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 1.1)

September to November 2006

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 twelfth 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 September and November 2006 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;
- Retaining wall construction;
- Drainage works;
- Construction of Wai Man Tsuen Pump House and Irrigation Pump House near Pier C14;
- Rock dowel installation;
- Offsite fabrication of parapet and noise barrier;
- Parapet installation;
- Erection of noise barrier; and
- Hydroseeding for slopes.

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

- No TCSS works was commenced in the reporting quarter.

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		
September 2006				
1-hr TSP	0	0	0	N/A
24-hr TSP	0	0	0	N/A
Noise	1[a]	0	0	Complaint Investigation
October 2006				
1-hr TSP	0	0	0	N/A
24-hr TSP	0	0	0	N/A
Noise	1[a]	0	1	Complaint Investigation
November 2006				
1-hr TSP	0	0	0	N/A
24-hr TSP	0	0	0	N/A
Noise	3[a]	0	0	Complaint Investigation

Remark:

(a) Total of five Action Level exceedances for noise monitoring were recorded due to noise nuisance complaints received on 25th September, 25th October, 3rd November and 21st November 2006 respectively.

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	4	Noise	Complaint investigation	Closed	---
	1	Air Quality and Noise			
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 the coming month include:

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

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

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

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

1. INTRODUCTION

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. David YEUNG of CH2M-HILL Hong Kong Ltd. was appointed as the IEC under Condition 2.1 of the EP. This is the twelfth quarterly EM&A report summarizing the EM&A works for the LCKV Project between September and November 2006.

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;
- Retaining wall construction;
- Drainage works;
- Construction of Wai Man Tsuen Pump House and Irrigation Pump House near Pier C14;
- Rock dowel installation;
- Offsite fabrication of parapet and noise barrier;
- Parapet installation;
- Erection of noise barrier; and
- Hydroseeding for slopes.

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

- No TCSS works was commenced in the reporting quarter.

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 September to November 2006. 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 except monitoring at all stations on 7th and 13th September 2006 was rescheduled to be conducted on 8th and 14th September 2006 respectively due to adverse weather.

4.6 No Limit Level exceedance was recorded in the reporting quarter. Five Action Level exceedances were recorded in the reporting quarter due to noise nuisance complaints were received on 25th September, 25th October, 3rd November and 21st November 2006. The details for complaints are shown in **Appendix I**.

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 September to November 2006. 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 Weekly site audits were conducted on 4th, 13th, 20th and 27th September, 4th, 11th, 18th and 25th October and 1st, 8th, 15th, 22nd and 28th November 2006 by ET. The audit sessions on 4th September, 1st November and 28th November 2006 were conducted with the representatives of HyD, IEC, ER, the Contractor and ET. The ER and the Contractor for TCSS works were invited to attend the monthly environmental site audit on 28th November 2006 and no environmental deficiency for TCSS works was observed.

5.3 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

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality	4-Sep-06	*Reminder* - Accumulation of stagnant water was observed at R3 and bridge deck. The Contractor was reminded to remove/spray larvicide onto stagnant water preventing mosquitoes from breeding.	The situation was found improved / rectified during the audit on 13-Sep-06.
	13-Sep-06	*Reminder* - Silty runoff accumulated at S1 Area. The Contractor was recommended to operate the pumping system for the silty standing water after rainstorm or during fine days.	The situation was found improved / rectified during the audit on 20-Sep-06.
	11-Oct-06	*Observation* - A browser was observed improperly pouring significant amount of water onto soil surface of bare ground near S3, which led to the generation and discharging of muddy runoff directly into the constructed storm water drainage channel.	The situation was found improved / rectified during the audit on 18-Oct-06.
	11-Oct-06	*Reminder* - The Contractor was reminded to pay attention to the stagnant water at site office area and R3.	The situation was found improved / rectified during the audit on 18-Oct-06.

Parameters	Date	Observations and Recommendations	Follow-up
	25-Oct-06	*Reminder* - Standing water was observed at the holes on the Bridge Deck.	The situation was found improved / rectified during the audit on 1-Nov-06.
	28-Nov-06	*Reminder* - Muddy soil accumulated around ditches at construction site of Lai Po Road was observed. The Contractor was reminded to remove the muddy soil as soon as possible and maintain the efficiency of the drainage system.	The situation will be inspected in next follow-up audit session.
	28-Nov-06	*Reminder* - The Contractor was reminded to modify the drainage system at S1 to divert the runoff from the site to the constructed drainage system.	The situation will be inspected in next follow-up audit session.
	28-Nov-06	*Reminder* - Standing water accumulated inside the holes at the deck was observed. The Contractor was reminded to clean up the standing water or apply larvicidal oil after rainfall.	The situation will be inspected in next follow-up audit session.
Air Quality	4-Sep-06	*Reminder* - Uncovered stockpile was observed at Wai Man Tsuen. The Contractor was reminded to cover the stockpile.	The situation was found improved / rectified during the audit on 13-Sep-06.
	20-Sep-06	*Reminder* - The contractor was reminded to provide haul road watering to avoid dust generation by vehicles movement.	The situation was found improved / rectified during the audit on 27-Sep-06.
	27-Sep-06	*Reminder* - Dusty materials were being excavated at Pier 4 Area during site inspection. The Contractor was recommended to cover the stockpile of dusty materials with impervious sheeting once the works finishes.	The situation was found improved / rectified during the audit on 4-Oct -06.
	1-Nov-06	*Reminder* - Fugitive dust from exposed slope and stockpile was observed at Lai Po Road. The Contractor was reminded to cover the slope and stockpile to tarpaulin sheet or provide water spraying.	The situation was found improved / rectified during the audit on 8-Nov-06.
	1-Nov-06	*Reminder* - Black smoke emission from a backhoe at Slope S3 was observed. The Contractor was reminded to provide proper maintenance for the backhoe.	The situation was found improved / rectified during the audit on 8-Nov-06.

Parameters	Date	Observations and Recommendations	Follow-up
Waste/ Chemical Management	4-Sep-06	*Observation* - Leakage of oily water was observed at Pier 4. The contractor was reminded to take measures to prevent oily water leakage.	The situation was found improved / rectified during the audit on 13-Sep -06.
	28-Nov-06	*Reminder* - Oil stain from machinery was observed at construction site of Lai Po Road, the Contractor was reminded to clean up the stain properly.	The situation will be inspected in next follow-up audit session.

Status of Environmental Licensing and Permitting

5.4 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. Five Action Level exceedances were recorded in the reporting quarter due to noise nuisance complaints were received on 25th September, 25th October, 3rd November and 21st November 2006.

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 Five environmental complaints were received in the reporting quarter.

Log no. 60925 (Received on 25th September 06)

7.2 The complaint was raised by a resident of Mei Foo Sun Chuen via the ICC about the noise generated from the construction works after 19:00 at the area near Ching Cheung Road, Nob Hill and Mei Lai Road. As advised by the RSS, noise mitigation measures including placing of a wooden box to cover the head of drilling**,** spraying of water at the hole during drilling and erecting of nylon sheets had already been provided at the Slope CCR-S1 to mitigate the noise and dust nuisance since August 2006. The Contractor has also provided silent type drilling rigs for the drilling works at both Slopes CCR-S1 and CCR-S4. As advised by the RSS, with reference to the site diary and RSS investigations at night on 4th September 2006 since the receipt of the last complaint (the complaint claimed that construction noise was noted after 19:00hr), all the site activities at the concerned areas were strictly conducted between 8:00hr and 18:00hr daily. Ad hoc site observation was conducted by RSS on 4th September 2006 and 14th September 2006 also confirmed that no construction activities were being carried out on site after 18:00. Based on the information collected, the complaint was considered not justifiable. The complaint report was issued on 5th October 2006.

