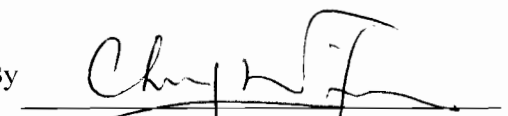
Highways Department

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)

June to August 2007

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.

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EXECUTIVE SUMMARY

This is the 15th 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 June and August 2007 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:

- Bulk excavation works at slope CCR-S4, LCK-R3 and CCR-R5;
- Retaining wall construction at CCR-R2 to CCR-R3 & CCR-R6 and LCK-R2 to LCK-R3;
- Slope upgrading works for Features No.11NW-A/FR54 & FR55;
- Drainage works at Lai Po Road;
- Offsite fabrication of top rail of parapet;
- Offsite fabrication of signage and noise barrier;
- Cast in-situ of slip roads C and D and Lai Wan Overpass;
- Erection of noise barrier at slip roads A, B C, D and Main Viaduct;
- Construction of Wai Man Tsuen pump house, Irrigation Pump House near pier C14, kiosk at CCR-S1 and Lai Po Road pump house Construction of Wai Man Tsuen
- Hydro-mulching, hydroseeding and tree planting for slope CCR-S1 & S3; and
- Roadwork at main viaduct, slip roads C & D, Lai Po Road, Butterfly Valley Interchange and Butterfly Valley Road

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

- Cable-laying & Termination at Sections A, B, C, D, E and F and Kiosk K2;
- TCSS Cabinet Installation at Sections A, B, C, D, E and F and Kiosk K2;
- Field Equipment Installation at Sections A, B, C, D, E, F and G and Kiosk K2;
- Equipment Cabinet Installation at Kiosk K2; and
- SCT and SAT at A, B, C, D, E, F and Kiosk K2.

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		
June 2007				
1-hr TSP	0	0	0	N/A
24-hr TSP	0	0	0	N/A
Noise	0	0	0	N/A
July 2007				
1-hr TSP	0	0	0	N/A
24-hr TSP	0	0	0	N/A
Noise	1	0	0	Complaint Investigation
August 2007				
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 23rd July 2007.

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	---
Changes to the assumptions and key construction / operation activities recorded	0	---	N/A	N/A	---
Status of submissions under EP	0	---	N/A	N/A	---
Notifications of any summons & prosecutions received	0	---	N/A	N/A	---

Future Key Issues:

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

- Bulk excavation works at slope CCR-S4 and LCK-R3;
- Retaining wall construction at CCR-R2 & CCR-R3 and LCK-R2 to LCK-R3;
- Slope upgrading works for Feature No. 11NW-A/FR 54 & A/FR55;
- Drainage works at Lai Po Road ;
- Offsite fabrication of top rail of parapet ;
- Cast in-situ of slip roads C & D and Lai Wan Overpass ;
- Erection of noise barrier and signage at slip roads A, B C, D and Main Viaduct ;
- Construction of Wai Man Tsuen pump house, Irrigation Pump House near pier C14, kiosk at CCR-S1 and Lai Po Road pump house ;
- Hydro-mulching and tree planting for slope CCR-S1 & S3 ;
- Roadwork at main viaduct, slip roads C & D, Lai Po Road, Butterfly Valley Interchange and Butterfly Valley Road

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

- Cable-laying & Termination at Sections A, B, C, D, E , F and Kiosk K2;
- Field Equipment Installation at Sections A, B, C, D, E, F and Kiosk K2; and
- SCT and SAT at A, B, C, D, E, F and Kiosk K2.

The anticipated environmental issues will be mainly on surface runoff during rainy season, dust impact from bulk excavation works and noise nuisance from construction of Wai Man Tsuen Pump House and Irrigation Pump House near Pier C14, kiosk at CCR-S1 and Lai Po Road pump house.

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 adit; associated noise barriers, noise enclosures, drainage, slope and landscape works; and electrical and mechanical works for the whole R9-CSWST. The remainder of the R9-CSWST forms the Sha Tin Section (R9S) of the project and is being managed and implemented separately by the Civil Engineering and Development Department (CEDD).

1.3 The R9-CSWST project is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 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/C was recently issued on 22 July 2005.

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

1.7 "Route 9" was recently re-titled as "Route 8 (previously known as Route 9)". Cinotech Consultants Limited (Cinotech) was commissioned by HyD to undertake the Environmental Monitoring and Audit works for "Route 8 (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. Kenneth LUK of CH2M HILL Hong Kong Ltd. was appointed as the IEC under Condition 2.1 of the EP. This is the 15th quarterly EM&A report summarizing the EM&A works for the LCKV Project between June and August 2007.

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:

- Bulk excavation works at slope CCR-S4, LCK-R3 and CCR-R5;
- Retaining wall construction at CCR-R2 to CCR-R3 & CCR-R6 and LCK-R2 to LCK-R3;
- Slope upgrading works for Features No.11NW-A/FR54 & FR55;
- Drainage works at Lai Po Road;
- Offsite fabrication of top rail of parapet;
- Offsite fabrication of signage and noise barrier;
- Cast in-situ of slip roads C and D and Lai Wan Overpass;
- Erection of noise barrier at slip roads A, B C, D and Main Viaduct;
- Construction of Wai Man Tsuen pump house, Irrigation Pump House near pier C14, kiosk at CCR-S1 and Lai Po Road pump house Construction of Wai Man Tsuen
- Hydro-mulching, hydroseeding and tree planting for slope CCR-S1 & S3; and
- Roadwork at main viaduct, slip roads C & D, Lai Po Road, Butterfly Valley Interchange and Butterfly Valley Road

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

- Cable-laying & Termination at Sections A, B, C, D, E and F and Kiosk K2;
- TCSS Cabinet Installation at Sections A, B, C, D, E and F and Kiosk K2;
- Field Equipment Installation at Sections A, B, C, D, E, F and G and Kiosk K2;
- Equipment Cabinet Installation at Kiosk K2; and
- SCT and SAT at A, B, C, D, E, F and Kiosk K2.

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 fine, sunny or cloudy. 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 June to August 2007. 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 and 1 Action Level exceedance was recorded in the reporting quarter due to noise nuisance complaint was received on 23rd July 2007.

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 June to August 2007. 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 6th, 12th, 20th and 27th June 2007, 4th, 11th, 18th and 25th July 2007, 2nd, 8th, 15th, 22nd and 29th August 2007.

5.3 The joint site audit for Civil works was conducted on 4th July 2007 and 2nd August 2007 and TCSS works was conducted on 3rd July 2007 and 2nd August 2007 with representatives from HyD, IEC, ER, the Contractor and ET.

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	4-July-07	*Observation* - Untreated site runoff flowing in the gully was observed near C13-C14. The Contractor was recommended to extend the hinterland diversion pipe or install geotextile at the gully.	Rectification / improvement was observed during the 11 July 07
	11-July-07	*Observation* - Accumulated mud was observed on the surface of road side near C13 - C14. The Contractor was reminded to clear the mud or install geotextile at the gully.	Rectification / improvement was observed during the 18 July 07
Air Quality	4-July-07	*Reminder* - Exposed slope was observed at Lai Po Road. The Contractor was recommended to cover it with tarpaulin sheet.	Rectification / improvement was observed during the site inspection on 11 July 07.
	2-August-07	*Reminder* - Worn sandbags were observed around the manhole near Nob Hill at C13-C14. The Contractor was reminded to replace them.	Rectification / improvement was observed during the site inspection on 8 August 07

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 and 1 Action Level exceedance was recorded in the reporting quarter due to noise nuisance complaint was received on 23rd July 2007

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. 70723 (Received on 23rd July 07)

7.2 The complaint was referred by RSS on 23rd July 2007. It was raised by a resident of Mei Foo Sun Chuen via the ICC about the noise generated from the construction works in Monday to Friday at the area near Mei Lai Road and Tong Nai Kan College. The complaint was considered unjustifiable and the complaint investigation report was submitted to HyD on 26th July 2007.

7.3 There were 38 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:

- Bulk excavation works at slope CCR-S4 and LCK-R3;
- Retaining wall construction at CCR-R2 & CCR-R3 and LCK-R2 to LCK-R3;
- Slope upgrading works for Feature No. 11NW-A/FR 54 & A/FR55;
- Drainage works at Lai Po Road ;
- Offsite fabrication of top rail of parapet ;
- Cast in-situ of slip roads C & D and Lai Wan Overpass ;
- Erection of noise barrier and signage at slip roads A, B C, D and Main Viaduct ;
- Construction of Wai Man Tsuen pump house, Irrigation Pump House near pier C14, kiosk at CCR-S1 and Lai Po Road pump house ;
- Hydro-mulching and tree planting for slope CCR-S1 & S3 ;
- Roadwork at main viaduct, slip roads C & D, Lai Po Road, Butterfly Valley Interchange and Butterfly Valley Road

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

- Cable-laying & Termination at Sections A, B, C, D, E , F and Kiosk K2;
- Field Equipment Installation at Sections A, B, C, D, E, F and Kiosk K2; and
- SCT and SAT at A, B, C, D, E, F and Kiosk K2.

9.3 The anticipated environmental issues will be mainly on surface runoff during rainy season, dust impact from bulk excavation works and noise nuisance from construction of Wai Man Tsuen Pump House and Irrigation Pump House near Pier C14, kiosk at CCR-S1 and Lai Po Road pump house.

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, such as rock dowel installation.
- To review the works sequence of site activities so as to reduce the number of noisy equipment in concurrent operation.
- To employ quiet powered mechanical equipment if possible.
- To ensure compliance of CNP conditions during restricted-hour works.

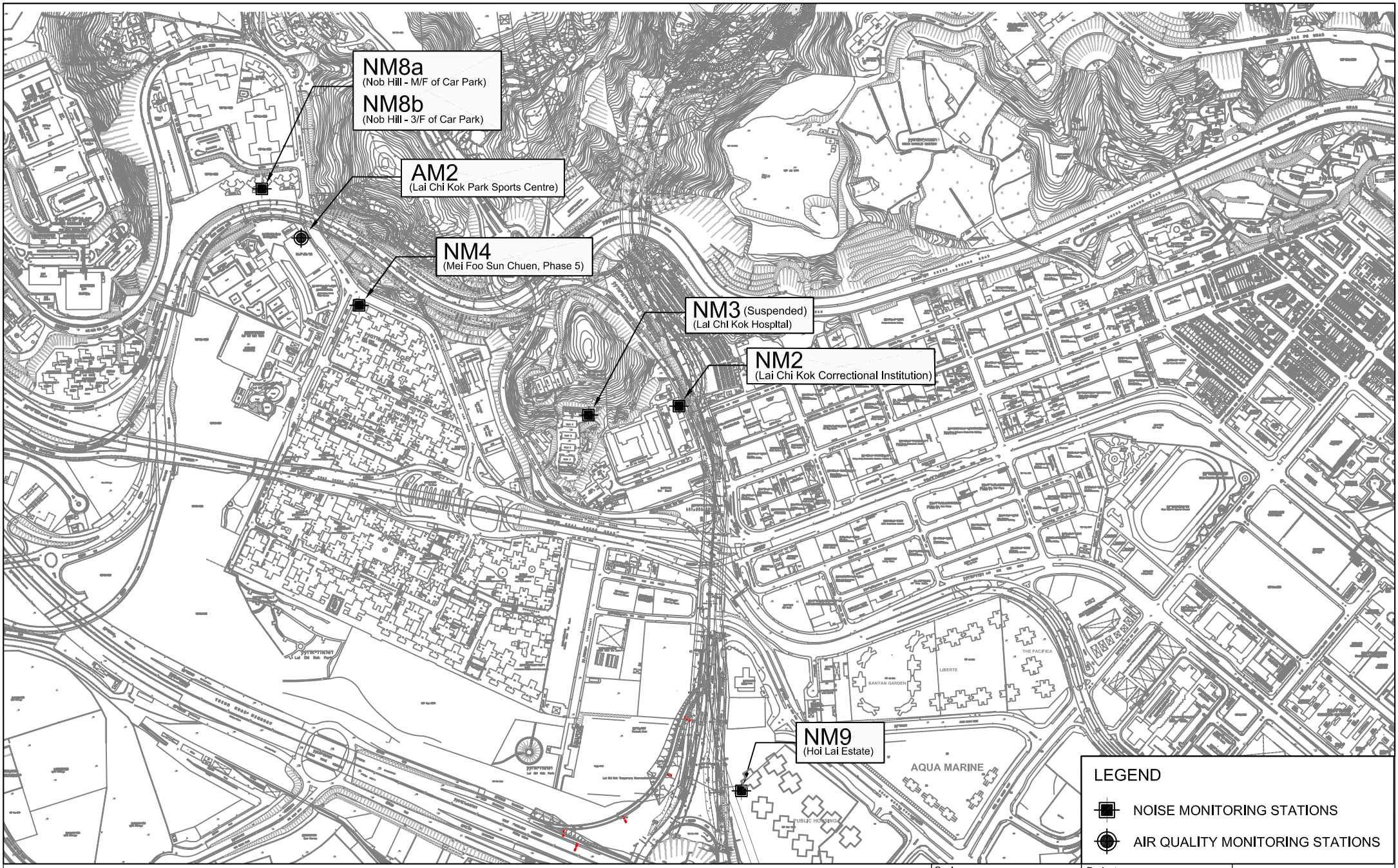
Dust Impact

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

Waste / Chemical Management

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

FIGURES



Title

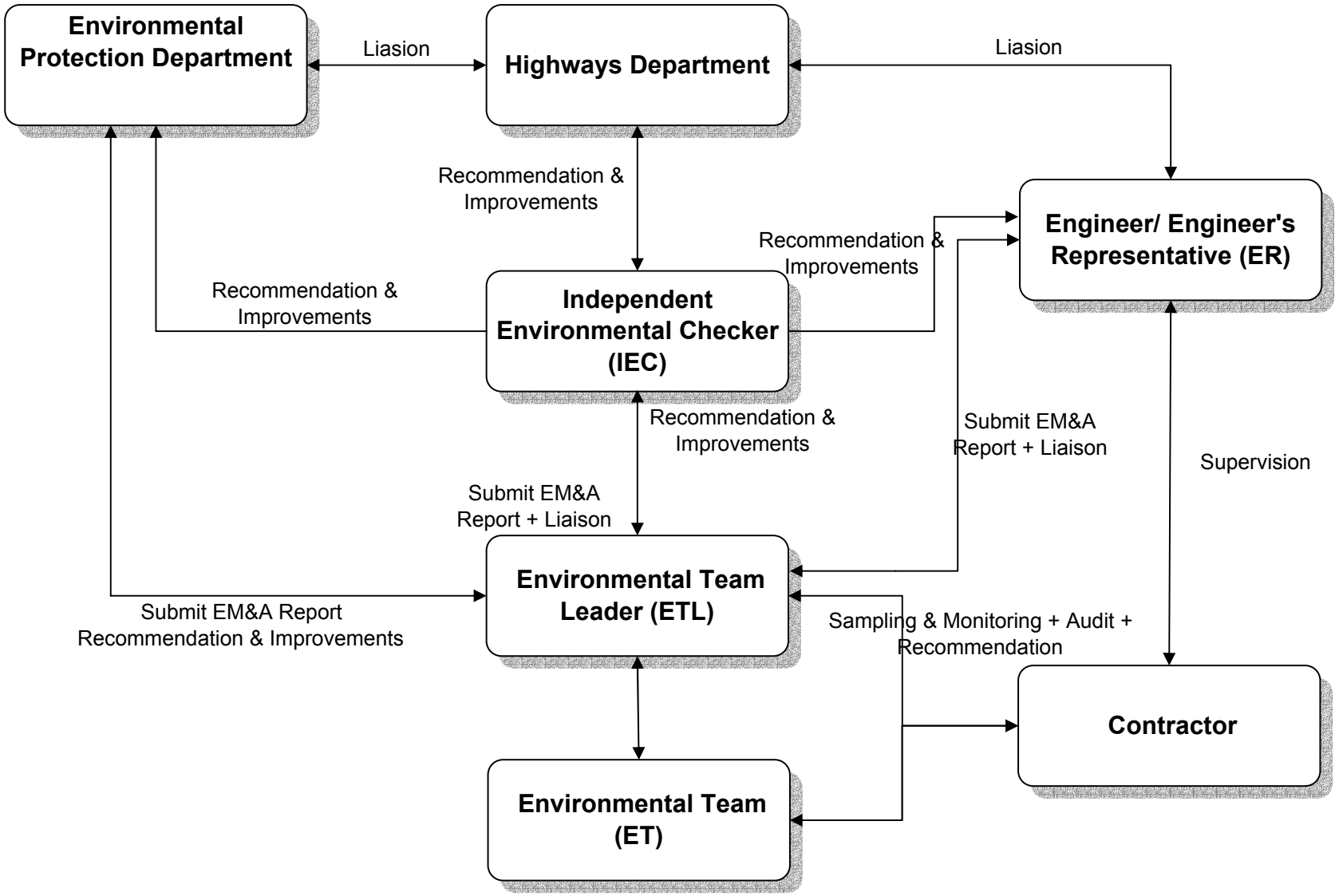
ROUTE 8 (PREVIOUSLY KNOWN AS ROUTE 9) BETWEEN CHEUNG SHA WAN AND SHA TIN
CONTRACT HY/2003/01 - LAI CHI KOK VIADUCT

