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

Quarterly EM&A Report
Part I – Lai Chi Kok Viaduct (Version 1.0)

March to May 2008

Approved By _____
(Environmental Team Leader)

REMARKS:

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

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

CINOTECH CONSULTANTS LTD
Room 1710, Technology Park
18 On Lai Street,
Shatin, NT, Hong Kong
Tel: (852) 2151 2083 Fax: (852) 3107 1388
Email: info@cinotech.com.hk

TABLE OF CONTENTS

Page

EXECUTIVE SUMMARY **1**

ENVIRONMENTAL MONITORING WORKS 1
ENVIRONMENTAL LICENSING AND PERMITTING 2
KEY INFORMATION IN THE REPORTING QUARTER 2

1. INTRODUCTION **5**

2. PROJECT CHARACTERISTICS **7**

PROJECT ORGANIZATION AND CONTACTS OF KEY MANAGEMENT 7
CONSTRUCTION PROGRAMME AND SYNOPSIS OF WORK 7

3. ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS **8**

MONITORING PARAMETERS AND MONITORING LOCATIONS 8
MONITORING METHODOLOGY AND CALIBRATION DETAILS 8
ENVIRONMENTAL QUALITY PERFORMANCE LIMITS (ACTION AND LIMIT LEVELS) 8
ENVIRONMENTAL MITIGATION MEASURES 8

4. MONITORING RESULTS **9**

WEATHER CONDITIONS 9
AIR QUALITY 9
CONSTRUCTION NOISE 9

5. ENVIRONMENTAL AUDIT **11**

IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES 11
SITE AUDIT SUMMARY 11
STATUS OF ENVIRONMENTAL LICENSING AND PERMITTING 12

6. NON-COMPLIANCE (EXCEEDANCES) OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS (ACTION AND LIMIT LEVELS) **13**

SUMMARY OF EXCEEDANCES 13
REVIEW OF THE REASONS FOR AND THE IMPLICATIONS OF NON-COMPLIANCE 13

7 ENVIRONMENTAL COMPLAINTS **14**

8. NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS **15**

9 COMMENTS, CONCLUSIONS AND RECOMMENDATIONS **16**

LIST OF TABLE

Table I	Summary Table for Exceedances Recorded in the Reporting Quarter
Table II	Summary Table for Key Information in the Reporting Quarter
Table 5.1	Observations and Recommendations of the Site Audits for Civil Works
Table 5.2	Observations and Recommendations of Site Audits for TCSS

LIST OF FIGURES

Figure 1	Locations of Monitoring Stations
Figure 2	Project Organization Chart

LIST OF APPENDICES

Appendix A	Contact Details of the Project Organisation
Appendix B	Construction Programme
Appendix C	Monitoring Requirements
Appendix D	Environmental Quality Performance (Action/Limit) Levels
Appendix E	Graphical Presentation of Air Quality Monitoring Results
Appendix F	Graphical Presentation of Noise Monitoring Results
Appendix G	Implementation Schedule of Environmental Mitigation Measures (EMIS)
Appendix H	Summary of Environmental Licences and Permits
Appendix I	Complaint Log
Appendix J	Summary of Exceedances

EXECUTIVE SUMMARY

This is the 18th Quarterly 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 summary report documents the findings of EM&A works performed in the period between March and May 2008 for Contract No. HY/2003/01, Route 8 – Lai Chi Kok Viaduct (the Project).

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

- Filling slope at LCK-R1, R2 & R3;
- Landscaping works at Retaining Wall LCK-R1, R2 & R3;
- Slope upgrading works for Feature No. 11NW-A/FR 54 & A/FR55;
- Drainage works at Lai Po Road and Nob Hill (underneath LW Overpass);
- Installation of E&M works in Irrigation Pump House;
- RSSM and slope drains for slope CCR-S4;
- RSSM for slope CCR-S1, Batter 8;
- Planting at Slope CCR-S1, S2, Butterfly Valley Interchange;
- Hydromulching to Slope CCR-S4 & Slope CCR-S1, Batter 8;
- Road works at main viaduct, slip roads C & D, Lai Po Road, Lai Wan Road, Butterfly Valley Interchange, Butterfly Valley Road and Ching Cheung Road;
- Feature walls construction for landscape hardworks at Lai Po Road;
- Hydroseeding and landscaping works at LCK- R1, R2 & R3;
- Installation of irrigation pipe, drainage works, water mains, filling for landscaping works and landscaping hard works at Nob Hill (underneath LW Overpass);
- Landscaping hard works at Lai Po Road; and
- Reinstatement of footpath at Lai Wan Road & Mei Lai Road.

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

- Site Acceptance Tests (SAT) for TCSS equipment.

Environmental Monitoring Works

Environmental monitoring for the Project was performed regularly as stipulated in the EM&A Manuals and the results were checked and reviewed. Environmental 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 quarter is tabulated in **Table I**.

Table I Summary Table for Events Recorded in the Reporting Quarter

Parameter	No. of Exceedance		No. of Events due to the Project	Action Taken
	Action Level	Limit Level		
March 2007				
1-hr TSP	0	0	0	N/A
24-hr TSP	0	0	0	N/A
Noise	0	0	0	N/A
April 2008				
1-hr TSP	0	0	0	N/A
24-hr TSP	0	0	0	N/A
Noise	1	0	0 (Invalid complaint)	Complaint Investigation [(a)]
May 2008				
1-hr TSP	0	0	0	N/A
24-hr TSP	0	0	0	N/A
Noise	0	0	0	N/A

Remark*:*

(a) One Action Level exceedance for noise monitoring was recorded due to one noise nuisance complaint received on 11th April 2008.

Environmental Licensing and Permitting

Licenses/Permits granted to the Project include the Environmental Permit (EP) for the Project, Construction Noise Permits (CNP) and Water Discharge Licenses (WDL). The Contractor had also registered as a Chemical Waste Producer.

Key Information in the Reporting Quarter

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

Table II Summary Table for Key Information in the Reporting Quarter

Event	Event Details		Action Taken	Status	Remark
	Number	Nature			
Complaint received	1	Noise	Complaint Investigation	Investigation Report was submitted on 21st April 2008	---
Changes to the assumptions and key construction / operation activities recorded	0	---	N/A	N/A	---
Status of submissions under EP	4	Monthly EM&A Report (March 08)	Submitted to EPD on 14th April 2008 (EP condition 4.6).	No comment	---
		Monthly EM&A Report (April 08)	Submitted to EPD on 15th May 2008 (EP condition 4.6).	No comment	---
		Monthly EM&A Report (May 08)	Submitted to EPD on 13th June 2008 (EP condition 4.6).	No comment	---
		EP Audit Report(Minor Revision) [EP Condition 5.3]	Minor amendment in EP Audit Report in accordance with EPD's and ET's comments	Submitted to EPD on 16th May 2008	---
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:

- Landscaping works at Lai Po Road;
- Slope upgrading works for Feature No. 11NW-A/FR 54 & A/FR55;
- Installation of irrigation pipe, drainage work, water mains and landscaping works at Nob Hill (underneath LW Overpass);
- Reinstatement of footpath at Lai Wan Road & Mei Lai Road; and
- Road works at Lai Po Road, Butterfly Valley Interchange and Butterfly Valley Road.

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

- Nil

The anticipated environmental issues will be mainly on dust impact from road works, slope upgrading works and noise nuisance from road works at Lai Po Road & Nob Hill (underneath LW Overpass).

1. INTRODUCTION

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 audit; 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. 449) (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. An 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. A varied EP-103/2001/D was recently issued on 19 March 2008.

1.6 The major construction activities of two civil contracts of the R9K project, Contract No. HY/2003/01 entitled "Route 9 – Lai Chi Kok Viaduct" and Contract No. HY/2003/02 entitled "Route 9 – Eagle's Nest Tunnel and Associated Works", were commenced in 15th December 2003 for completion in April 2007.

1.7 "Route 9" was recently re-titled as "Route 8 (previously known as Route 9)". Cinotech Consultants Limited (Cinotech) was commissioned by HyD to undertake the Environmental Monitoring and Audit works for "Route 8 (previously known as Route 9) 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 was appointed as the ET Leader under Condition 2.2 of the EP. Mr. Damien KU of CH2M HILL Hong Kong Ltd. was appointed as the IEC under Condition 2.1 of the EP. This is the 18th quarterly EM&A report summarizing the EM&A works for the LCKV Project between March and May 2008.

2. PROJECT CHARACTERISTICS

Project Organization and Contacts of Key Management

2.1 An organization structure and the line of communication were set up for the Project between the Project Proponent, Engineer's Representative (ER), Independent Environmental Checker (IEC), the Contractor and Environmental Team (ET). The organization chart and contact details are shown in **Figure 2** and **Appendix A**.

Construction Programme and Synopsis of Work

2.2 The construction programme is presented in **Appendix B**.

2.3 The site activities for Civil works during the reporting quarter included:

- Filling slope at LCK-R1, R2 & R3;
- Landscaping works at Retaining Wall LCK-R1, R2 & R3;
- Slope upgrading works for Feature No. 11NW-A/FR 54 & A/FR55;
- Drainage works at Lai Po Road and Nob Hill (underneath LW Overpass);
- Installation of E&M works in Irrigation Pump House;
- RSSM and slope drains for slope CCR-S4;
- RSSM for slope CCR-S1, Batter 8;
- Planting at Slope CCR-S1, S2, Butterfly Valley Interchange;
- Hydromulching to Slope CCR-S4 & Slope CCR-S1, Batter 8;
- Road works at main viaduct, slip roads C & D, Lai Po Road, Lai Wan Road, Butterfly Valley Interchange, Butterfly Valley Road and Ching Cheung Road;
- Feature walls construction for landscape hardworks at Lai Po Road;
- Hydroseeding and landscaping works at LCK- R1, R2 & R3;
- Installation of irrigation pipe, drainage works, water mains, filling for landscaping works and landscaping hard works at Nob Hill (underneath LW Overpass);
- Landscaping hard works at Lai Po Road; and
- Reinstatement of footpath at Lai Wan Road & Mei Lai Road.

2.4 The site activities for TCSS works during the reporting quarter included:

- Site Acceptance Tests (SAT) for TCSS equipment.

3. ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS

Monitoring Parameters and Monitoring Locations

3.1 The EM&A Manuals designate locations for the ET to monitor environmental impacts in terms of noise and air quality due to the Project. The monitoring locations are depicted in **Figure 1**. **Appendix C** gives details of monitoring requirements.

Monitoring Methodology and Calibration Details

3.2 Monitoring works/equipment was conducted/ calibrated regularly in accordance with the EM&A Manual. Copies of calibration certificates are attached in the appendices of the Monthly EM&A Reports.

Environmental Quality Performance Limits (Action and Limit Levels)

3.3 The environmental quality performance limits, i.e. Action and Limit Levels were derived from the baseline monitoring results. Should the measured environmental quality parameters exceed the Action/Limit Levels, the respective Event Action Plans would be implemented. The Action/Limit Levels for each environmental parameter are provided in **Appendix D**.

Environmental Mitigation Measures

3.4 Relevant mitigation measures as recommended in the project EIA report have been stipulated in the EM&A Manual for the Contractor to implement. A list of mitigation measures is provided in **Appendix G**.

4. MONITORING RESULTS

Weather Conditions

4.1 The weather during monitoring sessions was mainly sunny and sometimes drizzles. The weather conditions for each individual monitoring session were presented in the field record sheets.

Air Quality

1-hr TSP Monitoring

4.2 All 1-hr TSP monitoring was conducted as scheduled. No Action/Limit Level exceedance was recorded in the reporting quarter.

24-hr TSP Monitoring

4.3 All 24-hr TSP monitoring was conducted as scheduled. No Action/Limit Level exceedance was recorded in the reporting quarter.

4.4 The monitoring data of 1-hr and 24-hr TSP Levels are attached in the appendices of the Monthly Reports for March to May 2008. The graphical presentations of the monitoring results are shown in **Appendix E**.

Construction Noise

4.5 All construction noise monitoring was conducted as scheduled in the reporting quarter.

4.6 No Limit Level exceedance was recorded in the reporting quarter while 1 Action Level exceedance was recorded in the reporting quarter due to noise nuisance complaints received on 11th April 2008.

4.7 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.

4.8 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.

4.9 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.

4.10 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.

4.11 The monitoring data of construction noise are attached in the appendices of the Monthly Reports for March to May 2008. The graphical presentations of the monitoring results are shown in **Appendix F**.

5. ENVIRONMENTAL AUDIT

Implementation Status of Environmental Mitigation Measures

5.1 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 Environmental Mitigation Implementation Status (EMIS) is provided in **Appendix G**.

Site Audit Summary

5.2 ET's weekly site audits for Civil works were conducted on 5th, 12th, 19th and 26th March 2008, 2nd, 9th, 16th, 23rd and 30 April 2008, and 6th, 14th, 21st and 28th May 2008.

5.3 The joint site audits for Civil works were conducted on 5th March 2008, 9th April 2008 and 14th May 2008 with representatives from IEC, ER, the Contractor and ET. A joint site audit for TCSS works was conducted on 5th March 2008 with the representatives from IEC, ER, the Contractor and ET. No environmental deficiency was recorded for TCSS contract during site inspections.

5.4 During site inspections in the reporting period, no non-conformance was identified. The observations and recommendations are summarized in **Table 5.1**.

Table 5.1 Observations and Recommendations of the Site Audits for Civil Works

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality	19 Mar 08	Observation Two ponds of ponding water were observed at CCR-R2 (near Nob Hill). The Contractor was advised to dry them out to prevent mosquito breeding.	The situation was found improved / rectified during the audit on 2 Apr 2008.
	26 Mar 08	Observation Ponding water was observed at CCR-R2 (near Nob Hill). The Contractor was advised to pump it out regularly to prevent mosquito breeding.	The situation was found improved / rectified during the audit on 2 Apr 2008.
	2 Apr 08	Observation Stagnant water was observed at CCR-R2 (near Nob Hill). The Contractor was advised to dry it out to prevent mosquito breeding.	The situation was found improved / rectified during the audit on 9 Apr 2008.
	16 Apr 08	Observation Silt water was observed in U-channel near Nob Hill. The Contractor was reminded to erect sand bags to prevent silt from flowing to drainage.	The situation was found improved / rectified during the audit on 23 Apr 2008
	23 Apr 08	Observation Waste water and construction waste were observed accumulate in the U-channel at CCR-R2 (near Nob Hill). The Contractor was reminded to clear them.	The situation was found improved / rectified during the audit on 30 Apr 2008

Parameters	Date	Observations and Recommendations	Follow-up
Air Quality	26 Mar 08	Observation Silt was observed on the road surface at KCRC EVA (near Lai Po Road). The Contractor was advised to provide paved road and mitigation measures to prevent bring silt to the public.	The situation was found improved / rectified during the audit on 2 Apr 2008.
Waste/ Chemical Management	5 Mar 08	Observation Oil was observed accumulated in the drip tray under Lai Wan Overpass (near Nob Hill). The Contractor was advised to remove it regularly and provide sufficient drip tray for all the oil containers.	The situation was found improved / rectified during the audit on 12 March 2008.
	5 Mar 08	Reminder The Contractor was reminded to pay attention to the site tidiness.	The situation was found improved / rectified during the audit on 12 March 2008.
	9 Apr 08	Observation Construction waste accumulation was observed near U-channel at Mui Kong Tsuen. Contractor was reminded to clear it.	The situation was found improved / rectified during the audit on 16 Apr 2008.
	9 Apr 08	Reminder General refuse was observed at CCR-R2 (near Nob Hill). Contractor was reminded to clear it regularly.	The situation was found improved / rectified during the audit on 16 Apr 2008.
	16 Apr 08	Observation Construction waste was observed to be accumulated near Nob Hill. The Contractor was reminded to clear it.	The situation was found improved / rectified during the audit on 23 Apr 2008
	23 Apr 08	Observation Waste water and construction waste were observed accumulate in the U-channel at CCR-R2 (near Nob Hill). The Contractor was reminded to clear them.	The situation was found improved / rectified during the audit on 30 Apr 2008
	30 Apr 08	Observation Construction waste was observed without cover at CCR-2 (near Nob Hill). The Contractor was reminded to cover it with tarpaulin or clear it as soon as possible.	The situation was found improved / rectified during the audit on 6 May 2008

Table 5.2 Observations and Recommendations of Site Audits for TCSS

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

Status of Environmental Licensing and Permitting

5.5 Environmental licenses and permits including the Environmental Permit for the Project were in place and valid during the reporting quarter. The status of these licenses and permits obtained for the Project is summarized in **Appendix H**.

6. NON-COMPLIANCE (EXCEEDANCES) OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS (ACTION AND LIMIT LEVELS)

Summary of Exceedances

Air Quality

6.1 No Action/Limit Level exceedance was recorded in the reporting quarter.

Construction Noise

6.2 No Limit Level exceedance was recorded in the reporting quarter while 1 Action Level exceedance was recorded in the reporting quarter due to noise nuisance complaints received on 11th April 2008.

Review of the Reasons for and the Implications of Non-compliance

6.3 There was no non-compliance from the site audits in the reporting quarter. As mentioned previously in the Section 5.2 of this report, the observations and recommendations made in each individual site audit session were presented.

7 ENVIRONMENTAL COMPLAINTS

7.1 One environmental complaint was received in the reporting quarter.

Log no. 80411 (Received on 11th April 08)

7.2 The complaint was referred by the Environmental Protection Department (EPD) on 11 April 2008. It was a public complaint from Sham Shui Po DC member's Office via the EPD about the construction noise generated from Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project around Widening of Ching Cheung Road near Lai Chi Lok Park, Kowloon. The complaint was considered unjustifiable and the complaint investigation report was submitted to HyD on 21st April 2008.

7.3 There were 45 complaints received since the Project commencement. All complaints have been handled in accordance with the EM&A Manuals. The implementation status of the complaint handling procedure is summarized in **Appendix I**.

8. NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

8.1 Further to incident of mosquito larvae being identified in a plant pot drip tray on 21 July 2005 during FEHD's site inspection, the Contractor was prosecuted under the Public Health and Municipal Services Ordinance (Cap.132). After the hearing on 6th December 2005, the Contractor was fined $5,000 by the Kowloon City magistrate's court.

8.2 There was 1 successful prosecution received since the Project commencement.

9 COMMENTS, CONCLUSIONS AND RECOMMENDATIONS

9.1 Major site activities for the coming month include:

- Landscaping works at Lai Po Road;
- Slope upgrading works for Feature No. 11NW-A/FR 54 & A/FR55;
- Installation of irrigation pipe, drainage work, water mains and landscaping works at Nob Hill (underneath LW Overpass);
- Reinstatement of footpath at Lai Wan Road & Mei Lai Road; and
- Road works at Lai Po Road, Butterfly Valley Interchange and Butterfly Valley Road.