Log no. 61025 (Received on 25th October 06)

7.3 The complaint was raised by a resident near the Lai Chi Road Flyover and PCCW building via the ICC regarding the construction noise 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. 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. 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. And the results show that, all corrected noise levels were below the noise criterion of 55 dB (A) which consists with the noise monitoring results from the Contractor. Based on the information collected, the complaint is considered justifiable although the monitoring results complied with the noise criteria. The complaint report was issued on 4th November 2006.

Log no. 61103 (Received on 3rd November 06)

7.4 The complaint was lodged by a resident at Nob Hill via the ICC regarding the noise generated from the general cleaning work of deck surface using water jet between Pier C13 and C14 at Lai Wan Road Overpass, at the evening of 28th October 2006. The work was noted finished at around 20:00hr. The complainant then enquired whether there is a Construction Noise Permit (CNP) for the work to be

carried out after 19:00hr. 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. . 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. Based on the information collected, the complaints were considered not justifiable. The investigation report was issued on 22nd November 2006.

Log no. 61121-1 (Received on 21st November 06)

7.5 The complaint was raised by a resident of Mei Foo Sun Chuen via the ICC hotline about the noise generated from the construction works between 09:00 and 18:30 at the area near Lai Chi Kok Swimming Pool. 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. According to the noise monitoring results at NM4, NM8a and NM8b, no exceedance of noise level has been recorded in the period between 1st and 21st November 2006. Base on the information collected and the monitoring results, the complaint was considered not justifiable. The investigation report was issued on 1st December 2006.

Log no. 61121-2 (Received on 21st November 06)

7.6 The complaint was raised by a resident near the Tong Nai Kan College via the ICC hotline about the dust and noise generated from the construction works opposite Tong Nai Kan College in the past years. 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. According to the air quality monitoring results at AM2 and noise monitoring results at NM4, no exceedance of air quality and noise level has been recorded in the period between 1st and 23rd November 2006. Base on the information collected and the monitoring results, the complaint was considered not justifiable. The investigation report was issued on 1st December 2006.

7.7 There were 34 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:

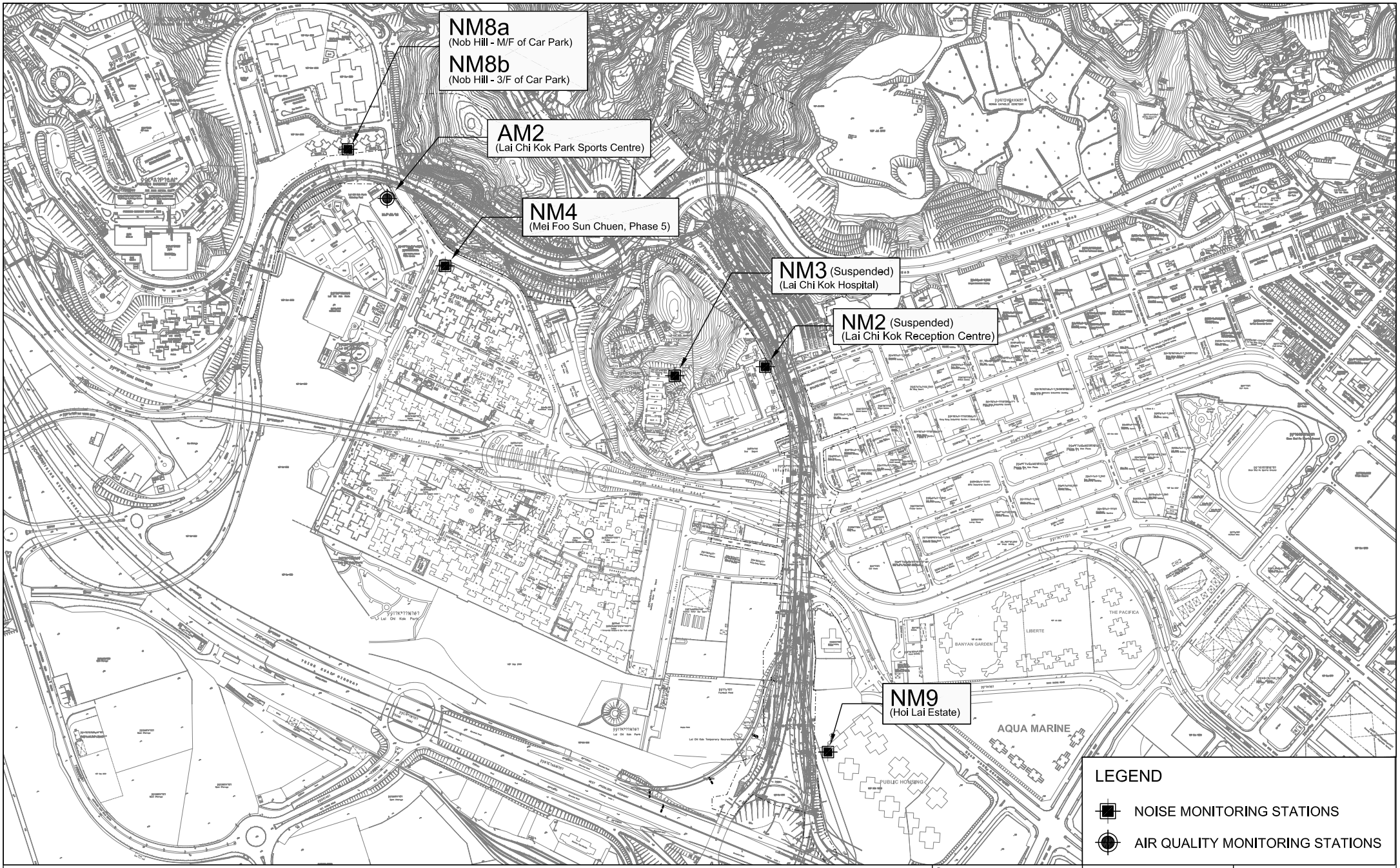
- Rock dowel installation at slope CCR-S1 & CCR-S4.
- Bulk excavation works at slope CCR-S4, CCR-R6 and LCK-R3.
- Retaining wall construction at CCR-R1 to CCR-R6 and LCK-R2 to LCK-R3.
- Drainage works at Lai Po Road, Castle Peak Road and Butterfly Valley Road.
- Offsite fabrication of parapet and noise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

