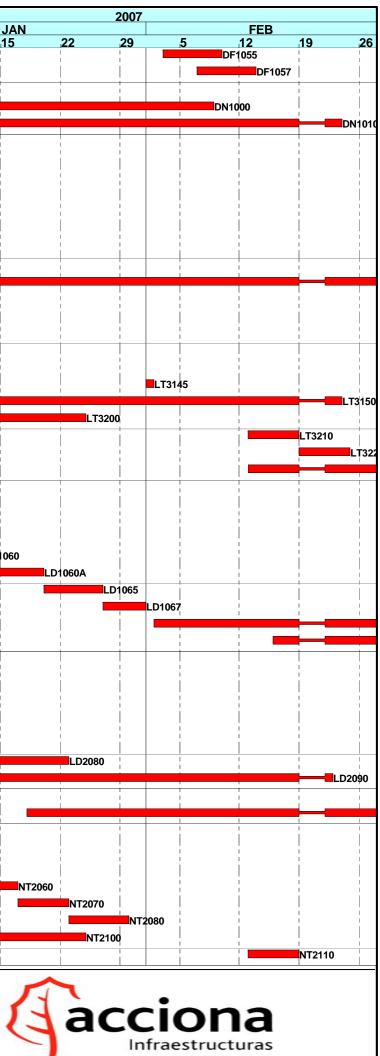
Highways Department Contract No. HY/2003/01 Route 8 - Lai Chi Kok Viaduct 3 Month Rolling Programme from 20 November 2006 Sheet 8 of 14