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

- Nil

9.3 The anticipated environmental issues will be mainly on dust impact from road works, slope upgrading works and noise nuisance from road works at Lai Po Road & Nob Hill (underneath LW Overpass).

9.4 According to the environmental audit performed in the reporting quarter and the anticipated environmental issues, 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.
- 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.

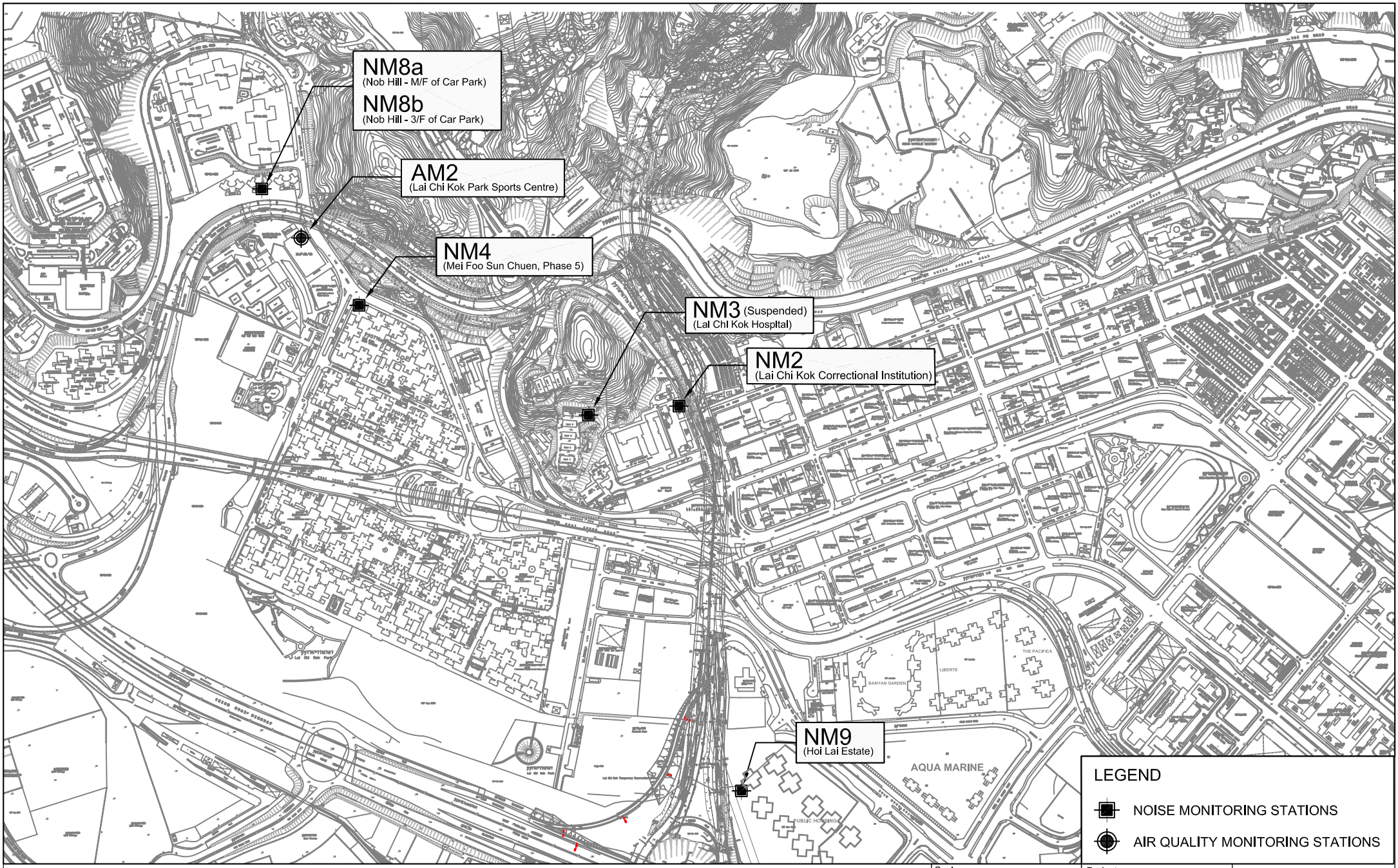
Dust Impact

- To ensure water spraying is applied for the dust emissive works.
- 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



Title

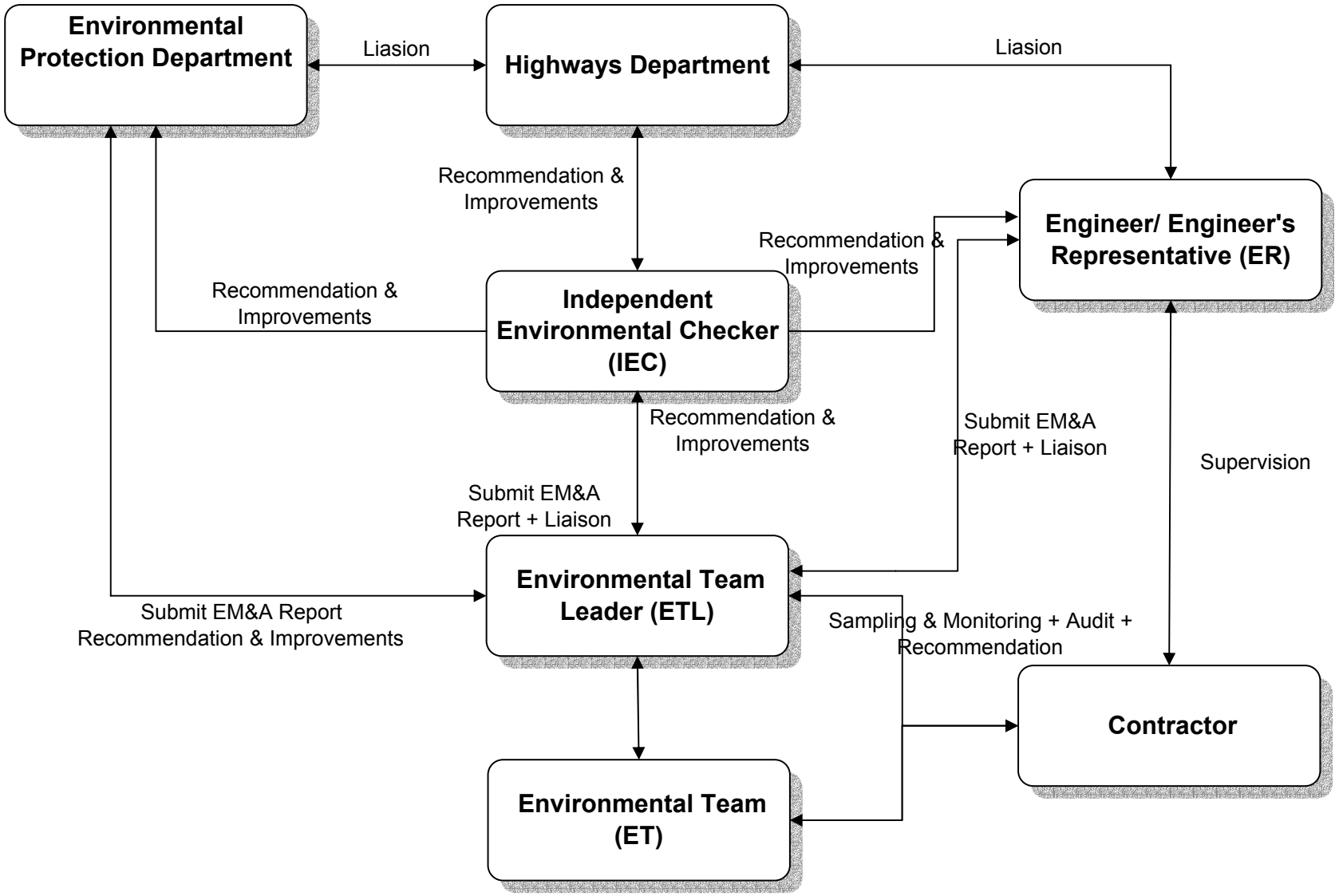
ROUTE 8 (PREVIOUSLY KNOWN AS ROUTE 9) BETWEEN CHEUNG SHA WAN AND SHA TIN
CONTRACT HY/2003/01 - LAI CHI KOK VIADUCT

LOCATIONS OF MONITORING STATIONS

Scale	Project No.
1 : 8000 (A4)	MA3024
Date	Figure No.
2006	1

CINOTECH consultants limited

F:\PROJECTS\MA3024\DRAWING\IMPACT\LCK\FIGURE 1_LAYOUT_2006.DWG



Title	ROUTE 8 (PREVIOUSLY KNOWN AS ROUTE 9) BETWEEN CHEUNG SHA WAN AND SHA TIN CONTRACT NO. HY/2003/01 - LAI CHI KOK VIADUCT Environmental Monitoring and Audit Organization Chart	Scale N.T.S	Project No. MA3024	CINOTECH
		Date 2006	Figure 2	

APPENDIX A
CONTACT DETAILS OF THE PROJECT ORGANISATION

Appendix A - Contact Details of the Project Organisation (LCKV)

Party	Role	Name	Position	Phone No.	Fax No.
HyD	Permit Holder	Mr. Kroc Leung	SE2/R8K	2762 3662	2714 5198
		Mr. Esther Yung	E1/R8K	2762 3677	
		Mr. LC Chung	E2/R8K	2762 3613	
MHJV	Engineer	Mr. Conrad Ng	Project Manager	2605 6262	2691 2649
	Engineer's Representative	Mr. Peter Poon	CRE	2959 0010	2959 0290
		Mr. Alan Chan	IOW	9860 8791	
		Mr. Alex Tam	RE	9856 0199	
Cinotech	Environmental Team	Dr. Priscilla Choy	ET Leader	2151 2089	3107 1388
		Ms. Tammy Lin	Audit Team Leader & Project Coordinator	2151 2077	
		Mr. Henry Leung	Monitoring Team Leader	2151 2087	
CH2M	Independent Environmental Checker	Mr. Damien Ku	Independent Environmental Checker	2872 2921	2507 2293
		Mr. Simon Lam	Assistant Independent Environmental Checker	2872 2946	
Acciona	Contractor	Mr. William D. Payne	Project Director	2956 3300	2956 3331
		Mr. Lawrence Kwok	QA/E Manager		
ARUP	Engineer's Representative (TCSS)	Mr. Donald Leung	RE	2436 7489	2436 1803
		Mr. Daniel So	ARE	2436 7435	
DIGJV	Contractor (TCSS)	Ms. Joyce Chan	Quality Manager	2123 0845	2123 0889
24-hour Emergency Hotline				2370 9200	-

APPENDIX B
CONSTRUCTION PROGRAMME

Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	% Compl.	Rem .Durn.
Preliminaries & General Requirments						
Key Dates						
KD1170	KD-17: Completion of Section 15 of the Works	0		19MAY08*	0	0
Portion Access Dates						
PD1140	Access to Portion F1 (NOT USED)	0	20MAY08*		0	0
Portion Vacate Dates						
VD1000	Vacate Portion A	0		19MAY08*	0	0
VD1010	Vacate Portion B	0		19MAY08*	0	0
VD1020	Vacate Portion C	0		19MAY08*	0	0
VD1030	Vacate Portion D1	0		19MAY08*	0	0
VD1040	Vacate Portion D2	0		19MAY08*	0	0
VD1050	Vacate Portion E1	0		19MAY08*	0	0
VD1060	Vacate Portion E2	0		19MAY08*	0	0
VD1080	Vacate Portion E4	0		19MAY08*	0	0
VD1100	Vacate Portion G1	0		19MAY08*	0	0
VD1110	Vacate Portion F1	0		19MAY08*	0	0
VD1120	Vacate Portion F2	0		19MAY08*	0	0
VD1130	Vacate Portion F3	0		19MAY08*	0	0
VD1140	Vacate Portion G2	0		19MAY08*	0	0
VD1150	Vacate Portion G3	0		19MAY08*	0	0
VD1160	Vacate Portion G4	0		19MAY08*	0	0
VD1170	Vacate Portion K1	0		19MAY08*	0	0
VD1180	Vacate Portion K2 & K3	0		19MAY08*	0	0
VD1190	Vacate Portion K4 & K8	0		19MAY08*	0	0
VD1200	Vacate Portion K5 & K6	0		19MAY08*	0	0
VD1220	Vacate Portion K7, K9, K10	0		19MAY08*	0	0
VD1250	Vacate Portion W	0		19MAY08*	0	0
VD1260	Vacate Portion R1	0		19MAY08*	0	0
Initial Submissions						
SU1075	Continuous Upating of Works & 3 Month Progs	927	09OCT03A	29JUL08	93	59
Design of Temporary Works						
TW1370	Design Temp Works Feature11NW-A/C66 (NOT USED)	24	20MAY08	16JUN08	0	24
Monitoring & Instrumentation - Existing Features						
IM1005	Monitoring @ Sewage Pumping Station	1,339*	01MAR04A	09AUG08	18	69*
IM1008	Monitoring @ Open Storage	1,338*	02MAR04A	09AUG08	18	69*
IM1015	Monitoring @ PCCW Building	1,339*	01MAR04A	09AUG08	18	69*
IM1025	Monitoring in @ Existing Footbridge	1,335*	05MAR04A	09AUG08	17	69*
IM1035	Monitoring @ W. Chandler Bldg.	1,334*	06MAR04A	09AUG08	17	69*
IM1045	Monitoring @ Tong Yuen Factory Bdlg	1,336*	04MAR04A	09AUG08	18	69*
IM1055	Monitoring @ LCK Off-take Station	1,336*	04MAR04A	09AUG08	18	69*
IM1065	Monitoring @ Hop Hing Ind. Bldg.	1,336*	04MAR04A	09AUG08	18	69*
IM1075	Monitoring @ KC Rd. Flyover Str. K3	1,312*	01APR04A	09AUG08	15	69*
IM1085	Monitoring @ CLP Link Station	1,336*	04MAR04A	09AUG08	18	69*
IM1095	Monitoring @ LCK Reception Ctr.	1,298*	19APR04A	09AUG08	14	69*
IM2005	Monitoring @ LCKP Indoor Games Hall	1,321*	22MAR04A	09AUG08	16	69*
IM2015	Monitoring @ LCK Public Library	1,316*	27MAR04A	09AUG08	16	69*
IM2025	Monitoring @ Mei Foo Sun Chuen	1,315*	29MAR04A	09AUG08	17	69*
IM2035	Monitoring @ CLP Lai Chi Kok Sub-Station	1,315*	29MAR04A	09AUG08	15	69*
IM2045	Monitoring @ CLP Pylon A	1,298*	19APR04A	09AUG08	14	69*
IM2065	Monitoring @ Nob Hill Development	1,321*	22MAR04A	09AUG08	16	69*
IM2075	Monitoring @ Lai Wan Road Overpass	1,267*	26MAY04A	09AUG08	10	69*
IM2085	Monitoring @ CLP H/ways Structure K40C	1,312*	01APR04A	09AUG08	15	69*
IM2095	Monitoring @ CLP H/ways Structure K2	1,312*	01APR04A	09AUG08	15	69*
IM2105	Monitoring @ CLP H/ways Structure K116	1,315*	29MAR04A	09AUG08	15	69*
IM2135	Monitoring @ Along Lai Wan Road	1,298*	19APR04A	09AUG08	15	69*

Start Date 23SEP03
Finish Date 21OCT09
Data Date 20MAY08

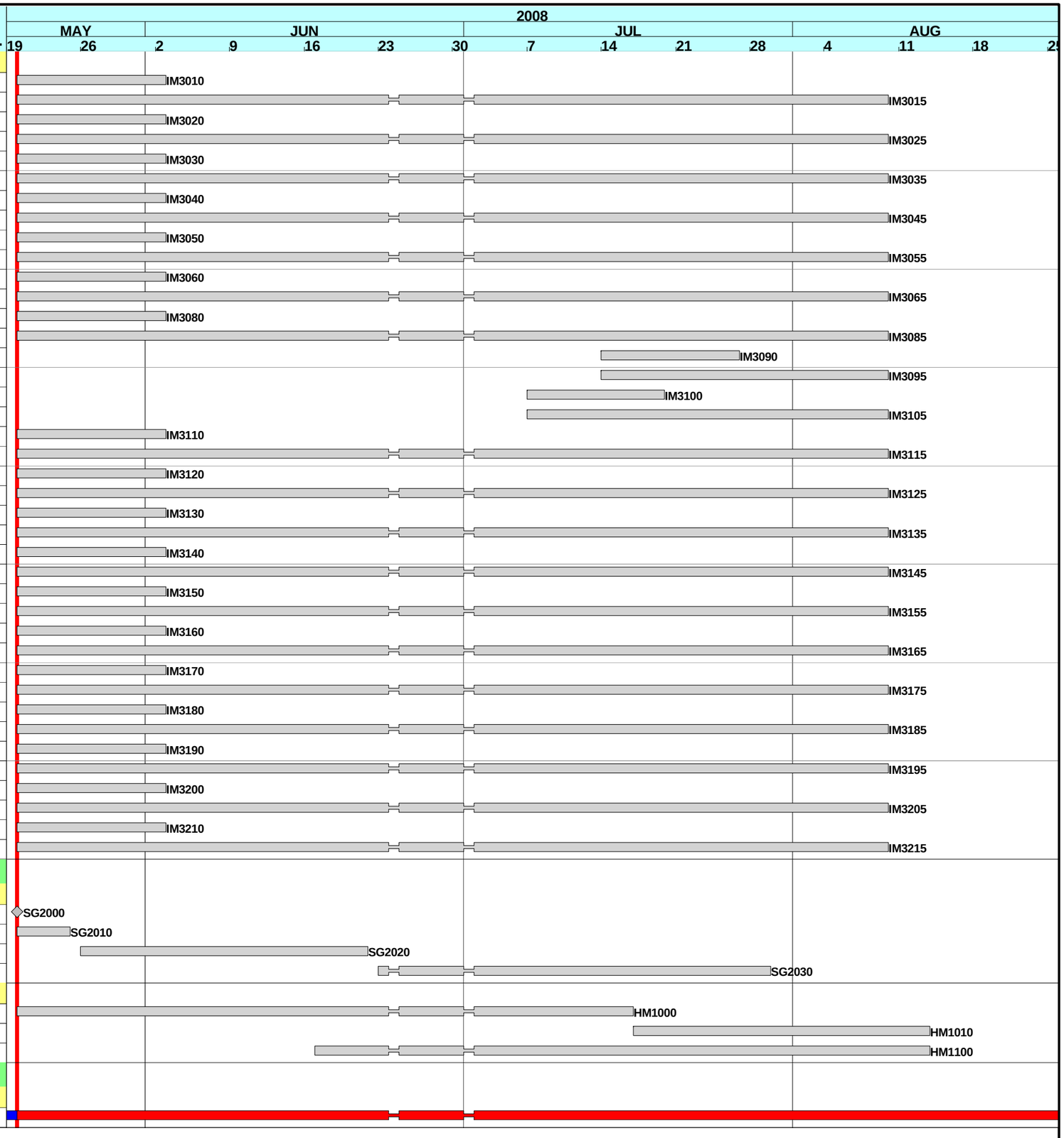
© Primavera Systems, Inc.