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

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

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

FIGURES



Title

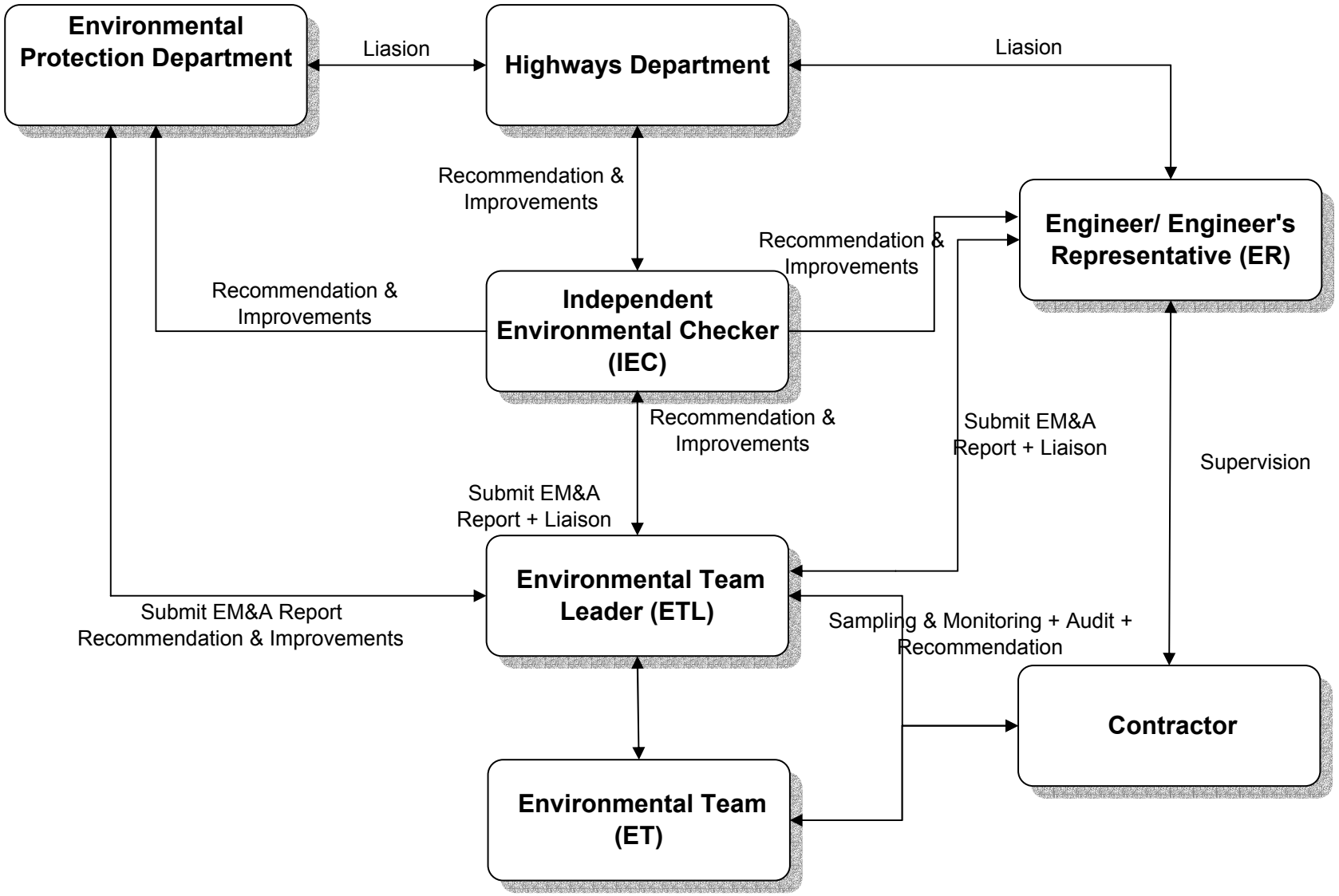
ROUTE 8 (PREVIOUSLY KNOWN AS ROUTE 9) BETWEEN CHEUNG SHA WAN AND SHA TIN
CONTRACT HY/2003/01 - LAI CHI KOK VIADUCT