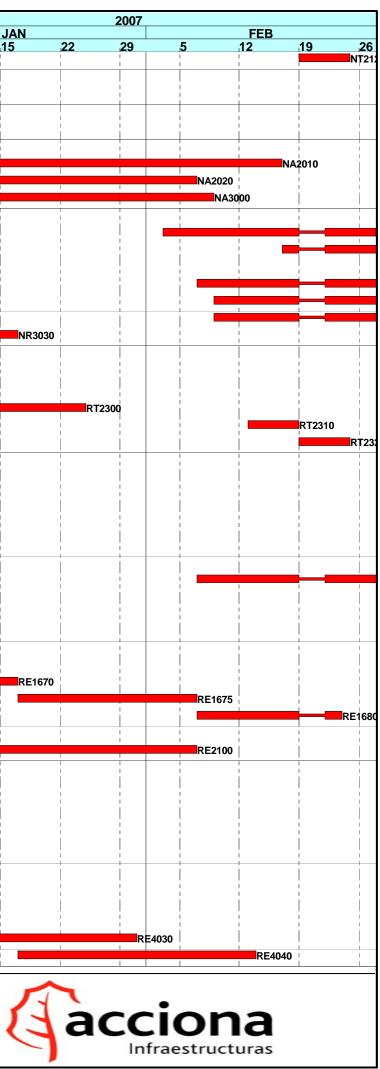
Activity	Activity	Orig.	Early	Early	% Compl	Rem		NOV		2006DEC				JA
ID	Description	Durn.	Start	Finish	Compl.	.Durn.	13	20 27		4 11	18 25	1	8	15
	Main Line - Tunnel Approaches													1
E F	iers & Encl' (Sec.10 Excision)		001/01/00	0055005										1
MN6100	Semi Enclosure S/B Ch.2005 - 2200 - Frame	60	23NOV06	02FEB07	0	60	_							
MN6110	Semi Enclosure S/B Ch.2005 - 2200 - Panels	68	20JAN07	13APR07	0	68								
	Noise Barriers & Enclosures	75	00 14 107	4040007		- 75	-							
MN8080	At Grade - 7m Reflective Barrier S/B Ch1789-1989	75	09JAN07	10APR07	0	75	-							
MN8100	At Grade - 5.5m Reflective Barrier Ch1799-1997	75	09JAN07	10APR07	0	75				 	 1			
	Works - Butterfly Valley													
	s & Slope Works - 11NW-A/FR54 & F55		1	1			-				1 I 1 I 1 I			
QE2000	Slope 11NW-A/FR54 & FR55 - Remove Temp. Platform	18	20NOV06	09DEC06	0	18				QE2000				
QE2002	Slope 11NW-A/FR54 & FR55 - Retaining Wall -Bases	36	11DEC06	23JAN07	0	36	-						· · · ·	1
QE2004	Slope 11NW-A/FR54 & FR55 - Retaining Wall -Walls	48	10JAN07	09MAR07	0	48	-							
QE2010	Slope 11NW-A/FR54 & FR55 - Install Temp Works	48	18DEC06	13FEB07	0	48	-							
QE2020	Slope 11NW-A/FR54 & FR55 - Excavate & Rockfill	36	14FEB07	30MAR07	0	36				 	 + + +			
Landscape						1								
QX1020	Landscaping - Soiling & Planting on Slope CCR-S6	75	20NOV06*	16FEB07	0	75	-							
QX1100	Landscape Establishment Works	301	17FEB07	20FEB08	0	301								
Viaduct -	Slip Road C									I I I I	I I I I		l l	I I
Superstruc	cture Finishing Works Required for TCSS													ļ
CF1010	Slip Rd. C - Parapet Panels C2 to C4	6	12SEP06A	20NOV06	99	1		CF1010						l.
CF1010A	Slip Rd. C - Parapet Insitu Concrete C2 to C4	12	04OCT06A	27NOV06	98	1		CF10	010A		 1 I			
CF1015	Slip Rd. C - Parapet Panels C4 to C6	9	05OCT06A	20NOV06	98	1		CF1015					I I	
CF1015A	Slip Rd. C - Parapet Insitu Concrete C4 to C6	12	110CT06A	27NOV06	98	1		CF10	015A					
CF1000	Slip Rd. C - Parapet Panels - Abut. C to C2	6	10SEP06A	21NOV06	90	2		CF1000						
CF1000A	Slip Rd. C - Parapet Insitu Conc - Abut. C to C2	6	03OCT06A	28NOV06	85	3			1000A	i i			i I	i i
CF1020	Slip Rd. C - Provision for E & M and TCSS	12	21NOV06	04DEC06	0	12				CF1020				
Remaining	Superstructure Finishing Works													ļ
CF1040	Slip Rd. C - Deck Drainage	50	20NOV06	18JAN07	0	50	_							
CF1050	Slip Rd. C - Top Rail to Parapets	18	29NOV06	19DEC06	0	18					CF1050		i I	i
CF1053	Slip Rd. C - Movement Joint at Abut. C	6	29NOV06	05DEC06	0	6	_			CF1053	 			
CF1055	Slip Rd. C - Movement Joint at C2	6	23JAN07	29JAN07	0	6	=							
CF1057	Slip Rd. C - Movement Joint at C6	6	27JAN07	02FEB07	0	6								
CF1058	Slip Rd. C - Waterproofing of Deck	6	03FEB07	09FEB07	0	6		i i		İ İ	i i		Ì	Ì
CF1060	Slip Rd. C - Flexible Pavement	4	10FEB07	14FEB07	0	4	-							1
CF1070	Slip Rd. C - Viaduct Road Lighting	24	15FEB07	17MAR07	0	24	-							
CF1080	Slip Rd. C - Road Marking & Traffic Signage	18	15FEB07	10MAR07	0	18							<u> </u>	i
	Noise Barriers & Enclosures		0.5.14.110.7									_		
CN1000	Slip Rd. C - 3m Absorptive Barriers Ch.665 - 730	52	05JAN07	09MAR07	0	52								
	Slip Road D										· · · · · · · · · · · · · · · · · · ·			
	cture Finishing Works Required for TCSS			1		1								
DF1005	Slip Rd. D -Parapet Panels D4 to Abut D	42	26JUL06A	21NOV06	95	2		DF1005						1
DF1005A	Slip Rd. D -Parapet Insitu Concrete D4 to Abut D	42	15AUG06A	24NOV06	90	4		DF1005A						
DF1007	Slip Rd. D -Parapet Panels D4 to D8	18	06SEP06A	21NOV06	88	2		DF1007			 I I I I		i I	i
DF1007A	Slip Rd. D -Parapet Insitu Concrete D4 to D8	16	09SEP06A	28NOV06	80	3		1	1007A		 		l	I I
DF1000	Slip Rd. D - Parapet Panels D10 to D8	24	09OCT06A	27NOV06	70	7		DF10	000					
DF1000A	Slip Rd. D - Parapet Insitu Concrete D10 to D8	24	16OCT06A	04DEC06	65	8	-			DF1000A				
DF1009	Slip Rd. D - Sign Gantry ADS4 at D6	12	08DEC06	21DEC06	0	12	-	l i _		DE4040	DF1009		Ì	Ì
DF1010	Slip Rd. D - Provision for E & M and TCSS	12	29NOV06	12DEC06	0	12				DF1010				
	Superstructure Finishing Works		1	1										
DF1040	Slip Rd. D - Deck Drainage	24	01SEP06A	02DEC06	50	12	-	1		F1040				
DF1050	Slip Rd. D - Top Rail to Parapets	18	20DEC06	11JAN07	0	18	-							DF1050
DF1053	Slip Rd. D - Movement Joint at Abut D.	6	31JAN07	06FEB07	0	6							 	
Start Date			23SEP03	P3 File : LU	38						SI	neet 9 of 14		
Finish Date Data Date			13SEP08 20NOV06				Highwav	s Department C	Cont	ract No. HY/2003/01				
Jam Duio			20110 000					Route 8 - Lai C	hi K	ok Viaduct				1
								3 Month Rollin						
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Activity	Activity	Orig.	Early	Early	%	Rem		NOV	2006	DEC			JA
ID	Description	Durn.	Start	Finish	Compl.	.Durn.	13	20	27 4	11 18	25	1 8	15
DF1055	Slip Rd. D - Movement Joint at D6	6	03FEB07	09FEB07	0	6	_						
DF1057	Slip Rd. D - Movement Joint at D9	6	07FEB07	13FEB07	0	6				 			
	Noise Barriers & Enclosures						-						
DN1000	Slip Rd. D - 3.5m Reflective Barrier Ch.805-881	36	28DEC06	08FEB07	0	36	-						1
DN1010	Slip Rd. D - 3m Reflective Barriers Ch.680 - 805	36	10JAN07	23FEB07	0	36							
	Road Overpass												
	Traffic Management Schemes		1	1		1				<u> </u>			
LT2140	TTMS LW Rd (for W/B Deck) - Implementation	145*	03JUL06A	22DEC06	0	29*	_				2140		
LT2240	TTMS LW Rd (for E/B Deck) - Implementation	325*	24NOV05A	22DEC06	0	29*	-		1 72000		2240		
LT3000	TTMS CC Rd (on W/B Deck) - Prepare for Review	12	20NOV06	02DEC06	0	12	-		LT3000	LT3010			Ì
LT3010	TTMS CC Rd (on W/B Deck) - CRE Endorsement	6	12DEC06	17DEC06	0	6	-				_T3020		i I
LT3020	TTMS CC Rd (on W/B Deck) - Roadworks Advice	6	18DEC06	23DEC06	0	6 6						LT3030	
LT3030 LT3050	TTMS CC Rd (on W/B Deck) - Site Preparation TTMS CC Rd (on W/B Deck) - Implementation	6 72*	26DEC06 06JAN07	02JAN07 04APR07	0	0 72*	_						
LT3100	TTMS CC Rd (on E/B Deck) - Implementation	12	20NOV06	04APR07 02DEC06	0	12	-		LT3100		1		
LT3110	TTMS CC Rd (on E/B Deck) - CRE Endorsement	6	12DEC06	17DEC06	0	6	-			LT3110			
LT3120	TTMS CC Rd (on E/B Deck) - Roadworks Advice	6	12DEC00 18DEC06	23DEC06	0	6	-				_T3120		
LT3130	TTMS CC Rd (on E/B Deck) - Site Preparation	6	26DEC06	02JAN07	0	6						LT3130	
LT3140	Divert 1No. Lane to New East Bound Bridge	1	22DEC06	22DEC06	0	1	-				3140	I	1
LT3145	Divert 1No. Lane to New West Bound Bridge	1	01FEB07	01FEB07	0	1	-						
LT3150	TTMS CC Rd (on E/B Deck) - Implementation	50*	22DEC06	23FEB07	0	50*							
LT3200	TTMS CC Rd (on Both Decks) - Prepare for Review	12	11JAN07	24JAN07	0	12	-				l		
LT3210	TTMS CC Rd (on Both Decks) - CRE Endorsement	6	13FEB07	18FEB07	0	6							
LT3220	TTMS CC Rd (on Both Decks) - Roadworks Advice	6	19FEB07	24FEB07	0	6							
LT3300	TTMS CC Rd (on Both Decks) - Prepare for Review	12	13FEB07	01MAR07	0	12			i i	i i	Ì		Í
West Bound	d - Insitu Deck												
LD1056	Lai Wan O/pass W/B - Span St.3 - 1st. Pour	20	15SEP06A	24NOV06	70	5			01056				
LD1058	Lai Wan O/pass W/B - Span St.3 - 2nd. Pour	12	25NOV06	08DEC06	0	12				D1058			i
LD1059	Lai Wan O/pass W/B - Span St.3 - Stressing	6	09DEC06	15DEC06	0	6				LD1059			
LD1060	Lai Wan Overpass W/B - Parapet Panels	9	03JAN07	12JAN07	0	9							LD1060
LD1060A	Lai Wan Overpass W/B - Parapet Insitu Concrete	12	06JAN07	19JAN07	0	12							
LD1065	Lai Wan Overpass W/B - Movement Joints at DA1&2	6	20JAN07	26JAN07	0	6	_						