P3 File : LU56

Highways Department Contract No. HY/2003/01
Route 8 - Lai Chi Kok Viaduct
3 Month Rolling Programme
from 21 May 2008

acciona Infraestructuras

Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	% Compl.	Rem .Durn.
Monitoring & Instrumentation - New Works						
IM3010	Install Instrumentation @ Cut Slope CCR-S1	12	20MAY08	02JUN08	0	12
IM3015	Monitoring @ Cut Slope CCR-S1	69*	20MAY08	09AUG08	0	69*
IM3020	Install Instrumentation @ Cut Slope CCR-S2	12	20MAY08	02JUN08	0	12
IM3025	Monitoring @ Cut Slope CCR-S2	69*	20MAY08	09AUG08	0	69*
IM3030	Install Instrumentation @ Cut Slope CCR-S3	12	20MAY08	02JUN08	0	12
IM3035	Monitoring @ Cut Slope CCR-S3	69*	20MAY08	09AUG08	0	69*
IM3040	Install Instrumentation @ Cut Slope CCR-S4	12	20MAY08	02JUN08	0	12
IM3045	Monitoring @ Cut Slope CCR-S4	69*	20MAY08	09AUG08	0	69*
IM3050	Install Instrumentation @ Cut Slope CCR-S5	12	20MAY08	02JUN08	0	12
IM3055	Monitoring @ Cut Slope CCR-S5	69*	20MAY08	09AUG08	0	69*
IM3060	Install Instrumentation @ Cut Slope CCR-S6	12	20MAY08	02JUN08	0	12
IM3065	Monitoring @ Cut Slope CCR-S6	69*	20MAY08	09AUG08	0	69*
IM3080	Install Instrumentation @ Slope 11NW-A/C26	12	20MAY08	02JUN08	0	12
IM3085	Monitoring @ Slope 11NW-A/C26	69*	20MAY08	09AUG08	0	69*
IM3090	Install Instrumentation @ Slope 11NW-A/FR54 & 55	12	14JUL08	26JUL08	0	12
IM3095	Monitoring @ Slope 11NW-A/FR54 & 55	24*	14JUL08	09AUG08	0	24*
IM3100	Install Instrumentation @ Slope11NW-A/C687 & 679	12	07JUL08	19JUL08	0	12
IM3105	Monitoring @ Slope 11NW-A/C687 & 679	30*	07JUL08	09AUG08	0	30*
IM3110	Install Instrumentation @ Slip Road A Embankment	12	20MAY08	02JUN08	0	12
IM3115	Monitoring @ Slip Road A Embankment	69*	20MAY08	09AUG08	0	69*
IM3120	Install Instrumentation @ Slip Road B Embankment	12	20MAY08	02JUN08	0	12
IM3125	Monitoring @ Slip Road B Embankment	69*	20MAY08	09AUG08	0	69*
IM3130	Install Instrumentation @ Piers P1 to P6	12	20MAY08	02JUN08	0	12
IM3135	Monitoring @ Piers P1 to P6	69*	20MAY08	09AUG08	0	69*
IM3140	Install Instrumentation @ Piers P7 to P10	12	20MAY08	02JUN08	0	12
IM3145	Monitoring @ Piers P7 to P10	69*	20MAY08	09AUG08	0	69*
IM3150	Install Instrumentation @ Piers P11 to P15	12	20MAY08	02JUN08	0	12
IM3155	Monitoring @ Piers P11 to P15	69*	20MAY08	09AUG08	0	69*
IM3160	Install Instrumentation @ Piers P16 to P18	12	20MAY08	02JUN08	0	12
IM3165	Monitoring @ Piers P16 to P18	69*	20MAY08	09AUG08	0	69*
IM3170	Install Instrumentation @ Piers P19 to Abut. M	12	20MAY08	02JUN08	0	12
IM3175	Monitoring @ Piers P19 to Abut. M	69*	20MAY08	09AUG08	0	69*
IM3180	Install Instrumentation @ Piers on Slip Road A	12	20MAY08	02JUN08	0	12
IM3185	Monitoring @ Piers on Slip Road A	69*	20MAY08	09AUG08	0	69*
IM3190	Install Instrumentation @ Piers on Slip Road B	12	20MAY08	02JUN08	0	12
IM3195	Monitoring @ Piers on Slip Road B	69*	20MAY08	09AUG08	0	69*
IM3200	Install Instrumentation @ Piers on Slip Road C	12	20MAY08	02JUN08	0	12
IM3205	Monitoring @ Piers on Slip Road C	69*	20MAY08	09AUG08	0	69*
IM3210	Install Instrumentation @ Piers on Slip Road D	12	20MAY08	02JUN08	0	12
IM3215	Monitoring @ Piers on Slip Road D	69*	20MAY08	09AUG08	0	69*
Procurement						
Signage						
SG2000	Signage - Award of Sub-contract (NOT USED)	0	20MAY08		0	0
SG2010	Signage - Shop Drawings (NOT USED)	50	20MAY08	24MAY08	0	5
SG2020	Signage - Rev & Appro of Shop Dwgs. (NOT USED)	24	26MAY08	21JUN08	0	24
SG2030	Signage - Off-Site Fabr'n of Signs (NOT USED)	50	23JUN08	29JUL08	0	30
High Mast Lighting (NOT USED)						
HM1000	High Mast Lighting -Foundation Design (NOT USED)	48	20MAY08	16JUL08	0	48
HM1010	High Mast Lighting - Appr of Found'n (NOT USED)	24	17JUL08	13AUG08	0	24
HM1100	High Mast Lighting Design & Shop Dwgs (NOT USED)	48	17JUN08	13AUG08	0	48
Viaduct - Main Line - Piers PA to P6						
Remaining Superstructure Finishing Works						
MF1100	P6 - Landscape Establishment Works on Viaduct	301	22FEB08A	20FEB09	24	228



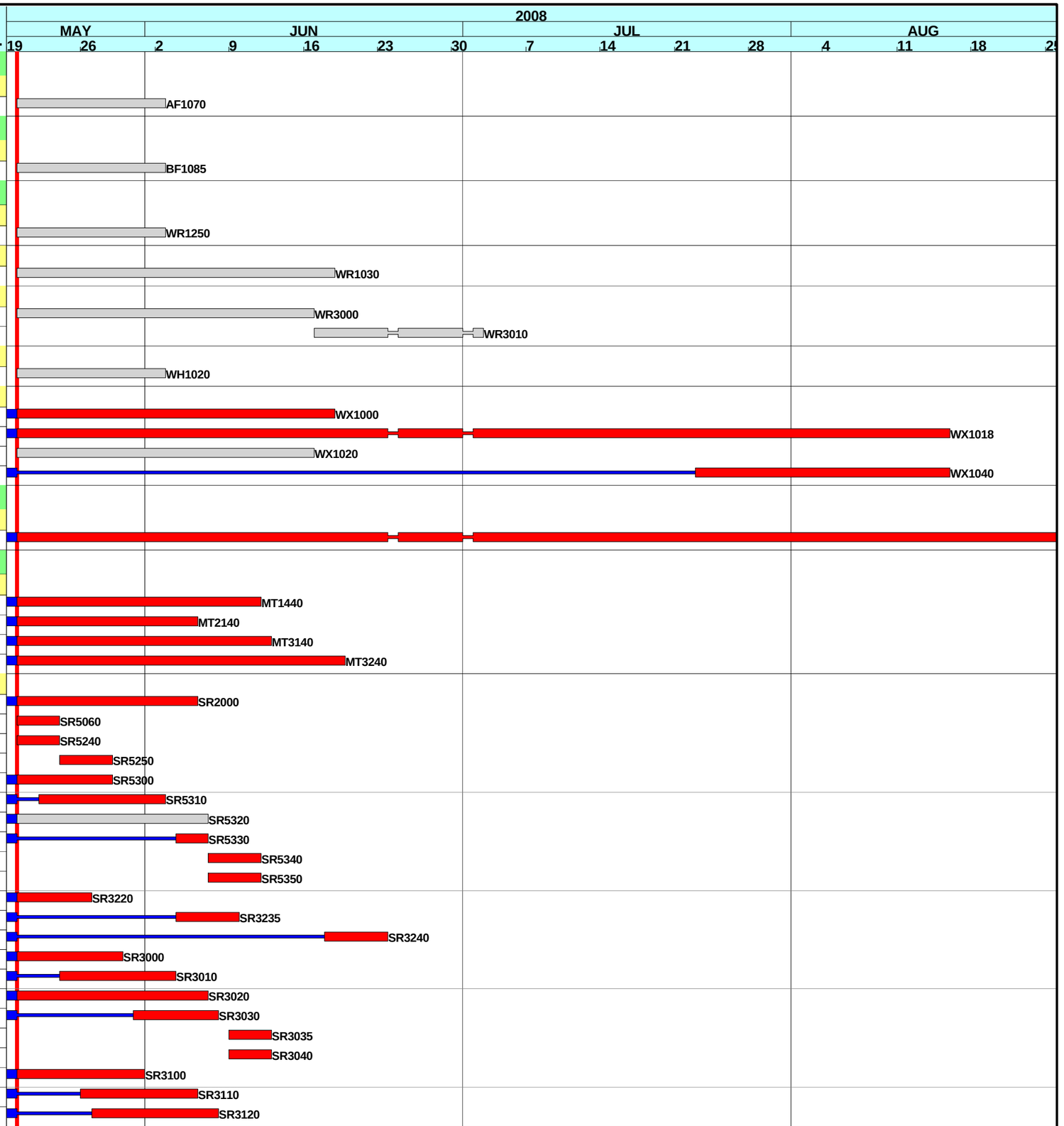
Start Date 23SEP03
Finish Date 21OCT09
Data Date 20MAY08

© Primavera Systems, Inc.

Highways Department Contract No. HY/2003/01
Route 8 - Lai Chi Kok Viaduct
3 Month Rolling Programme
from 21 May 2008

acciona Infraestructuras

Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	% Compl.	Rem .Durn.
Viaduct - Slip Road A						
Remaining Superstructure Finishing Works						
AF1070	Slip Rd. A - Viaduct Road Lighting (by Others)	12	20MAY08	02JUN08	0	12
Viaduct - Slip Road B						
Remaining Superstructure Finishing Works						
BF1085	Slip Rd. B - Viaduct Road Lighting (by Others)	12	20MAY08	02JUN08	0	12
At Grade Works - Lai Po Road						
Lai Po Road (D3) Roadworks - Stage 1						
WR1250	Lai Po Rd N/B Ch.1+250-1+360 -Utilities NOT USED	12	20MAY08	02JUN08	0	12
Lai Po Road (D3) Roadworks - Stage 4						
WR1030	Lai Po Rd N/B Ch0+946-1+250-Utilities (NOT USED)	26	20MAY08	18JUN08	0	26
High Mast Lighting (NOT USED)						
WR3000	H/M Lighting (3 No. Mast) - Found's (NOT USED)	24	20MAY08	16JUN08	0	24
WR3010	H/MLighting (3 No. Mast) -Erect Masts (NOT USED)	12	17JUN08	02JUL08	0	12
Lai Po Road Fire Hydrant Pump House						
WH1020	Lai Po Rd. F/H P/House -Waterproofing (NOT USED)	12	20MAY08	02JUN08	0	12
Landscape Works						
WX1000	Landscaping - Earthworks & Formation	140	10NOV07A	18JUN08	80	26
WX1018	Landscaping - Paving	120	14NOV07A	15AUG08	38	74
WX1020	Landscaping Irrigation System (NOT USED)	24	20MAY08	16JUN08	0	24
WX1040	Landscaping - Planting	24	04JAN08A	15AUG08	15	21
Viaduct - Main Line - Piers P7 to P10						
Remaining Superstructure Finishing Works						
MF2091	P7 to P10 - Landscape Establish Works on Viaduct	301	22FEB08A	20FEB09	24	228
At Grade Works - Lai Chi Kok Interchange						
Temporary Traffic Management Schemes						
MT1440	3rd. TTMS Butterfly Valley Rd - Implementation	309*	03JUN07A	11JUN08	0	20*
MT2140	TTMS for Pier P8/L - Implementation	1,291*	23FEB04A	05JUN08	29	15*
MT3140	2nd. TTMS Kom Tsun Street - Implementation	219*	20SEP07A	12JUN08	0	21*
MT3240	3rd. TTMS Kom Tsun Street - Implementation	46*	26APR08A	19JUN08	0	27*
Utilities & Roadworks						
SR2000	Castle Peak Road - Roadworks Reinstatement	17	06MAR08A	05JUN08	12	15
SR5060	Butterfly V. Rd (LCKI) Stage 1 - Road Marking	4	20MAY08	23MAY08	0	4
SR5240	Butterfly V. Rd (LCKI) Stage 2 - Street Lighting	4	20MAY08	23MAY08	0	4
SR5250	Butterfly V. Rd (LCKI) Stage 2 - Road Marking	4	24MAY08	28MAY08	0	4
SR5300	Butterfly V. Rd (LCKI) Stage4-Excav. & Formation	18	26DEC07A	28MAY08	55	8
SR5310	Butterfly V. Rd (LCKI) Stage 4 - Sub-base	18	28DEC07A	02JUN08	50	10
SR5320	Butterfly V. Rd (LCKI) Stage 4 - Kerbs	18	03MAR08A	06JUN08	10	16
SR5330	Butterfly V. Rd (LCKI) Stage 4 - Pavement	6	03JAN08A	06JUN08	45	3
SR5340	Butterfly V. Rd (LCKI) Stage 4 - Street Lighting	4	07JUN08	11JUN08	0	4
SR5350	Butterfly V. Rd (LCKI) Stage 4 - Road Marking	4	07JUN08	11JUN08	0	4
SR3220	Kom Tsun Street Bus Stn. - Kerbs	24	20DEC07A	26MAY08	30	6
SR3235	Kom Tsun Street Bus Stn. - Street Lighting	6	21APR08A	09JUN08	20	5
SR3240	Kom Tsun Street Bus Stn. - Road Marking & Signs	6	25APR08A	23JUN08	10	5
SR3000	Kom Tsun Street L/H C/Way - Excavate & Formation	12	20SEP07A	29MAY08	25	9
SR3010	Kom Tsun Street L/H C/Way - Sub-base	12	24SEP07A	03JUN08	25	9
SR3020	Kom Tsun Street L/H C/Way - Kerbs	18	04MAR08A	06JUN08	10	16
SR3030	Kom Tsun Street L/H C/Way - Pavement	8	27SEP07A	07JUN08	20	7
SR3035	Kom Tsun Street L/H C/Way - Street Lighting	4	09JUN08	12JUN08	0	4
SR3040	Kom Tsun Street L/H C/Way - Road Marking	4	09JUN08	12JUN08	0	4
SR3100	Kom Tsun Street R/H C/Way - Excavate & Formation	12	26APR08A	31MAY08	20	11
SR3110	Kom Tsun Street R/H C/Way - Sub-base	12	29APR08A	05JUN08	20	10
SR3120	Kom Tsun Street R/H C/Way - Kerbs	12	05MAY08A	07JUN08	5	11



Start Date 23SEP03
Finish Date 21OCT09
Data Date 20MAY08

© Primavera Systems, Inc.

P3 File : LU56

Highways Department Contract No. HY/2003/01
Route 8 - Lai Chi Kok Viaduct
3 Month Rolling Programme
from 21 May 2008

acciona Infraestructuras

Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	% Compl.	Rem .Durn.
SR3130	Kom Tsun Street R/H C/Way - Pavement	8	02MAY08A	07JUN08	10	7
SR3135	Kom Tsun Street R/H C/Way - Street Lighting	6	13JUN08	19JUN08	0	6
SR3140	Kom Tsun Street R/H C/Way - Road Marking & Signs	4	16JUN08	19JUN08	0	4
Landscape Works						
SX1010	Landscaping - Paving	50	27FEB08A	11JUN08	60	20
SX1040	Landscaping - Soiling & Planting	24	29MAY08	26JUN08	0	24
SX1100	Landscape Establishment Works	301	27JUN08	25JUN09	0	301
Viaduct - Main Line - Piers P11 to P15						
Remaining Superstructure Finishing Works						
MF3100	P11 to P16 - Landscape Establish W'ks on Viaduct	301	22FEB08A	20FEB09	24	228
At Grade Works - Wai Man Tsuen						
Earthworks & Slope Works						
VE1060	Slope CCR-S5-Slope Drainage&Finishes (NOT USED)	24	20MAY08	16JUN08	0	24
Earthworks & Slope Works - 11NW-A/C678 & CR679						
VE2025	Slope 11NW-A/C678&CR679-P/form for S.Nails (DEL)	3	20MAY08	22MAY08	0	3
VE2027	Slope 11NW-A/C678 & CR679 - Test Soil Nail (DEL.	6	23MAY08	29MAY08	0	6
VE2030	Slope 11NW-A/C678 & CR679 - Soil Nails (DEL.)	18	30MAY08	19JUN08	0	18
VE2000	Slope 11NW-A/C678&CR679-Remove T/Platform (DEL.)	6	20JUN08	27JUN08	0	6
VE2020	Slope 11NW-A/C678&CR679-Trim Orig. Slope (DEL.)	6	28JUN08	05JUL08	0	6
VE2050	Slope 11NW-A/C678&CR679-L/scape & H/seed (DEL.)	6	07JUL08	12JUL08	0	6
Drainage Works						
VA1100	B.V. Rd. Stage 4 - S/W Drainage (NOT USED)	0	20MAY08	19MAY08	0	0
Utilities & Roadworks						
VR3000	Drain. Maintenance Access Rd. - Formation (DEL.)	24	20MAY08	16JUN08	0	24
VR3010	Drain. Maintenance Access Rd. - Sub-base (DEL.)	24	20MAY08	16JUN08	0	24
VR3020	Drain. Maintenance Access Rd. - Kerbs (DEL.)	24	27MAY08	23JUN08	0	24
VR3030	Drain. Maintenance Access Rd. - Pavement (DEL.)	48	27MAY08	23JUL08	0	48
VR3040	Drain. Maintenance Access Rd-Street Lights (DEL)	12	20MAY08	02JUN08	0	12
VR2140	Butterfly V. Rd (WMT) Stage 3 - Street Lighting	4	08JAN08A	21MAY08	50	2
VR2150	Butterfly V. Rd (WMT) Stage 3 - Road Marking	4	20MAY08	23MAY08	0	4
VR2210	Butterfly V Rd (WMT) Stage 4-Sub-base (NOT USED)	12	07JAN08A	21MAY08	90	2
VR2230	Butterfly V. Rd (WMT) Stage 4-Pavement (NOT USED	6	20MAY08	26MAY08	0	6
VR2240	Butterfly V. Rd (WMT) Stage 4 - Street Lighting	4	08JAN08A	21MAY08	50	2
VR2250	Butterfly V. Rd (WMT) Stage 4 - Road Marking	4	20MAY08	23MAY08	0	4
Landscape Works						
VX1000	Landscaping - Earthworks & Formation (DEL.)	24	22DEC07A	13JUN08	15	22
VX1040	Landscaping - Soiling & Planting	24	20MAY08	16JUN08	0	24
VX1100	Landscape Establishment Works	300	17JUN08	13JUN09	0	300
Viaduct - Main Line - Piers P16 to P18						
Remaining Superstructure Finishing Works						
MF4100	P16 to P17 - Landscape Establish W'ks on Viaduct	301	22FEB08A	20FEB09	24	228
At Grade Works - Butterfly Valley						
Earthworks & Slope Works - 11NW-A/FR54 & F55						
QE2010	Slope 11NW-A/FR54 & FR55 - Install Temp Works	36	15OCT07A	29MAY08	75	9
QE2020	Slope 11NW-A/FR54 & FR55 - Excavate & Rockfill	36	15OCT07A	12JUL08	41	36
QE2030	Slope 11NW-A/FR54 & FR55 - Remove Temp. Works	18	21JUL08	09AUG08	0	18
Utilities & Roadworks						
QR1060	WSD Access Road - Permanent C/Way P16 to P19	36	11FEB08A	26JUL08	60	15
Viaduct - Slip Road C						
Remaining Superstructure Finishing Works						
CF1058	Slip Rd. C - Waterproofing of Deck (not used)	6	20MAY08	26MAY08	0	6

Start Date 23SEP03
Finish Date 21OCT09
Data Date 20MAY08

© Primavera Systems, Inc.