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	

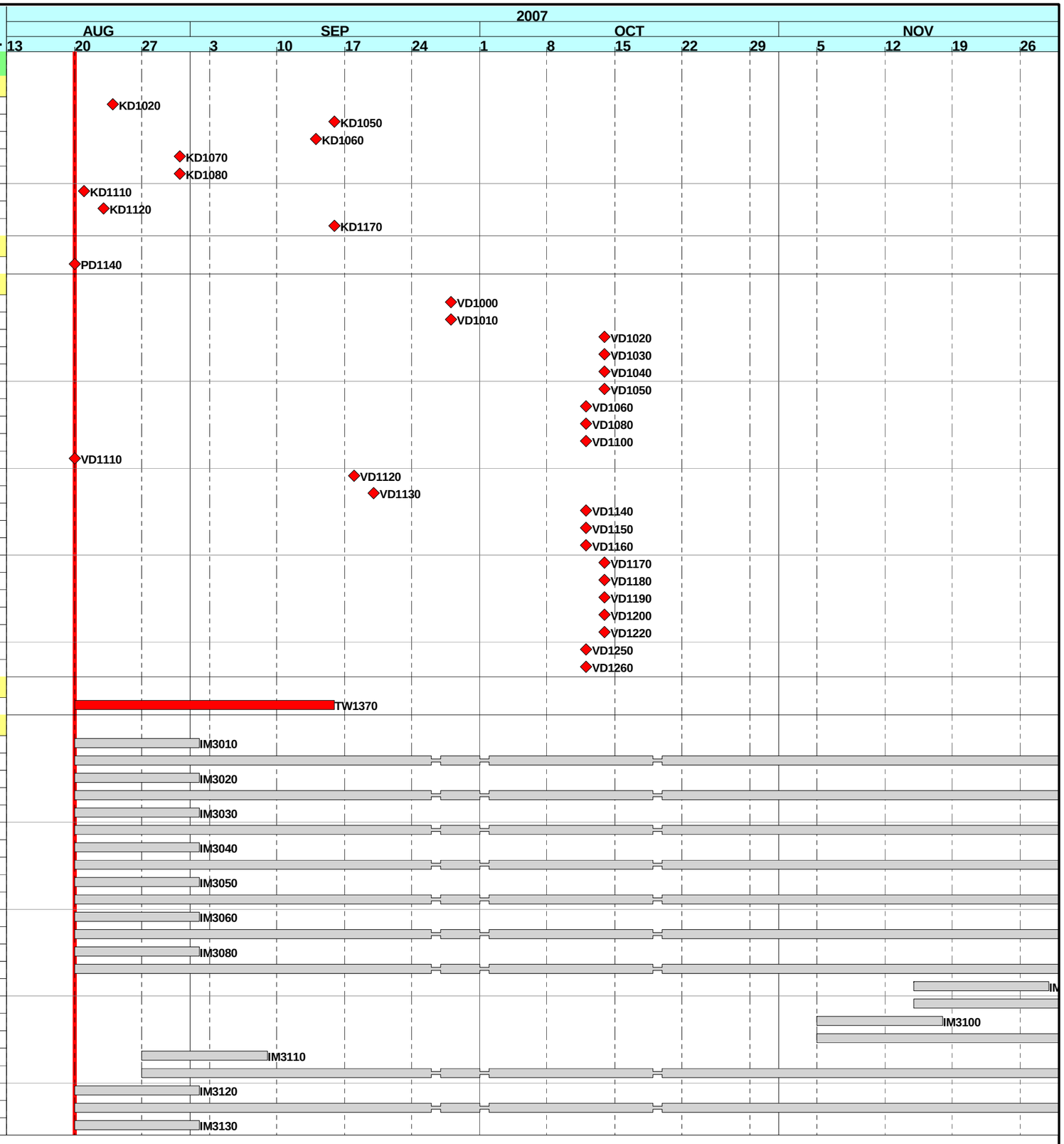
APPENDIX A
CONTACT DETAILS OF THE PROJECT ORGANISATION

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. Henry Liu	SRE	2991 1068	
		Mr. Joseph Chi	RE	2991 1034	
Cinotech	Environmental Team	Dr. Priscilla Choy	ET Leader	2151 2089	3107 1388
		Ms. Grace Wong	Audit Team Leader	2151 2091	
		Mr. Henry Leung	Monitoring Team Leader	2151 2087	
CH2M	Independent Environmental Checker	Mr. Kenneth Luk	Independent Environmental Checker	2507 2209	2507 2293
		Mr. Billy Yu	Deputy Independent Environmental Checker	2872 2949	
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						
KD1020	KD-2: Achievement of Stage 2	0		23AUG07	0	0
KD1050	KD-5: Completion of Section 3 of the Works	0		15SEP07*	0	0
KD1060	KD-6: Completion of Section 4 of the Works	0		13SEP07*	0	0
KD1070	KD-7: Completion of Section 5 of the Works	0		30AUG07*	0	0
KD1080	KD-8: Completion of Section 6 of the Works	0		30AUG07*	0	0
KD1110	KD-11: Completion of Section 9 of the Works	0		20AUG07*	0	0
KD1120	KD-12: Completion of Section 10 of the Works	0		22AUG07*	0	0
KD1170	KD-17: Completion of Section 15 of the Works	0		15SEP07*	0	0
Portion Access Dates						
PD1140	Access to Portion F1 (NOT USED)	0	20AUG07*		0	0
Portion Vacate Dates						
VD1000	Vacate Portion A	0		27SEP07*	0	0
VD1010	Vacate Portion B	0		27SEP07*	0	0
VD1020	Vacate Portion C	0		13OCT07*	0	0
VD1030	Vacate Portion D1	0		13OCT07*	0	0
VD1040	Vacate Portion D2	0		13OCT07*	0	0
VD1050	Vacate Portion E1	0		13OCT07*	0	0
VD1060	Vacate Portion E2	0		11OCT07*	0	0
VD1080	Vacate Portion E4	0		11OCT07*	0	0
VD1100	Vacate Portion G1	0		11OCT07*	0	0
VD1110	Vacate Portion F1	0		19AUG07*	0	0
VD1120	Vacate Portion F2	0		17SEP07*	0	0
VD1130	Vacate Portion F3	0		19SEP07*	0	0
VD1140	Vacate Portion G2	0		11OCT07*	0	0
VD1150	Vacate Portion G3	0		11OCT07*	0	0
VD1160	Vacate Portion G4	0		11OCT07*	0	0
VD1170	Vacate Portion K1	0		13OCT07*	0	0
VD1180	Vacate Portion K2 & K3	0		13OCT07*	0	0
VD1190	Vacate Portion K4 & K8	0		13OCT07*	0	0
VD1200	Vacate Portion K5 & K6	0		13OCT07*	0	0
VD1220	Vacate Portion K7, K9, K10	0		13OCT07*	0	0
VD1250	Vacate Portion W	0		11OCT07*	0	0
VD1260	Vacate Portion R1	0		11OCT07*	0	0
Design of Temporary Works						
TW1370	Design of Temp Works for Feature 11NW-A/C66	24	20AUG07	15SEP07	0	24
Monitoring & Instrumentation - New Works						
IM3010	Install Instrumentation @ Cut Slope CCR-S1	12	20AUG07	01SEP07	0	12
IM3015	Monitoring @ Cut Slope CCR-S1	177*	20AUG07	21MAR08	0	177*
IM3020	Install Instrumentation @ Cut Slope CCR-S2	12	20AUG07	01SEP07	0	12
IM3025	Monitoring @ Cut Slope CCR-S2	177*	20AUG07	21MAR08	0	177*
IM3030	Install Instrumentation @ Cut Slope CCR-S3	12	20AUG07	01SEP07	0	12
IM3035	Monitoring @ Cut Slope CCR-S3	177*	20AUG07	21MAR08	0	177*
IM3040	Install Instrumentation @ Cut Slope CCR-S4	12	20AUG07	01SEP07	0	12
IM3045	Monitoring @ Cut Slope CCR-S4	177*	20AUG07	21MAR08	0	177*
IM3050	Install Instrumentation @ Cut Slope CCR-S5	12	20AUG07	01SEP07	0	12
IM3055	Monitoring @ Cut Slope CCR-S5	177*	20AUG07	21MAR08	0	177*
IM3060	Install Instrumentation @ Cut Slope CCR-S6	12	20AUG07	01SEP07	0	12
IM3065	Monitoring @ Cut Slope CCR-S6	177*	20AUG07	21MAR08	0	177*
IM3080	Install Instrumentation @ Slope 11NW-A/C26	12	20AUG07	01SEP07	0	12
IM3085	Monitoring @ Slope 11NW-A/C26	177*	20AUG07	21MAR08	0	177*
IM3090	Install Instrumentation @ Slope 11NW-A/FR54 & 55	12	15NOV07	28NOV07	0	12
IM3095	Monitoring @ Slope 11NW-A/FR54 & 55	105*	15NOV07	21MAR08	0	105*
IM3100	Install Instrumentation @ Slope11NW-A/C687 & 679	12	05NOV07	17NOV07	0	12
IM3105	Monitoring @ Slope 11NW-A/C687 & 679	114*	05NOV07	21MAR08	0	114*
IM3110	Install Instrumentation @ Slip Road A Embankment	12	27AUG07	08SEP07	0	12
IM3115	Monitoring @ Slip Road A Embankment	171*	27AUG07	21MAR08	0	171*
IM3120	Install Instrumentation @ Slip Road B Embankment	12	20AUG07	01SEP07	0	12
IM3125	Monitoring @ Slip Road B Embankment	177*	20AUG07	21MAR08	0	177*
IM3130	Install Instrumentation @ Piers P1 to P6	12	20AUG07	01SEP07	0	12



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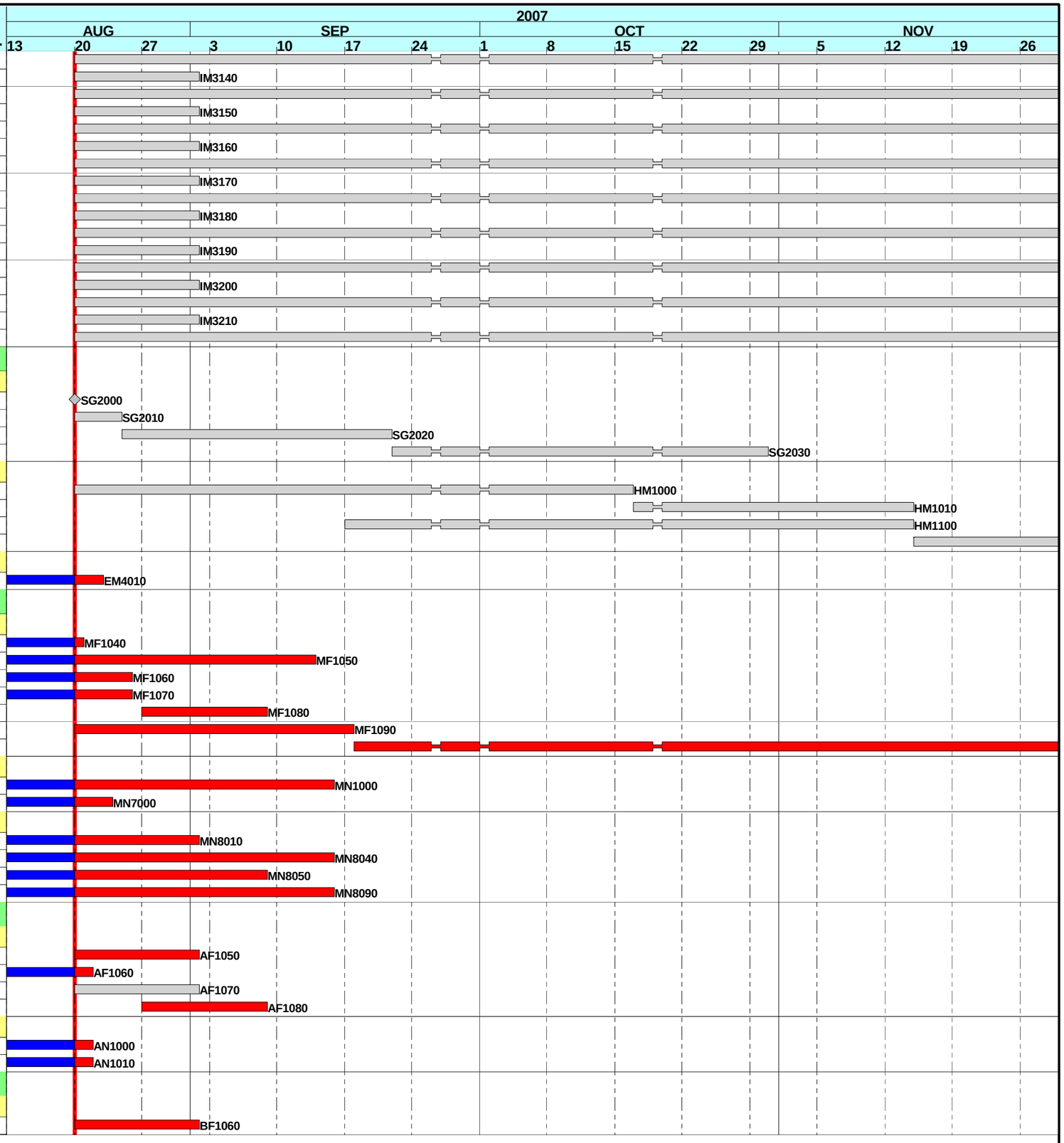
Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	% Compl.	Rem .Durn.
IM3135	Monitoring @ Piers P1 to P6	177*	20AUG07	21MAR08	0	177*
IM3140	Install Instrumentation @ Piers P7 to P10	12	20AUG07	01SEP07	0	12
IM3145	Monitoring @ Piers P7 to P10	177*	20AUG07	21MAR08	0	177*
IM3150	Install Instrumentation @ Piers P11 to P15	12	20AUG07	01SEP07	0	12
IM3155	Monitoring @ Piers P11 to P15	177*	20AUG07	21MAR08	0	177*
IM3160	Install Instrumentation @ Piers P16 to P18	12	20AUG07	01SEP07	0	12
IM3165	Monitoring @ Piers P16 to P18	177*	20AUG07	21MAR08	0	177*
IM3170	Install Instrumentation @ Piers P19 to Abut. M	12	20AUG07	01SEP07	0	12
IM3175	Monitoring @ Piers P19 to Abut. M	177*	20AUG07	21MAR08	0	177*
IM3180	Install Instrumentation @ Piers on Slip Road A	12	20AUG07	01SEP07	0	12
IM3185	Monitoring @ Piers on Slip Road A	177*	20AUG07	21MAR08	0	177*
IM3190	Install Instrumentation @ Piers on Slip Road B	12	20AUG07	01SEP07	0	12
IM3195	Monitoring @ Piers on Slip Road B	177*	20AUG07	21MAR08	0	177*
IM3200	Install Instrumentation @ Piers on Slip Road C	12	20AUG07	01SEP07	0	12
IM3205	Monitoring @ Piers on Slip Road C	177*	20AUG07	21MAR08	0	177*
IM3210	Install Instrumentation @ Piers on Slip Road D	12	20AUG07	01SEP07	0	12
IM3215	Monitoring @ Piers on Slip Road D	177*	20AUG07	21MAR08	0	177*
Procurement						
Signage						
SG2000	Signage - Award of Sub-contract (NOT USED)	0	20AUG07		0	0
SG2010	Signage - Shop Drawings (NOT USED)	50	20AUG07	24AUG07	0	5
SG2020	Signage - Rev & Appro of Shop Dwgs. (NOT USED)	24	25AUG07	21SEP07	0	24
SG2030	Signage - Off-Site Fabr'n of Signs (NOT USED)	50	22SEP07	30OCT07	0	30
High Mast Lighting (NOT USED)						
HM1000	High Mast Lighting -Foundation Design (NOT USED)	48	20AUG07	16OCT07	0	48
HM1010	High Mast Lighting - Appr of Found'n (NOT USED)	24	17OCT07	14NOV07	0	24
HM1100	High Mast Lighting Design & Shop Dwgs (NOT USED)	48	17SEP07	14NOV07	0	48
HM1110	High Mast Lighting - Appro of Design (NOT USED)	56	15NOV07	09JAN08	0	56
Lai Wan Overpass Irrigation Pump House						
EM4010	Procurement & Delivery of Pumps Valves	48	31JUL06A	22AUG07	90	3
Viaduct - Main Line - Piers PA to P6						
Remaining Superstructure Finishing Works						
MF1040	PA to P6 - Deck Drainage	60	22FEB07A	20AUG07	98	1
MF1050	PA to P6 - Top Rail to Parapets	24	01AUG07A	13SEP07	5	22
MF1060	PA to P6 - Flexible Pavement	12	14MAY07A	25AUG07	50	6
MF1070	PA to P6 - Viaduct Road Lighting	18	07MAY07A	25AUG07	50	6
MF1080	PA to P6 - Road Marking & Traffic Signage	12	27AUG07	08SEP07	0	12
MF1090	P6 - Landscaping - Planting 0n Viaduct	25	20AUG07	17SEP07	0	25
MF1100	P6 - Landscape Establishment Works on Viaduct	301	18SEP07	16SEP08	0	301
Noise Barriers & Encl' (Sec.15 Excision)						
MN1000	Viaduct - 3m Absorptive Barriers N/B Ch.407-670	75	21MAR07A	15SEP07	70	24
MN7000	Viaduct - 3m Ref. Barriers N/B Ch.S1280-L938	75	22MAR07A	23AUG07	85	4
Remaining Noise Barriers & Enclosures						
MN8010	Viaduct - 3m Ref. Barrier S/B Ch.S1318-L826	50	10JUL07A	01SEP07	70	12
MN8040	Viaduct - 5m Reflective Barrier N/B Ch.407 - 642	75	12JUN07A	15SEP07	70	24
MN8050	Viaduct - 5m Reflective Barrier S/B Ch.391 - 560	46	26JUN07A	08SEP07	70	18
MN8090	Viaduct - 5m Reflective Barrier S/B Ch.560 - 712	45	26JUN07A	15SEP07	70	24
Viaduct - Slip Road A						
Remaining Superstructure Finishing Works						
AF1050	Slip Rd. A - Top Rail to Parapets (on LCK-R1)	12	20AUG07	01SEP07	0	12
AF1060	Slip Rd. A - Flexible Pavement	4	19MAY07A	21AUG07	60	2
AF1070	Slip Rd. A - Viaduct Road Lighting (by Others)	12	20AUG07	01SEP07	0	12
AF1080	Slip Rd. A - Road Marking & Traffic Signage	12	27AUG07	08SEP07	0	12
Noise Barriers & Encl' (Sec.15 Excision)						
AN1000	Slip Rd. A - Full Enclosure Ch.1070 - Pier A2	48	26JUL06A	21AUG07	98	2
AN1010	Slip Rd. A - Full Enclosure Pier A2 - 1280	48	30SEP06A	21AUG07	98	2
Viaduct - Slip Road B						
Remaining Superstructure Finishing Works						
BF1060	Slip Rd. B - Top Rail to Parapets (on LCK-R2)	12	20AUG07	01SEP07	0	12