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	

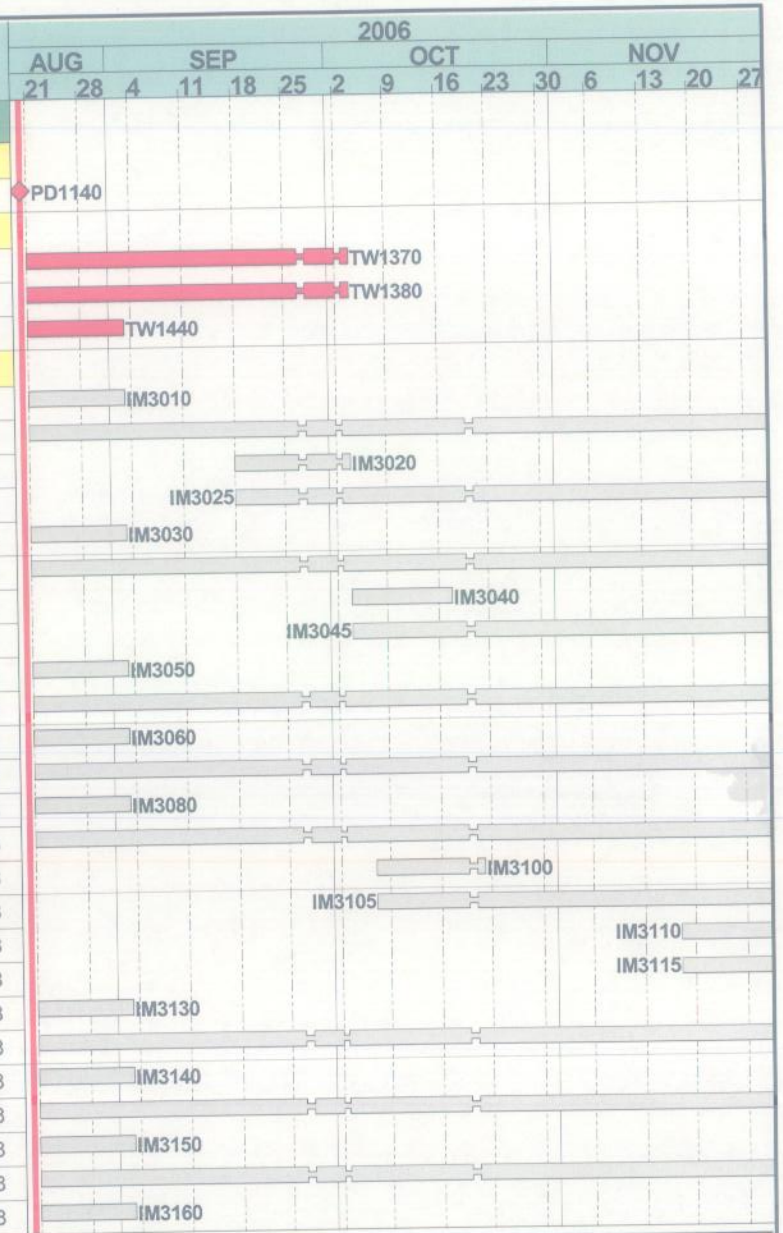
APPENDIX A
CONTACT DETAILS OF THE PROJECT ORGANISATION

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. L.C. Chung	E4/R9K	2762 3613	
MHJV	Engineer	Mr. Conrad Ng	Project Manager	2605 6262	2691 2649
	Engineer's Representative	Mr. D.F. Lilliman	CRE	2959 0010	2959 0290
		Mr. Patrick Lee	SRE	2991 1068	
		Mr. Joseph Chi	RE	2991 1034	
Cinotech	Environmental Team	Dr. Priscilla Choy	The ET Leader	2151 2089	3107 1388
		Mr. Edmond Wu	Audit Team Leader	2151 2092	
		Mr. Henry Leung	Monitoring Team Leader	2151 2087	
CH2M-HILL	Independent Environmental Checker	Mr. David Yeung	Independent Environmental Checker	2872 2934	2507 2293
		Mr. Billy Yu	Assistant Independent Environmental Checker	2872 2949	
Assiona	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. Joseph Chow	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	Late Start	Late Finish
Preliminaries & General Requirments						
Portion Access Dates						
PD1140	Access to Portion F1	0	20AUG06*		30MAY06*	
Design of Temporary Works						
TW1370	Design of Temp Works for Feature 11NW-A/C66	36	21AUG06	03OCT06	06MAY06	16JUN06
TW1380	Design of Temp Works for Feature 11NW-A/FR54&55	36	21AUG06	03OCT06	16JUN05	28JUL05
TW1440	Design of Temporary Works for Pumping Stations	12	21AUG06	02SEP06	25JUL06	08AUG06
Monitoring & Instrumentation - New Works						
IM3010	Install Instrumentation @ Cut Slope CCR-S1	12	21AUG06	02SEP06	18AUG08	30AUG08
IM3015	Monitoring @ Cut Slope CCR-S1	344*	21AUG06	11OCT07	18AUG08	16AUG08
IM3020	Install Instrumentation @ Cut Slope CCR-S2	12	18SEP06	03OCT06	18AUG08	30AUG08
IM3025	Monitoring @ Cut Slope CCR-S2	320*	18SEP06	11OCT07	18AUG08	16AUG08
IM3030	Install Instrumentation @ Cut Slope CCR-S3	12	21AUG06	02SEP06	18AUG08	30AUG08
IM3035	Monitoring @ Cut Slope CCR-S3	344*	21AUG06	11OCT07	18AUG08	16AUG08
IM3040	Install Instrumentation @ Cut Slope CCR-S4	12	04OCT06	17OCT06	18AUG08	30AUG08
IM3045	Monitoring @ Cut Slope CCR-S4	308*	04OCT06	11OCT07	18AUG08	16AUG08
IM3050	Install Instrumentation @ Cut Slope CCR-S5	12	21AUG06	02SEP06	18AUG08	30AUG08
IM3055	Monitoring @ Cut Slope CCR-S5	344*	21AUG06	11OCT07	18AUG08	16AUG08
IM3060	Install Instrumentation @ Cut Slope CCR-S6	12	21AUG06	02SEP06	18AUG08	30AUG08
IM3065	Monitoring @ Cut Slope CCR-S6	344*	21AUG06	11OCT07	18AUG08	16AUG08
IM3080	Install Instrumentation @ Slope 11NW-A/C26	12	21AUG06	02SEP06	18AUG08	30AUG08
IM3085	Monitoring @ Slope 11NW-A/C26	344*	21AUG06	11OCT07	18AUG08	16AUG08
IM3100	Install Instrumentation @ Slope11NW-A/C687 & 679	12	07OCT06	21OCT06	18AUG08	30AUG08
IM3105	Monitoring @ Slope 11NW-A/C687 & 679	305*	07OCT06	11OCT07	18AUG08	16AUG08
IM3110	Install Instrumentation @ Slip Road A Embankment	12	18NOV06	01DEC06	18AUG08	30AUG08
IM3115	Monitoring @ Slip Road A Embankment	270*	18NOV06	11OCT07	18AUG08	16AUG08
IM3130	Install Instrumentation @ Piers P1 to P6	12	21AUG06	02SEP06	18AUG08	30AUG08
IM3135	Monitoring @ Piers P1 to P6	344*	21AUG06	11OCT07	18AUG08	16AUG08
IM3140	Install Instrumentation @ Piers P7 to P10	12	21AUG06	02SEP06	18AUG08	30AUG08
IM3145	Monitoring @ Piers P7 to P10	344*	21AUG06	11OCT07	18AUG08	16AUG08
IM3150	Install Instrumentation @ Piers P11 to P15	12	21AUG06	02SEP06	18AUG08	30AUG08
IM3155	Monitoring @ Piers P11 to P15	344*	21AUG06	11OCT07	18AUG08	16AUG08
IM3160	Install Instrumentation @ Piers P16 to P18	12	21AUG06	02SEP06	18AUG08	30AUG08