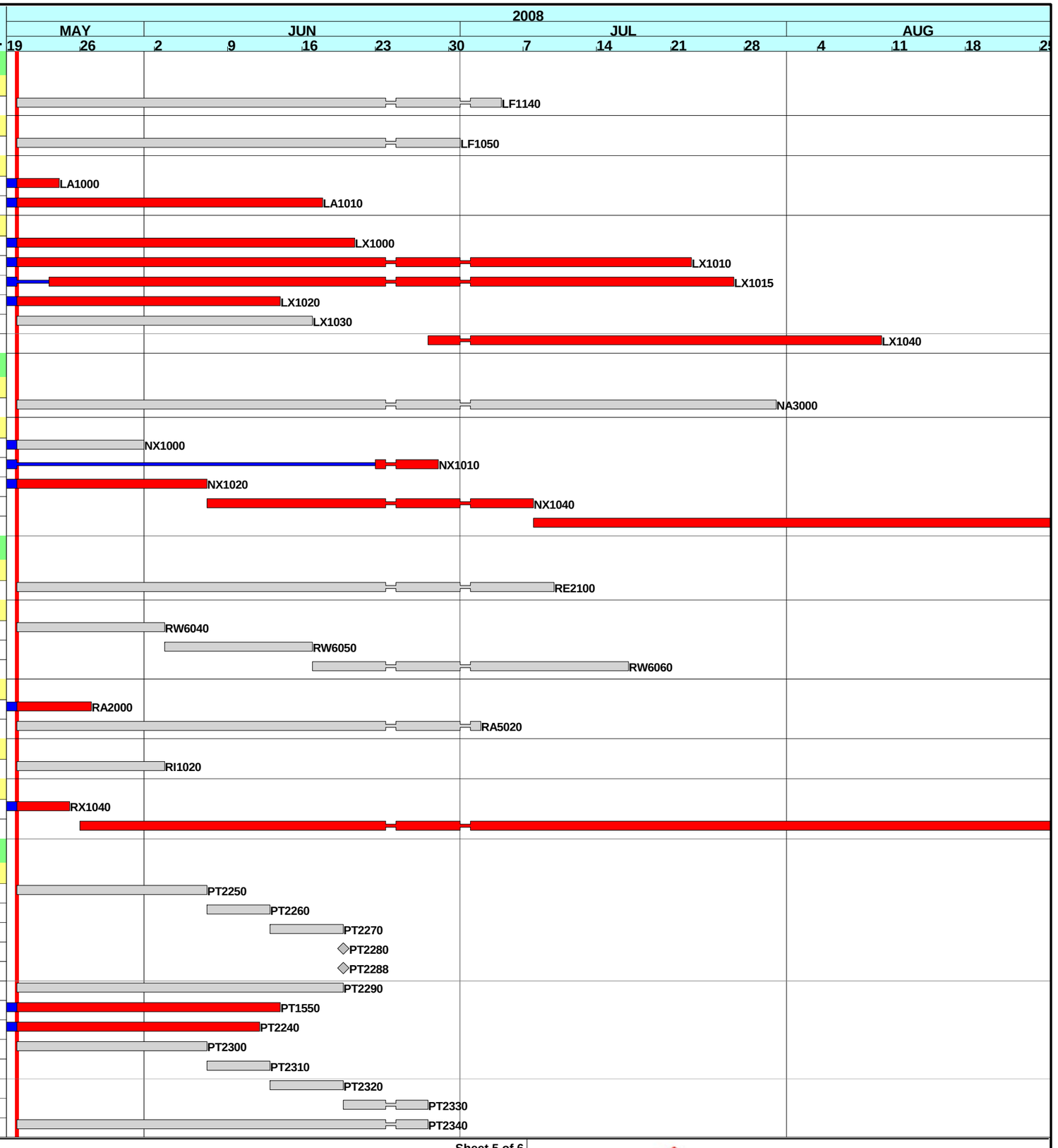
P3 File : LU56

Sheet 4 of 6

Highways Department Contract No. HY/2003/01
Route 8 - Lai Chi Kok Viaduct
3 Month Rolling Programme
from 21 May 2008

acciona Infraestructuras

Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	% Compl.	Rem .Durn.
Lai Wan Road Overpass						
West Bound - Superstructure Finishing Works						
LF1140	Lai Wan O/P W/B -Flange Stitch Connect NOT USED	38	20MAY08	04JUL08	0	38
East Bound - Superstructure Finishing Works						
LF1050	Lai Wan O/P E/B - Flange Stitch Connect NOT USED	35	20MAY08	30JUN08	0	35
Drainage Works						
LA1000	Area Under Overpass - Stormwater Drainage	48	28DEC07A	23MAY08	95	4
LA1010	Area Under Overpass - S/W Drainage in Lai Wan Rd	36	10APR08A	17JUN08	30	25
Landscape Works						
LX1000	Landscaping Under Overpass - Formation	36	03DEC07A	20JUN08	22	28
LX1010	Landscaping - Hardworks (Walls etc.)	70	10DEC07A	22JUL08	25	53
LX1015	Landscaping - Paving	60	08MAY08A	26JUL08	10	54
LX1020	Landscaping - Irrigation System	24	14APR08A	13JUN08	10	22
LX1030	Landscaping - Power Supply & Lighting (NOT USED)	24	20MAY08	16JUN08	0	24
LX1040	Landscaping Under Overpass - Soiling & Planting	36	28JUN08	09AUG08	0	36
At Grade Works - Ching Cheung Road at LCK Park						
Drainage Works						
NA3000	C.C. Rd. E/B in New C/way - not used	60	20MAY08	30JUL08	0	60
Landscape Works						
NX1000	Landscaping - Formation	18	07MAR08A	31MAY08	40	11
NX1010	Landscaping - Paving	50	11MAR08A	28JUN08	90	5
NX1020	Landscaping - Irrigation System	18	10APR08A	06JUN08	10	16
NX1040	Landscaping - Soiling & Planting	24	07JUN08	07JUL08	0	24
NX1100	Landscape Establishment Works	301	08JUL08	06JUL09	0	301
At Grade Work - Ching Cheung Road - Main Section						
Earthworks & Slope Works - CCR-S1, S2 & S3						
RE2100	Slope CCR-S2 - Drainage (NOT USED)	42	20MAY08	09JUL08	0	42
Ching Cheung Road NTMM Retaining Wall A						
RW6040	NNTM Wall A -Debris Coll' Area Drainage NOt USED	12	20MAY08	02JUN08	0	12
RW6050	NNTM Wall A -Debris Col Area Acces Ramp NOT USED	12	03JUN08	16JUN08	0	12
RW6060	NNTM Wall A - Debris Coll Area Finishes NOt USED	24	17JUN08	16JUL08	0	24
Utilities & Roadworks						
RA2000	Lai Wan Road - Footpath below Slope CCR-S4	24	14DEC07A	26MAY08	75	6
RA5020	Ching Cheung Rd. W/B Exist C/Way -Kerbs NOT USED	36	20MAY08	02JUL08	0	36
Lai Wan Overpass Irrigation Pump House						
RI1020	Lai Wan O/pass Irig P/H - Waterproofing NOT USED	12	20MAY08	02JUN08	0	12
Landscape Works						
RX1040	Landscaping - Soiling & Planting	48	29FEB08A	24MAY08	90	5
RX1100	Landscape Establishment Works	301	26MAY08	13APR09	0	266
At Grade Works - Butterfly Valley Interchange						
Temporary Traffic Management Schemes						
PT2250	TTMS CP Rd-KC N/B for CCR-R4 -Prepare (NOT USED)	16	20MAY08	06JUN08	0	16
PT2260	TTMS CP Rd-KC N/B for CCR-R4 - CRE End(NOT USED)	6	07JUN08	12JUN08	0	6
PT2270	TTMS CP Rd-KC N/B for CCR-R4 - R/A (NOT USED)	7	13JUN08	19JUN08	0	7
PT2280	TTMS CP Rd-KC S/B - Re-open Slip Road (NOT USED)	0		19JUN08	0	0
PT2288	TTMS CP Rd-KC N/B-Close Loop to CC Rd(NOT USED)	0		19JUN08	0	0
PT2290	TTMS CP Rd-KC N/B for CCR-R4 - Implem(NOT USED)	27	20MAY08	19JUN08	0	27
PT1550	TTMS CP Rd-KC S/B for CCR-R5 - Implementation	1,206*	11JUN04A	13JUN08	15	22*
PT2240	TTMS CP Rd-KC S/B for Paving - Implementation	124*	14JAN08A	11JUN08	0	20*
PT2300	TTMS CP Rd-KC N/B 11NW-A/C66-Prep Review (Del.)	16	20MAY08	06JUN08	0	16
PT2310	TTMS CP Rd-KC N/B 11NW-A/C66-CRE Endorse (Del.)	6	07JUN08	12JUN08	0	6
PT2320	TTMS CP Rd-KC N/B 11NW-AC66-Roadwk Advice (Del.)	7	13JUN08	19JUN08	0	7
PT2330	TTMS CP Rd-KC N/B 11NW-A/C66-Site Prepare (Del.)	6	20JUN08	27JUN08	0	6
PT2340	TTMS CP Rd-KC N/B 11NW-A/C66 - Implement (Del.)	33	20MAY08	27JUN08	0	33



Start Date 23SEP03
Finish Date 21OCT09
Data Date 20MAY08

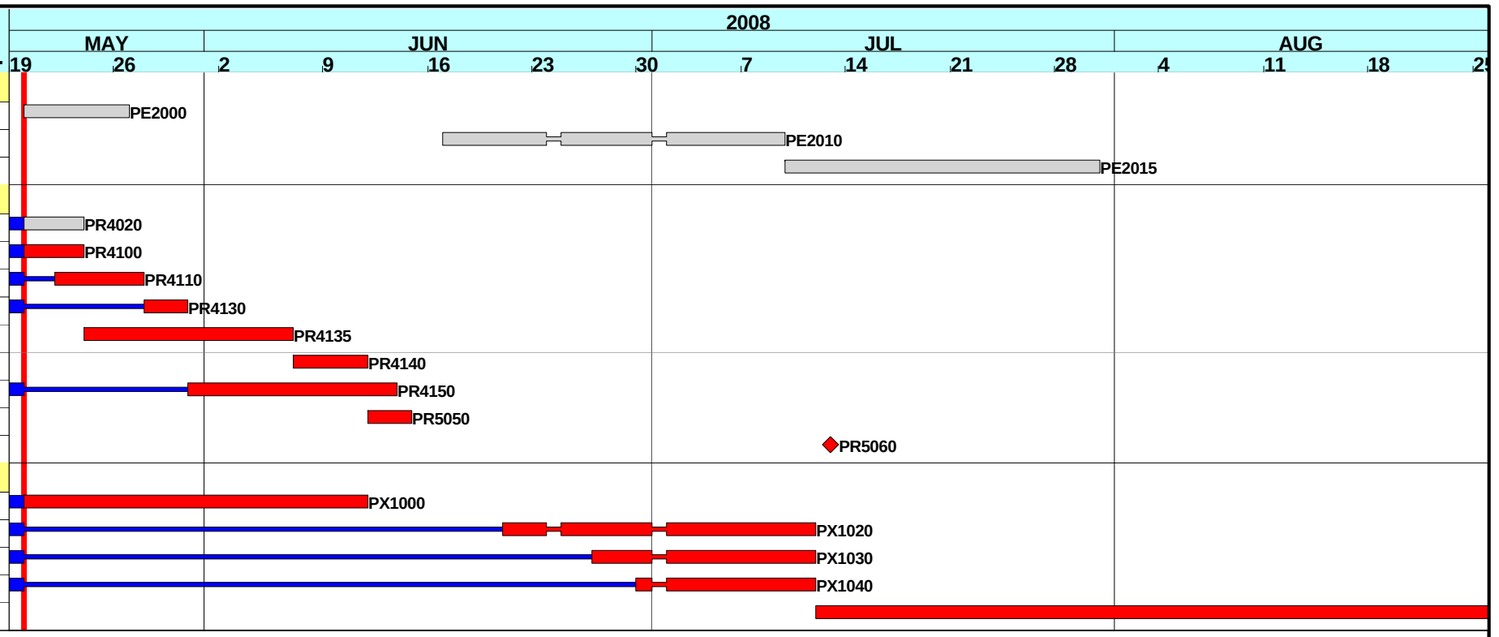
© Primavera Systems, Inc.

P3 File : LU56

Highways Department Contract No. HY/2003/01
Route 8 - Lai Chi Kok Viaduct
3 Month Rolling Programme
from 21 May 2008

acciona Infraestructuras

Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	% Compl.	Rem .Durn.
Earthworks & Slopeworks - 11NW-A/C66 (DELETED)						
PE2000	Slope 11NW-A/C66 - Hoardings / Fencing (Deleted)	6	20MAY08	26MAY08	0	6
PE2010	Slope 11NW-A/C66 - Trim Slope (Deleted)	18	17JUN08	09JUL08	0	18
PE2015	Slope 11NW-A/C66-Platform Soil Nailing (Deleted)	18	10JUL08	30JUL08	0	18
Utilities & Roadworks						
PR4020	C.P.Rd.-K.C. S/B L/H C/Way - Kerbs	6	31DEC07A	23MAY08	30	4
PR4100	C.P.Rd.-K.C. S/B R/H C/Way - Excavate & Format'n	9	14JAN08A	23MAY08	85	4
PR4110	C.P.Rd.-K.C. S/B R/H C/Way - Sub-base	9	24JAN08A	27MAY08	80	5
PR4130	C.P.Rd.-K.C. S/B R/H C/Way - Pavement	4	01FEB08A	30MAY08	75	3
PR4135	C.P.Rd.-K.C. S/B - Street Lighting	12	24MAY08	06JUN08	0	12
PR4140	C.P.Rd.-K.C. S/B - Road Markings & Signage	4	07JUN08	11JUN08	0	4
PR4150	Castle Peak Road - Reinstate Junction	29	26JUL07A	13JUN08	60	12
PR5050	C.P.Rd-K.C. S/B to C.C.Rd E/B - Rd Marks & Signs	3	12JUN08	14JUN08	0	3
PR5060	C.P.Rd-K.C. S/B to C.C.Rd E/B - Re-open Road	0		12JUL08	0	0
Landscape Works						
PX1000	Landscaping - Earthworks & Formation	30	19JAN08A	11JUN08	46	20
PX1020	Landscaping - Paving	30	22JAN08A	11JUL08	45	16
PX1030	Landscaping - Irrigation System	24	25FEB08A	11JUL08	50	12
PX1040	Landscaping - Soiling & Planting	24	29FEB08A	11JUL08	60	10
PX1100	Landscape Establishment Works	302	12JUL08	11JUL09	0	302



Start Date 23SEP03
Finish Date 21OCT09
Data Date 20MAY08

© Primavera Systems, Inc.