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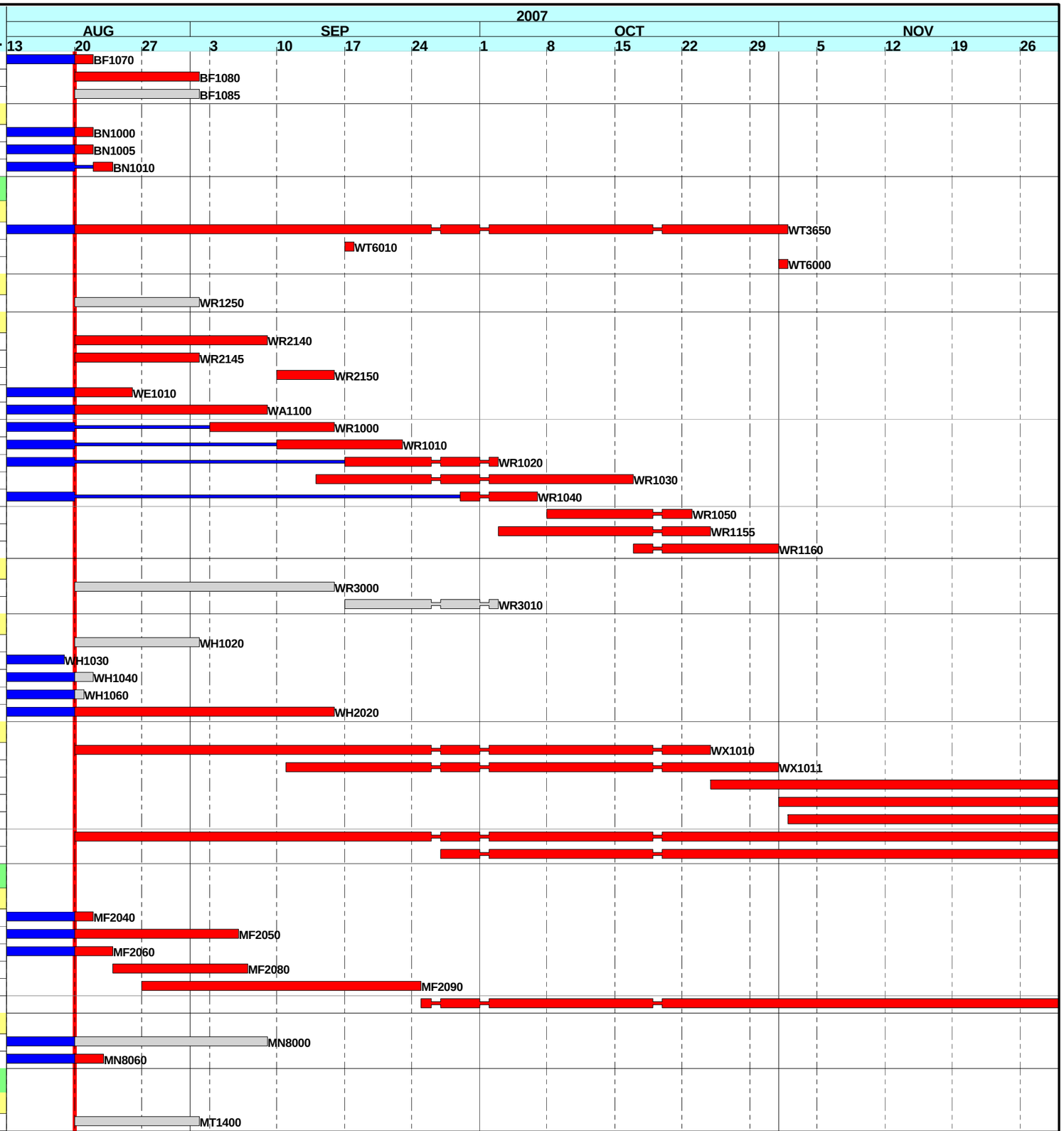
BF1070	Slip Rd. B - Flexible Pavement	4	14APR07A	21AUG07	60	2
BF1080	Slip Rd. B - Road Marking & Traffic Signage	12	20AUG07	01SEP07	0	12
BF1085	Slip Rd. B - Viaduct Road Lighting (by Others)	12	20AUG07	01SEP07	0	12
Remaining Noise Barriers & Enclosures						
BN1000	Slip Road B - Full Enclosure Ch.1038 - Pier B2	48	25OCT06A	21AUG07	98	2
BN1005	Slip Road B - Full Enclosure Pier B2 - Ch. 1258	48	22NOV06A	21AUG07	98	2
BN1010	Slip Road B - Semi Enclosures Ch.1258 - 1318	48	07NOV06A	23AUG07	98	2
At Grade Works - Lai Po Road						
Temporary Traffic Management Schemes						
WT3650	8th. TTMS Lai Po Rd (forS/B C/W) -Implementation	198*	08MAR07A	01NOV07	0	61*
WT6010	Open New Lai Po Rd. South Bound	1	17SEP07	17SEP07	0	1
WT6000	Open New Lai Po Road North Bound	1	01NOV07	01NOV07	0	1
Lai Po Road (D3) Roadworks - Stage 1						
WR1250	Lai Po Rd N/B Ch.1+250-1+360 -Utilities NOT USED	12	20AUG07	01SEP07	0	12
Lai Po Road (D3) Roadworks - Stage 4						
WR2140	Lai Po Rd S/B Ch.1+000 - 1+360- Crash Barriers	18	20AUG07	08SEP07	0	18
WR2145	Lai Po Rd S/B Ch.1+000 - 1+360 -Street Lighting	12	20AUG07	01SEP07	0	12
WR2150	Lai Po Rd S/B Ch.1+000 - 1+360 -Marking & Signs	6	10SEP07	15SEP07	0	6
WE1010	Lai Po Rd N/B Ch.0+946 - 1+250 - Fill Embankment	36	07MAY07A	25AUG07	70	6
WA1100	Lai Po Rd N/B Ch.0+946 - 1+250 - Drainage	30	22MAY07A	08SEP07	30	18
WR1000	Lai Po Rd N/B Ch.0+946 - 1+250 - Formation	24	05JUL07A	15SEP07	25	12
WR1010	Lai Po Rd N/B Ch.0+946 - 1+250 - Sub-base	18	09JUL07A	22SEP07	25	12
WR1020	Lai Po Rd N/B Ch.0+946 - 1+250 - Kerbs	18	10JUL07A	02OCT07	25	12
WR1030	Lai Po Rd N/B Ch.0+946 - 1+250- Utilities	26	14SEP07	16OCT07	0	26
WR1040	Lai Po Rd N/B Ch.0+946 - 1+250 - Road Pavement	9	24JUL07A	06OCT07	25	6
WR1050	Lai Po Rd N/B Ch.0+946 - 1+360 - Crash Barriers	12	08OCT07	22OCT07	0	12
WR1155	Lai Po Rd N/B Ch.0+946 - 1+360 - Street Lighting	18	03OCT07	24OCT07	0	18
WR1160	Lai Po Rd N/B Ch.0+946 - 1+360 - Marking & Signs	12	17OCT07	31OCT07	0	12
High Mast Lighting (NOT USED)						
WR3000	H/M Lighting (3 No. Mast) - Found's (NOT USED)	24	20AUG07	15SEP07	0	24
WR3010	H/MLighting (3 No. Mast) -Erect Masts (NOT USED)	12	17SEP07	02OCT07	0	12
Lai Po Road Fire Hydrant Pump House						
WH1020	Lai Po Rd. F/H P/House -Waterproofing (NOT USED)	12	20AUG07	01SEP07	0	12
WH1030	Lai Po Rd. F/H Pump House - Building Finishes	24	06APR07A	18AUG07	85	0
WH1040	Lai Po Rd. F/H Pump House - Mechanical Works	24	20JUL07A	21AUG07	95	2
WH1060	Lai Po Rd. F/H Pump House - FS Installation	24	15MAY07A	20AUG07	95	1
WH2020	Fire Main at Lai Po Road - Valves & Connections	24	20JUL07A	15SEP07	0	24
Landscape Works						
WX1010	Landscaping - Dwarf Walls FW8, FW10 & FW13	54	20AUG07	24OCT07	0	54
WX1011	Landscaping - Dwarf Walls FW4 & FW6	41	11SEP07	31OCT07	0	41
WX1012	Landscaping - Dwarf Walls FW12 & FW14	34	25OCT07	03DEC07	0	34
WX1013	Landscaping - Dwarf Walls FW8, FW10 & FW13	34	01NOV07	10DEC07	0	34
WX1017	Landscaping - Dwarf Walls FW1 & FW2	36	02NOV07	13DEC07	0	36
WX1000	Landscaping - Earthworks & Formation	140	20AUG07	07FEB08	0	140
WX1018	Landscaping - Paving	120	27SEP07	21FEB08	0	120
Viaduct - Main Line - Piers P7 to P10						
Remaining Superstructure Finishing Works						
MF2040	P7 to P10 - Deck Drainage	48	10MAY06A	21AUG07	95	2
MF2050	P7 to P10 - Top Rail to Parapets	18	01AUG07A	05SEP07	20	15
MF2060	P7 to P10 - Flexible Pavement	9	30MAY07A	23AUG07	60	4
MF2080	P7 to P10 - Road Marking & Traffic Signage	12	24AUG07	06SEP07	0	12
MF2090	P7 to P10 - Landscaping - Planting 0n Viaduct	25	27AUG07	24SEP07	0	25
MF2091	P7 to P10 - Landscape Establish Works on Viaduct	301	25SEP07	23SEP08	0	301
Remaining Noise Barriers & Enclosures						
MN8000	Viaduct - Semi Enclosure N/B Ch.980 to 1181	60	28DEC06A	08SEP07	80	18
MN8060	Viaduct - 5m Reflective Barrier N/B Ch.938 - 980	25	06JUN07A	22AUG07	80	3
At Grade Works - Lai Chi Kok Interchange						
Temporary Traffic Management Schemes						
MT1400	3rd TTMS Butterfly Valley Rd -Prepare for Review	12	20AUG07	01SEP07	0	12



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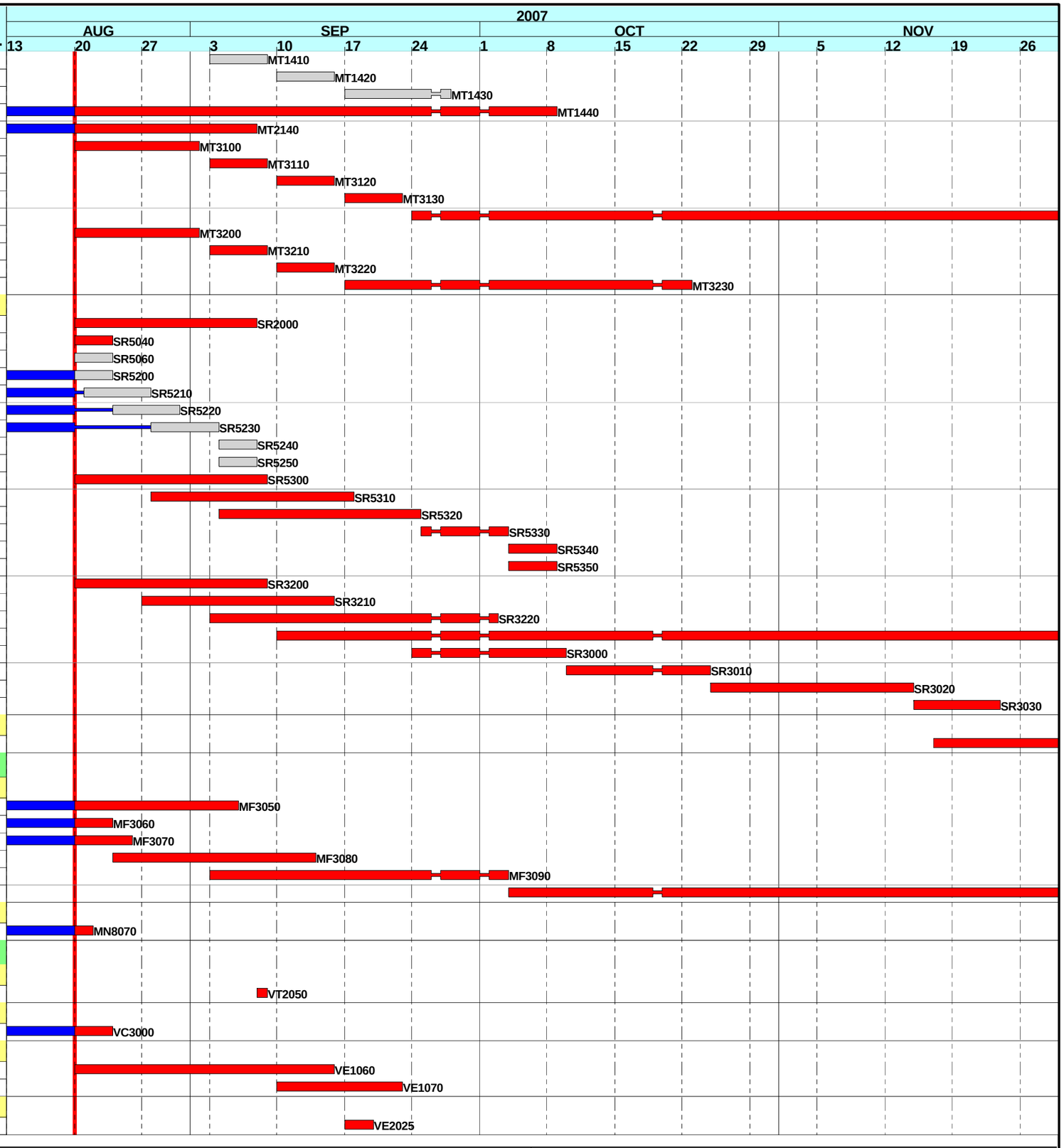
MT1410	3rd. TTMS Butterfly Valley Rd - CRE Endorsement	6	03SEP07	08SEP07	0	6
MT1420	3rd. TTMS Butterfly Valley Rd - Roadworks Advice	6	10SEP07	15SEP07	0	6
MT1430	3rd. TTMS Butterfly Valley Rd - Prepare	9	17SEP07	27SEP07	0	9
MT1440	3rd. TTMS Butterfly Valley Rd - Implementation	105*	03JUN07A	08OCT07	0	41*
MT2140	TTMS for Pier P8/L - Implementation	1,068*	23FEB04A	07SEP07	29	17*
MT3100	2nd. TTMS Kom Tsun Street - Prepare for Review	12	20AUG07	01SEP07	0	12
MT3110	2nd. TTMS Kom Tsun Street - CRE Endorsement	6	03SEP07	08SEP07	0	6
MT3120	2nd. TTMS Kom Tsun Street - Roadworks Advice	6	10SEP07	15SEP07	0	6
MT3130	2nd. TTMS Kom Tsun Street - Site Preparation	6	17SEP07	22SEP07	0	6
MT3140	2nd. TTMS Kom Tsun Street - Implementation	63*	24SEP07	08DEC07	0	63*
MT3200	3rd. TTMS Kom Tsun Street - Prepare for Review	12	20AUG07	01SEP07	0	12
MT3210	3rd. TTMS Kom Tsun Street - CRE Endorsement	6	03SEP07	08SEP07	0	6
MT3220	3rd. TTMS Kom Tsun Street - Roadworks Advice	6	10SEP07	15SEP07	0	6
MT3230	3rd. TTMS Kom Tsun Street - Site Preparation	28	17SEP07	22OCT07	0	28
Utilities & Roadworks						
SR2000	Castle Peak Road - Roadworks Reinstatement	17	20AUG07	07SEP07	0	17
SR5040	Butterfly V. Rd (LCKI) Stage 1 - Street Lighting	4	20AUG07	23AUG07	0	4
SR5060	Butterfly V. Rd (LCKI) Stage 1 - Road Marking	4	20AUG07	23AUG07	0	4
SR5200	Butterfly V. Rd (LCKI) Stage2-Excav. & Formation	18	08JUN07A	23AUG07	80	4
SR5210	Butterfly V. Rd (LCKI) Stage 2 - Sub-base	18	03JUL07A	27AUG07	5	6
SR5220	Butterfly V. Rd (LCKI) Stage 2 - Kerbs	18	07JUL07A	30AUG07	20	6
SR5230	Butterfly V. Rd (LCKI) Stage 2 - Pavement	8	10JUL07A	03SEP07	20	6
SR5240	Butterfly V. Rd (LCKI) Stage 2 - Street Lighting	4	04SEP07	07SEP07	0	4
SR5250	Butterfly V. Rd (LCKI) Stage 2 - Road Marking	4	04SEP07	07SEP07	0	4
SR5300	Butterfly V. Rd (LCKI) Stage4-Excav. & Formation	18	20AUG07	08SEP07	0	18
SR5310	Butterfly V. Rd (LCKI) Stage 4 - Sub-base	18	28AUG07	17SEP07	0	18
SR5320	Butterfly V. Rd (LCKI) Stage 4 - Kerbs	18	04SEP07	24SEP07	0	18
SR5330	Butterfly V. Rd (LCKI) Stage 4 - Pavement	6	25SEP07	03OCT07	0	6
SR5340	Butterfly V. Rd (LCKI) Stage 4 - Street Lighting	4	04OCT07	08OCT07	0	4
SR5350	Butterfly V. Rd (LCKI) Stage 4 - Road Marking	4	04OCT07	08OCT07	0	4
SR3200	Kom Tsun Street Bus Stn. - Excavate & Formation	18	20AUG07	08SEP07	0	18
SR3210	Kom Tsun Street bus Stn. - Sub-base	18	27AUG07	15SEP07	0	18
SR3220	Kom Tsun Street Bus Stn. - Kerbs	24	03SEP07	02OCT07	0	24
SR3230	Kom Tsun Street Bus Stn. - Concrete Pavement	75	10SEP07	08DEC07	0	75
SR3000	Kom Tsun Street L/H C/Way - Excavate & Formation	12	24SEP07	09OCT07	0	12
SR3010	Kom Tsun Street L/H C/Way - Sub-base	12	10OCT07	24OCT07	0	12
SR3020	Kom Tsun Street L/H C/Way - Kerbs	18	25OCT07	14NOV07	0	18
SR3030	Kom Tsun Street L/H C/Way - Pavement	8	15NOV07	23NOV07	0	8
Landscape Works						
SX1010	Landscaping - Paving	50	17NOV07	16JAN08	0	50
Viaduct - Main Line - Piers P11 to P15						
Remaining Superstructure Finishing Works						
MF3050	P11 to P16 - Top Rail to Parapets	18	03AUG07A	05SEP07	20	15
MF3060	P11 to P16 - Flexible Pavement	9	23MAY07A	23AUG07	60	4
MF3070	P11 to P16 - Viaduct Road Lighting	18	10MAY07A	25AUG07	50	6
MF3080	P11 to P16 - Road Marking & Traffic Signage	18	24AUG07	13SEP07	0	18
MF3090	P11 to P16 - Landscaping - Planting 0n Viaduct	25	03SEP07	03OCT07	0	25
MF3100	P11 to P16 - Landscape Establish W'ks on Viaduct	301	04OCT07	02OCT08	0	301
Remaining Noise Barriers & Enclosures						
MN8070	Viaduct - 5m Reflective Barrier N/B Ch.1181-1302	75	07JUN07A	21AUG07	90	2
At Grade Works - Wai Man Tsuen						
Temporary Traffic Management Schemes						
VT2050	B.V. Rd - Divert Traffic to Slow & Middle Lanes	1	08SEP07	08SEP07	0	1
Realigned Channel at Wai Man Tsuen						
VC3000	Channel - Modifications to Channel Floor -VO 299	12	30NOV05A	23AUG07	95	4
Earthworks & Slope Works						
VE1060	Slope CCR-S5 - Slope Drainage & Finishes	24	20AUG07	15SEP07	0	24
VE1070	Slope CCR-S5 - Landscaping & Hydroseeding	12	10SEP07	22SEP07	0	12
Earthworks & Slope Works - 11NW-A/C678 & CR679						
VE2025	Slope 11NW-A/C678 & CR679 - Platform for S.Nails	3	17SEP07	19SEP07	0	3