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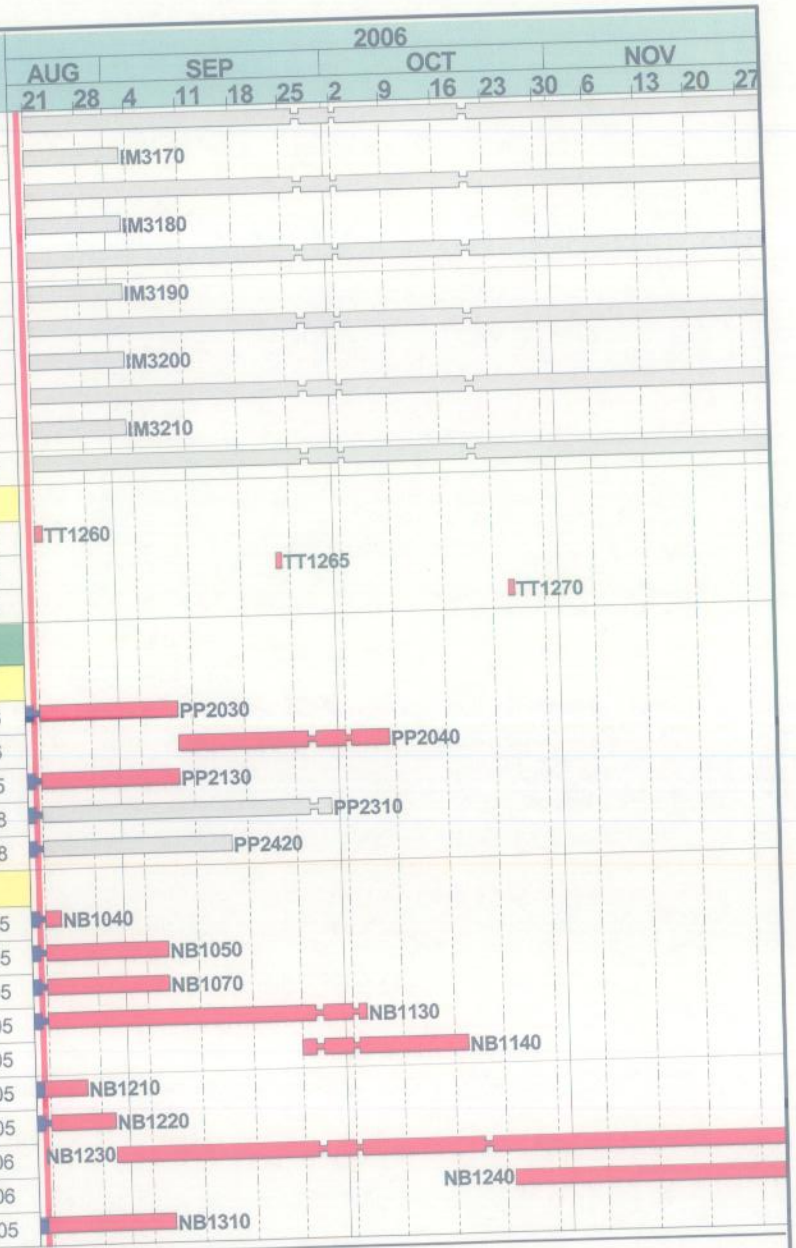
Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish
IM3165	Monitoring @ Piers P16 to P18	344*	21AUG06	11OCT07	18AUG08	16AUG08
IM3170	Install Instrumentation @ Piers P19 to Abut. M	12	21AUG06	02SEP06	18AUG08	30AUG08
IM3175	Monitoring @ Piers P19 to Abut. M	344*	21AUG06	11OCT07	18AUG08	16AUG08
IM3180	Install Instrumentation @ Piers on Slip Road A	12	21AUG06	02SEP06	18AUG08	30AUG08
IM3185	Monitoring @ Piers on Slip Road A	344*	21AUG06	11OCT07	18AUG08	16AUG08
IM3190	Install Instrumentation @ Piers on Slip Road B	12	21AUG06	02SEP06	18AUG08	30AUG08
IM3195	Monitoring @ Piers on Slip Road B	344*	21AUG06	11OCT07	18AUG08	16AUG08
IM3200	Install Instrumentation @ Piers on Slip Road C	12	21AUG06	02SEP06	18AUG08	30AUG08
IM3205	Monitoring @ Piers on Slip Road C	344*	21AUG06	11OCT07	18AUG08	16AUG08
IM3210	Install Instrumentation @ Piers on Slip Road D	12	21AUG06	02SEP06	18AUG08	30AUG08
IM3215	Monitoring @ Piers on Slip Road D	344*	21AUG06	11OCT07	18AUG08	16AUG08
Temporary Traffic Management Schemes						
TT1260	33rd. TMLG Meeting	1	21AUG06	21AUG06	22JUL05	22JUL05
TT1265	34th. TMLG Meeting	1	23SEP06	23SEP06	25AUG05	25AUG05
TT1270	35th. TMLG Meeting	1	25OCT06	25OCT06	23SEP05	23SEP05
Procurement						
Precast Parapet Panel Casting						
PP2030	Casting Type I & VII Parapet Units 551 -750	35	16AUG06A	08SEP06	16AUG06A	04JAN06
PP2040	Casting Type I & VII Parapet Units 751 - 977	40	09SEP06	07OCT06	05JAN06	03FEB06
PP2130	Casting Type II Parapet Units 766 - 1099	60	11JUN06A	08SEP06	11JUN06A	17DEC05
PP2310	Casting Type IV Parapet Units 228 - 455	75	06AUG06A	29SEP06	06AUG06A	30AUG08
PP2420	Casting Type V & VI Parapet Units 521 - 780	30	06AUG06A	15SEP06	06AUG06A	30AUG08
Noise Barriers & Enclosures						
NB1040	Noise Encl' - Slip Rd A - Off-site Fabrication	64	20MAR06A	22AUG06	20MAR06A	15NOV05
NB1050	Noise Encl' - Slip Rd A - Delivery to Site	18	25JUL06A	06SEP06	25JUL06A	29NOV05
NB1070	Erection of Noise barrier Mock Up Sample	18	26JUL06A	06SEP06	26JUL06A	05DEC05
NB1130	Noise Encl' - Slip Rd B - Off-site Fabrication	70	20MAR06A	03OCT06	20MAR06A	18NOV05
NB1140	Noise Encl' - Slip Rd B - Delivery to Site	24	25SEP06	17OCT06	12NOV05	02DEC05
NB1210	Noise Encl' - P8 to P11 - Eng. Review & Approval	28	16MAR06A	25AUG06	16MAR06A	19DEC05
NB1220	Noise Encl' - P8 to P11 - Materials Purchasing	30	28FEB06A	29AUG06	28FEB06A	10OCT05
NB1230	Noise Encl' - P8 to P11 - Off-site Fabrication	78	30AUG06	01DEC06	12OCT05	12JAN06
NB1240	Noise Encl' - P8 to P11 - Delivery to Site	41	24OCT06	09DEC06	02DEC05	20JAN06
NB1310	Noise Encl' - ENT Approach - Eng. Review & Appro	28	03APR06A	06SEP06	03APR06A	13DEC05