P3 File : LU56

Highways Department Contract No. HY/2003/01
Route 8 - Lai Chi Kok Viaduct
3 Month Rolling Programme
from 21 May 2008

acciona Infraestructuras

Activity Description	Orig Dur	Early Start	Early Finish	% Comp	Total Float
Schedule of Milestones (with Cost Centre)					
CC A-Preliminaries and General Requirements					
A1.16-1290 days after commencement of the Works	0				0
CC B-CCTV Camera & Associated Works in T3					
B.10-On completion of Operability Test	0		24-08	0	-176
CC C-Sha Tin Heights Tunnel Section and Road T3					
C.10-On completion of Operability Test	0		23-08	0	-287
CC D-Eagle's Nest Tunnel & Lai Chi Kok Viaduct					
D.10-On completion of Operability Test	0		23-08	0	-287
CC F-Emergency Telephone system					
F.16-On Completion of Operability Test (R8K)	0		23-08	0	-287
CC G-Integrated Tunnel Radio Rebroadcast system					
G.16-On Completion of Operability Test (R8K)	0		23-08	0	-287
CC H-Manual Fallback Control system					
H.16-On Completion of Operability Test (R8K)	0		23-08	0	-287
CC I-Operations and Maintenance Radio system					
I.16-On Completion of Operability Test (R8K)	0		23-08	0	-287
CC J-Communication System					
J.16-On Completion of Operability Test (R8K)	0		24-08	0	-287
CC K-Central System					
K.5-Accept FATs of all equip [cc K1~K5] (R8)	0		04-08	0	-278
K.16-On Completion of Operability Test (R8K)	0		24		-287
CC L-Electrical Installation			-08	0	-312
L.16-On Completion of Operability Test (R8K)	0		24-08	0	0
CC M-Speed Enforcement Camera system					-311
M.6-Complete order& delivery on Site [cc M](R8K)	0		29-08	0	137
M.8-Complete all installation of equip[ccM1](R8K	0		11		
M.12-Accept SATs for works [cc M1] (R8K)	0		02		-287
M.16-On Completion of Operability Test (R8K)	0		24		
CC N-Building PBX system, PSTN & Hotline			-08	0	-311
N.16-On Completion of Operability Test (R8K)	0		24-08	0	-287
CC P-Testing and Commissioning					
P.12-Accept SATs for works [cc P1~P2] (R8K)	0		02-08	0	1,100
P.16-On Completion of Operability Test (R8K)	0		24		1,100
Design Stage (excluding CSS)			-08	0	
Design Stage-Interface Documents			-08	0	0
Detailed Interface Document (DID)					-180
DID - NSCV, contract HY/2000/21(civil take lead)					-180
Prepare&Resubmit DID, NSCV Contract HY/2000/21	10	29-05-07A	19		0
Accept DID, NSCV Contract HY/2000/21 by Eng'r	28	20-02-08	18		0
DID - NWT & WTYV,contract HY/2001/16(civil t.l.)			-08	50	0
Accept DID, NWT Contract HY/2001/16 by Eng'r	28	01-03-08	28	0	1,114
DID - ETYV, contract HY/2004/02(civil take lead)					-116
Accept DID, ETYV Contract HY/2004/02 by Eng'r	28	01-03-08	28	0	-116
DID - SCB, contract HY/2002/26(civil take lead)			-08	70	
Accept DID, SCB Contract HY/2002/26 by Eng'r	28	01-03-08	28	0	-278
DID - ENT, contract HY/2003/02 (follow LKJV)			-08	95	
Accept DID, ENT Contract HY/2003/02 by Eng'r	28	05-03-08	01	0	-103
DID - Road T3, contract ST/79/02					
Prepare&Resubmit DID, Road T3 Contract ST79/02	10	15-10-05A	28	0	
Accept DID, Road T3 Contract ST79/02 by Eng'r	28	29-08-07A	28		
Design Stage-Speed Enforcement Camera(SEC)System			-08	0	
FSP of SEC System			-08	80	
Accept FSP of SEC by Engineer	28	03-01-08A	30		
Software Development					
Design Stage for Central TCSS System (CS)			-08A	100	
Detailed Design Stage of Central TCSS System(CS)					
DDR of Central TCSS System (CS)					
Accept SCOP by Engineer	28	20-02-08	19		
Procurement, Manufacture, FAT & Delivery					
Purchase,Manufacture & Deliver Central System			-08	0	
P.O.;Manufacture &Deliver Central System for R8K					
Install Software into Computers	14	20-10-06A	04		
Manufacture &Deliver Central System (CS) for R8T					
Material Delivery to Site for remaining R8T	30	20-02-08	20		
Install Software into Computers, remaining R8T	15	21-03-08	04	0	
FAT Procedure of CS for R8K&R8T			-08	0	
Submit & Approve FAT Report of CS for R8K & R8	14	23-06-06A	04	0	
Purchase,Manufacture & Deliver MFC System			-08	80	
Manufacture & Deliver MFC System for R8T					
Material Delivery to Site for MFC System, R8T	349*	08-03-07A	19		

Start Date	12-10-04
Finish Date	27-02-11
Data Date	20-02-08
Run Date	26-02-08 11:00
?Primavera Systems, Inc.	

Early Bar
Progress Bar
Critical Activity

0802

Delcan
Route
PR (February 2

2007: O, NOV, DEC
2008: JAN, FEB, MAR, APR, MAY, JUN

A1.16
B10
C10
D10
F16
G16
H16
I16
J16
K05
K16
L16
M06
M08
M12
M16
N16
P12
P16
DID001BJ
DID001BT
DID002BT
DID003BT
DID004BT
DID006BT
DID008BJ
DID008BT
CCM006FT
DR101-CS
P&M030CS
P&M050CS
P&M060CS
FAT070CS
CCH302SH

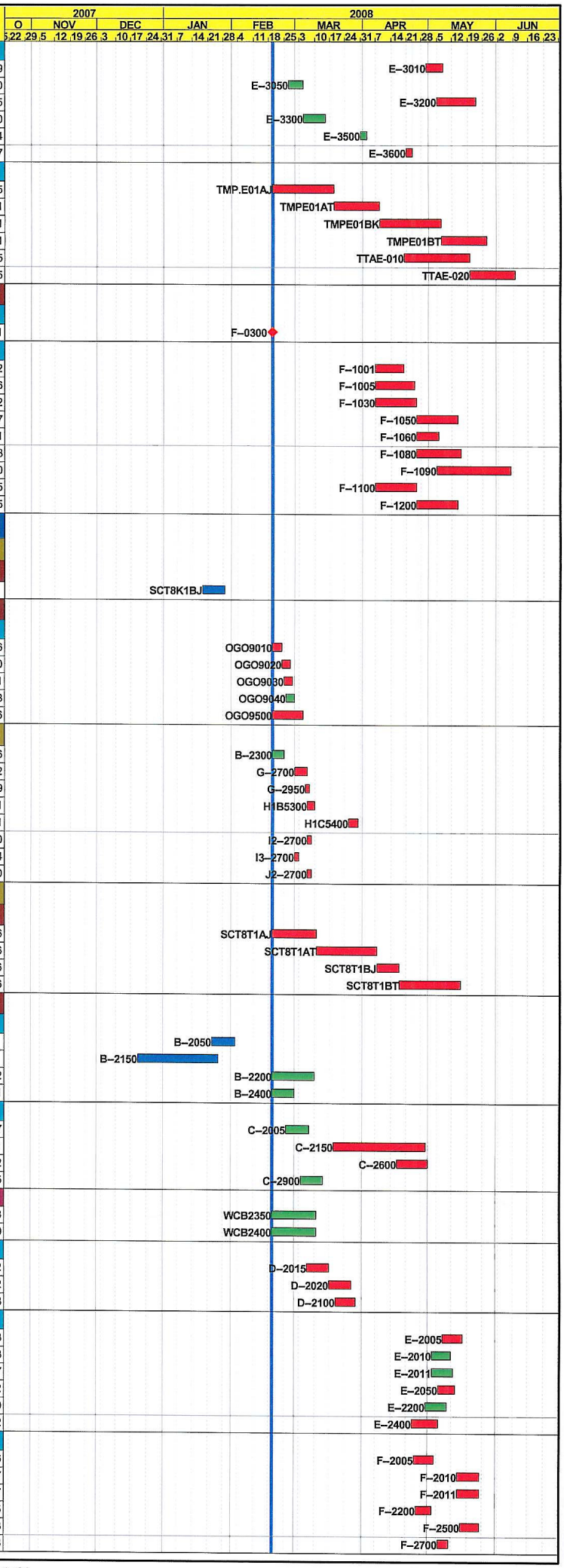
Sheet 1 of 6

ican-Imtech-GTECH JV
oute 8 TCS SYSTEM
ary 2008) - 3 month Rolling Prog.

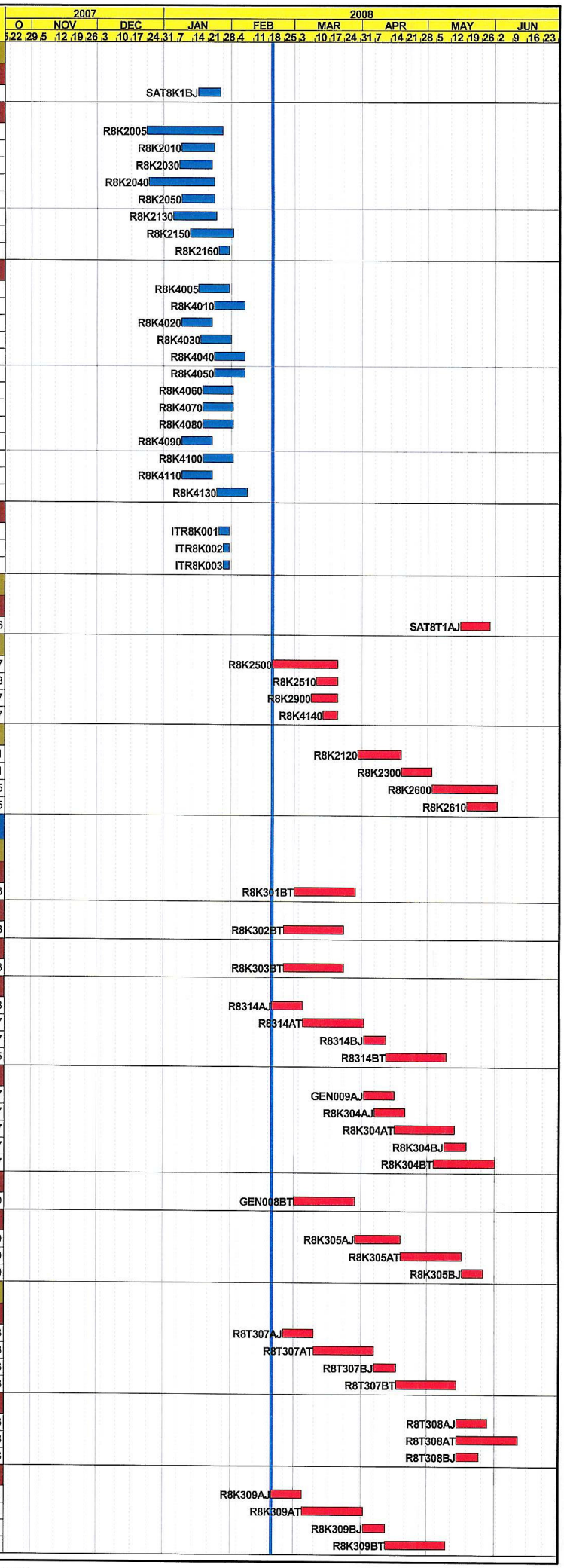
DIG 道易通聯營公司 DELCAN-IMTECH-GTECH JOINT VENTURE

Date	Revision	Checke	Approve

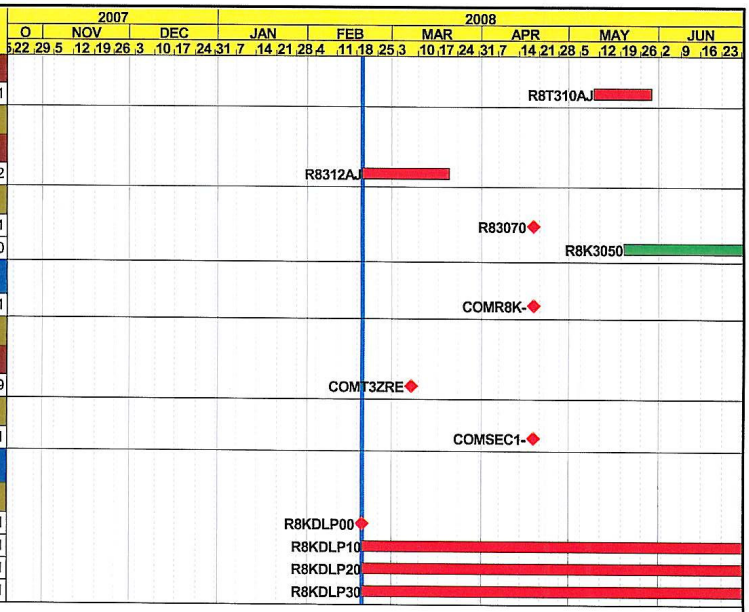
Activity Description	Orig Dur	Early Start	Early Finish	% Comp	Total Float
Installation in Existing Roads @Portion E					
Electrical Installation @Portion E	8	30-04-08	07-05-08	0	-19
Laying Backbone Cables @Portion E	7	27-02-08	04-03-08	0	20
Install Traffic Control Field Devices @Portion E	18	05-05-08	22-05-08	0	-35
Install COMMUNICATION SYSTEM @Portion E	10	05-03-08	14-03-08	0	20
Install CCTV System @Portion E	3	31-03-08	02-04-08	0	4
Install Vehicle Detector System @Portion E	3	21-04-08	23-04-08	0	-17
TTA in Existing Roads @Portion E					
Prepare & Submit TMCP to TMLG members, Portion E	28	20-02-08*	18-03-08	0	-135
Review & Comment TMCP by TMLG members, Portion E	21	19-03-08	08-04-08	0	-91
Prepare&Resubmit TMCP to TMLG members, Portion E	28	09-04-08	06-05-08	0	-91
Accept TMCP by TMLG members, Portion E	21	07-05-08	27-05-08	0	-91
Propose TIA,TTA measures in TMLG meeting, E	30	20-04-08	19-05-08	0	-135
Comment TIA,TTA measures by TMLG members, E	21	20-05-08	09-06-08	0	-135
Portion F - Stonecutters Bridge (SCB)					
Pre-Inspection of Civil Provisions @Portion F					
Site Access of Stonecutters Bridge (SCB)	0	20-02-08*		0	-11
Installaton @Portion F					
Install Cable Containment @Portion F	13	07-04-08	19-04-08	0	-42
Electrical Installation @Portion F	18	07-04-08	24-04-08	0	-26
Install TCSS Equipment Cabinet @Portion F	19	07-04-08	25-04-08	0	-42
Laying Backbone Cables @Portion F	19	26-04-08	14-05-08	0	-27
Install Operation Facilities @Portion F(Kiosk Z)	10	26-04-08	05-05-08	0	-21
Install COMMUNICATION SYSTEM @@Portion F	20	26-04-08	15-05-08	0	-38
Install Traffic Control Field Devices @Portion F	34	05-05-08	07-06-08	0	-70
Install CCTV System @Portion F	19	07-04-08	25-04-08	0	-25
Install Vehicle Detector System @Portion F	19	26-04-08	14-05-08	0	-25
Testing and Commissioning					
Site Commissioning Tests (SCT) @R8K					
SCT Procedure @R8K					
Prepare & Resubmit SCT Procedure for R8K	10	19-01-08A	28-01-08A	100	
Implement SCT @R8K					
Implement SCT @HyD,TD,HKPF Government Offices					
SCT of Communication Devices@HyD,TD,HKPF Office	4	20-02-08	23-02-08	0	-256
SCT of Computer Equipment @HyD,TD,HKPF Office	4	24-02-08	27-02-08	0	-260
SCT of Operation Facilities @HyD,TD,HKPF Office	4	25-02-08	28-02-08	0	-261
SCT of CCTV system @HyD,TD,HKPF Office	4	26-02-08	29-02-08	0	1,118
Submit&Approve SCT Result for HyD,TD,HKPF Office	14	20-02-08	04-03-08	0	-266
SCT of SEC system @R8K & Portion B					
SCT of SEC System @Portion B	5	20-02-08	24-02-08	0	76
SCT & Demostration of SEC System (Stage 1) @G	6	01-03-08	06-03-08	0	-312
SCT of SEC System (Stage 2) @Portion G	2	06-03-08	07-03-08	0	-289
SCT of Speed Enforcement Camera System @H1B	3	07-03-08	09-03-08	0	-291
SCT of Speed Enforcement Camera System @H1C	4	26-03-08	29-03-08	0	-311
SCT of Speed Enforcement Camera Sys.@Portion I2	2	07-03-08	08-03-08	0	-290
SCT of SEC Server & system (Stage 2)@R8K AB	2	01-03-08	02-03-08	0	-284
SCT of Speed Enforcement Camera Sys.@Portion J2	2	07-03-08	08-03-08	0	-290
Site Commissioning Tests @R8T					
SCT Procedure @R8T					
Prepare & Submit SCT Procedure for R8T	20	20-02-08*	10-03-08	0	-76
Review SCT Procedure for R8T by Engineer	28	11-03-08	07-04-08	0	-76
Prepare & Resubmit SCT Procedure for R8T	10	08-04-08	17-04-08	0	-76
Accept SCT Procedure for R8T by Engineer	28	18-04-08	15-05-08	0	-76
Implement SCT @R8T					
Implement SCT @Portion B					
SCT of CCTV System @Portion B	11	23-01-08A	02-02-08A	100	
SCT of Traffic Control Field Devices @Portion B	37	20-12-07A	25-01-08A	100	
SCT of Emergency Telephone System @Portion B	19	20-02-08	09-03-08	0	62
SCT of COMMUNICATION SYSTEM @@Portion B	10	20-02-08*	29-02-08	0	71
Implement SCT @Portion C					
SCT of Electrical Installation @Portion C	11	26-02-08	07-03-08	0	47
SCT of Traffic Control Field Devices @Portion C	42	19-03-08	29-04-08	0	-1
SCT of COMMUNICATION SYSTEM @@Portion C	14	17-04-08	30-04-08	0	-12
SCT of TCSS Equipment Cabinet @Portion C	10	04-03-08	13-03-08	0	35
Implement SCT @WCB					
SCT of PA System @WCB	20	20-02-08	10-03-08	0	63
SCT of PBX System @WCB	20	20-02-08*	10-03-08	0	49
Implement SCT @Portion D					
SCT of Backbone Cables @Portion D	10	07-03-08	16-03-08	0	-102
SCT of power & control cable @Portion D	10	17-03-08	26-03-08	0	-102
SCT of Vehicle Detector System @Portion D	9	20-03-08	28-03-08	0	-118
Implement SCT @Portion E					
SCT of Electrical Installation @Portion E	9	08-05-08	16-05-08	0	-18
SCT of Backbone Cables @Portion E	9	03-05-08	11-05-08	0	8
SCT of Power & control cable @ Portion E	10	03-05-08	12-05-08	0	17
SCT of CCTV System @Portion E	8	06-05-08	13-05-08	0	-2
SCT of TCSS Equipment Cabinet @Portion E	10	30-04-08	09-05-08	0	10
SCT of COMMUNICATION SYSTEM @Portion E	12	24-04-08	05-05-08	0	-2
Implement SCT @Portion F (with EOT)					
SCT of Electrical Installation @Portion F	9	25-04-08	03-05-08	0	-26
SCT of Backbone Cables @Portion F	10	15-05-08	24-05-08	0	-27
SCT of power & control cable @Portion F	10	15-05-08	24-05-08	0	-27
SCT of TCSS Equipment Cabinet @Portion F	7	26-04-08	02-05-08	0	-5
SCT of COMMUNICATION SYSTEM @@Portion F	9	16-05-08	24-05-08	0	-38
SCT of Operation Facilities @Portion F(Kiosk Z)	5	06-05-08	10-05-08	0	-13