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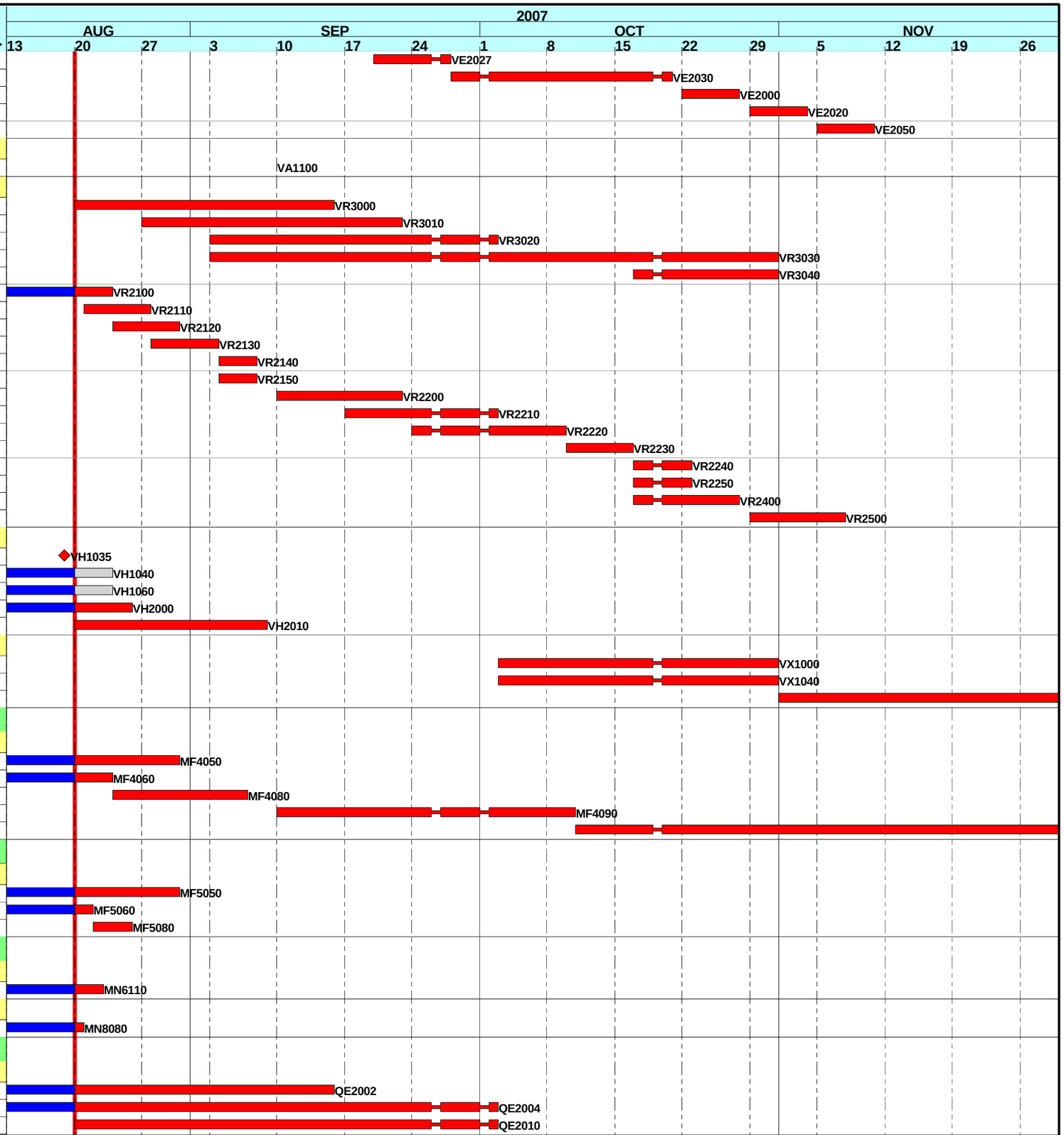
VE2027	Slope 11NW-A/C678 & CR679 - Test Soil Nail	6	20SEP07	27SEP07	0	6
VE2030	Slope 11NW-A/C678 & CR679 - Soil Nails	18	28SEP07	20OCT07	0	18
VE2000	Slope 11NW-A/C678 & CR679 - Remove Temp Platform	6	22OCT07	27OCT07	0	6
VE2020	Slope 11NW-A/C678 & CR679 - Trim Original Slope	6	29OCT07	03NOV07	0	6
VE2050	Slope 11NW-A/C678 & CR679 -Landscape & Hydroseed	6	05NOV07	10NOV07	0	6
Drainage Works						
VA1100	Butterfly Valley Rd Stage4 - Stormwater Draiange	0	10SEP07	08SEP07	0	0
Utilities & Roadworks						
VR3000	Drainage Maintenance Access Rd. - Formation	24	20AUG07	15SEP07	0	24
VR3010	Drainage Maintenance Access Rd. - Sub-base	24	27AUG07	22SEP07	0	24
VR3020	Drainage Maintenance Access Rd. - Kerbs	24	03SEP07	02OCT07	0	24
VR3030	Drainage Maintenance Access Rd. - Pavement	48	03SEP07	31OCT07	0	48
VR3040	Drainage Maintenance Access Rd. - Street Lights	12	17OCT07	31OCT07	0	12
VR2100	Butterfly V. Rd (WMT) Stage3- Excav. & Formation	12	08JUN07A	23AUG07	90	4
VR2110	Butterfly V. Rd (WMT) Stage 3 - Sub-base	12	21AUG07	27AUG07	0	6
VR2120	Butterfly V. Rd (WMT) Stage 3 - Kerbs	12	24AUG07	30AUG07	0	6
VR2130	Butterfly V. Rd (WMT) Stage 3 - Pavement	6	28AUG07	03SEP07	0	6
VR2140	Butterfly V. Rd (WMT) Stage 3 - Street Lighting	4	04SEP07	07SEP07	0	4
VR2150	Butterfly V. Rd (WMT) Stage 3 - Road Marking	4	04SEP07	07SEP07	0	4
VR2200	Butterfly V. Rd (WMT) Stage4- Excav. & Formation	12	10SEP07	22SEP07	0	12
VR2210	Butterfly V. Rd (WMT) Stage 4 - Sub-base	12	17SEP07	02OCT07	0	12
VR2220	Butterfly V. Rd (WMT) Stage 4 - Kerbs	12	24SEP07	09OCT07	0	12
VR2230	Butterfly V. Rd (WMT) Stage 4- Pavement	6	10OCT07	16OCT07	0	6
VR2240	Butterfly V. Rd (WMT) Stage 4 - Street Lighting	4	17OCT07	22OCT07	0	4
VR2250	Butterfly V. Rd (WMT) Stage 4 - Road Marking	4	17OCT07	22OCT07	0	4
VR2400	Butterfly V. Rd (WMT) Stage 4 - Tie-in RHS	9	17OCT07	27OCT07	0	9
VR2500	Butterfly V. Rd (WMT) Stage 4 - Tie-in LHS	9	29OCT07	07NOV07	0	9
Wai Man Tsuen Fire Hydrant Pump House						
VH1035	Wai Man Tsuen F/H P/H - Provide for E & M Contr'	0		18AUG07	0	0
VH1040	Wai Man Tsuen F/H Pump House - Mechanical Works	24	20JUL07A	23AUG07	90	4
VH1060	Wai Man Tsuen F/H Pump House - FS Installation	24	15MAY07A	23AUG07	90	4
VH2000	Fire Main - Pipework Along Maintenance Road	18	26FEB07A	25AUG07	90	6
VH2010	Fire Main - Valves & Connections	18	20AUG07	08SEP07	0	18
Landscape Works						
VX1000	Landscaping - Earthworks & Formation	24	03OCT07	31OCT07	0	24
VX1040	Landscaping - Soiling & Planting	24	03OCT07	31OCT07	0	24
VX1100	Landscape Establishment Works	300	01NOV07	29OCT08	0	300
Viaduct - Main Line - Piers P16 to P18						
Remaining Superstructure Finishing Works						
MF4050	P16 to P18 - Top Rail to Parapets	12	30JUL07A	30AUG07	20	10
MF4060	P16 to P18 - Flexible Pavement	9	02MAY07A	23AUG07	60	4
MF4080	P16 to P18 - Road Marking & Traffic Signage	12	24AUG07	06SEP07	0	12
MF4090	P16 to P17 - Landscaping - Planting 0n Viaduct	25	10SEP07	10OCT07	0	25
MF4100	P16 to P17 - Landscape Establish W'ks on Viaduct	301	11OCT07	09OCT08	0	301
Viaduct - Main Line - Piers 19 to Abutment M						
Remaining Superstructure Finishing Works						
MF5050	P19 to Abut M - Top Rail to Parapets	12	26JUL07A	30AUG07	20	10
MF5060	P19 to Abut M - Flexible Pavement	4	20APR07A	21AUG07	60	2
MF5080	P19 to Abut M - Road Marking & Traffic Signage	4	22AUG07	25AUG07	0	4
Viaduct - Main Line - Tunnel Approaches						
Noise Barriers & Encl' (Sec.10 Excision)						
MN6110	Semi Enclosure S/B Ch.2005 - 2200 - Panels	35	27FEB07A	22AUG07	97	3
Remaining Noise Barriers & Enclosures						
MN8080	At Grade - 7m Reflective Barrier S/B Ch1789-1989	75	11DEC06A	20AUG07	98	1
At Grade Works - Butterfly Valley						
Earthworks & Slope Works - 11NW-A/FR54 & F55						
QE2002	Slope 11NW-A/FR54 & FR55 - Retaining Wall -Bases	36	03MAY07A	15SEP07	20	24
QE2004	Slope 11NW-A/FR54 & FR55 - Retaining Wall -Walls	48	28MAY07A	02OCT07	20	36
QE2010	Slope 11NW-A/FR54 & FR55 - Install Temp Works	36	20AUG07	02OCT07	0	36



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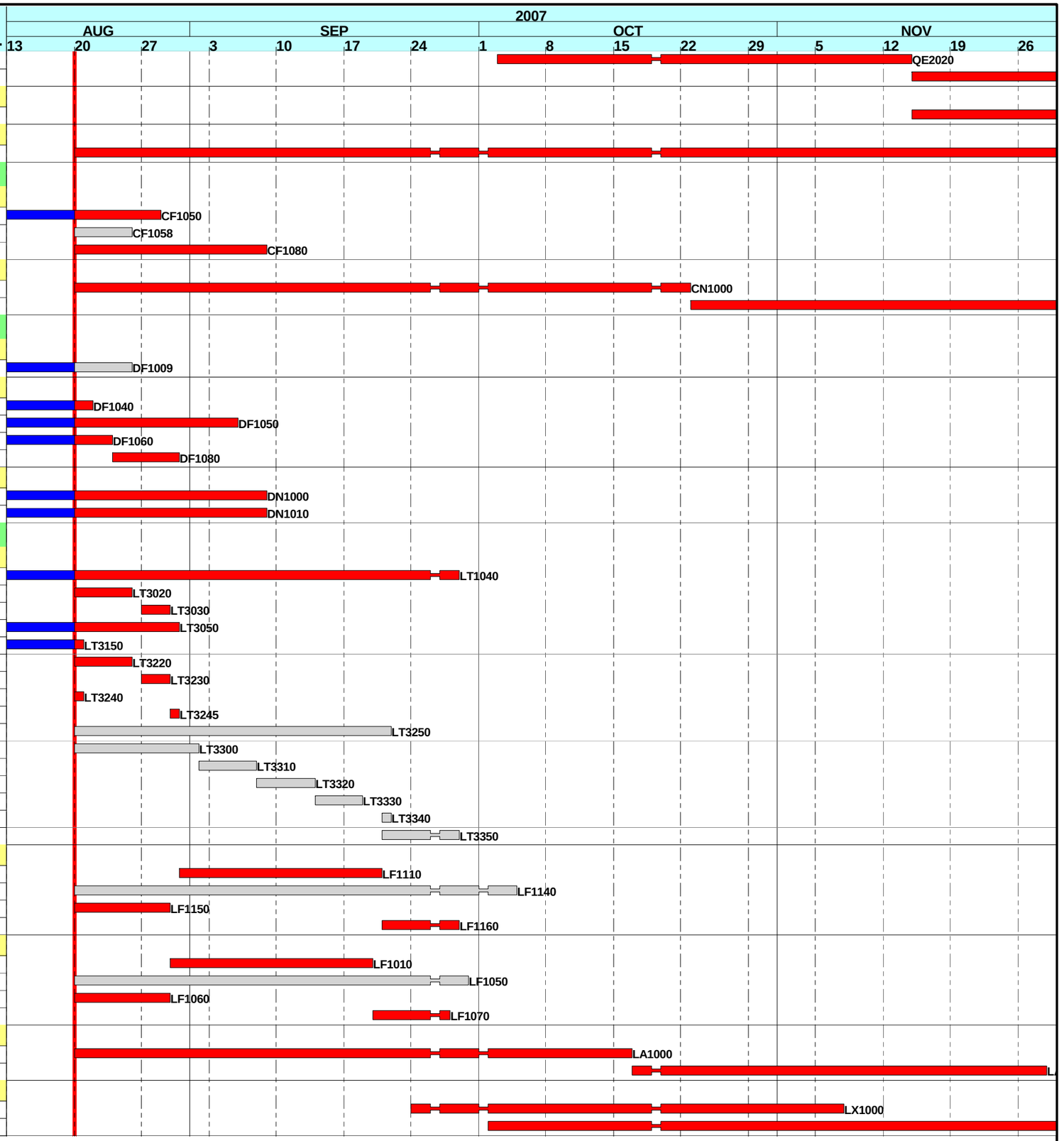
QE2020	Slope 11NW-A/FR54 & FR55 - Excavate & Rockfill	36	03OCT07	14NOV07	0	36
QE2030	Slope 11NW-A/FR54 & FR55 - Remove Temp. Works	18	15NOV07	05DEC07	0	18
Utilities & Roadworks						
QR1060	WSD Access Road - Permanent C/Way P18 to P19	36	15NOV07	27DEC07	0	36
Landscape Works						
QX1100	Landscape Establishment Works	301	20AUG07	18AUG08	0	301
Viaduct - Slip Road C						
Remaining Superstructure Finishing Works						
CF1050	Slip Rd. C - Top Rail to Parapets	18	12JUN07A	28AUG07	55	8
CF1058	Slip Rd. C - Waterproofing of Deck (not used)	6	20AUG07	25AUG07	0	6
CF1080	Slip Rd. C - Road Marking & Traffic Signage	18	20AUG07	08SEP07	0	18
Remaining Noise Barriers & Enclosures						
CN1000	Slip Rd. C - 3m Absorptive Barriers Ch.665 - 730	52	20AUG07	22OCT07	0	52
CN1010	Slip Rd. C - 3m Absorptive Barriers Ch.730 - 790	50	23OCT07	19DEC07	0	50
Viaduct - Slip Road D						
Superstructure Finishing Works Required for TCSS						
DF1009	Slip Rd. D - Sign Gantry ADS4 at D6	12	27JUL07A	25AUG07	40	6
Remaining Superstructure Finishing Works						
DF1040	Slip Rd. D - Deck Drainage	24	01SEP06A	21AUG07	65	2
DF1050	Slip Rd. D - Top Rail to Parapets	18	08AUG07A	05SEP07	20	15
DF1060	Slip Rd. D - Flexible Pavement	9	11JUL07A	23AUG07	50	4
DF1080	Slip Rd. D - Road Marking & Traffic Signage	6	24AUG07	30AUG07	0	6
Remaining Noise Barriers & Enclosures						
DN1000	Slip Rd. D - 3.5m Reflective Barrier Ch.805-881	36	27JUL07A	08SEP07	50	18
DN1010	Slip Rd. D - 3m Reflective Barriers Ch.680 - 805	36	26JUL07A	08SEP07	50	18
Lai Wan Road Overpass						
Temporary Traffic Management Schemes						
LT1040	TTMS LW Rd (for Substructure) - Implementation	1,101*	04FEB04A	28SEP07	20	34*
LT3020	TTMS CC Rd (on W/B Deck) - Roadworks Advice	6	20AUG07	25AUG07	0	6
LT3030	TTMS CC Rd (on W/B Deck) - Site Preparation	3	27AUG07	29AUG07	0	3
LT3050	TTMS CC Rd (on W/B Deck) - Implementation	173*	02FEB07A	30AUG07	0	10*
LT3150	TTMS CC Rd (on E/B Deck) - Implementation	135*	11MAR07A	20AUG07	0	1*
LT3220	TTMS CC Rd (on Both Decks) - Roadworks Advice	6	20AUG07	25AUG07	0	6
LT3230	TTMS CC Rd (on Both Decks) - Site Preparation	3	27AUG07	29AUG07	0	3
LT3240	Divert 2 Lanes to Each New East Bound Bridge	1	20AUG07	20AUG07	0	1
LT3245	Divert 2 Lanes to Each New West Bound Bridge	1	30AUG07	30AUG07	0	1
LT3250	TTMS CC Rd (on Both Decks) - Implementation	29*	20AUG07	21SEP07	0	29*
LT3300	TTMS CC Rd (on Both Decks) - Prepare for Review	12	20AUG07	01SEP07	0	12
LT3310	TTMS CC Rd (on Both Decks) - CRE Endorsement	6	02SEP07	07SEP07	0	6
LT3320	TTMS CC Rd (on Both Decks) - Roadworks Advice	6	08SEP07	13SEP07	0	6
LT3330	TTMS CC Rd (on Both Decks) - Site Preparation	4	14SEP07	18SEP07	0	4
LT3340	Divert 1No. Lane to Each New Bridge	1	21SEP07	21SEP07	0	1
LT3350	TTMS CC Rd (on Both Decks) - Implementation	6*	21SEP07	28SEP07	0	6*
West Bound - Superstructure Finishing Works						
LF1110	Lai Wan O/Pass W/B - Resurface Existing Deck	18	31AUG07	20SEP07	0	18
LF1140	Lai Wan O/P W/B -Flange Stitch Connect NOT USED	38	20AUG07	04OCT07	0	38
LF1150	Lai Wan O/Pass W/B - Pavement to New Flanges	9	20AUG07	29AUG07	0	9
LF1160	Lai Wan O/Pass W/B - Remove Temporary Barriers	6	21SEP07	28SEP07	0	6
East Bound - Superstructure Finishing Works						
LF1010	Lai Wan O/Pass E/B - Resurface Existing Deck	18	30AUG07	19SEP07	0	18
LF1050	Lai Wan O/P E/B - Flange Stitch Connect NOT USED	35	20AUG07	29SEP07	0	35
LF1060	Lai Wan O/Pass E/B - Pavement to New Flanges	9	20AUG07	29AUG07	0	9
LF1070	Lai Wan O/Pass E/B - Remove Temporary Barriers	6	20SEP07	27SEP07	0	6
Drainage Works						
LA1000	Area Under Overpass - Stormwater Drainage	48	20AUG07	16OCT07	0	48
LA1010	Area Under Overpass - S/W Drainage in Lai Wan Rd	36	17OCT07	28NOV07	0	36
Landscape Works						
LX1000	Landscaping Under Overpass - Formation	36	24SEP07	07NOV07	0	36
LX1010	Landscaping - Hardworks (Walls etc.)	70	02OCT07	22DEC07	0	70