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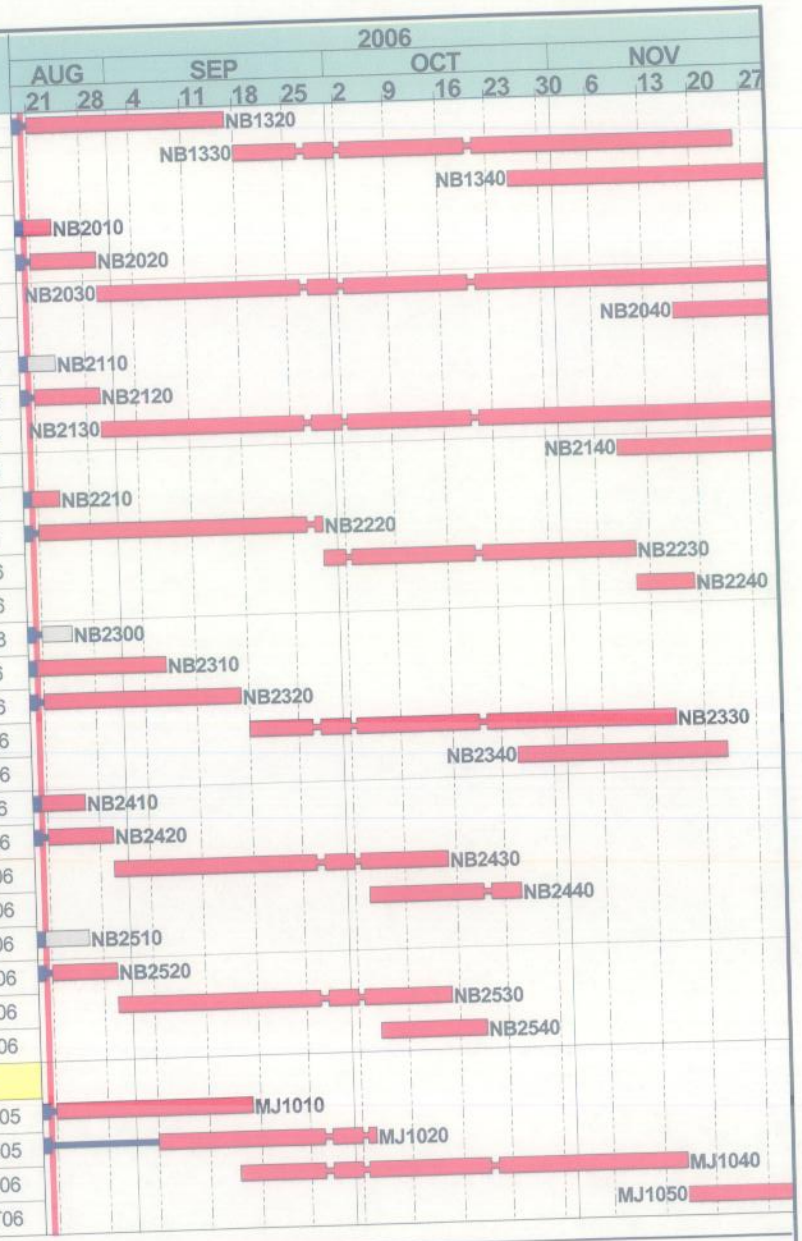
Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish
NB1320	Noise Encl' - ENT Approach - Material Purchasing	27	28FEB06A	16SEP06	28FEB06A	29OCT05
NB1330	Noise Encl' - ENT Approach - Off-site Fabricat'n	57	18SEP06	25NOV06	31OCT05	06JAN06
NB1340	Noise Encl' - ENT Approach - Delivery to Site	41	26OCT06	12DEC06	05DEC05	23JAN06
NB2010	Noise Barriers - PA to P4 - Eng. Review & Appro'	28	23MAR06A	23AUG06	23MAR06A	04AUG06
NB2020	Noise Barriers - PA to P4 - Materials Purchasing	39	28FEB06A	29AUG06	28FEB06A	05APR06
NB2030	Noise Barriers - PA to P4 - Off-site Fabrication	120	30AUG06	22JAN07	06APR06	28AUG06
NB2040	Noise Barriers - PA to P4 - Delivery to Site	62	17NOV06	30JAN07	23JUN06	05SEP06
NB2110	Noise Barriers - P5 to P8 - Eng. Review & Appro'	47	23MAR06A	23AUG06	23MAR06A	17SEP06
NB2120	Noise Barriers - P5 to P8 - Materials Purchasing	40	28FEB06A	29AUG06	28FEB06A	30MAY06
NB2130	Noise Barriers - P5 to P8 - Off-site Fabrication	110	30AUG06	10JAN07	31MAY06	11OCT06
NB2140	Noise Barriers - P5 to P8 - Delivery to Site	56	09NOV06	15JAN07	10AUG06	16OCT06
NB2210	Noise Barriers - P11 to P13 -Eng Review & Approv	28	23MAR06A	23AUG06	23MAR06A	23JUL06
NB2220	Noise Barriers - P11 to P13 - Materials Purchase	28	28FEB06A	28SEP06	28FEB06A	05JUL06
NB2230	Noise Barriers - P11 to P13 - Off-site Fabric'n	35	29SEP06	10NOV06	06JUL06	16AUG06
NB2240	Noise Barriers - P11 to P13 - Delivery to Site	7	11NOV06	18NOV06	17AUG06	24AUG06
NB2300	Noise Barriers - ENT Approach -Des'n & Shop Dwgs	82	24AUG05A	24AUG06	24AUG05A	30AUG08
NB2310	Noise Barriers - ENT Approach -Eng Rev & Approv	28	03APR06A	06SEP06	03APR06A	31JUL06
NB2320	Noise Barriers - ENT Approach -Material Purchase	65	28FEB06A	16SEP06	28FEB06A	27JUN06
NB2330	Noise Barriers - ENT Approach -Off-site Fabric'n	48	18SEP06	15NOV06	28JUN06	24AUG06
NB2340	Noise Barriers - ENT Approach - Delivery to Site	25	25OCT06	22NOV06	03AUG06	31AUG06
NB2410	Noise Barriers - Slip Rd. C - Eng Rev & Approv	28	23MAR06A	25AUG06	23MAR06A	08JUL06
NB2420	Noise Barriers - Slip Rd. C - Material Purchase	29	28FEB06A	29AUG06	28FEB06A	14JUN06
NB2430	Noise Barriers - Slip Rd.C - Off-site Fabricat'n	38	30AUG06	14OCT06	15JUN06	01AUG06
NB2440	Noise Barriers - Slip Rd. C - Delivery to Site	17	04OCT06	24OCT06	28JUL06	17AUG06
NB2510	Noise Barriers - Slip Rd. D - Eng Rev & Approv	125	16MAR06A	25AUG06	16MAR06A	20SEP06
NB2520	Noise Barriers - Slip Rd. D - Material Purchase	90	28FEB06A	29AUG06	28FEB06A	29AUG06
NB2530	Noise Barriers - Slip Rd. D -Off-site Fabricat'n	38	30AUG06	14OCT06	30AUG06	14OCT06
NB2540	Noise Barriers - Slip Rd. D - Delivery to Site	13	05OCT06	19OCT06	05OCT06	19OCT06
Movement Joints						
MJ1010	Detailed Design & Shop Drawings	48	20MAR06A	16SEP06	20MAR06A	08DEC05
MJ1020	Review & Approval of Design & Shop Drawings	24	14JUN06A	03OCT06	14JUN06A	22DEC05
MJ1040	Off-Site Manufacturing of M.Js. - Main Line	50	15SEP06	15NOV06	07DEC05	08FEB06
MJ1050	Off-Site Manufacturing of M.Js. - Slip Roads	50	16NOV06	15JAN07	11AUG06	10OCT06