Activity Description	Orig Dur	Early Start	Early Finish	% Comp	Total Float
System Acceptance Tests (SAT) @R8K					
SAT Procedure Document @R8K					
Prepare & Resubmit SAT Procedure for R8K	10	17-01-08A	26-01-08A	100	
Implement SAT @R8K					
Central System PointToPoint (Part1)	35	24-12-07A	27-01-08A	100	
SAT of MFC System @R8K	15	09-01-08A	23-01-08A	100	
SAT of CCTV System @R8K	15	08-01-08A	22-01-08A	100	
SAT of Traffic Control Devices @R8K	30	25-12-07A	23-01-08A	100	
SAT of Vehicle Detection System @R8K	15	09-01-08A	23-01-08A	100	
SAT of Electrical Installation @R8K	20	05-01-08A	24-01-08A	100	
Central System External Integation (Part2)	20	13-01-08A	01-02-08A	100	
Central System External Integation (Part3)	5	26-01-08A	30-01-08A	100	
SAT Result Document @R8K					
Submit &Approve SAT Result of Central System@R8K	14	17-01-08A	30-01-08A	100	
Submit &Approve SAT Result of MFC System @R8K	14	24-01-08A	06-02-08A	100	
Submit &Approve SAT Result of Comm.Sys. @R8K	14	09-01-08A	22-01-08A	100	
Submit &Approve SAT Result of CCTV System @R8K	14	18-01-08A	31-01-08A	100	
Submit &Approve SAT Result of TCD @R8K	14	24-01-08A	06-02-08A	100	
Submit &Approve SAT Result of VDS @R8K	14	24-01-08A	06-02-08A	100	
Submit &Approve SAT Result of PBX System @R8K	14	19-01-08A	01-02-08A	100	
Submit &Approve of Tunnel Radio Sys. @R8K	14	19-01-08A	01-02-08A	100	
Submit &Approve SAT Result of O&M Radio Sys.@R8K	14	19-01-08A	01-02-08A	100	
Submit &Approve SAT Result of ET System @R8K	14	09-01-08A	22-01-08A	100	
Submit &Approve SAT Result of PA System @R8K	14	19-01-08A	01-02-08A	100	
Submit&Approve SAT Result of Oper.Facilities@R8K	14	09-01-08A	22-01-08A	100	
Submit &Approve SAT Result of Elect.Install.@R8K	14	25-01-08A	07-02-08A	100	
Implement Interface Test with Others @R8K					
Interface Test with ENT Contractor for CMCS	5	26-01-08A	30-01-08A	100	
Interface Test with HKPF, HyD , TD & FSD	3	28-01-08A	30-01-08A	100	
Interface Test with R8K Toll System	3	28-01-08A	30-01-08A	100	
System Acceptance Tests @R8 (with EOT)					
SAT Procedure Document @R8T					
Prepare & Submit SAT Procedure for R8T	14	16-05-08*	29-05-08	0	-76
Operability Test (OPT) @R8K					
Implement Operability Test @ R8K	30	20-02-08	20-03-08	0	-287
Submit &Approve OPT Report @R8K	10	11-03-08	20-03-08	0	-268
Repeat SAT of VDS & Calibrate if required @R8K	12	09-03-08	20-03-08	0	-277
Submit &Approve re-SAT Result of VDS @R8K	7	14-03-08	20-03-08	0	-277
SAT & OPT for SEC system @R8K					
SAT of SEC System @R8K	20	30-03-08	18-04-08	0	-311
Submit &Approve SAT Result of SEC System @R8K	14	19-04-08	02-05-08	0	-311
Implement Operability Test of SEC system @R8K	30	03-05-08	01-06-08	0	-245
Submit & Approve OPT Report of SEC system @R8K	14	19-05-08	01-06-08	0	-245
Operation and Maintenance Documents & Training					
Documentation for R8K Opening					
System Description for R8					
Accept System description by Engineer	28	01-03-08	28-03-08	0	-213
Operation Manual for R8K					
Accept Operation Manual by Engineer	28	25-02-08	23-03-08	0	-208
System Administration Manual for R8K					
Accept System Administration Manual by Engineer	28	25-02-08	23-03-08	0	-208
Maintenance Plan for R8					
Prepare&SubmitDraftMaintenancePlan for R8K & R8T	14	20-02-08	04-03-08	0	-433
Review Maintenance Plan for R8K&R8T by Engineer	28	05-03-08	01-04-08	0	-277
Prepare&Re-submitMaintenancePlan for R8K&R8T	10	02-04-08	11-04-08	0	-277
Accept Maintenance Plan for R8K&R8T	28	12-04-08	09-05-08	0	-255
Maintenance & Services Manual for R8K					
Prepare Spares & Maintenance Tools List for R8K	14	02-04-08	15-04-08	0	-277
Prepare & Submit Maintenance Manual for R8K	14	07-04-08	20-04-08	0	-277
Review Maintenance Manual for R8K by Engineer	28	16-04-08	13-05-08	0	-277
Prepare & Re-submit Maintenance Manual for R8K	10	09-05-08	18-05-08	0	-277
Accept Maintenance Manual for R8K by Engineer	28	04-05-08	31-05-08	0	-277
Training Plan for R8K					
Accept Training Plan for R8K by Engineer	28	01-03-08	28-03-08	0	0
Training Material for R8K					
Prepare&Submit Training Material	21	29-03-08	18-04-08	0	0
Review Training Material for R8K by Engineer	28	19-04-08	16-05-08	0	0
Prepare&Re-submit Training Material	10	17-05-08	26-05-08	0	0
Documentation for R8 Opening					
Revised Operation Manual for R8					
Prepare&Submit Operation Manual for R8T	14	25-02-08*	09-03-08	0	-148
Review Operation Manual for R8T by Engineer	28	10-03-08	06-04-08	0	-148
Prepare&Re-submit Operation Manual for R8T	10	07-04-08	16-04-08	0	-148
Accept Operation Manual for R8T by Engineer	28	17-04-08	14-05-08	0	-148
Revised System Administration Manual for R8					
Prepare&Submit System Administration Manual, R8T	14	15-05-08	14-05-08	0	-148
Review System Administration Manual R8T by Eng'r	28	15-05-08	14-05-08	0	-148
Prepare&Re-submit System Administration Manual	10	15-05-08	24-05-08	0	-148
Training Plan for R8T Opening					
Prepare&Submit Training Plan for R8	14	20-02-08*	04-03-08	0	-41
Review Training Plan for R8 by Engineer	28	05-03-08	01-04-08	0	-41
Prepare&Resubmit Training Plan for R8	10	02-04-08	11-04-08	0	-41
Accept Training Plan for R8 by Engineer	28	12-04-08	09-05-08	0	-41



Activity Description	Orig Dur	Early Start	Early Finish	% Comp	Total Float
Training Material for R8T Opening					
Prepare&Submit Training Material for R8T	20	10-05-08	29-05-08	0	-41
Documentation during DLP					
As-built Documentation					
Submit As-built Drawings & Design Documents, R8K	30	20-02-08	20-03-08	0	-252
Training during Defects Liability Period					
Start of 3-day training w/s @3-month intervals	0	19-04-08		0	-111
Training for R8K-TCSS Field Hardware O&M	98	20-05-08	09-10-08	0	290
Completion Dates					
Overall Completion of R8K	0		18-04-08	0	-201
Early Road Opening Areas (to be advised)					
Early Road Opening Areas, R8K					
Road Opening Date of Remaining Section @Road T3	0		07-03-08*	0	-269
Section Completion of R8K					
Section 1 Completion (R8K Phase 1)	0		18-04-08	0	-311
Defects Liability Period (DLP) for Works					
DLP for R8K Work					
Start of 24-month DLP for R8K	0	20-02-08*		0	-111
Routine / Preventive Maintenance for R8K	761	20-02-08	21-03-10*	0	-111
Fault Maintenance for R8K	761	20-02-08	21-03-10*	0	-111
Central System Technical Support for R8K	761	20-02-08	21-03-10*	0	-111



APPENDIX C
MONITORING REQUIREMENTS

Appendix C - Environmental Impact Monitoring Requirements for Lai Chi Kok Viaduct

Type of Monitoring	Parameter	Frequency	Location	Measurement Conditions
Air Quality	1-hour TSP	3 times every 6 days	• AM2 (Lai Chi Kok Park Sports Centre)	• Rooftop facing the site area
	24-hour TSP	Once every 6 days		
Noise	L_{eq}, L_{90} & L_{10} at 30 minute intervals during (0700 to 1900 on normal weekdays)	Once per week	• NM2 (Lai Chi Kok Reception Centre) • NM3 (Lai Chi Kok Hospital) [(2)] • NM4 (Mei Foo Sun Chuen, Phase 5) • NM8a (M/F of Nob Hill) • NM8b (3/F of Nob Hill) • NM9 (Hoi Lai Estate)	• NM2 – Roadside (Façade measurement) • NM3 – Rooftop of Block L (Façade measurement) • NM4 – Rooftop of Block 9 (Façade measurement) • NM8a – M/F of Nob Hill (Façade measurement) • NM8b – 3/F of Nob Hill (Façade measurement) • NM9 – G/F of Hoi Fai House (Façade measurement)
	L_{eq}, L_{90} & L_{10} at 5 minute intervals during (1900 to 2300) [(1)]	Once per week (include 3 consecutive 5-min measurements)		
	L_{eq}, L_{90} & L_{10} at 5 minute intervals during (2300 to 0700 of next day) [(1)]	Once per week (include 3 consecutive 5-min measurements)		
	L_{eq}, L_{90} & L_{10} at 5 minute intervals during (0700 to 1900 on holidays) [(1)]	Once per week (include 3 consecutive 5-min measurements)		

[(1)] – Conduct noise monitoring only when construction work is carried out.

[(2)] – The Lai Chi Kok Hospital (NM3) was also found vacated and noise monitoring could not be conducted since January 05. EPD's approval for suspension of noise monitoring at this station was received on 15th March 2005.

APPENDIX D
ENVIRONMENTAL QUALITY PERFORMANCE (ACTION/LIMIT) LEVELS

Appendix D - 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

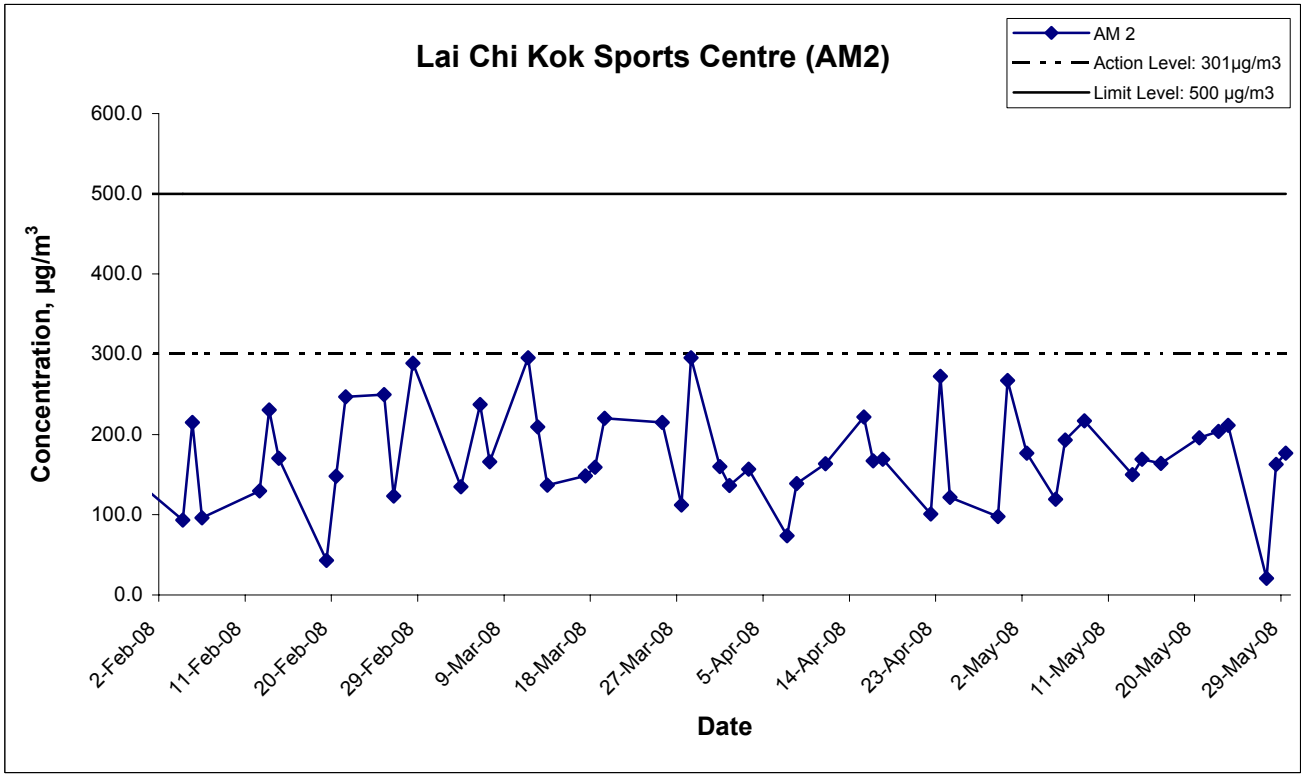
Construction Noise

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

(*) The Area Sensitivity Rating for the noise monitoring stations (NM3, 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.

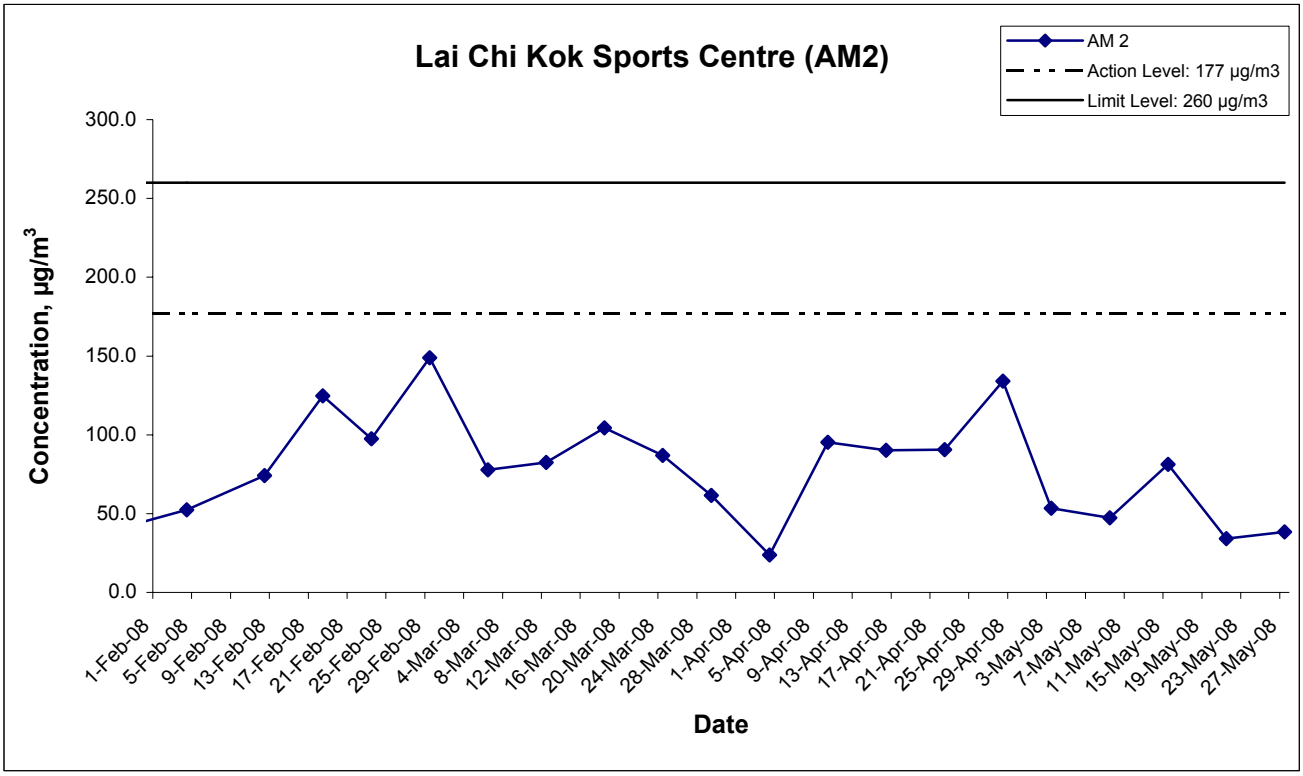
APPENDIX E
GRAPHICAL PRESENTATION OF AIR QUALITY MONITORING RESULTS

1-hr TSP Levels



Title: Route 8 (previously known as Route 9) between Cheung Sha Wan & Sha Tin Contract HY/2003/01 - Lai Chi Kok Viaduct Graphical Presentation of 1-hour TSP Impact Monitoring Results	Scale: N.T.S Date: May 08	Project No.: MA3024 Appendix: E	CINOTECH