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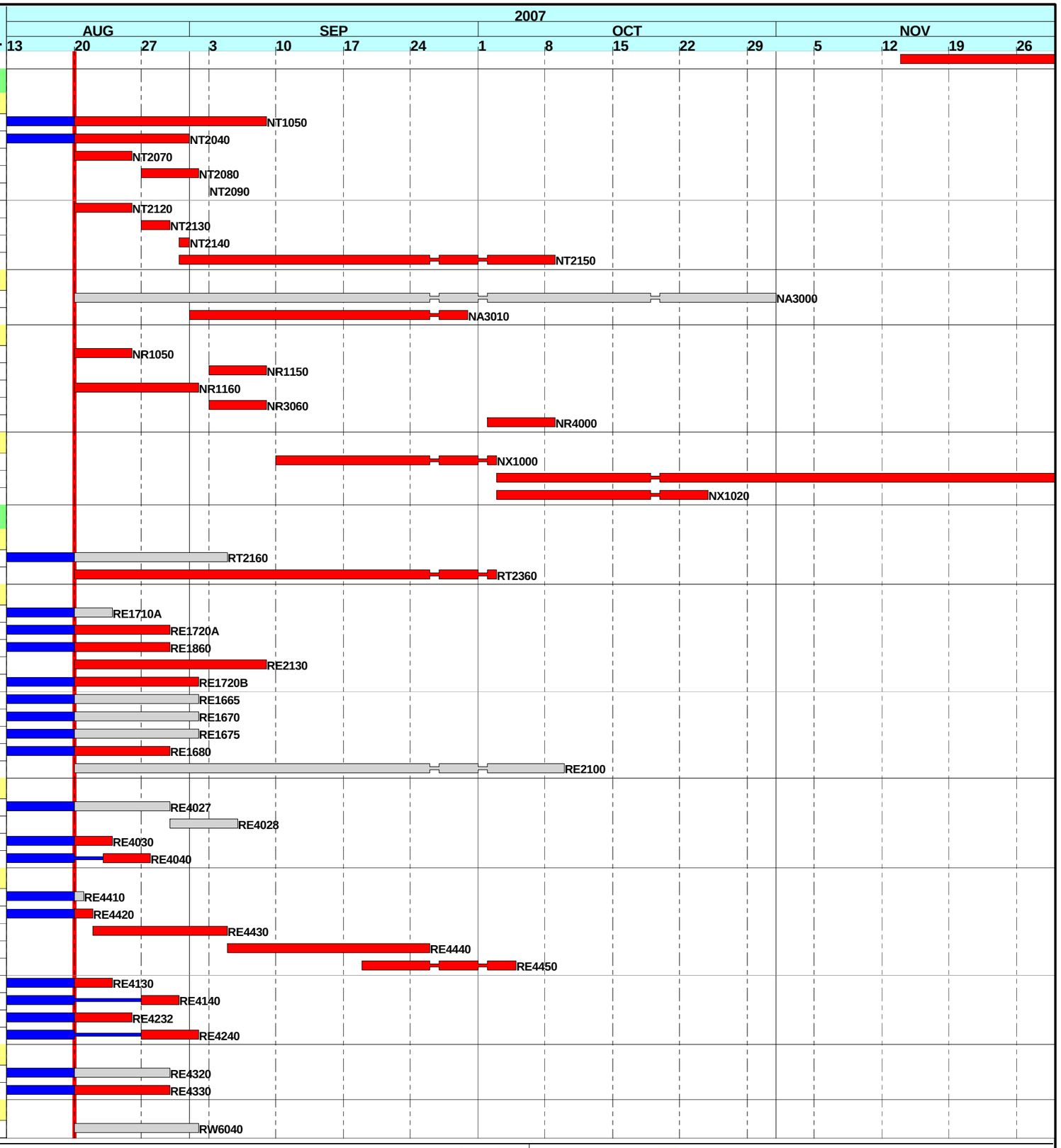
LX1015	Landscaping - Paving	60	14NOV07	28JAN08	0	60
At Grade Works - Ching Cheung Road at LCK Park						
Temporary Traffic Management Schemes						
NT1050	TTMS CC Rd (W/B C/Way) - Implementation	1,084*	05FEB04A	08SEP07	33	18*
NT2040	1st. TTMS CC Rd (E/B C/Way) - Implementation	835*	22NOV04A	31AUG07	0	11*
NT2070	2nd. TTMS CC Rd (E/B C/Way) - Roadworks Advice	6	20AUG07	25AUG07	0	6
NT2080	2nd. TTMS CC Rd (E/B C/Way) - Site Preparation	6	27AUG07	01SEP07	0	6
NT2090	2nd. TTMS CC Rd (E/B C/Way) - Implementation	0*	03SEP07	01SEP07	0	0*
NT2120	3rd. TTMS CC Rd (E/B C/Way) - Roadworks Advice	6	20AUG07	25AUG07	0	6
NT2130	3rd. TTMS CC Rd (E/B C/Way) - Site Preparation	3	27AUG07	29AUG07	0	3
NT2140	Divert 2 Lanes to New East Bound Carriageway	1	31AUG07	31AUG07	0	1
NT2150	3rd. TTMS CC Rd (E/B C/Way) - Implementation	31*	31AUG07	08OCT07	0	31*
Drainage Works						
NA3000	C.C. Rd. E/B in New C/way - not used	60	20AUG07	31OCT07	0	60
NA3010	C.C. Rd. E/B Existing C/way -Stormwater Drainage	24	01SEP07	29SEP07	0	24
Utilities & Roadworks						
NR1050	C.C. Rd. W/B in Portion E3 - Rd Marking & Signs	6	20AUG07	25AUG07	0	6
NR1150	C.C. Rd. W/B in Portion J2 - Rd Marking & Signs	6	03SEP07	08SEP07	0	6
NR1160	C.C. Rd. W/B in Portion J2 - Street Lighting	12	20AUG07	01SEP07	0	12
NR3060	C.C. Rd. E/B - Road Markings & Traffic Signs	6	03SEP07	08SEP07	0	6
NR4000	C.C. Rd. E/B C/way - Resurface Existing C/way	6	02OCT07	08OCT07	0	6
Landscape Works						
NX1000	Landscaping - Formation	18	10SEP07	02OCT07	0	18
NX1010	Landscaping - Paving	50	03OCT07	30NOV07	0	50
NX1020	Landscaping - Irrigation System	18	03OCT07	24OCT07	0	18
At Grade Work - Ching Cheung Road - Main Section						
Temporary Traffic Management Schemes						
RT2160	2nd. TTMS CC Rd E/B (CCR-S1) - Implementation	997*	14MAY04A	04SEP07	16	14*
RT2360	4th. TTMS CC Rd E/B C/Way - Implementation	36*	20AUG07	02OCT07	0	36*
Earthworks & Slope Works - CCR-S1, S2 & S3						
RE1710A	Slope CCR-S1C- Finish Seed & Planting +54.9mPD	12	09MAY07A	23AUG07	95	4
RE1720A	Slope CCR-S1C - Finish Seed & Planting +47.3mPD	12	16MAY07A	29AUG07	80	9
RE1860	Slope CCR-S1E&C- Finish Seed & Planting to +25.4	24	23MAY07A	29AUG07	75	9
RE2130	Slope CCR-S2 - Finish Seeding & Planting	18	20AUG07	08SEP07	0	18
RE1720B	Slope CCR-S1W - Seed & Planting to +39.95mPD	24	09MAY07A	01SEP07	75	12
RE1665	Slope CCR-S1W - Seed & Planting to +32.4mPD	24	16MAY07A	01SEP07	75	12
RE1670	Slope CCR-S1W - Seed & Planting to +24.9mPD	24	23MAY07A	01SEP07	75	12
RE1675	Slope CCR-S1W - Seed & Planting to +19.0mPD	18	30MAY07A	01SEP07	75	12
RE1680	Slope CCR-S1W - Seed & Planting to +16.8mPD	12	30MAY07A	29AUG07	75	9
RE2100	Slope CCR-S2 - Drainage (NOT USED)	42	20AUG07	09OCT07	0	42
Slope Works Above Retaining Wall CCR-R2						
RE4027	Excavate & Demolish Existing Retaining Wall	12	14MAY07A	29AUG07	20	9
RE4028	Fill & Compact to Form Toe of Berm	6	30AUG07	05SEP07	0	6
RE4030	Slope Drainage above R/W CCR-R2	24	05MAR07A	23AUG07	90	4
RE4040	Slope Finishes above R/W CCR-R2	24	09APR07A	27AUG07	90	4
Slope Works Above Retaining Walls CCR-R3D, E & F						
RE4410	Slope Above CC Rest Garden - Excavate Slope	12	14JUL06A	20AUG07	95	1
RE4420	Slope Above CC Rest Garden - Benching	12	30SEP06A	21AUG07	80	2
RE4430	Slope Above CC Rest Garden - Rock Filling	12	22AUG07	04SEP07	0	12
RE4440	Slope Above CC Rest Garden - Slope Drainage	18	05SEP07	25SEP07	0	18
RE4450	Slope Above CC Rest Garden - Slope Finishes	12	19SEP07	04OCT07	0	12
RE4130	Slope above CCR-R3D- Slope Drainage	24	05MAR07A	23AUG07	95	4
RE4140	Slope above CCR-R3D - Slope Finishes	18	20MAR07A	30AUG07	95	4
RE4232	Slope above CCR-R3E&F- Slope Drainage	24	05MAR07A	25AUG07	95	6
RE4240	Slope above CCR-R3E&F - Slope Finishes	18	20MAR07A	01SEP07	95	6
Earthworks & Slope Works - CCR-S4						
RE4320	Slope CCR-S4 - Lower Slope Drainage	18	20JUL07A	29AUG07	80	9
RE4330	Slope CCR-S4 - Lower Slope Finishes	24	20JUL07A	29AUG07	80	9
Ching Cheung Road NTMM Retaining Wall A						
RW6040	NNTM Wall A -Debris Coll' Area Drainage NOt USED	12	20AUG07	01SEP07	0	12



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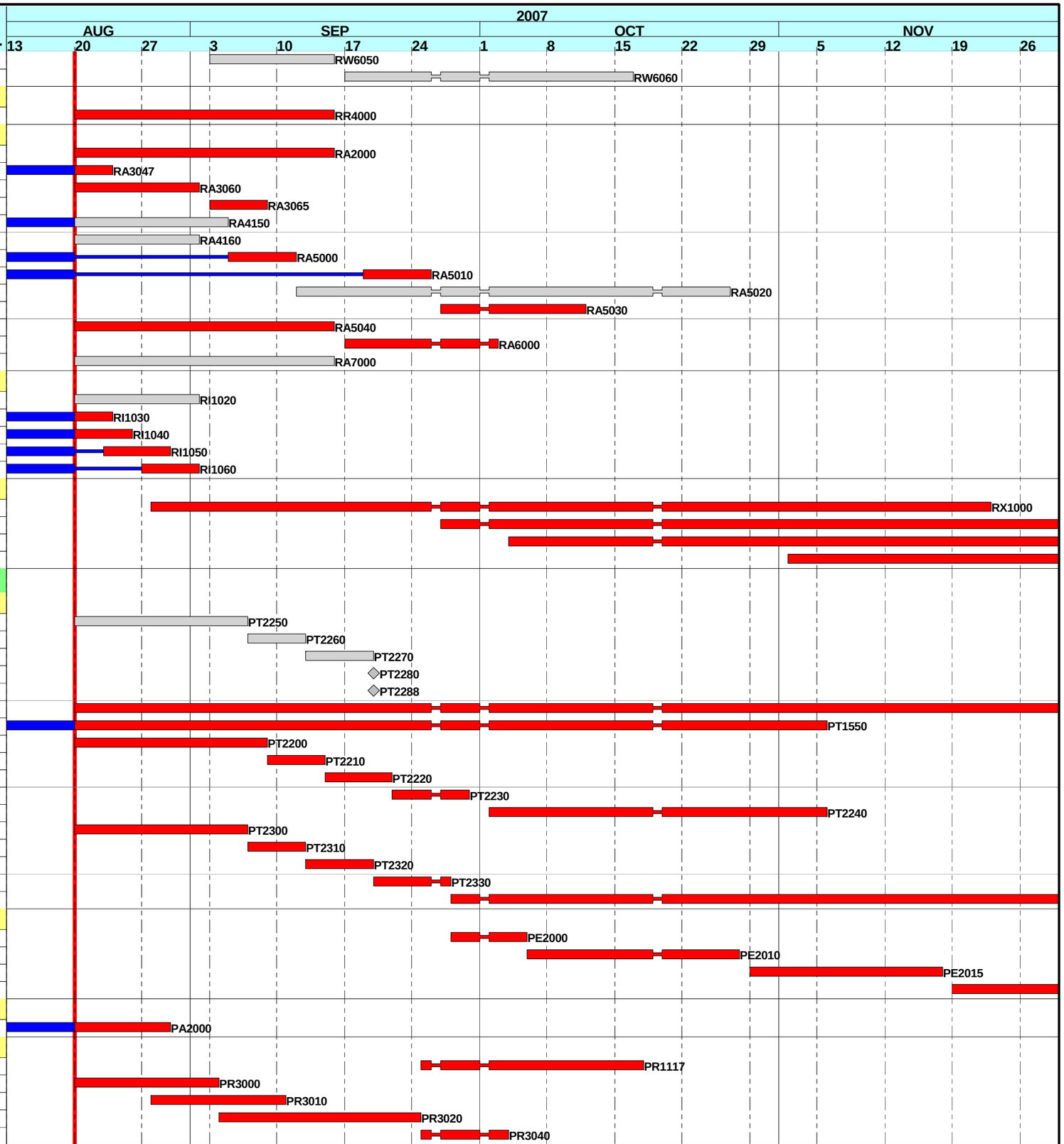
RW6050	NNTM Wall A -Debris Col Area Acces Ramp NOT USED	12	03SEP07	15SEP07	0	12
RW6060	NNTM Wall A - Debris Coll Area Finishes NOt USED	24	17SEP07	16OCT07	0	24
Drainage Works						
RR4000	Ching Cheung Rd. E/B - Stormwater in Exist C/way	24	20AUG07	15SEP07	0	24
Utilities & Roadworks						
RA2000	Lai Wan Road - Footpath below Slope CCR-S4	24	20AUG07	15SEP07	0	24
RA3047	Ching Cheung Rd. W/B -Sign Gantry ADS4-1	6	10AUG07A	23AUG07	40	4
RA3060	Ching Cheung Rd. W/B - Street Lighting	12	20AUG07	01SEP07	0	12
RA3065	Ching Cheung Rd. Road Marking & Signs	6	03SEP07	08SEP07	0	6
RA4150	Ching Cheung Rd. New E/B Slip Road - C/Barriers	18	16APR07A	04SEP07	5	14
RA4160	Ching Cheung Rd. New E/B Slip Road - St. Lights	12	20AUG07	01SEP07	0	12
RA5000	Ching Cheung Rd. W/B Exist C/Way - Formation	36	02MAY07A	11SEP07	70	6
RA5010	Ching Cheung Rd. W/B Exist C/Way - Sub-base	24	03JUL07A	25SEP07	70	6
RA5020	Ching Cheung Rd. W/B Exist C/Way -Kerbs NOT USED	36	12SEP07	26OCT07	0	36
RA5030	Ching Cheung Rd. Resurface Existing W/B C/way	12	27SEP07	11OCT07	0	12
RA5040	Ching Cheung Rd. W/B Exist C/Way - C/Barriers	24	20AUG07	15SEP07	0	24
RA6000	Ching Cheung Rd. Resurface Existing E/B C/way	12	17SEP07	02OCT07	0	12
RA7000	Lai Wan Road - Watermains & Hydrants FH4 & FH5	24	20AUG07	15SEP07	0	24
Lai Wan Overpass Irrigation Pump House						
RI1020	Lai Wan O/pass Irig P/H - Waterproofing NOT USed	12	20AUG07	01SEP07	0	12
RI1030	Lai Wan O/pass Irig Pump House - Building Works	75	01MAR07A	23AUG07	80	4
RI1040	Lai Wan O/pass Irig Pump House -Mechanical Works	36	05JUN07A	25AUG07	85	6
RI1050	Lai Wan O/pass Irig Pump House - Electrical Work	36	05JUN07A	29AUG07	85	6
RI1060	Lai Wan O/pass Irig Pump House - FS Installation	36	09JUN07A	01SEP07	85	6
Landscape Works						
RX1000	Landscaping - Formation	72	28AUG07	22NOV07	0	72
RX1010	Landscaping - Paving	65	27SEP07	13DEC07	0	65
RX1020	Landscaping - Irrigation System	72	04OCT07	28DEC07	0	72
RX1040	Landscaping - Soiling & Planting	48	02NOV07	28DEC07	0	48
At Grade Works - Butterfly Valley Interchange						
Temporary Traffic Management Schemes						
PT2250	TTMS CP Rd-KC N/B for CCR-R4 -Prepare (NOT USED)	16	20AUG07	06SEP07	0	16
PT2260	TTMS CP Rd-KC N/B for CCR-R4 - CRE End(NOT USED)	6	07SEP07	12SEP07	0	6
PT2270	TTMS CP Rd-KC N/B for CCR-R4 - R/A (NOT USED)	7	13SEP07	19SEP07	0	7
PT2280	TTMS CP Rd-KC S/B - Re-open Slip Road (NOT USED)	0		19SEP07	0	0
PT2288	TTMS CP Rd-KC N/B-Close Loop to CC Rd(NOT USED)	0		19SEP07	0	0
PT2290	TTMS CP Rd-KC N/B for CCR-R4 - Implem(NOT USED)	450*	20AUG07	17FEB09	0	450*
PT1550	TTMS CP Rd-KC S/B for CCR-R5 - Implementation	1,023*	11JUN04A	05NOV07	10	64*
PT2200	TTMS CP Rd-KC S/B for Paving -Prepare for Review	18	20AUG07	08SEP07	0	18
PT2210	TTMS CP Rd-KC S/B for Paving - CRE Endorsement	6	09SEP07	14SEP07	0	6
PT2220	TTMS CP Rd-KC S/B for Paving - Roadworks Advice	7	15SEP07	21SEP07	0	7
PT2230	TTMS CP Rd-KC S/B for Paving - Site Preparation	6	22SEP07	29SEP07	0	6
PT2240	TTMS CP Rd-KC S/B for Paving - Implementation	29*	02OCT07	05NOV07	0	29*
PT2300	TTMS CP Rd-KC N/B for 11NW-A/C66-Prep for Review	16	20AUG07	06SEP07	0	16
PT2310	TTMS CP Rd-KC N/B for 11NW-A/C66 - CRE Endorse	6	07SEP07	12SEP07	0	6
PT2320	TTMS CP Rd-KC N/B for 11NW-AC66 - Roadwks Advice	7	13SEP07	19SEP07	0	7
PT2330	TTMS CP Rd-KC N/B for 11NW-A/C66 - Site Prepare	6	20SEP07	27SEP07	0	6
PT2340	TTMS CP Rd-KC N/B for 11NW-A/C66 - Implement	144*	28SEP07	21MAR08	0	144*
Earthworks & Slopeworks - 11NW-A/C66						
PE2000	Slope 11NW-A/C66 - Hoardings / Fencing	6	28SEP07	05OCT07	0	6
PE2010	Slope 11NW-A/C66 - Trim Slope	18	06OCT07	27OCT07	0	18
PE2015	Slope 11NW-A/C66 - Platform for Soil Nailing	18	29OCT07	17NOV07	0	18
PE2017	Slope 11NW-A/C66 - Soil Nails - Test Nail	12	19NOV07	01DEC07	0	12
Drainage Works						
PA2000	C.P.Rd-K.C. S/B - Stormwater Drainage	24	14JUN07A	29AUG07	85	9
Utilities & Roadworks						
PR1117	New CLP 11Kv Cable Laying in front of CCR-R5	18	25SEP07	17OCT07	0	18
PR3000	C.P.Rd. Loop to Slip Road C - Formation	13	20AUG07	03SEP07	0	13
PR3010	C.P.Rd. Loop to Slip Road C - Sub-base	12	28AUG07	10SEP07	0	12
PR3020	C.P.Rd. Loop to Slip Road C - Kerbs	18	04SEP07	24SEP07	0	18
PR3040	C.P.Rd. Loop to Slip Road C - Pavement	6	25SEP07	03OCT07	0	6