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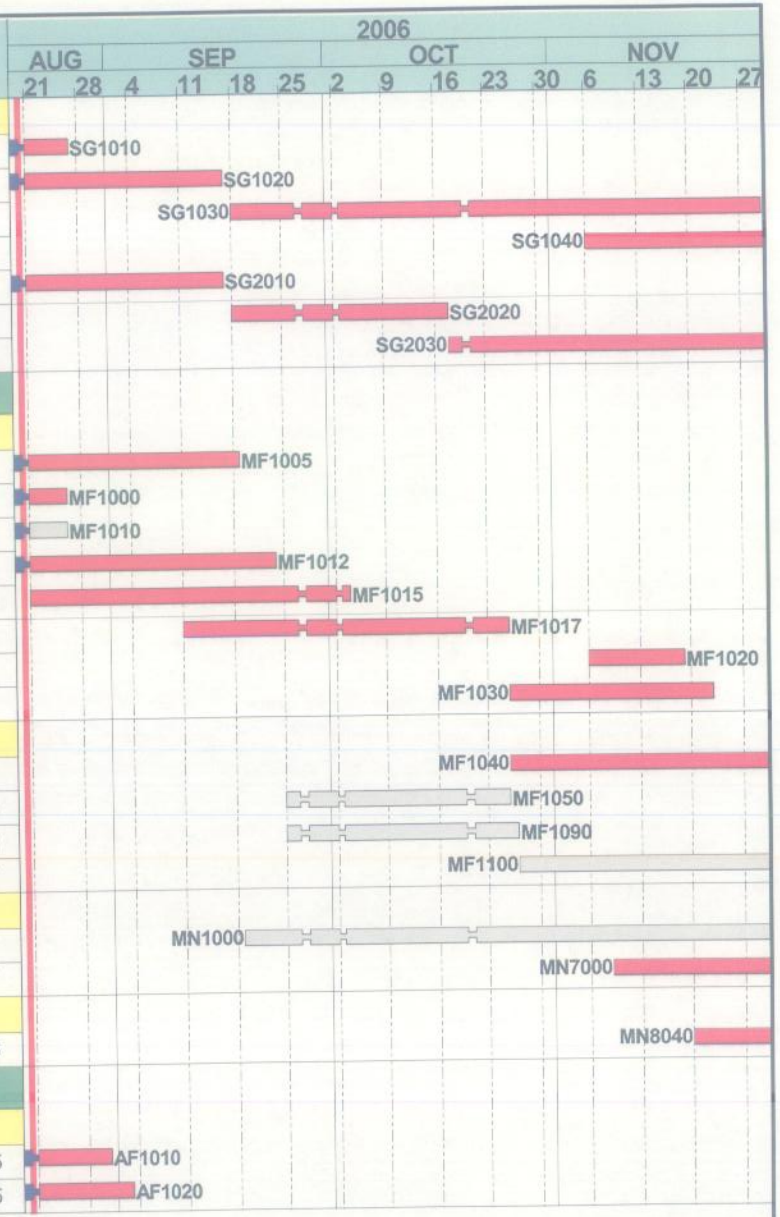
Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish
Signage						
SG1010	Sign Gantries - Detailed Design & Shop Drawings	50	17NOV05A	26AUG06	17NOV05A	27OCT05
SG1020	Sign Gantries - Review/Appro of Design & S/Dwgs.	24	20MAR06A	16SEP06	20MAR06A	10NOV05
SG1030	Sign Gantries - Off-Site Fabrication of Gantries	60	18SEP06	29NOV06	11NOV05	21JAN06
SG1040	Sign Gantries - Delivery of Gantries to Site	24	06NOV06	02DEC06	28DEC05	25JAN06
SG2010	Signage - Shop Drawings	50	20OCT05A	16SEP06	20OCT05A	10OCT05
SG2020	Signage - Review & Approval of Shop Drawings.	24	18SEP06	17OCT06	12OCT05	08NOV05
SG2030	Signage - Off-Site Fabrication of Signs	50	18OCT06	15DEC06	09NOV05	07JAN06
Viaduct - Main Line - Piers PA to P6						
Superstructure Finishing Works Required for TCSS						
MF1005	P3L to P6 - Parapets P3/L to P7/L (incl earthing	48	22APR06A	18SEP06	22APR06A	18JAN06
MF1000	PA to P6 - Parapets PA/L to P3/L (incl earthing)	48	14APR06A	25AUG06	14APR06A	04FEB06
MF1010	PA to P6 - Parapets PA/R to P3/R (incl earthing)	48	19JUN06A	25AUG06	19JUN06A	30AUG08
MF1012	PA to P6 - Parapets P3/R to P7 (incl earthing)	48	03JUL06A	23SEP06	03JUL06A	11MAR06
MF1015	PA to P6 - Insitu Slab to Under Median Barrier	36	21AUG06	03OCT06	15NOV05	27DEC05
MF1017	PA to P6 - Median Barrier (incl earthing)	36	11SEP06	25OCT06	06DEC05	18JAN06
MF1020	PA to P6 - Sign Gantry DS2 at P5/R-B4	12	06NOV06	18NOV06	06FEB06	18FEB06
MF1030	PA to P6 - Provision for E & M and TCSS	24	26OCT06	22NOV06	19JAN06	18FEB06
Remaining Superstructure Finishing Works						
MF1040	PA to P6 - Deck Drainage	60	26OCT06	05JAN07	19JUL06	28SEP06
MF1050	PA to P6 - Top Rail to Parapets	24	25SEP06	25OCT06	24OCT06	20NOV06
MF1090	P6 - Landscaping - Planting On Viaduct	25	25SEP06*	26OCT06	04OCT06	02NOV06
MF1100	P6 - Landscape Establishment Works on Viaduct	301	27OCT06	26OCT07	24NOV06	23NOV07
Noise Barriers & Encl' (Sec.15 Excision)						
MN1000	Viaduct - 3m Absorptive Barriers N/B Ch.407-670	75	19SEP06	18DEC06	09OCT06	06JAN07
MN7000	Viaduct - 3m Ref. Barriers N/B Ch.S1280-L938	75	09NOV06	06FEB07	09OCT06	06JAN07
Remaining Noise Barriers & Enclosures						
MN8040	Viaduct - 5m Reflective Barrier N/B Ch.407 - 642	75	20NOV06	16FEB07	09AUG06	07NOV06
Viaduct - Slip Road A						
Superstructure Finishing Works Required for TCSS						
AF1010	Slip Rd.A to P7 -Parapets East Face (incl earth)	60	06JAN06A	30AUG06	06JAN06A	11NOV05
AF1020	Slip Rd.A to P7- Parapets West Face (incl earth)	60	17JAN06A	02SEP06	17JAN06A	25NOV05



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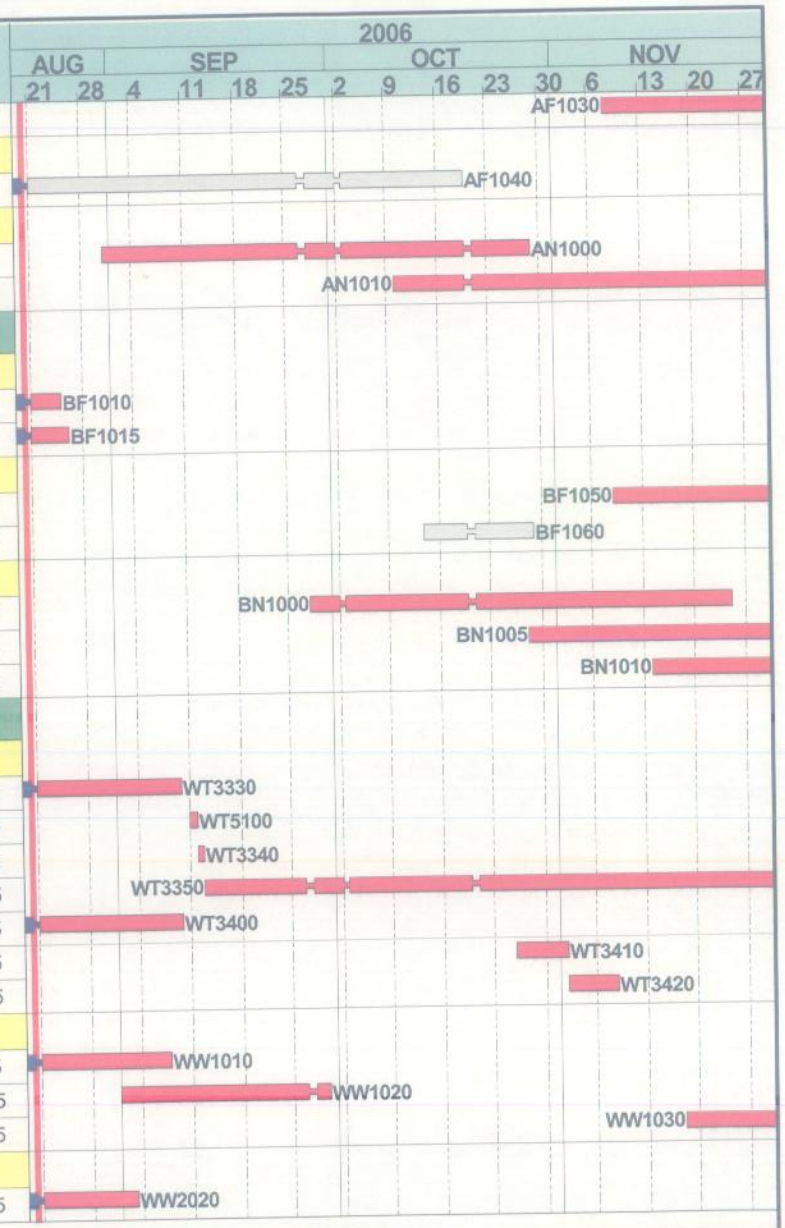
AF1030	Slip Rd. A - Provision for E & M and TCSS	24	08NOV06	05DEC06	19JAN06	18FEB06
Remaining Superstructure Finishing Works						
AF1040	Slip Rd. A - Deck Drainage	60	08APR06A	19OCT06	08APR06A	19DEC06
Noise Barriers & Encl' (Sec.15 Excision)						
AN1000	Slip Rd. A - Full Enclosure Ch.1070 - Pier A2	48	31AUG06	28OCT06	12NOV05	09JAN06
AN1010	Slip Rd. A - Full Enclosure Pier A2 - 1280	48	10OCT06	05DEC06	20DEC05	18FEB06
Viaduct - Slip Road B						
Superstructure Finishing Works Required for TCSS						
BF1010	Slip Rd.B to P7 - Parapets East Face (incl earth	60	04MAY06A	24AUG06	04MAY06A	18NOV05
BF1015	Slip Rd.B to P7 - Parapets West Face (incl earth	60	04MAY06A	25AUG06	04MAY06A	08FEB06
Remaining Superstructure Finishing Works						
BF1050	Slip Rd. B - Deck Drainage	60	09NOV06	19JAN07	08AUG06	18OCT06
BF1060	Slip Rd. B - Top Rail to Parapets	12	14OCT06	28OCT06	10NOV06	23NOV06
Remaining Noise Barriers & Enclosures						
BN1000	Slip Road B - Full Enclosure Ch.1038 - Pier B2	48	28SEP06	24NOV06	15NOV05	11JAN06
BN1005	Slip Road B - Full Enclosure Pier B2 - Ch. 1258	48	28OCT06	22DEC06	13DEC05	11FEB06
BN1010	Slip Road B - Semi Enclosures Ch.1258 - 1318	40	14NOV06	30DEC06	30DEC05	18FEB06
At Grade Works - Lai Po Road						
Temporary Traffic Management Schemes						
WT3330	5th. TTMS Lai Po Rd (for N/B C/W) - Site Prepare	24	05JUN06A	09SEP06	05JUN06A	16JUN05
WT5100	Transfer Viaduct Access to Slip Rd B	1	11SEP06	11SEP06	16JUN05	16JUN05
WT3340	Divert N/B&S/B Traffic to Divs'n No3 for N/B C/W	1	12SEP06	12SEP06	17JUN05	17JUN05
WT3350	5th. TTMS Lai Po Rd (forN/B C/W) -Implementation	111*	13SEP06	25JAN07	18JUN05	29OCT05
WT3400	6th. TTMS Lai Po Rd (for S/B C/W)-Prepare Review	18	20MAY06A	09SEP06	20MAY06A	22SEP05
WT3410	6th. TTMS Lai Po Rd (for S/B C/W) - CRE Endors't	6	26OCT06	01NOV06	24SEP05	30SEP05
WT3420	6th. TTMS Lai Po Rd (for S/B C/W) -Roadwk Advice	6	02NOV06	08NOV06	03OCT05	08OCT05
Retaining Wall LCK-R1						
WW1010	Ret. Wall LCK-R1 - Bases	18	15AUG06A	07SEP06	15AUG06A	16JUL05
WW1020	Ret. Wall LCK-R1 - Walls	24	01SEP06	29SEP06	11JUL05	06AUG05
WW1030	Ret. Wall LCK-R2 - Parapets	24	18NOV06	15DEC06	20SEP05	19OCT05
Retaining Wall LCK-R2						
WW2020	Ret. Wall LCK-R2 - Walls	60	06JUN06A	02SEP06	06JUN06A	07JUN05