LD1067	Lai Wan Overpass W/B - Flexible Pavement	4	27JAN07	31JAN07	0	4					l Í		
LD1080	Lai Wan Overpass WB - Demolish Existing Flanges	24	02FEB07	05MAR07	0	24	-				1		
LD1090	Lai Wan Overpass W/B - Construct New Flanges	36	16FEB07	03APR07	0	36							
	d - Insitu Deck												
LD2059	Lai Wan O/Pass E/B - Span St.3 - Stressing	6	20NOV06	25NOV06	0	6	-		LD2059				
LD2060	Lai Wan O/Pass E/B - Parapet Panels	6	27NOV06	02DEC06	0	6	-		LD2060	LD2060A	1	I	1
LD2060A	Lai Wan O/Pass E/B - Parapet Insitu Concrete Lai Wan O/Pass E/B - Movement Joints at CA1&2	12	30NOV06 11DEC06	13DEC06	0	12 6	-			LD2060A			
LD2065 LD2067	Lai Wan O/Pass E/B - Novement Joints at CA1&2	6	18DEC06	16DEC06 21DEC06	0	6 4	-				067		
LD2080	Lai Wan O/Pass E/B - Demolish Existing Flanges	24	23DEC06	21DEC00 22JAN07	0	24			 				
LD2080	Lai Wan O/Pass E/B - Construct New Flanges	36	09JAN07	225AN07 22FEB07	0	36	-						
1	d - Superstructure Finishing Works	00	03041107	221 2007	0	50							
LF1040	Lai Wan O/Pass E/B - 6 Months Wait for Stitches	176	18JAN07	18AUG07	0	176	1		i l	i i			Ì
			100/1107	10/10/00/		170					1		<u> </u>
	Works - Ching Cheung Road at LCK Pa	II K											
· · · · · ·	Traffic Management Schemes	10	1005000	2605000		10	-				NT2050		i I
NT2050	2nd. TTMS CC Rd (E/B C/Way) - Prepare for Review	12	12DEC06	26DEC06	0	12	4						
NT2060 NT2070	2nd. TTMS CC Rd (E/B C/Way) - CRE Endorsement 2nd. TTMS CC Rd (E/B C/Way) - Roadworks Advice	6 6	11JAN07 17JAN07	16JAN07 22JAN07	0	6 6	-						
NT2070	2nd. TTMS CC Rd (E/B C/Way) - Roadworks Advice 2nd. TTMS CC Rd (E/B C/Way) - Site Preparation	6	17JAN07 23JAN07	22JAN07 29JAN07	0	6	-				 		
NT2080	3rd. TTMS CC Rd (E/B C/Way) - Site Preparation 3rd. TTMS CC Rd (E/B C/Way) - Prepare for Review	12	23JAN07 11JAN07	29JAN07 24JAN07	0	12	-						
NT2110	3rd. TTMS CC Rd (E/B C/Way) - CRE Endorsement	6	13FEB07	18FEB07	0	6					 		
Start Date		5		P3 File : LU3	-	l v	1				Chart 4	0 of 14	
Finish Date			13SEP08	FS FIIE : LU	30		Highword	e Donart	ment Contract No.	HV/2003/04	Sheet 1	0 01 14	
Data Date			20NOV06						Lai Chi Kok Viadu				
									Rolling Programn				1
									20 November 2006				
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Activity	Activity	Orig.	Early	Early	%	Rem					2006	BE					
ID	Description	Durn.	Start		Compl		13	NOV20	27		4	DEC	; _18	25	1	8	JA 15
NT2120	3rd. TTMS CC Rd (E/B C/Way) - Roadworks Advice	6	19FEB07	24FEB07	0	6			1		1	1	1		-		1
Retaining V	Wall CCR-R1 West Bound																Τ
NW1240	W/B Ret. Wall CCR-R1A West - Parapet on Wall	18	06NOV06A	27NOV06	60	7			NW1	240	1						1
Retaining V	Wall CCR-R1 East Bound										1		l I				1
NW2240	W/B Ret. Wall CCR-R1E - Parapets on Wall	24	20NOV06	02DEC06	0	12		_			W2240	1	1			1	l I
Drainage W	Vorks								1		T T	1	1			1	1
NA2010	C.C. Rd. W/B in New C/way - S/water Drainage E3	75	20NOV06	16FEB07	0	75											
NA2020	C.C. Rd. W/B in New C/way - S/water Drainage J2	66	20NOV06	06FEB07	0	66			1		1	- 	- - 				÷
NA3000	C.C. Rd. E/B in New C/way - Stormwater Drainage	75	170CT06A	08FEB07	10	68			1		1		1				-
Utilities & F	Roadworks								1		1		1				1
NR1000	C.C. Rd. W/B in Portion E3 - Formation	18	03FEB07	27FEB07	0	18											
NR1010	C.C. Rd. W/B in Portion E3 - Sub-base	12	17FEB07	06MAR07	0	12			- - -		- - 	1					i I
NR1090	C.C. Rd. W/B - Foundations & Sign Gantry ADS3	24	08DEC06	06JAN07	0	24										NR1090	
NR1100	C.C. Rd. W/B Portion J2 - Formation	18	07FEB07	02MAR07	0	18			1		1		1				I.
NR2000	C.C. Rd. E/B - Foundations for Sign Gantry FADS3	18	09FEB07	05MAR07	0	18			1								1
NR3000	C.C. Rd. E/B - Formation	24	09FEB07	12MAR07	0	24											
NR3030	C.C. Rd. E/B - E & M and TCSS Provision	36	04DEC06	16JAN07	0	36			i I								÷
At Grade	Work - Ching Cheung Road - Main Sect	ion		,		1											
	Traffic Management Schemes								1		1	1	1			1	1
RT2240	3rd. TTMS CC Rd (Slewing) - Implementation	587*	28DEC04A	09DEC06	0	18*					F	RT2240					
RT2300	4th. TTMS CC Rd E/B C/Way - Prepare for Review	12	11JAN07	24JAN07	0	12			-								
RT2310	4th. TTMS CC Rd E/B C/Way - CRE Endorsement	6	13FEB07	18FEB07	0	6							1				
RT2320	4th. TTMS CC Rd E/B C/Way - Roadworks Advice	6	19FEB07	24FEB07	0	6	-		1		1	1	I I				1
	-	0	191 2007	241 LD07	0	0			1		1	1	1				<u> </u>
RE1700	s & Slope Works - CCR-S1, S2 & S3	6	2010/00*		0	6		R	E1700								Ì
	Slope CCR-S1E - Finish Seed & Planting +62.3mPD	6	20NOV06*	25NOV06	0	6						RE1710					1
RE1710	Slope CCR-S1E - Finish Seed & Planting +54.8mPD	12	27NOV06	09DEC06	0	12							İ.	RE1720			j
RE1720	Slope CCR-S1E - Finish Seed & Planting +47.3mPD	12	11DEC06	23DEC06	0	12	-		1		E1710A		1			1	1
RE1710A	Slope CCR-S1C- Finish Seed & Planting +54.9mPD	12	20NOV06	02DEC06	0	12	-						RE1720A				
RE1720A	Slope CCR-S1C - Finish Seed & Planting +47.3mPD	12	04DEC06	16DEC06	0	12			1			1	RE1720A	-		-	
RE1860	Slope CCR-S1E&C- Finish Seed & Planting to +25.4	24	20NOV06	16DEC06	0	24	-						1000				
RE2130	Slope CCR-S2 - Finish Seeding & Planting	18	07FEB07	02MAR07	0	18	-		1		1	e	E1720B				1
RE1720B	Slope CCR-S1W - Seed & Planting to +39.95mPD	24	20NOV06	16DEC06	0	24			DE45	-	1						
RE1560	Slope CCR-S1W - Rock Stabilisation to 19.0mPD	48	10MAY06A	27NOV06	85	7			RE15	000	1	-					I I
RE1660	Slope CCR-S1W - Drainage to Level +19.0mPD	24	20NOV06	16DEC06	0	24					+		RE1660			RE1660	4
RE16604	Slope CCR-S1W - Drainage to Level +16.8mPD	18	18DEC06	09JAN07	0	18	-		 		1		RE1665			RE10004	+
RE1665	Slope CCR-S1W - Seed & Planting to +32.4mPD	24	20NOV06	16DEC06	0	24	-		1		1		CE 1003				<u> </u>
RE1670	Slope CCR-S1W - Seed & Planting to +24.9mPD	24	18DEC06	16JAN07	0	24	-										T
RE1675	Slope CCR-S1W - Seed & Planting to +19.0mPD	18	17JAN07	06FEB07	0	18	-		1		1						
RE1680	Slope CCR-S1W - Seed & Planting to +16.8mPD	12	07FEB07	23FEB07	0	12		-					5000				
RE2000	Slope CCR-S2 -Excavate Rock to Formation	24	20NOV06	16DEC06	0	24	-		1		1		RE2000				<u> </u>
RE2100	Slope CCR-S2 - Drainage	42	18DEC06	06FEB07	0	42			1			1	1				
	ks Above Retaining Wall CCR-R2				1							1	1			1	1
RE4000	Ch 00.00 to 78.27 - Excavate in Benches	36	04SEP06A	29NOV06	75	9	-		R	E400	0		 				1
RE4010	Ch 00.00 to 78.27 - Filter Layer	36	09SEP06A	13DEC06	75	9			1			RE401					
RE4020	Ch 02.13 to 41.71 - General Filling & Compaction	24	100CT06A	20DEC06	75	6			1		1	1	RE40	120		 	-
RE4022	Ch 50.71 to 78.27 - General Filling & Compaction	36	20NOV06	02JAN07	0	36	-								RE4022		
RE4023	Remove Access Road	6	03JAN07	09JAN07	0	6		ļ			1	1	1	 		RE4023	
RE4024	Ch 41.71 to 50.71 - General Filling & Compaction	6	20NOV06	25NOV06	0	6	-		RE4024								
RE4025	Ch 00.00 to 2.13 - General Filling & Compaction	6	20NOV06	25NOV06	0	6	-	R	RE4025		 					1	-
RE4027	Excavate & Demolish Existing Retaining Wall	12	27NOV06	09DEC06	0	12	-				F	RE4027					
RE4028	Fill & Compact to Form Toe of Berm	6	11DEC06	16DEC06	0	6	-		I I		1		RE4028	l I			1
RE4030	Slope Drainage above R/W CCR-R2	24	03JAN07	30JAN07	0	24		<u> </u>					1				-
RE4040	Slope Finishes above R/W CCR-R2	24	17JAN07	13FEB07	0	24			1		1		1				
Start Date			23SEP03	P3 File : LU3	8									Sheet	11 of 14		
Finish Date Data Date			13SEP08 20NOV06					s Departn					1				
								Route 8 -	Lai C	hi K	ok Viadu	ct					1
											rogramm	е					~
								from 2	0 Nov	emb	per 2006						
	© Primavera Systems, Inc.																