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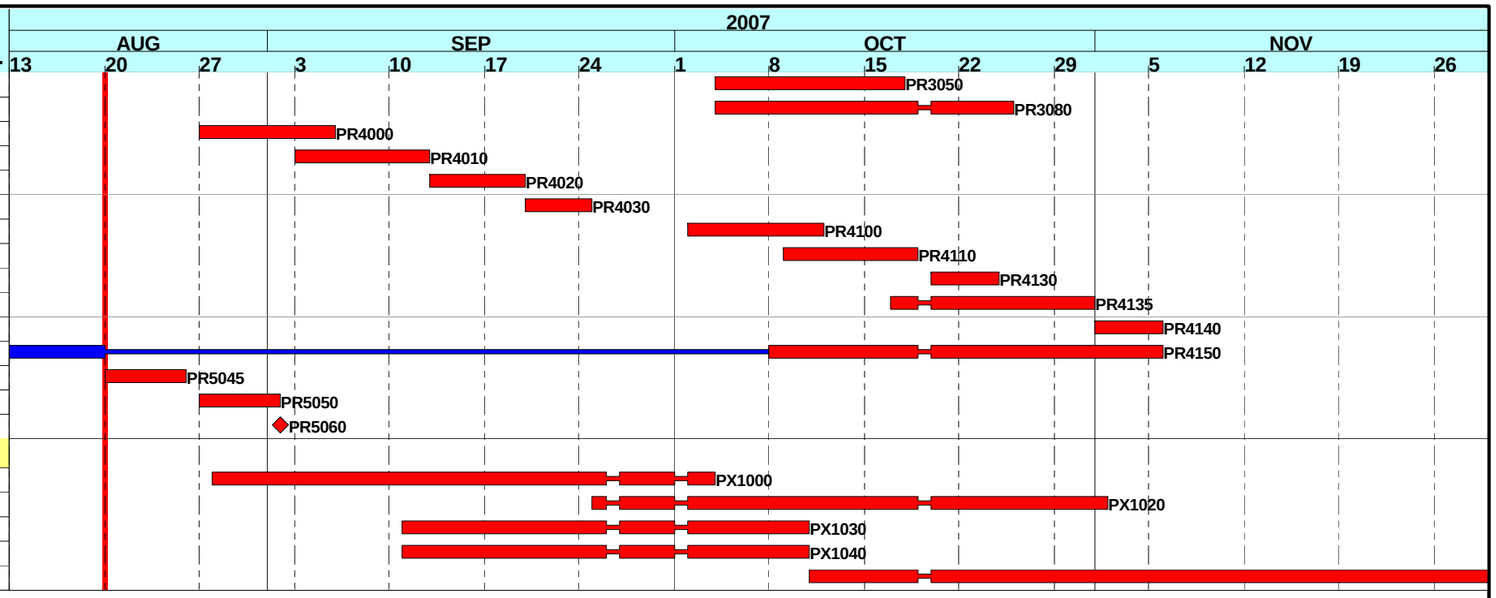
PR3050	C.P.Rd. Loop to Slip Road C - Street Lighting	12	04OCT07	17OCT07	0	12
PR3080	C.P.Rd. Loop to Slip Road C - Crash Barriers	18	04OCT07	25OCT07	0	18
PR4000	C.P.Rd.-K.C. S/B L/H C/Way - Excavate & Format'n	9	27AUG07	05SEP07	0	9
PR4010	C.P.Rd.-K.C. S/B L/H C/Way - Sub-base	9	03SEP07	12SEP07	0	9
PR4020	C.P.Rd.-K.C. S/B L/H C/Way - Kerbs	6	13SEP07	19SEP07	0	6
PR4030	C.P.Rd.-K.C. S/B L/H C/Way - Pavement	4	20SEP07	24SEP07	0	4
PR4100	C.P.Rd.-K.C. S/B R/H C/Way - Excavate & Format'n	9	02OCT07	11OCT07	0	9
PR4110	C.P.Rd.-K.C. S/B R/H C/Way - Sub-base	9	09OCT07	18OCT07	0	9
PR4130	C.P.Rd.-K.C. S/B R/H C/Way - Pavement	4	20OCT07	24OCT07	0	4
PR4135	C.P.Rd.-K.C. S/B - Street Lighting	12	17OCT07	31OCT07	0	12
PR4140	C.P.Rd.-K.C. S/B - Road Markings & Signage	4	01NOV07	05NOV07	0	4
PR4150	Castle Peak Road - Reinstate Junction	29	26JUL07A	05NOV07	5	24
PR5045	C.P.Rd-K.C. S/B to C.C.Rd E/B - Street Lighting	6	20AUG07	25AUG07	0	6
PR5050	C.P.Rd-K.C. S/B to C.C.Rd E/B - Rd Marks & Signs	6	27AUG07	01SEP07	0	6
PR5060	C.P.Rd-K.C. S/B to C.C.Rd E/B - Re-open Road	0		01SEP07	0	0
Landscape Works						
PX1000	Landscaping - Earthworks & Formation	30	28AUG07	03OCT07	0	30
PX1020	Landscaping - Paving	30	25SEP07	01NOV07	0	30
PX1030	Landscaping - Irrigation System	24	11SEP07	10OCT07	0	24
PX1040	Landscaping - Soiling & Planting	24	11SEP07	10OCT07	0	24
PX1100	Landscape Establishment Works	302	11OCT07	10OCT08	0	302



Start Date	23SEP03
Finish Date	17FEB09
Data Date	20AUG07
Run Date	27AUG07 08:56

P3 File : LU47

Highways Department Contract No. HY/2003/01
Route 8 - Lai Chi Kok Viaduct
3 Month Rolling Programme
from 21 August 2007

acciona Infraestructuras

Delcan-Imtech-GTECH Joint Venture
Contract No. HY/2003/05
Route 8 - Traffic Control and Surveillance System

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

Record Date:31-08-2007

5-week Rolling Programme of Site Works
Rev: 0

Item No.	Civil Area	Portion	Work Area	Activity	[8]Type of major equipment / plant to be used	S 18	S 19	M 20	T 21	W 22	T 23	F 24	S 25	S 26	M 27	T 28	W 29	T 30	F 31
1	Works Area	A	DIGJV Site Office	Pesticide spraying	N.A.			A											
2	Works Area	A	Subcontractor warehouse	Material preparation for cable containment / Cable laying	N.A.														
3	Works Area	A	DIGJV Site Office	Assemble of control cabinet	N.A.	R					R	R	R				R	R	R
4	-	-	TMCA	VD trial test	N.A.													A	
5	Road T3	G	Road T3	Routine Checkings	Van														
6	Road T3	G	Road T3 / underpass, SB & NB	Cable laying, remedial work	Scissor lift				A										
7	Road T3	G	Road T3 / Road Gantry / underpass	[2] TCSS Traffic field equipment (CCTV & VD)	Scissor lift	R		R		R									
8	Road T3	G	Road T3 / underpass, SB & NB	ET installation \ TCSS cabinet termination	Van					A	A								
9	Road T3	G	Road T3 / underpass, Kiosk S2 & S3	Cable containment / Cable laying /Cable termination	Van								R						A
10	Road T3	G	Road T3, NB (TTA)	Cable laying, cable termination, cabinet installation	Scissor lift					A	A						R		
11	Road T3	G	Road T3 / underpass, SB & NB	Fill up opening	Van														
12	SHT	H1A, H1B, H1C	SHT (SB,NB, NPB, SPB)	Routine Checkings	Van														
13	SHT	H1B, H1C	SHT - NB & SB	Fill up opening	Metal scaffolding			A										A	
14	SHT	H1B, H1C	SHT - NB & SB	PA system, Radio system, remedial work & Pre-test	Scissor lift			A	A	A	A								A
15	SHT	H1B, H1C	SHT - NB	[2] TCSS Traffic field equipment (CCTV & VD)	Scissor lift	R		R	R	R	R	R							
16	SHT	H1B, H1C	SHT, SB&NB, tunnel entrance	Installation of mounting framework at tunnel portals	Crane lorry										A				A
17	SHT	H2	SHT - Open road Section	Routine Checkings	Van														
18	SHT	H2	SHT Open road section	TCSS Traffic field equipment installation, rectification, pretest	Van / lorry	R		R	R		R					A	A		
19	SHT	H3	SHT - RCFE	Routine Checkings	Van														
20	SHT	H3	SHT - RCFE (S/B & N/B)	[2] TCSS Traffic field equipment	Scissor lift	R		R	R	R	R	R	R						
21	SHT	H3	SHT - RCFE (S/B & N/B)	Radio system remedial work / pre-test	Scissor lift			A							A				
22	SHT	H3	SHT - RCFE (S/B & N/B)	Fill up opening															
23	ENT	I1, I2 & I3	ENT Tunnel (SB, NB, NPB, SPB, ADB, VB, Toll Plaza & Butterfly Valley)	Routine checkings	Van														
24	ENT	I2	ENT -S/B & N/B, BV	Field equipment (TCD / cabinet) remedial work, cable termination	Scissor lift	A		A	A		A	A	A		A				
25	ENT	I2	ENT -S/B & N/B	Cabling, ET system remedial work & Fill-up opening	Scissor lift	A		A		A		A			A		A		
26	ENT	I2	ENT -S/B & N/B	[2] TCSS Traffic field equipment (CCTV & VD)	Scissor lift	R		R		R					A	A	A	A	
27	ENT	I2	ENT -S/B, N/B & CP	Cable termination / Cabling remedial work / equipment rack remedial work	Scissor lift					A						A	A	A	
28	ENT	I3	ENT - ADB	PA, PBX & Radio system remaining work	Metal scaffolding	A			A								A	A	A
29	ENT	I3	ENT -ADB, control rm & computer rm	Central control system, pre-test	Van				R	R	R	R	R		R	R	R		
30	ENT	I1 & I3	ENT, SB&NB, tunnel entrance, near NPB & SPB	Cable conduit installation / Setting out / Installation of mounting framework at tunnel portals	Crane lorry										R	R	R		A
31	ENT	I1 & I3	ENT - NPB, SPB & ADB	PA, BPBX & Radio system remedial work / System pre-test	Van				R	R			R			R			
32	ENT	I1	ENT - BV, Kiosk K4, K3	Cable containment / Cable laying / Cable termination	Van														
33	ENT	I1	ENT, BV & Toll Plaza	Field equipment remedial work, cable termination	Crane lorry			A											
34	ENT	I2	ENT -S/B, N/B & CP	ET krone box remedial work	Van				A	A	A				A	A			
35	ENT	I2	ENT, VB	PA system, cable containment, remedial work						A	A								
36	LCKV	J1	LCKV	Routine checkings	Van														
37	LCKV	J1 & J2	LCKV	[3] & [7] TCSS's field equipment / cable containment / Cabinet installation / Cable termination	Scissor lift						A	A			A	A	A	A	A
38	LCKV	J2	LCKV, Kiosk K2	Cable containment / Cable laying /Cable termination	Van	R		R	R	R	R	R	R					A	
39	SHT	H1A- H1C	SHT & Portal Building	SCT for Radio system	Van														
40	SHT	H1A- H1C	SHT & Portal Building	SCT for CCTV, VDS	Van														
41	SHT	H1A- H1C & H2	SHT, SB & NB, Open road	SCT - TCSS Cabinet	Van					R	R		R		A	A			A
42	SHT	H1A- H1C	SHT, SB & NB	SCT for fibre cable test (Node 11, 12 & Kiosk S1)	Van						A								
43	SHT	H1A- H1C	SHT, SB & NB	SCT - Radio system	Van					A						A	A		
44	Road T3	G	Road T3	SCT for SDH (Node 12)	Van					R									
45	Road T3	G	Road T3	SCT for power cable	Van						A		A						
46	T3 & RCFE	G & H3	T3 & RCFE	SCT for Traffic Control Devices	Van							R	R		R	R	R	R	
47	T3 & RCFE	G & H3	T3 & RCFE	SCT for CCTV, VDS & PA	Van														
48	T3 & RCFE	G & H3	T3 & RCFE	SAT for Central System, Pt to Pt	Van														
49	RCFE	H3	RCFE	SCT - Node 12	Van														
50	RCFE	H3	RCFE	SAT for Central system - pt to pt	Van														
51	ENT	I1 & I3	ENT & Portal building	SCT for SDH (Node 9)	Van					A									
52	ENT	I1 -I3	ENT & Portal building	SCT - Traffic control devices, CCTV, VHD	Van														
53	ENT	I1 - I3	ENT & Portal building	SCT for Radio system	Van													R	R
54	ENT	I2	ENT	SCT for Cabinet	Van							A							
55	ENT	I2	ENT	SCT for CCTV & VD	Van														
56	ENT	I2	ENT	SCT for power cable	Van										A	A	A	A	A
57	ENT	I2	ENT	SCT for fibre cable	Van												A		
58	ENT	I1 - I3	ENT & Portal building	SAT for Central system	Van	R		R	R	A	R	R	R		R	R			
59	ENT	I1 - I3	ENT & Portal building	SAT for PA	Van														
60	LCKV	J1 & J2	LCKV	SCT for fiber cable & power cable	Van					A	A							R	R
61	LCKV	J1 & J2	LCKV	SCT - Traffic control devices	Van														
62	LCKV	J1 & J2	LCKV	SAT - Central system, Point to point	Van														
63	R8K	R8K	R8K	SCT for ET system	Van													R	R
64	R8K	R8K	R8K	SCT for Radio system	Van														
65	R8K	R8K	R8K	SAT for ET system	Van														
66	R8K	R8K	R8K	SAT - R8K, SDH	Van														
67	R8K	R8K	R8K	SAT - Radio System	Van														
68	R8K	R8K	R8K	SAT - ET system	Van														
69	R8K	R8K	R8K	SAT - PA & BPBX system	Van														
70	NSCV	D	NSCV	Routine checkings	Van														
71	NSCV	D	NSCV	[2] TCSS Traffic field equipment & Cabinet	Crane Lorry														
72	NWT	B & C	NWT (E/B, W/B & WEB)	Routine checkings	Van														
73	NWT	D	EPB & WCB	Fill-up opening & PA system remedial work	Van	A		A		A									

Sep-07 (continued columns, no letter entries):

S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Legend :
= Planned activity
= Work Done
= Public Holiday

R - Re-scheduled
N - New activity
A - Awaiting spatial co-ordination for TCSS installation

Note:
[1] Works depends on spatial co-ordination among related Main Contractor and TCSS.
[2] Works Subject to Traffic Tube arrangement
[3] Works subject to condition of site access & civil provision.
[4] Works depend on Civil Contractor to complete / rectify their provision