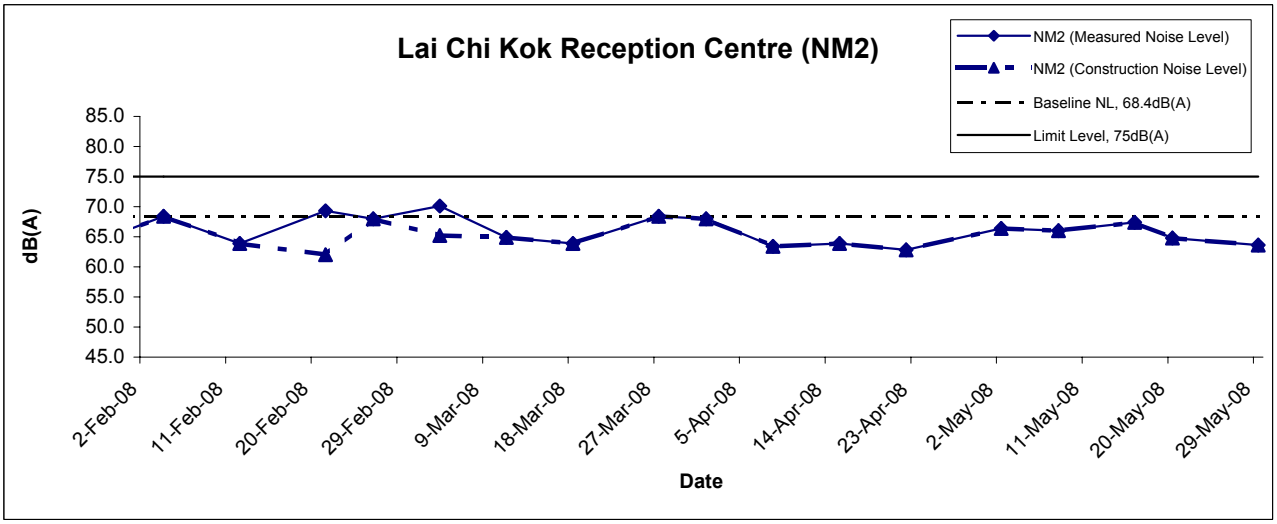
24-hr TSP Levels

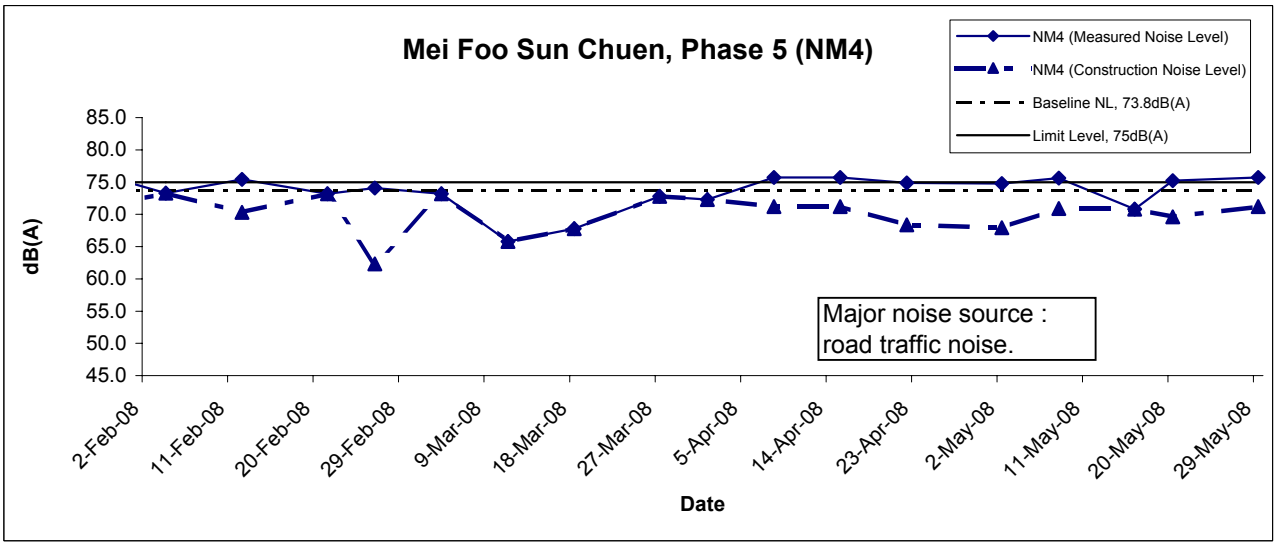


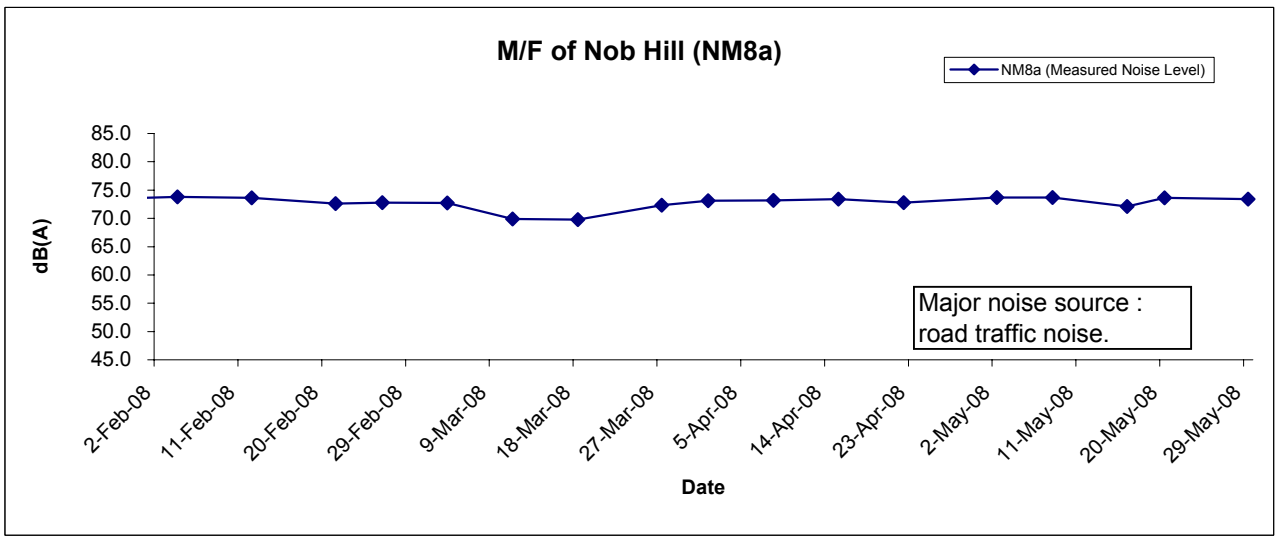
Title: Route 8 (previously known as Route 9) between Cheung Sha Wan & Sha Tin Contract HY/2003/01 - Lai Chi Kok Viaduct Graphical Presentation of 24-hour TSP Impact Monitoring Results	Scale: N.T.S Date: May 08	Project No.: MA3024 Appendix: E	CINOTECH

APPENDIX F
GRAPHICAL PRESENTATION OF NOISE MONITORING RESULTS

Noise Levels



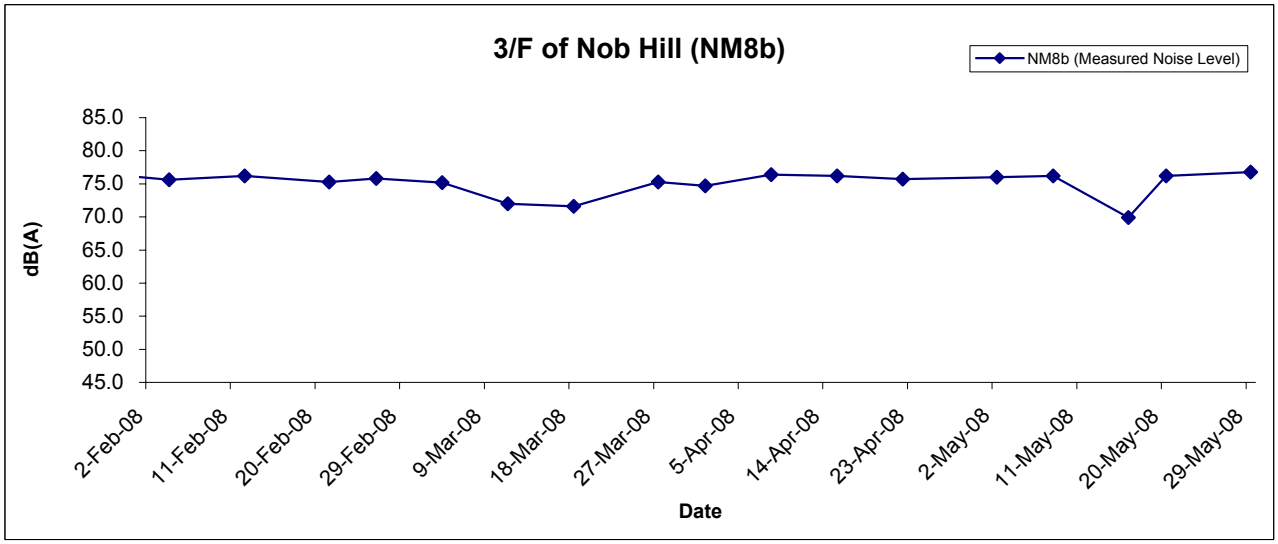


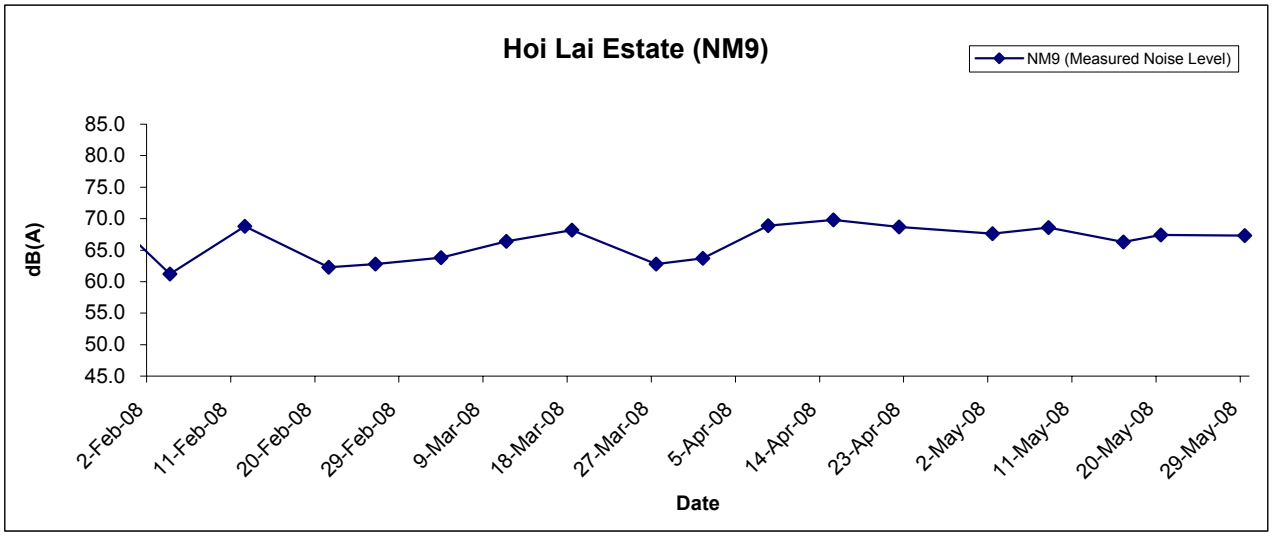


* Construction Noise Level = Measured Noise Level - Baseline Level
(If the measured noise level is lower than the baseline level, the construction noise level will be taken as the meaured one)

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

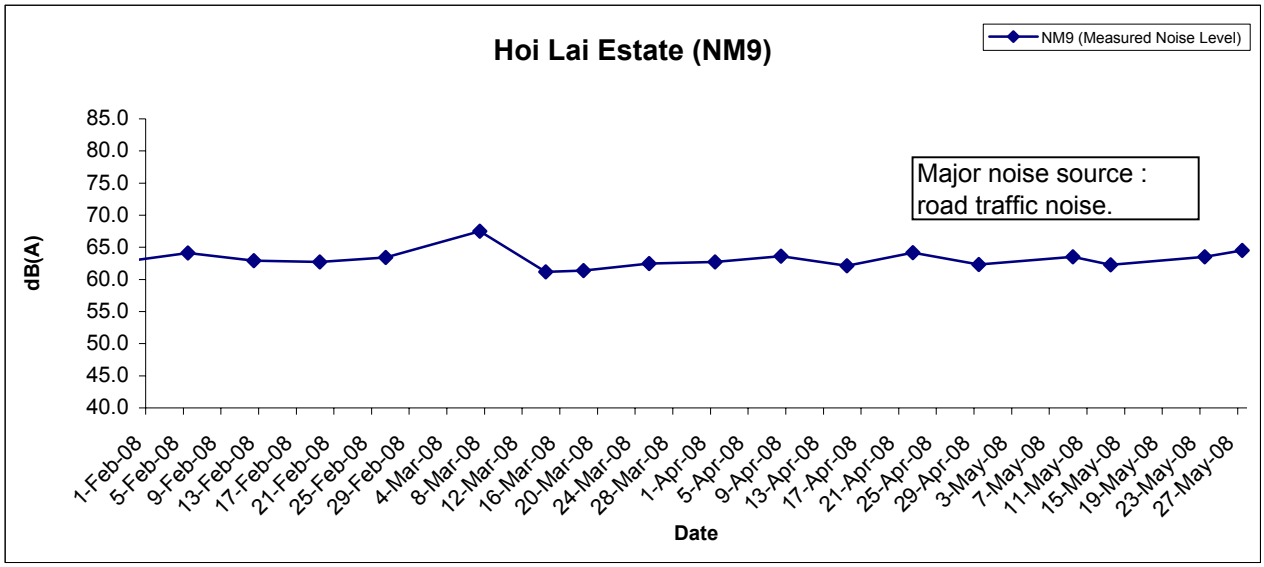
Noise Levels





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

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



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

APPENDIX G
IMPLEMENTATION SCEDULE OF ENVIRONMENTAL MITIGATION MEASURES (EMIS)

Appendix G - Summary of Environmental Mitigation Implementation Schedule

Types of Impacts	Mitigation Measures	Status
Construction Dust	• 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.	^
	• Every main haul road should be sprayed with water or a dust suppression chemical so as to maintain the entire road surface wet.	^
	• 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.	^
Construction Noise	• 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.	^
	• Mobile plant should be sited as far away from NSRs as possible.	^
	• 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	^

Types of Impacts	Mitigation Measures	Status
	• Reduce the number of plant operating in critical areas close NSRs.	^
	• Construct temporary and movable noise barriers	^
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.	^
	• 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	
	• 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

Types of Impacts	Mitigation Measures	Status
	• 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
	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.	^

Types of Impacts	Mitigation Measures	Status
	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	
	• 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. • 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.	^ N/A ^
	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: a. Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; b. Have a capacity of less than 450 litres unless the specifications have been approved by the EPD; c. Display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Chemical Waste Regulations. • The storage area for chemical wastes should: a. Be clearly labelled and used solely for the storage of chemical waste; b. Be enclosed on at least 3 sides; c. Have an impermeable floor and bunding of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is largest; d. Have adequate ventilation; e. Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed as chemical waste if necessary); f. Be arranged so that incompatible materials are adequately separated. • Disposal of chemical waste shall be via a licensed waste collector; and to a facility licensed to receive chemical waste; or a reuser of the waste (under approval from EPD).	^ ^ ^ ^
	General Refuse	

Types of Impacts	Mitigation Measures	Status
	• 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.	N/A
Ecology	• A sediment barrier shall be erected to minimize stream sedimentation at downstream of the project boundary of the Toll Plaza.	N/A
	• Conduct a tree survey before commencement of the construction work.	^
	• All measures recommended in the approved landscape proposals under Condition 2.4 in EP above shall be fully implemented in accordance with the details and time schedule set out in the submission.	N/A
	• Loss of the adjacent woodland due to temporary land take shall be returned to the original status immediately.	N/A
	• Wild and uncontrolled fire shall be strictly prohibited	^
	• Fences shall be erected along the boundary of the construction sites at the Toll Plaza before commencement of works, to prevent tipping, vehicle movements, and encroachment of personnel onto adjacent wooded areas.	N/A
Landscape and Visual Impact	• 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.	N/A
	• Landscape mitigation measure 2 (LMM2) – Advanced planting and erosion control works. Where possible, the transplantation of existing valuable trees, the stockpiling of topsoil, new planting and erosion control works shall be carried out as early as possible in the construction period instead of at the end. This will assist in maximizing the time for carrying out transplantation and new planting, resulting in a higher success rate for the survival of transplantation and new planting, resulting in a higher success rate for the survival of transplanted trees and the establishment of new screen trees. The stockpiling of topsoil will provide an abundant use of on-site material for growing media. During detailed design, the issue of stockpiling of topsoil in a manner that would avoid washing into the drainage scheme should be examined comprehensively.	N/A
	• Measurement of vibration would also be carried out on a need basis during the piling work	^

Remarks:

^	Compliance of mitigation measure;	X	Non-compliance of mitigation measure;
N/A	Not Applicable;	•	Non-compliance but rectified by the contractor

APPENDIX H
SUMMARY OF ENVIRONMENTAL LICENCES AND PERMITS

Appendix H - Summary of Environmental Licensing and Permit Status (LCKV)

Permit No.	Valid Period		Details	Status
	From	To		
Environmental Permit (EP)				
EP-103/2001/C	22/7/05	N/A	Construction and operation of (a) All civil works (including highways, traffic, geotechnical, drainage, structural, architectural and landscaping works) for the Lai Chi Kok Viaduct, the interchange with Ching Cheung Road, the main road within Butterfly Valley and the Eagle's Nest Tunnel; (b) All E&M works (including ventilation, Traffic Control & Surveillance System (TCSS), toll collection system and lighting) for the whole Route 9 between Cheung Sha Wan and Sha Tin; © The permanent slope works above the northern portal of the Eagle's Nest Tunnel; (d) The architectural works (including fitting out and furnishings) of the portal buildings of the Sha Tin Heights Tunnel.	Valid
Registration of Chemical Waste Producer				
WPN 5213-261-N2413-04	17/11/03	N/A	N/A	Valid
Water Discharge Lisence				
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 (CNP)				
GW-RW0323-07	30/06/07	28/12/07	*Location:* Ching Cheung Road section between Ching Lai Court and Castle Peak Road *Time Period:* 0700-2300 (general holiday including Sundays) and 1900-2300 (any day not being a general holiday).	Expired
GW-RW0329-07	08/07/07	02/12/07	*Location:* Ching Cheung Road near Mei Foo Sun Chuen,, Kowloon *Time Period:* 0900-1900 (general holiday including Sundays).	Expired
GW-RW0378-07	28/07/07	27/12/07	*Location:* Ching Cheung Road near Mei Foo Sun Cheun, Kowloon *Time Period:* 0700-2300 (general holiday including Sundays) and 1900-2300 (any day not being a general holiday).	Expired
GW-RW0409-07	19/08/07	30/12/08	*Location:* Ching Cheung Road section between Nob Hill and Castle Peak Road, Lai Chi Kok *Time Period:* 0900-1900 (general holiday including Sundays).	Expired
GW-RW0419-07	23/08/07	20/02/08	*Location:* Ching Cheung Road near Castle Peak Road, Kowloon *Time Period:* 0000-0600(any day not being a general holiday or not immediately following a general holiday including Sundays).	Expired
GW-RW0465-07	22/09/07	21/02/08	*Location:* Butterfly Valley Road, Lai Chi Kok, Kowloon *Time Period:* 1900-2300 (any day not being a general holiday) and 0700-2300 (General holidays including Sundays).	Expired
GW-RW0466-07	15/09/07	12/12/07	*Location:* Kom Tsun Street near Lai Chi Kok Reception Centre, Kowloon *Time Period:* 2300-2400 (any day not being a general holiday if the preceding day is a general holiday), 0000-0700 and 2300-2400(any day not being a general holiday if the preceding day is not a general holiday).	Expired
GW-RW0470-07	23/09/07	23/12/07	*Location:* Lai Po Road Near Hoi Lai Estate, Lai Chi Kok, Kowloon *Time Period:* 0900-1900 (general holidays including Sundays)	Expired