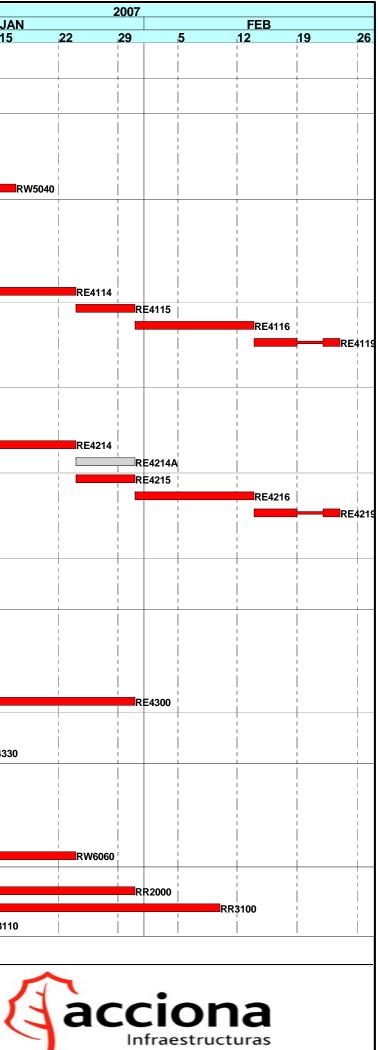
Activity	Activity	Orig.	Early	Early	%	Rem		NOV		2006	P	EC				JA
ID	Description	Durn.	Start	Finish	Compl	.Durn.	13	20	27	4	<u>1</u> 1	18	25	1	8	15
Retaining \	Wall CCR-R3 Type A								i l	i i	i i	i I	i I		i	İ
RW3040	Ret. Wall CCR-R3A - Backfill & Form Platform	18	20NOV06	09DEC06	0	18					RW3040					
Retaining \	Wall CCR-R3 Type B								1	1						
RW4040	Ret. Wall CCR-R3B - Backfill & Form Platform	18	20NOV06	09DEC06	0	18				1	RW4040					
Retaining \	Wall CCR-R3 Type C		1			1				1						
RW5010	Ret. Wall CCR-R3C - Temporay Works & Excavation	24	25JAN06A	21NOV06	95	2		RW	010	l I	l					
RW5020	Ret. Wall CCR-R3C - Bases	18	20NOV06	09DEC06	0	18	-				RW5020				ļ	
RW5030	Ret. Wall CCR-R3C - Walls	24	04DEC06	02JAN07	0	24								RW5	030	1
RW5040	Ret. Wall CCR-R3C - Backfill & Remove Temp Works	12	03JAN07	16JAN07	0	12	1			İ						i,
Slope Worl	ks Above Retaining Walls CCR-R3D, E & F			1	1	1				1	1	l			l	
RE4107	Slope above CCR-R3D-Excavate Slope	12	25SEP06A	25NOV06	50	6			RE4107							
RE4110	Slope above CCR-R3D- Filter - Bottom to 1st Berm	6	11DEC06	16DEC06	0	6	-			I I		RE4110				
RE4111	Slope above CCR-R3D- Filling - Bt'm to 1st Berm	12	18DEC06	02JAN07	0	12	-							RE41	11	
RE4113	Slope above CCR-R3D- Filter - 1st Berm to F/Path	6	03JAN07	09JAN07	0	6	1			1	1	I I			RE411	3
RE4114	Slope above CCR-R3D - Filling-1st Berm to F/Path	12	10JAN07	23JAN07	0	12				1						
RE4115	Slope above CCR-R3D- Filter - F/Path to 3rd Berm	6	24JAN07	30JAN07	0	6										
RE4116	Slope above CCR-R3D - Filling-F/Path to3rd Berm	12	31JAN07	13FEB07	0	12	-			1	1					1
RE4119	Slope above CCR-R3D- Filter - 3rd Berm to Top	6	14FEB07	23FEB07	0	6	-			İ		ĺ				- İ
RE4205	Slope above CCR-R3E&F -Remove Piling Platform	6	20NOV06	25NOV06	0	6	-		RE4205	l l	1	I I	l l		l	1
RE4207	Slope above CCR-R3E&F -Excavate Slope	12	27NOV06	09DEC06	0	12	1				RE4207					
RE4210	Slope above CCR-R3E&F- Filter - Btm. to 1st Berm	6	11DEC06	16DEC06	0	6				I		RE4210				
RE4211	Slope above CCR-R3E&F - Filling-Bt'm to 1st Berm	12	18DEC06	02JAN07	0	12								RE42	211	
RE4213	Slope above CCR-R3E&F -Filter-1st Berm to +24mPD	6	03JAN07	09JAN07	0	6				I I		i I			RE421	3
RE4214	Slope above CCR-R3E&F-Filling-1st Berm to +24mPD	12	10JAN07	23JAN07	0	12	-			l	l					
RE4214A	Slope above CCR-R3E&F- Form Crane Platform	6	24JAN07	30JAN07	0	6										
RE4215	Slope above CCR-R3E&F-Filter- +24mPD to 3rd Berm	6	24JAN07	30JAN07	0	6			1	I	1				 	
RE4216	Slope above CCR-R3E&F -Filling-+24mPD to3rd Berm	12	31JAN07	13FEB07	0	12	-			j						- İ
RE4219	Slope above CCR-R3E&F- Filter - 3rd Berm to Top	6	14FEB07	23FEB07	0	6	-		1	l l	1	1	1		l I	1
RE4410	Slope Above CC Rest Garden - Excavate Slope	12	14JUL06A	21NOV06	80	2	_	RE4	410							
RE4420	Slope Above CC Rest Garden - Benching	12	30SEP06A	25NOV06	50	6			RE4420	1						
RE4430	Slope Above CC Rest Garden - Rock Filling	12	27NOV06	09DEC06	0	12					RE4430					
RE4440	Slope Above CC Rest Garden - Slope Drainage	18	11DEC06	02JAN07	0	18				1				RE44	40	I I
RE4450	Slope Above CC Rest Garden - Slope Finishes	12	26DEC06	09JAN07	0	12				1					RE445	0
Earthwork	s & Slope Works - CCR-S4															
RE4268	Slope CCR-S4 - Excavate & Bench Upper Slope	48	03JAN06A	24NOV06	88	5			RE4268	1						1
RE4280	Slope CCR-S4 - Fill and Compact	24	23FEB06A	02DEC06	50	12				RE4280	Ì					Ì
RE4285	Slope CCR-S4 - Form New Access Road at Footpath	12	04DEC06	16DEC06	0	12	-		l I			RE4285	l l		l l	I I
RE4290	Slope CCR-S4 - Upper Slope Drainage	18	18DEC06	09JAN07	0	18	1								RE429	0
RE4300	Slope CCR-S4 - Upper Slope Finishes	18	10JAN07	30JAN07	0	18	-			1						<u> </u>
RE4310	Slope CCR-S4 - Excavate Lower Slope	24	01MAR06A	22NOV06	90	3		RE	4310	1	1					
RE4320	Slope CCR-S4 - Lower Slope Drainage	18	23NOV06	13DEC06	0	18	-				RE	4320				
RE4330	Slope CCR-S4 - Lower Slope Finishes	24	14DEC06	12JAN07	0	24	-								R	RE4330
	ung Road NTMM Retaining Wall A	1	1		1	1				1						
RW6020	NNTM Wall A - Drainage & Fill Behind Walls	12	21JUN06A	25NOV06	50	6			RW6020	1	1					
RW6030	NNTM Wall A - Excavate to +20.5mPD	12	21JUN06A	25NOV06	50	6			RW6030	İ	Ì					- İ
RW6040	NNTM Wall A - Debris Collection Area Drainage	12	27NOV06	09DEC06	0	12	-			1	RW6040	l L	l l		l l	1
RW6050	NNTM Wall A - Debris Collection Area Access Ramp	12	11DEC06	23DEC06	0	12	-						RW6050			
RW6060	NNTM Wall A - Debris Collection Area Finishes	24	26DEC06	23JAN07	0	24	-									
Drainage V						1										
RR2000	Ching Cheung Rd. W/B - Stormwater in New C/way	36	18DEC06	30JAN07	0	36	-				i I					
RR3100	Ching Cheung Rd. E/B -S/Water S300-01 to S300-07	60	18DEC06	09FEB07	0	45	-									
			170CT06A	12JAN07			1		1	1	I.	I	I.		1	R\$110