Distribution: Arup-Johnny Mac, Hara,Alex C, Franco L, Hamlyn K, Joseph C, KT Chan, Patrick L, Simon Cheung, Philip C, PF Li, Sharon H, Tony C, Wilson W, Winnie M, Donald L, Johnny L, Kenny C , Thomas Wong, Andy Wong

Remark: 1) The schedule only shows the anticipated works planned and shall be subject to changes which will be reported by daily labour forecast on ad-hoc bases.
2) Should it have any query on the above activity, please approach the following personnel.
R8K : KY Chan / J. Lam / A. Luk ; R8T: KY Chan / A. Kan / CK Fung / A. Luk
R8K / R8T - SCT / SAT: KY Chan / YS Ma / HF Leung

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

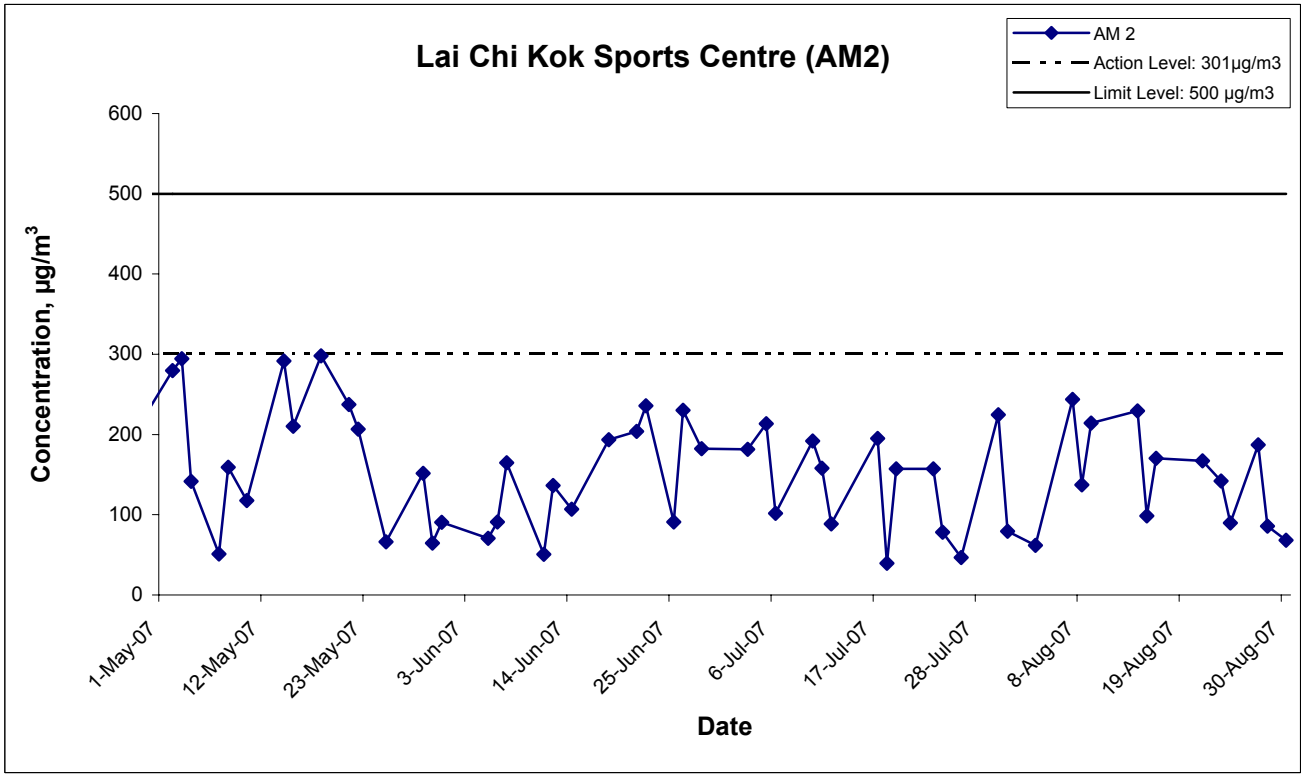
Construction Noise

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

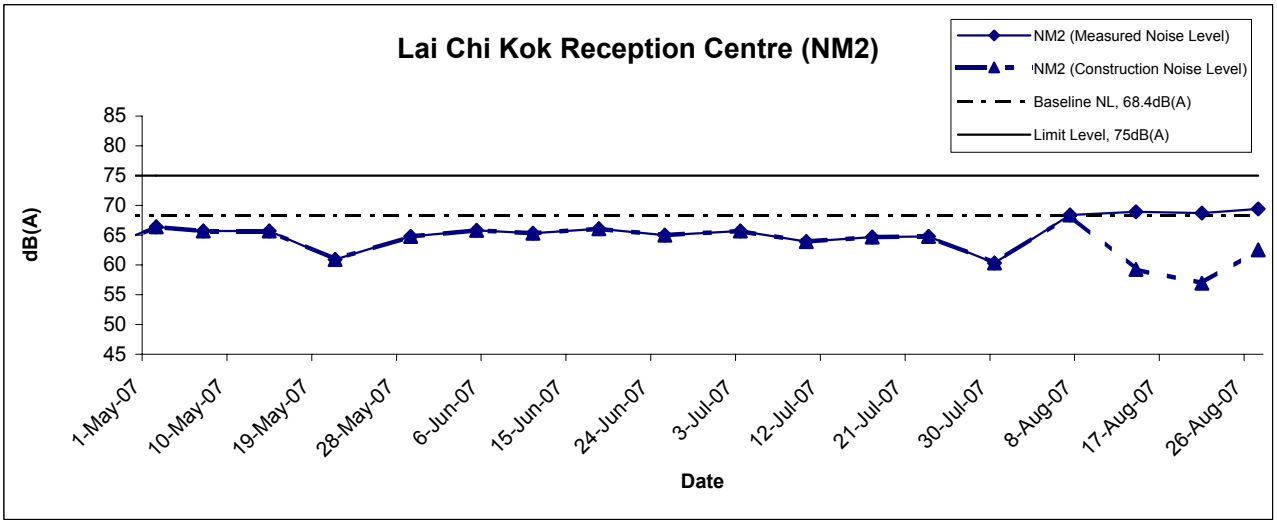
1-hr TSP Levels

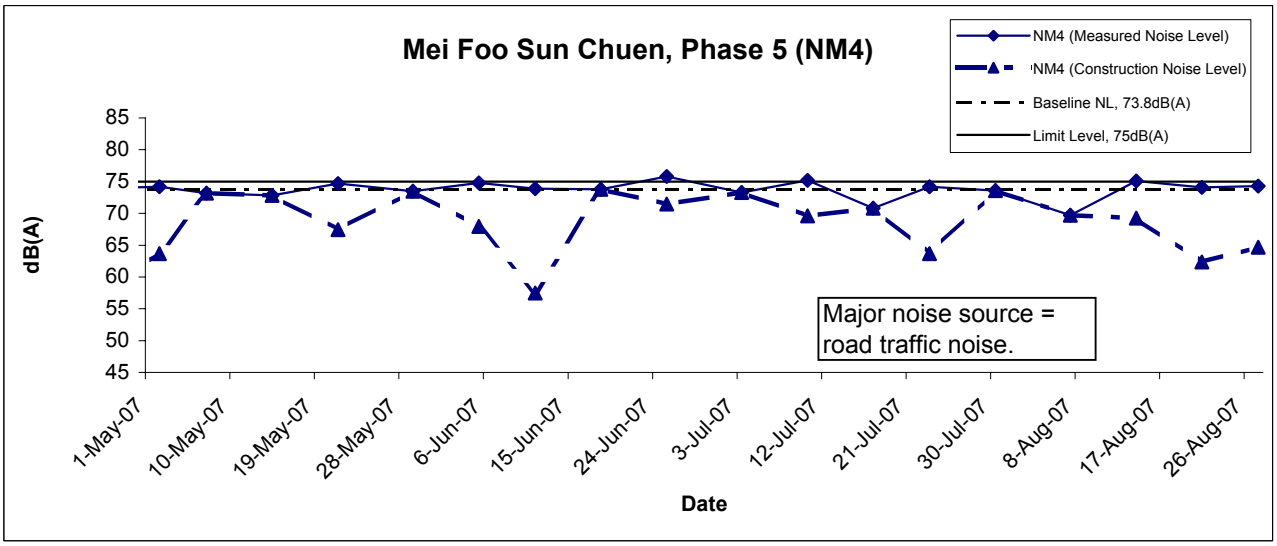


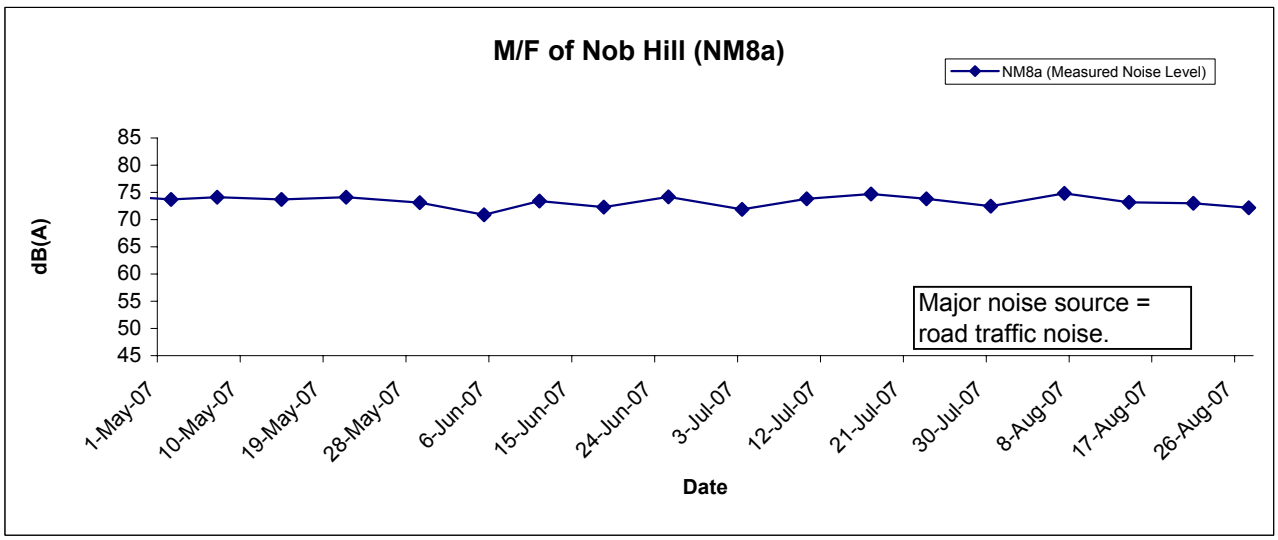
Title Route 8 (previously known as Route 9) between Cheung Sha Wan & Sha Tin Contract HY/2003/01 - Lai Chi Kok Viaduct Graphical Presentation of 1-hour TSP Impact Monitoring Results	Scale N.T.S	Project No. MA3024	CINOTECH
	Date Aug 07	Appendix E	

APPENDIX F
GRAPHICAL PRESENTATION OF NOISE MONITORING RESULTS

Noise Levels



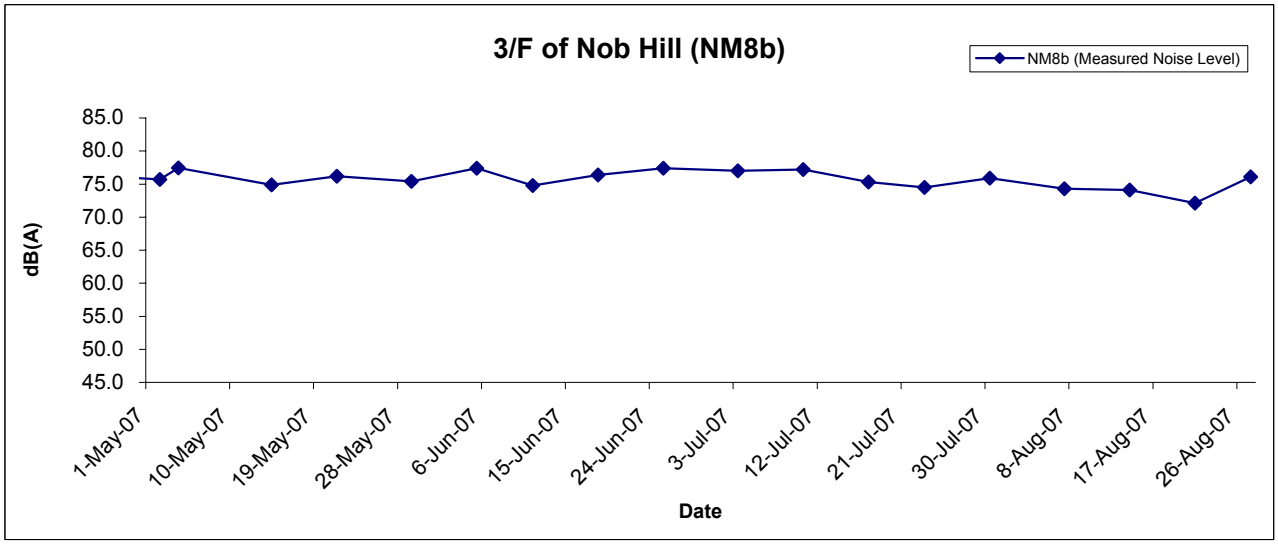


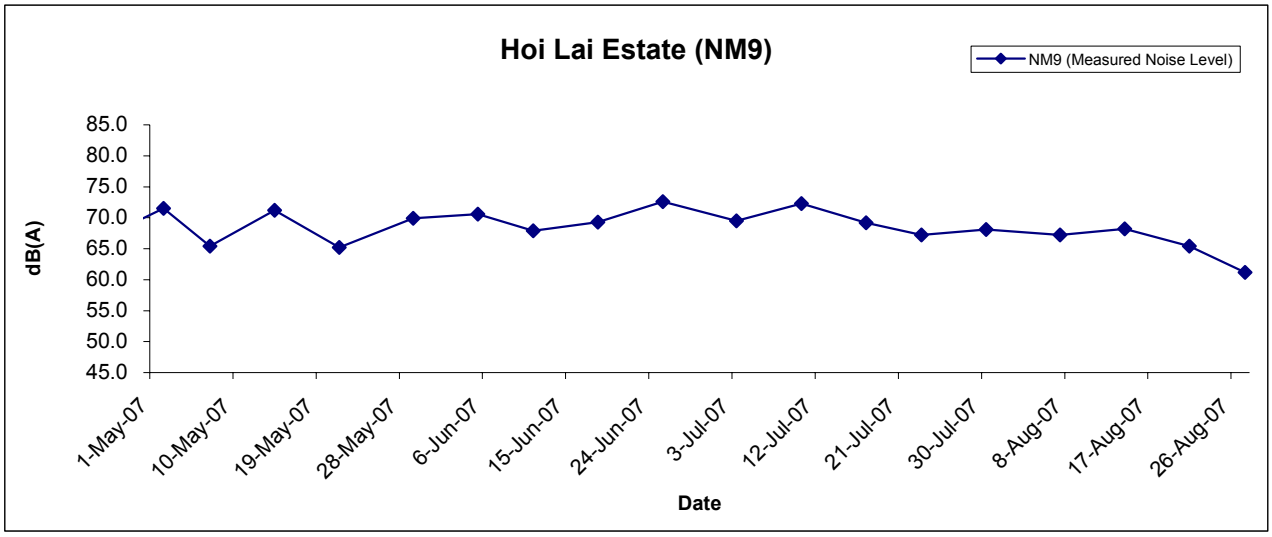


* Construction Noise Level = Measured Noise Level - Baseline Level
(If the measured noise level is lower than the baseline level, the construction noise level will be taken as the meaured one)

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: Aug 07	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: Aug 07	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-RW0729-06	27/12/06	26/6/07	*Location: Ching Cheung Road near Butterfly Valley* *Time period:* 0900-1900 (general holiday including Sundays)	Expired
GW-RW0755-06	14/1/07	10/6/07	*Location:* Lai Po Road near Hoi Lai Estate *Time Period:* 0900-1900 (general holiday including Sundays)	Expired
GW-RW0027-07	31/1/07	30/6/07	*Location:* Lai Wan Road *Time Period:* any day not being a general holiday for 2100-2400 (immediately following a general holiday) and 2100-0700 (not immediately following a general holiday).	Expired
GW-RW0057-07	21/2/07	21/7/07	*Location:* Kwai Chung Road near Lai Chi Kok Interchange *Time Period:* any day not being a general holiday for 2100-2400 (immediately following a general holiday) and 2100-0700 (not immediately following a general holiday).	Expired
GW-RW0058-07	25/2/07	19/8/07	*Location:* Ching Cheung Road section between Nob Hill to Castle Peak Road *Time Period:* any two days being a general holiday including Sundays for 0900-2100	Expired
GW-RW0072-07	27/2/07	27/7/07	*Location:* Ching Cheung Road near Mei Foo Sun Chuen *Time Period:* 0700-2300 (general holiday including Sundays) and 1900-2300 (any day not being a general holiday).	Expired
GW-RW0093-07	21/3/07	19/9/07	*Location:* Lai Po Road near Hoi Lai Estate *Time Period:* 0000-2400 (general holiday including Sundays) and 1900-0700 (any day not being a general holiday).	Valid
GW-RW0097-07	22/3/07	21/9/07	*Location:* Butterfly Valley Road, Lai Chi Kok *Time Period:* 0700-2300 (general holiday including Sundays) and 1900-2300 (any day not being a general holiday).	Valid