Permit No.	Valid Period		Details	Status
	From	To		
GW-RW0477-07	28/09/07	27/03/08	*Location:* Butterfly Valley, Lai Chi Kok, Kowloon *Time Period:* 0700-2300 (general holidays including Sundays) and 1900-2300(any day not being a general holiday).	Expired
GW-RW0478-07	30/09/07	29/03/08	*Location:* Junction of Ching Cheung Road and Castle Peak Road *Time Period:* 0700-2300 (general holidays including Sundays) and 1900-2300(any day not being a general holiday).	Expired
GW-RW0514-07	07/10/07	30/12/07	*Location:* Castle Peak Road near Ching Cheung Road, Kwai Chung, N.T. *Time Period:* 0700-2300 (general holidays including Sundays) and 1900-2300(any day not being a general holiday)	Expired
GW-RW0589-07	11/11/07	27/01/08	*Location:* Butterfly Valle Road near, Lai Chi Kok Reception Centre, Kowloon *Time Period:* 0900-1900 (general holidays including Sundays).	Expired
GW-RW0656-07	29/12/07	28/06/08	*Location:* Ching Cheung Road Section between Ching Lai Court and Castle Peak Road, Lai Chi Kok, Kowloon *Time Period:* 0700-2100 (general holidays including Sundays) and 1900-2300(any day not being a general holiday).	Valid
GW-RW0657-07	13/12/07	11/06/08	*Location:* Butterfly Valley Road Near Lai Chi Kok Reception Center, Kowloon. *Time Period: 23*00-2400 (general holidays including Sundays) and 0000-0700 and 2300-2400 (any day not being a general holiday).	Expired
GW-RW0658-07	12/12/07	11/06/08	*Location:* Lai Po Road near Sewage Pumping Station, Kowloon. *Time Period: 23*00-2400 (general holidays including Sundays) and 0000-0700 and 2300-2400 (any day not being a general holiday).	Expired
GW-RW0668-07	20/12/07	14/06/08	*Location:* Yuet Lun Street to Cheung Sha Wan Road, Kowloon. *Time Period: 23*00-2400 (general holidays including Sundays) and 0000-0700 and 2300-2400 (any day not being a general holiday).	Expired
GW-RW0669-07	21/12/07	18/06/08	*Location:* Ching Cheung Road near Mei Foo Sun Chuen, Lai Chi Kok, Kowloon. *Time Period: 00*00-0700 and 2300-2400 (any day not being a general holiday).	Expired
GW-RW0723-07	21/01/08	10/07/08	*Location:* Ching Cheung Road near Butterfly Valley Road, Lai Chi Kok, Kowloon. *Time Period:* 0000-0700 and 2300-2400 (any day not being a general holiday).	Valid
GW-RW0027-08	27/01/08	24/02/08	*Location:* Ching Cheung Road near Ching Lai Commercial Centre, Kowloon . *Time Period:* 0900-1900 (general holidays including Sundays).	Expired
GW-RW0041-08	06/02/08	05/08/08	*Location:* Lai Po Road near Hoi Lai Estate, Kowloon. *Time Period:* 00:00 - 24:00 (on general holidays including Sundays) and 00:00 - 07:00 & 19:00 - 24:00 (any day not being a general holiday)	Valid
GW-RW0077-08	22/02/08	21/08/08	*Location:* Butterfly Valley Road, Lai Chi Kok, Kowloon *Time Period:* 00:00 - 24:00 (on general holidays including Sundays) and 00:00 - 07:00 & 19:00 - 24:00 (any day not being a general holiday)	Valid
GW-RW0111-08	10/03/08	09/09/08	*Location:* Ching Cheung Road near Lai Chi Kok Park, Kowloon *Time Period:* 00:00 - 24:00 (on general holidays including Sundays) and 00:00 - 07:00 & 19:00 - 24:00 (any day not being a general holiday)	Valid
GW-RW0110-08	28/03/08	27/09/08	*Location:* Route 8, Butterfly Valley, Lai Chi Kok, Kowloon *Time Period:* 00:00 - 24:00 (on general holidays including Sundays) and 00:00 - 07:00 & 19:00 - 24:00 (any day not being a general holiday)	Valid

Permit No.	Valid Period		Details	Status
	From	To		
GW-RW0109-08	30/03/08	29/09/08	*Location:* Construction site at junction of Ching Cheung Road & Castle Peak Road, Kowloon *Time Period:* 00:00 - 24:00 (on general holidays including Sundays) and 00:00 - 07:00 & 19:00 - 24:00 (any day not being a general holiday)	Valid

APPENDIX I
COMPLAINT LOGS

Appendix I - Complaint Log

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
40318	Nob Hill	18 March 2004	Kwai Tsing District Officer (KTDO) recently received a public noise complaint about construction noise generated from the Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project, near Nob Hill, Lai Chi Kok. KTDO referred the complaint to the Highways Department (HyD) on the same day. HyD subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 18 March 2004. The complaint was raised by the Citybase Property Management Ltd. (the management company of Nob Hill) and the Secretarty of Nob Hill Owners Committee (Mr. Kevin Tse) about construction noise generated from the R8-LCKV Project at the work areas near Nob Hill. Mr. Kevin Tse mentioned that residents living in Nob Hill have greatly been affected by the noise impacts generating from the R8-LCKV construction works. He also requested relevant government departments to consider installing noise barrier along Ching Cheung Road and to work out possible measures to minimize the noise nuisances to the residents living in the vicinity.	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 pre-drilling (using one backhoe and occasionally one crane lorry) ▪ Item 4 – Excavate further to expose all underground utilities (using hand tools) ▪ Item 5 – Pre-drilling works (using one drilling rig) Considering the scale of work and the PMEs adopted, the ET believed that the construction noise impact at Nob Hill from the above construction activities of R8-LCKV was not significant. The bored piling work (Item 3) using one crawler crane and one oscillator was started on 19 March 2004, which was two days after the issue date of this complaint, so this activity was not considered in this report. According to the EM&A Manuals, Nob Hill was not selected as Noise Monitoring Location (NML) for the Project. Therefore, no direct noise monitoring data could be provided for the complaint investigation. However, there was no noise level exceedance recorded at the nearby NML (NM4 – Mei Foo Sun Chuen, Phase 5) since the commencement of the project according to ET's inventory. During ET's weekly environmental site inspections on 3, 10, 17 March 2004, no serious noise nuisance induced by the Project works was observed at the sites near Nob Hill. 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	Closed

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

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

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

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

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

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

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

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

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
50404 & 50407		& 7-Apr-05 (by ET Leader via RSS)	regarding the construction noise from the site area of the Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project near Wah Lai Estate. The complaints were referred by the Resident Site Staff to the Environmental Team (ET) Leader on 30th, 31st March, 4th and 7th April 2005, respectively.	The site of concern was likely to be Slope S1, which is around 140 m away from Wah Lai Estate. The major construction work at Slope S1 included trimming of slope, soil nail work and erection of u-channels and step channels. ***Environmental Monitoring*** Ad-hoc noise measurement was conducted at Seung Lai House on 30th Mar 05 and 7th 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 1st April 2005 regarding construction noise from the site area of the Route	***Construction Activities*** The site of concern was likely to Retaining Wall CC-R3,	Closed

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

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

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

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

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

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

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

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

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				transportation of precast segment by tractors. The Contractor has strictly complied with PME allowed in the CNP No. GW-RW0172-06. Besides, night work at the concerned location was completed. No further construction work at night at this location is anticipated.	
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 trees. Based on the information collected, the complaint is considered not justifiable. Since excavation for cut slopes and construction of slip road D are required at this area, tree cutting is unavoidable. Tree felling application was approved by DLO/KW.	Close

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

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

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				During the inspections, the construction activities at CCR-S4 included handheld breaking, excavation and rock breaking activities were carried out at CCR-S4. However, the temporary noise barriers were erected at the abovementioned location as same as RSS's mentioned. Noise measurement was carried out during the inspection to evaluate the noise impact onto the residents of Mei Foo Sun Chuen. The monitoring location was original monitoring location NM4 (Mei Foo Sun Chuen Phase 5). The measured monitoring results were close to the reference baseline level. After correction of the mean background level, the monitoring data were below the noise criterion of 75 dB(A). ***Conclusion*** Base on the information collection and the monitoring result, the complaint was considered not justifiable. The Contractor had implemented noise mitigation measures to minimize the noise impact. Besides, the monitoring result were below the noise criteria of 75dB(A). However, the Contractor was still reminded to continuously implement their practice to prevent noise nuisance generation from the construction works. The environmental conditions of the site will be continuously reviewed by the RSS and the ET.	
60626	Near Phase 5 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.	***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	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			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 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 and eventually reached the ET on 26 June 2006. The complaint was about the noise generated from rock excavation work from 9 a.m. to 6 p.m. at the area between Ching Cheung Road and Mei Lai Road (near Phase 5 of Mei Foo Sun Cheun). 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 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.	area will likely be completed by end of September 2006. ***Contractor Action*** The silent rock breaking equipment has been used and noise barriers were erected to minimize the noise impact generated from the breaking activity. ***Site Inspection and Environmental Monitoring*** 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. 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. 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) ***Conclusion*** This complaint was identical to the one received by the ET on 9 June 06 because the complainant addressed the complaint to the ICC through two different channels (by phone and by	

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

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

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

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

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

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				The environmental conditions of the site will be continuously reviewed by the RSS and the Environmental Team through site inspections and monitoring exercises.	
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 25th 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 25th October 2006. 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 20th October 2006 at Lai Chi Kok Road Flyover near PCCW building.	***Site Activities:*** According to RSS's record, installation of catchfan at Pier P5/L to P6 near PCCW was carried out at around 0115 to 0500 at both nights of 19th and 20th October 2006. The construction equipment used in both nights included one mobile crane, one crane lorry and one generator. ***Contractor Action*** According to RSS' record, acoustic material wrapping the head of chain blocks and hessian bags placing on ground around catchfans to suppress noise generation when hand tools were dropped onto ground. ***Environmental Monitoring*** An ad-hoc site observation and noise monitoring at Hoi Fai House of Hoi Lai Estate were conducted by the Contractor on 26th 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 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) 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.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				Nevertheless, the Contractor was reminded to take sufficient noise mitigation measures to minimize the environmental impact on the nearby community: • To strengthen management on worker's working manner, such as avoiding dropping materials on ground; • No hammering is allowed during restricted hours; and • To provide adequate training to workers working, esp. for night works. The environmental conditions of the site will be continuously 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 28th 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 3rd 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 28th 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.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				Nevertheless, the Contractor was reminded to take sufficient noise mitigation measures to minimize the environmental impact on the nearby community: As the general cleaning work could be carried out during normal working hours (i.e. 07:00 to 19:00hr) instead as the work was not critical. RSS would remind the Contractor to programme their works better in order to minimize nuisance to nearby residents. The environmental conditions of the site will be continuously reviewed by the Resident Site Staff and the Environmental Team.	
61121-1	Area near Lai Chi Kok Swimming Pool	21-Nov-06 (by ET Leader)	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint through telephone on 18th 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 21st 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.	***Site Activities*** According to RSS's record, rebar fixing, formwork erection, placing concrete and preparation work for construction joint were carried out at the concerned site during the period of 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 Monitoring*** During 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 influenced by road traffic noise from Ching Cheung Road. The measurement at this station is for reference purpose, but not for compliance check for construction noise. The noise monitoring results in the period between 1st and 21st November 2006 at the M/F of Nob Hill and at Mei Foo Sun Chuen, Phase 5 are all lower than or equal to the noise criterion	Closed

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

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

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

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

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

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

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

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

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				as breaking, excavation, loading and unloading of dusty materials • Cover long-term idle exposed slope surfaces and stockpiles with tarpaulin sheets; The environmental conditions of the site will be continuously reviewed by the RSS and the Environmental Team through site inspections and monitoring exercises.	
80121	Construction site near Nob Hill	21st January 2008 (by ET Leader)	The Resident Site Staff (RSS) received a verbal complaint from a Legislative Council member, Mr. Cheung, on 21 January 2008. The complaint was about the construction noise and dust generated from Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project near Nob Hill. The RSS subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on the same day The complaint was raised by a Legislative Council member, Mr. Cheung, via the RSS about the construction noise and dust nuisances generated near Nob Hill on 21st January 2008.	***Site Activities*** According to RSS's record, rock dowel installation for slope stabilization at CCR-S1 was commenced on 20 December 2007 and would likely last up to the 2 February 2008. ***Contractor Action*** As advised by the RSS, tarpaulin covering, water spraying and temporary noise absorbent materials were provided by the Contractor to suppress the dust and noise nuisance generated from the rock drilling works. Besides, the working hours was lie in between the normal working hours from 7am to 7pm ***Environmental Monitoring*** Weekly site inspection was performed by ET on 28th December 2007, 2nd, 9th, 16th, 23rd January 2008. A joint environmental site audit was also conducted on 2nd January 2008 with the representatives of IEC, RSS, the Contractor and ET. There was no non-compliance or observation with regard to noise and dust nuisance at the concerned site was recorded by the auditors during the site inspections carried out in December and January 2008. ***Review of Environmental Monitoring Results*** The routine monitoring stations, which are in the vicinity of the concerned works areas, include: <u>Noise Monitoring</u> NM8a: M/F of Nob Hill NM8b: 3/F of Nob Hill <u>Air Quality (1-hr TSP / 24-hr TSP) Monitoring</u> AM2: R/F of Lai Chi Kok Sports Centre	Closed

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

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

<table>
<tr><th>Log Ref.</th><th>Location</th><th>Received Date</th><th>Details of Complaint</th><th>Investigation/Mitigation Action</th><th>Status</th></tr>
<tr><td></td><td></td><td></td><td></td><td>However, according to the EM&A Manual of the Project, the criterion of construction noise in term of Leq-30min within this period is 75 dB(A) for domestic premises.

Stations NM8a and NM8b were newly 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.

The monitoring result for NM8a in the period between 3rd January 2007 and 26th February 2008 are summarized quarterly as below:

Table 1 – Noise Monitoring Results at NM8a, Nob Hill
<table>
<tr><td></td><td>Measured Noise Level, dB(A)</td><td></td><td>Date</td><td>Measured Noise Level, dB(A)</td></tr>
<tr><td>3-Jan-07</td><td>75.9</td><td></td><td>2-Oct-07</td><td>73.1</td></tr>
<tr><td>11-Jan-07</td><td>70.6</td><td></td><td>8-Oct-07</td><td>73.4</td></tr>
<tr><td>16-Jan-07</td><td>74.3</td><td></td><td>15-Oct-07</td><td>71.2</td></tr>
<tr><td>23-Jan-07</td><td>70.8</td><td></td><td>23-Oct-07</td><td>72.6</td></tr>
<tr><td></td><td></td><td></td><td>30-Oct-07</td><td>73.8</td></tr>
<tr><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>2-Apr-07</td><td>73.7</td><td></td><td>4-Jan-08</td><td>73.7</td></tr>
<tr><td>10-Apr-07</td><td>74.2</td><td></td><td>8-Jan-08</td><td>72.7</td></tr>
<tr><td>17-Apr-07</td><td>73.5</td><td></td><td>15-Jan-08</td><td>73.8</td></tr>
<tr><td>24-Apr-07</td><td>74.6</td><td></td><td>22-Jan-08</td><td>72.4</td></tr>
</table></td><td></td></tr>
</table>

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

3-Jul-07	71.9	4-Feb-08	73.8
10-Jul-07	73.8	12-Feb-08	73.6
17-Jul-07	74.7	21-Feb-08	72.6
23-Jul-07	73.8	26-Feb-08	72.8
30-Jul-07	72.5		

The results show that the measured noise levels were mostly below the criterion for daytime construction noise of 75 dB(A) and the high measured noise levels were mainly due to traffic noise instead of construction noise. No obvious increase of measured noise level was observed after the installation of the movement joints at Ching Cheung Road near Nob Hill.

Conclusion

Based on the RSS's information, environmental monitoring results as well as the observations made during site inspections, this complaint is considered to be invalid and not due to abnormal functioning of the movement joints of the Project.

It was because there was no obvious difference on the measured noise level before and after the installation of movement joints at the concerned area.

The noise nuisance should be only comparatively noisy due to the silent background at night instead of abnormal functioning of the movement joints.

Nevertheless, the Contractor was recommended to adopt good site practice to minimize the noise generated from the movement joints, such as:

- Check and maintain the movement joints regularly to ensure they are functioning well;
- Provide lubricant oil to the movement joints to minimize noise nuisance when necessary;

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

<table>
<tr><th>Log Ref.</th><th>Location</th><th>Received Date</th><th>Details of Complaint</th><th>Investigation/Mitigation Action</th><th>Status</th></tr>
<tr><td></td><td></td><td></td><td></td><td>March 2008 are summarized as below.

<u>Noise Monitoring Results at NM4 and NM8a</u>
<table>
<tr><th>Date</th><th>Measured Leq-30min, dB(A)</th><th></th><th>Date</th><th>Measured Leq-30min, dB(A)</th></tr>
<tr><td>4-Jan-08</td><td>72.7</td><td></td><td>4-Jan-08</td><td>73.7</td></tr>
<tr><td>8-Jan-08</td><td>70.6</td><td></td><td>8-Jan-08</td><td>72.7</td></tr>
<tr><td>15-Jan-08</td><td>70.3</td><td></td><td>15-Jan-08</td><td>73.8</td></tr>
<tr><td>22-Jan-08</td><td>63.6</td><td></td><td>22-Jan-08</td><td>72.4</td></tr>
<tr><td>29-Jan-08</td><td>71.5</td><td></td><td>29-Jan-08</td><td>73.5</td></tr>
<tr><td>4-Feb-08</td><td>73.3</td><td></td><td>4-Feb-08</td><td>73.8</td></tr>
<tr><td>12-Feb-08</td><td>70.3</td><td></td><td>12-Feb-08</td><td>73.6</td></tr>
<tr><td>21-Feb-08</td><td>73.2</td><td></td><td>21-Feb-08</td><td>72.6</td></tr>
<tr><td>26-Feb-08</td><td>62.3</td><td></td><td>26-Feb-08</td><td>72.8</td></tr>
<tr><td>4-Mar-08</td><td>73.2</td><td></td><td>4-Mar-08</td><td>72.7</td></tr>
<tr><td>11-Mar-08</td><td>65.8</td><td></td><td>11-Mar-08</td><td>69.9</td></tr>
<tr><td>18-Mar-08</td><td>67.8</td><td></td><td>18-Mar-08</td><td>69.8</td></tr>
<tr><td>27-Mar-08</td><td>72.8</td><td></td><td>27-Mar-08</td><td>72.3</td></tr>
</table>
There was no Action/Limit Level exceedance identified. Road traffic noise from Ching Cheung Road was identified as the major noise source in the morning at station NM4 and NM8a.

Conclusion
Based on the information collected and the monitoring results, the complaint was considered not justifiable as no Action/Limit Level exceedance on construction noise monitoring was</td><td></td></tr>
</table>

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

APPENDIX J
SUMMARY OF EXCEEDANCES

Summary of Exceedances Recorded in the Reporting Quarter

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

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

c) Exceedance Report for Construction Noise

- One Action Level exceedance for construction noise was recorded due to the noise complaints received on 11th April 2008. The details of complaint can refer to **Appendix I**.
- No Limit Level exceedance was recorded in the reporting quarter.