Start Date	
Finish Date	

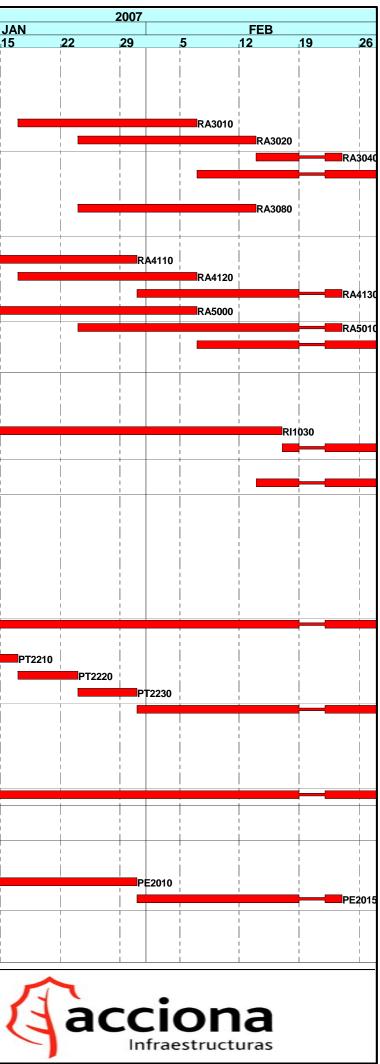
Data Date

23SEP03 13SEP08 20NOV06

Highways Department Contract No. HY/2003/01 Route 8 - Lai Chi Kok Viaduct 3 Month Rolling Programme from 20 November 2006 Sheet 12 of 14