Permit No.	Valid Period		Details	Status
	From	To		
GW-RW0121-07	27/3/07	27/9/07	*Location:* Butterfly Valley, Lai Chi Kok *Time Period:* 0700-2300 (general holiday including Sundays) and 1900-2300 (any day not being a general holiday).	Valid
GW-RW0129-07	30/3/07	29/9/07	*Location:* Construction site at junction of Ching Cheung Road and Castle Peak Road *Time Period:* 0700-2300 (general holiday including Sundays) and 1900-2300 (any day not being a general holiday).	Valid
GW-RW0130-07	4/04/07	3/10/07	*Location:* Castle Peak Road near Ching Cheung Road *Time Period:* 0000-2300 (general holiday including Sundays) and 1900-2300 (any day not being a general holiday).	Valid
GW-RW0140-07	5/04/07	4/09/07	*Location:* Butterfly Valley near O Pui Shan Boy's Home *Time Period:* 0700-2300 (general holiday including Sundays) and 1900-2300 (any day not being a general holiday).	Valid
GW-RW0145-07	10/04/07	9/06/07	*Location:* Junction of Kwai Chung Road and Butterfly Valley Road *Time Period:* any day not being a general holiday for 2100-2400 (immediately following a general holiday) and 2100-0700 (not immediately following a general holiday).	Expired
GW-RW0146-07	6/04/07	5/08/07	*Location:* Ching Cheung Road near Mei Foo Sun Chuen *Time Period:* 0900-1900 (general holiday including Sundays)	Expired
GW-RW0213-07	13/05/07	1/10/07	*Location:* Ching Cheung Road Near Nob Hill, Kowloon *Time Period:* 0900-2000 (general holiday including Sundays)	Valid
GW-RW0221-07	15/05/07	14/09/07	*Location:* Ching Cheung Road Near Nob Hill, Kowloon *Time Period:* 0000-0600 (any day not being a general holiday or not immediately following a general holiday including Sundays)	Valid
GW-RW0248-07	20/05/07	19/10/07	*Location:* Ching Cheung Road Near Nob Hill, Kowloon *Time Period:* 0900-2000 (general holiday including Sundays)	Valid
GW-RW0252-07	31/05/07	29/09/07	*Location:* Ching Cheung Road Near Mei Foo Sun Cheun, Kowloon *Time Period:* 0000-0600 (any day not being a general holiday or not immediately following a general holiday including Sundays)	Cancelled on 21/06/07
GW-RW0288-07	17/06/07	15/07/07	*Location:* Ching Cheung Road Near Lai Chi Kok Park, Kowloon *Time Period:* 0900-1600 (general holiday including Sundays)	Expired
GW-RW0291-07	21/06/07	29/09/07	*Location:* Ching Cheung Road Near Mei Foo Sun Cheun, Kowloon *Time Period:* 0000-0600 (any day not being a general holiday or not immediately following a general holiday including Sundays)	Valid
GW-RW0292-07	27/06/07	27/10/07	*Location:* Ching Cheung Road Near Butterfly Valley, Kowloon *Time Period:* 0900-2100 (general holiday including Sundays) and 2100-0700 (any day not being a general holiday).	Valid
GW-RW0328-07	08/07/07	04/11/07	*Location:* Ching Cheung Road near Nob Hill, Lai Chi Kok, Kowloon *Time Period:* 0900-2300 (general holiday including Sundays).	Valid
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).	Valid
GW-RW0349-07	15/07/07	11/11/07	*Location:* Ching Cheung Road section between Nob Hill and Castle Peak Road *Time Period:* 0900-2100 (anyone day being a general holiday, including Sundays).	Valid
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).	Valid
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).	Valid

Permit No.	Valid Period		Details	Status
	From	To		
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).	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. The complaint was raised by Mr. Chan,	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 boundary had been sealed up by cement as preventive measures.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			regarding the washout of muddy water from the works area of the R8-LCKV Project onto Lai Chi Kok Road. The washout caused nuisance to the drivers utilizing the road, and may also cause danger to the motorbikes.	During ET's weekly environmental site inspections on 17, 24 & 31 March 2004 and 7 April 2004, no serious noise nuisance induced by the Project works was observed at the construction sites near Nob Hill. Based on the information obtained, the complaint is considered due to the construction activities of the Project. Emergency remedial works had been taken by the Contractor to rectify the situation and preventive measures had also been implemented. Nevertheless, the Contractor was recommended to adopt the following measures to avoid re-occurrence of similar incidents: • to enhance surface runoff control measures along the site boundary; • to provide adequate training to the frontline workers; and • to regularly inspect temporary water supply equipment, such as hose pipe to make sure the equipment is in good condition.	
40809	Ching Cheung Road area near Nob Hill	22-Jul-04 (by EPD) 09-Aug-04 (by ET Leader)	EPD received a public noise complaint on 22 July 2004 about construction noise and dust generated from Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project, at the Ching Cheung Road Area near Nob Hill. EPD subsequently referred the complaint to the ET Leader of the Project on 9 August 2004. The complaint was about the construction noise and dust observed at the Ching Cheung Road area near Nob Hill. The locations of the works areas being concerned by the complainant include: 1. **Area A**: Works area between Nob Hill and Lai Chi Kok Park Swimming Pool 2. **Area B**: Works area between Ching	***Information Provided by RSS*** Information (construction activities and equipment adopted) in a 2-week period before the date of complaint, i.e. 7 to 21 July 2004, was obtained from the Resident Site Staff. **Area A:** ▪ Item 1 – Drainage works by using 1 x backhoe; ▪ Item 2 – Bored piling works by using 1 x crawler crane, 1 x air compressor, 1 x reverse circulation drill and 1 x power pack; ▪ Item 3 – Trial trench excavation by man power; ▪ Item 4 – Gas main diversion by 1 x backhoe (performed by TGC's Contractor) **Area B:** No construction activity was undertaken in the concerned period. ***Review of Environmental Monitoring Results*** The routine monitoring stations, which are in the vicinity of the concerned works areas, include: Noise Monitoring	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			Cheung Road and Mei Lai Road / Lai Wan Road opposite to Mei Foo Sun Cheung (Phase 5) and Lai Chi Kok Public Library.	NM4: R/F of Mei Foo Sun Chuen (Phase 5) NM8a: M/F of Nob Hill NM8b: 3/F of Nob Hill <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: • 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.	
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	**Construction Activities** During the weekly site inspection on 17 Feb 05, piling work was being conducted at the concerned. The major powered	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			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.	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.	
50322	Seung Lai House, Wah Lai Estate (Slope S1)	11-Mar-05 (by EPD) 22-Mar-05 (by ET Leader)	Environmental Protection Department (EPD) received a public noise complaint on 11 Mar 05 about daytime construction noise generation from R8-LCKV. EPD subsequently referred the	**Construction Activities** 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	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			complaint to the Environmental Team (ET) Leader of the Project on 22 Mar 05. The complaint was raised by a resident of Seung Lai House of Wah Lai Estate, regarding the daytime (0800-1800 hrs) construction noise generated from the slope work and road work of R8-LCKV Project. As advised by EPD, the complainant is living on 20/F or above in Seung Lai House.	nail work and installation of u-channel and manholes. The major powered mechanical equipment included excavators, drilling machine and air compressor. In view of the separation of the site area (Slope S1) and the Seung Lai House (around 140 m) and also the traffic noise from Ching Cheung Road, the noise generated from the construction activities at Slope S1 was believed to be insignificant. ***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, 50404 & 50407	Wah Lai Estate	30-Mar-05, 31-Mar-05, 4-Apr-05 & 7-Apr-05 (by ET Leader via RSS)	Four public complaints were lodged by the residents of Wah Lai Estate regarding the construction noise from the site area of the Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project near Wah Lai Estate. The complaints were	**Construction Activities** The site of concern was likely to be Slope S1, which is around 140 m away from Wah Lai Estate. The major construction work at Slope S1 included trimming of slope, soil nail work and erection of u-channels and step channels.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			referred by the Resident Site Staff to the Environmental Team (ET) Leader on 30th, 31st March, 4th and 7th April 2005, respectively.	***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 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	***Construction Activities*** The site of concern was likely to Retaining Wall CC-R3, adjacent to Po Leung Kuk Tong Nai Kan College. The major construction works at this area included bored piling works and excavation works.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			April 2005.	***Environmental Monitoring*** According to the EM&A Manual, Mei Foo Sun Chuen, Phase 5 (NM4) is designated as one of the noise monitoring stations. Since the commencement of the impact monitoring programme, the construction noise levels recorded at this station were all below the noise criterion. ***Conclusion*** Based on the noise monitoring results at Station NM4 (Mei Foo Sun Chuen), no exceedance of daytime noise criterion of 75 dB(A) was recorded since the commencement of the impact monitoring programme. The complaint lodged is therefore considered not justifiable. ***Mitigation*** The Contractor has agreed to arrange the noisy activities to commence after 8:00 am. This arrangement could effectively reduce the disturbance to the residents within the more sensitive time period (7:00 am to 8:00 am). The Contractor also agreed to provide some temporary noise barriers for the noisy machinery if found necessary.	
50613	Mei Foo Sun Chuen	7-Jun-05 (by EPD) 13-Jun-05 (by ET Leader)	According to EPD, the complaint was raised by a resident of Mei Foo Sun Chuen (Block 7, Phase 5) on 7 June 2005. It was about construction dust emitted intermittently from the slope works undertaken on the other side of Mei Lai Road.	**Site Activities** The site of concern was likely to be CCR-R3. Bored piling works and demolition of existing retaining walls were undertaken at this area in the period between 1 and 7 June 2005. It was believed that the demolition of existing retaining wall, which involved concrete breaking, was the activity of concern.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			The complainant was particularly concerned about the fugitive dust emission during rock / concrete breaking activities.	*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 about construction noise nuisance caused by rock breaking work, which claimed to be started from 8:30am daily, carried out at Ching Cheung Road near Wah Lai Estate.	**Site Activities** The slope work at Slope S1 was likely to be the activity of concern. The work at Slope S1 recently included the operation of excavator mounted breakers, excavators and dump trucks. The time period of concern was within normal working hours (7am to 7pm) on a weekday not being a public holiday. The noise criterion is 75 dB(A) for domestic premises.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			The complainant hoped that the rock breaking work could start later i.e. be carried out from noon to afternoon and the site could be fully enclosed. The Environmental Team (ET) of the Project received the complaint on 21 July 2005 and forwarded it to the Resident Site Staff (RSS) to obtain necessary information.	*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) Project. EPD subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 7 November 2005. According to EPD, the complaint was	The site of concern was likely to be CCR-S4 and CCR-R3. According to RSS's records, bored piling works and soil nail drilling at CCR-R3, excavation works at CCR-S4 in the concerned period. ***Site Inspection*** After receipt of the complaint, an ad-hoc site inspection was carried by ET on 9 November 2005 and the following	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			raised by a resident of Mei Foo Sun Chuen. The complaint was about dark smoke, dust and noise nuisance caused by the construction work of R8-LCKV near Mei Foo Sun Chuen.	observations were made: 1. Breaking activities were undertaken at CCR-R2 and R3. Continuous water spray was applied by the workers for dust suppression. Movable noise barriers were erected to alleviate the noise impact. 2. The haul roads and exposed works areas were observed wet. A water sprinkler was installed at the CCR-S4 for water spraying. 3. Most of the slope was shot-creted to avoid wind erosion. 4. Bored piling work was carried out near the site exit of CCR-R3. Since bored piling mainly involves handling of wet materials, dust nuisance causing by this type of work is not anticipated. Gas exhaust from the machines was visually clear and no dark smoke was identified. *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 the complaint to the Environmental Team (ET) Leader of the Project on 18 January 2006. According to EPD, the complaint was lodged by a resident of Hoi Ming	**Site Activities** According to the RSS's records, night works were carried out by the Contractor between 2000 hrs on 14 January 2006 and 0530 hrs on 15 January 2006: • Delivery of segment from storage yard near Pier P5/L to Pier 15 for erection; • Stressing to temporary PT bars of segments at Pier B3. The above night works, which involved operation of tractor,	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			House of Hoi Lai Estate. The complaint was about construction noise nuisance caused by construction work of R8-LCKV carried out at Lai Po Road near Hoi Lai Estate. The noise nuisance was noted since 14 January 2006 during the periods from 2330 hrs to 0600 hrs.	mobile crane, lifting frame and generator, were undertaken under the two construction noise permits CNP no. GW-RW0739-05 and GW-RW0740-05. ***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 Team (ET) Leader of the Project on 19 January 2006. According to EPD, the complaint was raised by a resident of Mei Foo Sun Chuen via a Sham Shui Po District	**Site Activities** The site of concern was likely to be CCR-S4, CCR-R2 and CCR-R3. According to RSS's records, site activities included: • Trimming of existing rock slope at CCR-S4; • Excavation and rock dowel installation at CCR-R2; and • Construction of cable trough at CCR-R3 by CLP's contractor. ***Site Inspection*** After receipt of the complaint, an ad-hoc site inspection was carried by ET on 19 January 2006. No environmental deficiency	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			Council Member's Office. The complaint mentioned that residents of 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.	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. All about construction noise due to night works at Lai Po Road near Hoi Lai Estate.	**Site Activities** Since around mid-January 2006, segments were transported to Piers P15 and B4, under the permission of construction noise permit (CNP). 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***	Closed

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

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60420	Near both Hoi Lai Estate and West Kowloon Highway	20-Apr-06 (by the ET Leader)		The above construction activities were undertaken under a construction noise permit CNP no. GW-RW0172-06. Base on the RSS's preliminary investigation, it was suspected that the noise nuisance of concern was caused by loading and unloading of materials, hammering and/or dropping of materials on ground during the stressing works and transportation of precast segment by tractors. ***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 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.	Close

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

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

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				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. 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	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				evaluate the noise impact onto the residents of Mei Foo Sun Chuen. The monitoring location was original monitoring location NM4 (Mei Foo Sun Chuen Phase 5). The measured monitoring results were close to the reference baseline level. After correction of the mean background level, the monitoring data were below the noise criterion of 75 dB(A). ***Conclusion*** Base on the information collection and the monitoring result, the complaint was considered not justifiable. The Contractor had implemented noise mitigation measures to minimize the noise impact. Besides, the monitoring result were below the noise criteria of 75dB(A). However, the Contractor was still reminded to continuously implement their practice to prevent noise nuisance generation from the construction works. The environmental conditions of the site will be continuously reviewed by the RSS and the ET.	
60626	Near Phase 5 of Mei Foo Sun Chuen	26-Jun-06 (by ET Leader)	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint through a facsimile on 12 June 2006 about an environmental nuisance generated from Route 8 – Lai Chi Kok Viaduct 9R8-LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the ET Leader on 26 June 2006. According to the explanation from the RSS, this complaint was indeed the same as that received by the ET on 9 June 2006. The complaint initiated the 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	**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.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			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.	***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 facsimile). The facsimile was transferred to the RSS on 12 June 06 and eventually reached the ET on 26 June 06. Base on the information collection and the monitoring result, the complaint was considered not justifiable. The Contractor had implemented noise mitigation measures to minimize the noise impact. Besides, the monitoring result were	

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

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				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 NSRs after 19.00 hrs, the nearby ASRs and discharged to exiting road respectively	**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 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.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				top, back and the left hand side (LHS) with tarpaulin sheets; • Spraying water at the hole during drilling; • Wrapping the head of the drilling rig with a wet thick towel. ***Site Inspection and Environmental Monitoring*** During the monthly site inspection on 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: <u>Dust Nuisance</u> • Enclose dusty activity such as rock drilling by tarpaulin sheet; • Apply water spraying for any dust emissive activities, such as breaking, excavation, loading and unloading of dusty materials; • Cover long-term idle exposed slope surfaces and stockpiles with tarpaulin sheets.	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				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. The complaint was concerned about the noise generated from the construction works after 19:00 at the area near Ching Cheung Road, Nob Hill and Mei Lai Road	**Site Activities** According to RSS's record, rock dowel installation for slope stabilization at the Slope CCR-S1 was commenced on 22 August 2006 and would last for at least 6 months and the first batch of rock drilling works at the Slope CCR-S4 was commenced on 19 September 2006 and completed on 23 September 2006. ***Contractor Action*** After receiving the complaint, the Contractor has further enhanced the noise mitigation measures as follows:- • Placing of a wooden box to cover the head of drilling; • Spraying of water at the hole during drilling and erecting of nylon sheets; • Providing silent type drilling rigs for the drilling works at both Slopes CCR-S1 and CCR-S4 ***Site Inspection and Environmental Monitoring***	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				During the weekly site inspection on 27 September 2006, rock drilling at the Slope CCR-S1 was not carrying out. The ET observed that the work area was enclosed by tarpaulin sheets at three sides. Temporary noise barrier was erected at the working platform of the Slope CCR-S1. The ET also undertook an ad hoc site inspection at the concerned areas after 19:00 on 27 September 2006. No construction activities were observed and noise monitoring was not conducted. ***Conclusion*** Base on the information collected and the monitoring results, there was no exceedance of the noise monitoring results and noise mitigation measures were implemented by the Contractor during the rock drilling works. However, the Contractor was still reminded to carry out construction activities only within the permitted working hours (i.e. 07:00 – 19:00 on weekday) and to take sufficient noise mitigation measures to minimize the environmental impact on the nearby community: • Provide silent type drilling rigs for the drilling works; • Placing of wooden box to cover the head of drilling; • Apply water spraying for at the hole during drilling; The environmental conditions of the site will be continuously reviewed by the RSS and the Environmental Team through site inspections and monitoring exercises.	
61025	Lai Chi Kok Road Flyover near PCCW building	25-Oct-06 (by ET Leader)	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint on 25th October 2006 regarding noise nuisance generated from Route 8 – Lai Chi Kok Viaduct R8-LCKV) Project. Resident Site Staff (RSS) subsequently	**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.	Closed

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

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				reviewed by the Resident Site Staff and the Environmental Team.	
61103	Pier C13 and C14 at Lai Wan Road Overpass	3-Nov-06 (by ET Leader)	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint on 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. 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	Closed

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

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				construction works at the concerned areas before 18:00 and to carry out construction activities only within the permitted working hours (i.e. 07:00 – 19:00 on weekday). The environmental conditions of the site will be continuously reviewed by the RSS and the Environmental Team through site inspections and monitoring exercises.	
61121-2	Construction works opposite Tong Nai Kan College	21-Nov-06 (by ET Leader)	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. 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	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				acoustic materials at drill pit and applying water spraying for any dust emissive activities to minimize the noise and dust nuisance generated from these construction activities. The environmental conditions of the site will be continuously reviewed by the RSS and the Environmental Team through site inspections and monitoring exercises.	
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 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.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
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 Garden	17th January 2007 (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 17th January 2007. The complaint was concerned construction noise near Banyan Garden within the period of 01:00 – 02:00hr on 11th January 2007.	**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 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	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				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	Mei Lai Road and Tong Nai Kan College	21 July 2007	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 construction noise at the area near Mei Lai Road and Tong Nai Kan College.	**Site Activities** 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 RSS, noise mitigation measures has implemented at the site including: - installing a line of noise barriers formed by acoustic 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 at the concerned site was recorded. According to the EM&A Manual, a noise monitoring was conducted at Mei Foo Sun Chuen, Phase 5 (NM4) to monitor the construction noise The monitoring results showed that no exceedance was recorded for the noise criteria.	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 still reminded to continuously implement their practice and mitigation measures 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.	

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 noise Action Level exceedance was recorded due to a noise complaint received on 21st July 2007. The details of complaint can refer to Appendix I.
- No Limit Level exceedance was recorded in the reporting quarter.