Activity	Activity	Orig.	Early	Early	%	Rem					2006					
ID	Description	Durn.	Start	-	Compl		12	<u>NOV</u> 20	27		<u> </u>	0EC 18	25	1 8	•	<u>JA</u> 15
Utilities & R					•		13					10	ZJ			15
RA2000	Lai Wan Road - Footpath below Slope CCR-S4	24	20NOV06	16DEC06	0	24						RA2000				i i
RA3003	Ching Cheung Rd. W/B New C/Way - Filling	36	20NOV06	02JAN07	0	36	-							RA3003		1
RA3005	Ching Cheung Rd. W/B - S/Gantry FADS4 Founds	18	25AUG06A	02JAN07	45	10	_	<mark>_</mark>						RA3005		
RA3010	Ching Cheung Rd. W/B New C/Way - Formation	18	17JAN07	06FEB07	0	18	-		1				1			i f
RA3020	Ching Cheung Rd. W/B New C/Way - Sub-base	18	24JAN07	13FEB07	0	18	-				 I I					
RA3040	Ching Cheung Rd. W/B New C/Way - Pavement	6	14FEB07	23FEB07	0	6		<mark> </mark>			 					
RA3050	Ching Cheung Rd. W/B E & M and TCCS Provision	18	07FEB07	02MAR07	0	18	-									
RA3070	Ching Cheung Rd. New E/B -Sign Gantry DS3 Founds	18	190CT06A	04DEC06	30	13	_				RA3070					
RA3080	Ching Cheung Rd. New E/B - Sign Gantry DS3	18	24JAN07	13FEB07	0	18	-		i I I			i				i
RA4000	Ching Cheung Rd. New E/B Slip Road - E&M +TCSS	36	21NOV06	03JAN07	0	36								RA4000		
RA4040	Ching Cheung Rd. New E/B - Fill Behind N/B Base	48	08AUG06A	30NOV06	80	10				RA40	940	1				
RA4110	Ching Cheung Rd. New E/B Slip Road - Formation	36	18DEC06	30JAN07	0	36	-									
RA4120	Ching Cheung Rd. New E/B Slip Road - Sub-base	18	17JAN07	06FEB07	0	18	-		1			i				i I
RA4130	Ching Cheung Rd. New E/B Slip Road - Kerbs	18	31JAN07	23FEB07	0	18						l				
RA5000	Ching Cheung Rd. W/B Exist C/Way - Formation	36	26DEC06	06FEB07	0	36			1							
RA5010	Ching Cheung Rd. W/B Exist C/Way - Sub-base	24	24JAN07	23FEB07	0	24			1			1	1			1
RA5020	Ching Cheung Rd. W/B Exist C/Way - Kerbs	36	07FEB07	23MAR07	0	36			i i			i i	i i			
RA7000	Lai Wan Road - Watermains & Hydrants FH4 & FH5	24	20NOV06	16DEC06	0	24			l			RA7000	1			i I
Lai Wan Ov	verpass Irrigation Pump House															
RI1010	Lai Wan O/pass Irig Pump House - Structure	36	18SEP06A	29NOV06	30	9			F	R 1010						
RI1020	Lai Wan O/pass Irig Pump House - Waterproofing	12	30NOV06	13DEC06	0	12	-				RI1	020				
RI1030	Lai Wan O/pass Irig Pump House - Building Works	75	20NOV06	16FEB07	0	75										Ż
RI1040	Lai Wan O/pass Irig Pump House -Mechanical Works	36	17FEB07	04APR07	0	36							l			
Landscape	Works	1							1							
RX1000	Landscaping - Formation	72	14FEB07	14MAY07	0	72	-		I I							
At Grade V	Works - Butterfly Valley Interchange	1	1	1	1	1										
	Traffic Management Schemes								1		i i I I I I	i I	l I			i I
PT2250	TTMS CP Rd-KC N/B for CCR-R4 -Prepare (NOT USED)	16	20NOV06	07DEC06	0	16	_				PT2250					
PT2250 PT2260	TTMS CP Rd-KC N/B for CCR-R4 - CRE End(NOT USED)		20NOV06	25NOV06	0	6	-		PT2260							
PT2200 PT2270	TTMS CP Rd-KC N/B for CCR-R4 - R/A (NOT USED)	7	26NOV06	02DEC06	0	7	-			P	T2270					
PT2280	TTMS CP Rd-KC S/B - Re-open Slip Road (NOT USED)	0	20110 000	02DEC00	0	0	-				PT2280	i I	i I			i I
PT2288	TTMS CP Rd-KC N/B-Close Loop to CC Rd(NOT USED)	0		02DEC00	0	0	-		l		PT2288	l	1			
PT2290	TTMS CP Rd-KC N/B for CCR-R4 - Implem(NOT USED)	549*	20NOV06	13SEP08	0	549*			1	•		1				
PT2200	TTMS CP Rd-KC S/B for Paving -Prepare for Review	18	12DEC06	03JAN07	0	18	-							PT2200		
PT2210	TTMS CP Rd-KC S/B for Paving - CRE Endorsement	6	11JAN07	16JAN07	0	6	-				i i ———					
PT2220	TTMS CP Rd-KC S/B for Paving - Roadworks Advice	7	17JAN07	23JAN07	0	7	-		l I		I I I I	l I	1	l l		
PT2230	TTMS CP Rd-KC S/B for Paving - Site Preparation	6	24JAN07	30JAN07	0	6	-									
PT2240	TTMS CP Rd-KC S/B for Paving - Implementation	75*	31JAN07	03MAY07	0	75*		_	1			 	1			
PT2300	TTMS CP Rd-KC N/B for 11NW-A/C66-Prep for Review	16	20NOV06	07DEC06	0	16	-				PT2300					
PT2310	TTMS CP Rd-KC N/B for 11NW-A/C66 - CRE Endorse	6	12DEC06	17DEC06	0	6	-		1			PT2310	1			
PT2320	TTMS CP Rd-KC N/B for 11NW-AC66 - Roadwks Advice	7	18DEC06	24DEC06	0	7	-		l				PT2320			
PT2330	TTMS CP Rd-KC N/B for 11NW-A/C66 - Site Prepare	6	26DEC06	02JAN07	0	6	-							PT2330		1
PT2340	TTMS CP Rd-KC N/B for 11NW-A/C66 - Implement	144*	03JAN07	26JUN07	0	144*		_								i.
	s & Slopeworks - 11NW-A/C26		000/1110/	20001101	0	1 1 1 1							1			+-
PE1040	Slope 11NW-A/C26 - Finishing Works	12	120CT04A	20NOV06	90	1	_	PE1040			l l l l	1	1			1
1		12	1200104A	20100000	90	'			<u> </u>							+
1	s & Slopeworks - 11NW-A/C66	6	02 14 107		0	6			l I						PE200	0
PE2000	Slope 11NW-A/C66 - Hoardings / Fencing	6	03JAN07	09JAN07	0	6	-									,
PE2010	Slope 11NW-A/C66 - Trim Slope	18	10JAN07	30JAN07	0	18	-		i I			i I				
PE2015	Slope 11NW-A/C66 - Platform for Soil Nailing	18	31JAN07	23FEB07	0	18										
	Vall CCR-R5 (Pre-bored "H" Piles)	00		0405000	05	40			1		PW2220	l				
PW2220	Ret. Wall CCR-R5 - Coping & Facing to Ret Wall	90	05SEP05A	04DEC06	85	13			DW0005							
PW2225	Ret. Wall CCR-R5 - Complete Coping & Facing	12	27APR06A	24NOV06	60	5			PW2225							
art Date			23SEP03	P3 File : LU3	38								Shee	et 13 of 14		
inish Date ata Date			13SEP08 20NOV06				Highwa				ract No. HY/2003	6/01				
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Activity	Activity	Orig.	Early	Early	%	Rem				2006								2007	,				
ID	Description	Durn.	Start	-	Compl.	.Durn.	13	NOV 20	27	4	11	DEC 18	25	.1	8	JAN 15	22	29	1	5	FEB 12	19	20
PW2140	Ret. Wall CCR-R5 - Complete Fill Behind Wall	12	25NOV06	08DEC06	0	12				PV	V2140												
PW2230	Ret. Wall CCR-R5 - Slope Works Behind Wall	36	09DEC06	22JAN07	0	36	-				-						PW2230						
Retaining	Wall CCR-R6 (Value Engineering Design)	,							1		1	1	1		1	1	1			1	1	1	
PW3250	Ret. Wall CCR-R6 - Bases to R.C. Walls	48	22AUG06A	24NOV06	90	5			PW3250														
PW3260	Ret. Wall CCR-R6 - R.C. Walls	48	280CT06A	06JAN07	20	40			·		Ì				W3260	i I	i I	i		i			i i
PW3070	Ret. Wall CCR-R6 - Fill Behind Ret Wall	36	15DEC06	27JAN07	0	36			l l		i I							PW307	70		l		
Drainage V	Vorks	,																		1			
PA1200	C.P.Rd Loop to Slip Road C - Stormwater Drainage	18	03OCT06A	04DEC06	30	13			1	PA1200										1			
PA2000	C.P.Rd-K.C. S/B - Stormwater Drainage	24	31JAN07	02MAR07	0	24			Ì		Ì		1 I		ĺ	ĺ		j 🗖	÷				
PA3000	C.P.RdK.C S/B to C.C. Rd E/B - Storm Drainage	36	16DEC06	29JAN07	0	36			l l	1	1				1			PA	43000	1	I I	l I	1
Utilities &	Roadworks																						
PR1117	New CLP 11Kv Cable Laying in front of CCR-R5	18	04JAN07	24JAN07	0	18											PR11	17					
PR3000	C.P.Rd. Loop to Slip Road C - Formation	13	27NOV06	11DEC06	0	13					PR30	00	l 1		l T					1			
PR3010	C.P.Rd. Loop to Slip Road C - Sub-base	12	05DEC06	18DEC06	0	12			I I			PR3010			1					1		1	
PR3020	C.P.Rd. Loop to Slip Road C - Kerbs	18	12DEC06	03JAN07	0	18								PR302	0								
PR3040	C.P.Rd. Loop to Slip Road C - Pavement	6	04JAN07	10JAN07	0	6			i i						PR30)40		i			ĺ	i	ĺ
PR3050	C.P.Rd. Loop to Slip Road C - Street Lighting	12	11JAN07	24JAN07	0	12			i i	I	1	I	1				PR30)50		1		I	I I
PR3080	C.P.Rd. Loop to Slip Road C - Crash Barriers	18	11JAN07	31JAN07	0	18													PR308	0			
PR5000	C.P.Rd-K.C. S/B to C.C.Rd E/B - Excavate Road	18	25NOV06	15DEC06	0	18						PR5000											
PR5010	C.P.Rd-K.C. S/B to C.C.Rd E/B - Formation	12	30JAN07	12FEB07	0	12															PR5010		
PR5020	C.P.Rd-K.C. S/B to C.C.Rd E/B - Sub-base	12	08FEB07	24FEB07	0	12			i i		i I				i I			i					PR5
PR5030	C.P.Rd-K.C. S/B to C.C.Rd E/B - Kerbs	18	16FEB07	12MAR07	0	18			l l		1		1		l L								
PR5100	C.C. Rd. W/B - Sign Gantry FADS7 at P15-P16	18	16DEC06	08JAN07	0	18				1					PR5100								
Kiosk at S	lip Road C												1										
PK1000	Kiosk at Slip Rd. C - Structure	24	170CT06A	15DEC06	5	23						PK1000	1		Ì	Ì						l l	Ì
PK1010	Kiosk at Slip Rd. C - Building Finishes	24	16DEC06	15JAN07	0	24			l l	1	1				1	PK1010	l I	1		1	I I		1
PK1015	Kiosk at Slip Rd. C - Provision for E & M Contr'	0		15JAN07	0	0										PK1015	5						
PK1020	Kiosk at Slip Rd. C - MVAC Installations	24	16DEC06	15JAN07	0	24									i	PK1020							
PK1030	Kiosk at Slip Rd. C - Electrical Works	24	02JAN07	29JAN07	0	24					 				1			PK	<1030		 	 	
PK1035	Kiosk at Slip Rd. C - FS Installation	24	02JAN07	29JAN07	0	24												PK	<1035				
PK1040	Kiosk at Slip Rd. C - Drainage Works	24	16JAN07	12FEB07	0	24			1		1		1		l L						PK1040	I	

Start Date
Finish Date
Data Date

Sheet 14 of 14



APPENDIX M COMPLAINT LOG

Appendix M - Complaint Log

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			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.	 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) 	
40318	Nob Hill	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	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.	Closed
			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	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.	
			residents living in the vicinity.	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, 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	

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 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
Log Ku	Location			 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 	Status
				 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	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.	Closed
			referred to the ET Leader of the Project on 10 th July 2004. The complaint was raised by Mr. Chan,	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 boundary had been sealed up by cement as preventive measures.	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			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.	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. 	
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: 	 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. 	Closed
			 Area A: Works area between Nob Hill and Lai Chi Kok Park Swimming Pool Area B: Works area between Ching 	<i>Review of Environmental Monitoring Results</i> The routine monitoring stations, which are in the vicinity of the concerned works areas, include: <u>Noise Monitoring</u>	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
Log Ref.	Location	Received Date	Details of Complaint Cheung Road and Mei Lai Road / Lai Wan Road opposite to Mei Foo Sun Cheung (Phase 5) and Lai Chi Kok Public Library.	 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. <i>Environmental Site Inspection</i> 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. <i>Conclusions</i> 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: 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 turn off any idle equipment on site. 	Status
				 To turn on any full 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. 	
50215	Mei Foo Sun Chuen, Phase 5	15-Feb-05	A public complaint was raised on 8 th Feb 2005 regarding construction noise	Construction Activities	Closed
	(Retaining Wall CC-R3)	(by ET Leader)	from the site area of the Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project	During the weekly site inspection on 17 Feb 05, piling work was being conducted at the concerned. The major powered	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
Lug Kei.		Acceived Date	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.	 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. <i>Environmental Monitoring</i> The noise monitoring results at Station NM4 (Mei Foo Sun 	Status
				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.	
50322	Seung Lai House, Wah Lai Estate	11-Mar-05 (by EPD)	Environmental Protection Department (EPD) received a public noise complaint on 11 Mar 05 about daytime	Construction Activities As advised by the RSS, the major construction work during 25	Closed
	(Slope S1)	22-Mar-05 (by ET Leader)	construction noise generation from R8- LCKV. EPD subsequently referred the	Feb 05 to 11 Mar 05 (2 weeks before the date of complaint) in the vicinity of Wah Lai Estate included excavation work, soil	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			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.	 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. <i>Environmental Monitoring</i> 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. <i>Conclusion</i> 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, 50404 & 50407	Wah Lai Estate	30-Mar-05, 31- Mar-05, 4-Apr- 05 & 7-Apr-05 (by ET Leader via RSS)	Four public complaints were lodged by the residents of Wah Lai Estate 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	<i>Construction Activities</i> 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.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			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.	Investigation/Milgation Action 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 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 8 – 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	<i>Construction Activities</i> The site of concern was likely to Retaining Wall CC-R3, adjacent to Po Leung Kuk Tong Nai Kan College. The major construction works at this area included bored piling works and excavation works.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			April 2005.	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 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 (by ET Leader)	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 dust emitted intermittently from the slope works undertaken on the other side of Mei Lai Road.	Site Activities The site of concern was likely to be CCR-R3. Bored piling works and demolition of existing retaining walls were 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.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
Log Ref.	Location	Received Date	Details of Complaint The complainant was particularly concerned about the fugitive dust emission during rock / concrete breaking activities.	Investigation/Mitigation ActionObservationsOn 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.ConclusionBased on the observations noted during our site inspections, this 	Status
				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 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.	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 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.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			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.		
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) 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	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. <i>Site Inspection</i> After receipt of the complaint, an ad-hoc site inspection was carried by ET on 9 November 2005 and the following	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			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.	 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. <i>Environmental Monitoring</i> 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. <i>Conclusion</i> 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 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	 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: 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, 	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
Log Iul.			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.	mobile crane, lifting frame and generator, were undertaken under the two construction noise permits CNP no. GW-RW0739-05 and GW-RW0740-05. <i>Environmental Monitoring</i> 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). <i>Conclusion</i> 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 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 	 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 contractor. Site Inspection After receipt of the complaint, an ad-hoc site inspection was carried by ET on 19 January 2006. No environmental deficiency 	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			Council Member's Office. The complaint mentioned that residents of	regarding construction dust was identified during the inspection.	
			Mei Foo Sun Chuen Stage 5 were adversely affected by construction dust	Environmental Monitoring	
			caused by the Route 8 work carried out at the slopes adjacent to Ching Cheung Road.	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	H. H. Frank	13-Feb-06 16-Feb-06 20-Feb-06	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.	<i>Site Activities</i> Since around mid-January 2006, segments were transported to Piers P15 and B4, under the permission of construction noise permit (CNP).	
60216 60220 60222	Hoi Lai Estate (Lai Po Road)	22-Feb-06 (by the ET Leader)	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.	Closed
				Site Inspection	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				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	Site Activities	
			(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 ET Leader on 20 April 2006.	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 hours16 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.	 The construction activities near Hoi Lai estate included: - 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. 	

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)		 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. <i>Contractor's Action</i> 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, 	Close
				 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. 	
				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 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.	

Log Ref. Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
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.	 Site Activities 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 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. 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. 	Close

Environmental Protection Department (EPD) received a public complaints about noise nuisance generated from Route 8 – Lai Chi Kok Viaduct Project. Site Activities Site Activities According to the RSS's records, only precast segment transportation works at the concerned area which was used as the	
60522Hoi Lai Estate (Hoi Fai House)22-May-06 (by ET Leader)22-May-06 (by ET Leader)22-May-06 (by ET Leader)22-May-06 (by ET Leader)22-May-06 (by ET Leader)22-May-06 (by ET Leader)22-May-06 (by ET Leader)22-May-06 (by ET Leader)22-May-06 (by ET Leader)22-May-06 (by ET Leader)22-May-06 (by ET Leader)22-May-06 	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			The Integrated Complaint Centre (ICC) of HKSAR received a public complaint	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. Site Activities	
			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	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.	
			Cheun).	Contractor Action	
60609	Near Phase 5 of Mei Foo Sun Chuen	9-Jun-06 (by ET Leader)		The silent rock breaking equipment has been used and noise barriers were erected to minimize the noise impact generated from the breaking activity.	Closed
				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.	
				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	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				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 of Mei Foo Sun Chuen	26-Jun-06 (by ET Leader)	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint through a facsimile on 12 June 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 26 June 2006. According to the explanation from the RSS, this complaint was indeed the same as that received by the ET on 9 June 2006. The complaint initiated the	 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 	Closed
			complaint verbally to the ICC on 8 June 2006 and then also issued a facsimile to the ICC. The facsimile was transferred to the RSS on 12 June 06	The silent rock breaking equipment has been used and noise barriers were erected to minimize the noise impact generated from the breaking activity.	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			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 Mei Lai Road (near Phase 5 of Mei Foo Sun Cheun).	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 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 report was	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.	
			complaint investigation report was issued on 22 June 06. As the ET received this separate complaint after the issue of the complaint investigation report and considered the nature of the complained event (general construction during daytime but not single event at a particular moment), the complaint investigation procedures were initiated.	In addition to the noise measurement conducted on 14 and 16 June 2006, further noise measurement was carried out on 30 June 2006 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). Noise measurement carried out on 30 June 06, after correction of the mean background level, the monitoring data were below the noise criterion of 75 dB(A)	
			investigation 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 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	

Log Ref. Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
Log Ker. Location		The Integrated Complaint Centre (ICC) of HKSAR received a public complaint on 25 August 2006 about an environmental nuisance generated from	 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. Site Activities According to RSS's record, rock dowel installation for slope stabilization at CCR-S1 was commenced on 22 August 2006 and 	Status
Near Mei Foo and Lai King Hill Road	30-Aug-06 (by ET Leader)	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.	 would likely last for at least 6 months. <i>Contractor Action</i> 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. <i>Site Inspection and Environmental Monitoring</i> 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 implemented. <i>Conclusion</i> 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 	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				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.	
			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.	<i>Site Activities</i> 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. <i>Contractor Action</i>	
60831	Between Lai Wan Road and Lai King Hill Road	oad and 31-Aug-06 ng Hill (by ET Leader)	The complaint was concerned about construction noise, dust and waste water generated from the construction work affect the nearby NSRs after 19.00 hrs, the nearby ASRs and discharged to exiting road respectively	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 RSS confirmed that no construction activity was carried out after 18:00.	Closed
				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.	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				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:	
				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.	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
Log Kei.	Location			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. The complaint was concerned about the noise generated from the construction works after 19:00 at the area near Ching Cheung Road, Nob Hill and Mei Lai Road	 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. <i>Contractor Action</i> 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; 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 	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				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:	
				• Provide silent type drilling rigs for the drilling works;	
				Placing of wooden box to cover the head of drilling;Apply water spraying for at the hole during drilling;	
				The environmental conditions of the site will be continuously reviewed by the RSS and the Environmental Team through site inspections and monitoring exercises.	
61025	Lai Chi Kok Road Flyover near PCCW building	25-Oct-06 (by ET Leader)	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	<i>Site Activities:</i> 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.	Closed

Image: construction of the complaint to the ET Leader on 25th October 2006.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 droped onto ground.The complaint was concerned about the noise nuisance generated from workers and construction vehicles during the mid-night between 0100 and 0200 on both 19th and 200 on both 19th and 200 on building.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 droped onto ground.Environmental Monitoring Chi Kok Road Flyover near PCCW building.Environmental Monitoring An ad-hoc site observation and noise monitoring at Hoi Fai House of Hoot Lai Estate were conducted by the Contractor on 20th October 2006 between 0100 and 0130. The ET also carried out an ad-hoc inspection on 28th October 2006 from 0100 to 0200. During the inspection, segment erection work was 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 below the noise criterion of 55 dB (A) which consists with the noise monitoring results from the Contractor.Conclusion Based on the information collected, the complaint is considered justifiable although the monitoring results complied with the noise criteria.Nevertheless, the Contractor was reminded to take sufficient
 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.

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				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 non-compliance 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 Based on the information collected, 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: 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. 	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
Log Ref.	Location Area near Lai Chi Kok Swimming Pool	21-Nov-06 (by ET Leader)	Details of Complaint 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. The complaint was concerned about noise generated from the construction works between 09:00 and 18:30 at the area near Lai Chi Kok Swimming Pool.	Investigation/Mitigation ActionTeam.Site ActivitiesAccording 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 13th to 18th 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.Environmental MonitoringDuring the weekly site inspections in November 2006, 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) 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 	Status

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				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.	
61121-2	Construction works opposite Tong Nai Kan College	21-Nov-06 (by ET Leader)	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. The complaint was concerned about dust and noise generated from the construction works opposite Tong Nai Kan College in the past years.	<i>Site Activities</i> 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.	Closed
				Environmental Monitoring	
				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.	
				The monitoring results revealed that no exceedance was recorded for the noise and air quality (1-hr and 24-hr TSP).	
				<i>Conclusion</i> 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	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				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.	