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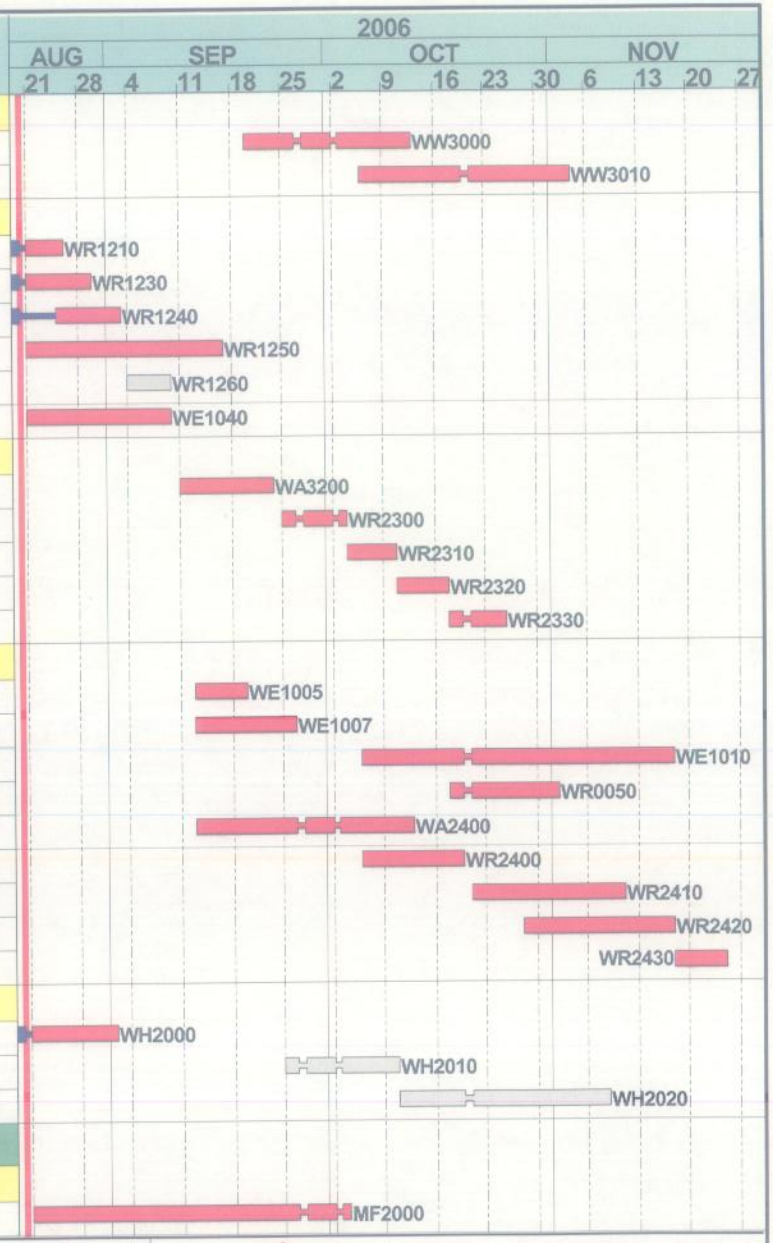
Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish
Retaining Wall LCK-R3						
WW3000	Ret. Wall LCK-R3 - Bases	18	20SEP06	12OCT06	25JUN05	16JUL05
WW3010	Ret. Wall LCK-R3 - Walls	24	06OCT06	03NOV06	11JUL05	06AUG05
Lai Po Road (D3) Roadworks - Stage 1						
WR1210	Lai Po Rd N/B Ch.1+250 - 1+360 - Formation	18	29MAR06A	25AUG06	29MAR06A	17NOV05
WR1230	Lai Po Rd N/B Ch.1+250 - 1+360 - Sub-base	12	25APR06A	29AUG06	25APR06A	21NOV05
WR1240	Lai Po Rd N/B Ch.1+250 - 1+360 - Kerbs	12	10MAY06A	02SEP06	10MAY06A	25NOV05
WR1250	Lai Po Rd N/B Ch.1+250 - 1+360- Utilities	24	21AUG06	16SEP06	17NOV05	14DEC05
WR1260	Lai Po Rd N/B Ch.1+250 - 1+360 - Road Pavement	6	04SEP06	09SEP06	25AUG08	30AUG08
WE1040	Lai Po Rd S/B - Temporary Ramp at Slip Road B	18	21AUG06	09SEP06	25MAY05	15JUN05
Lai Po Road (D3) Roadworks - Stage 3						
WA3200	Lai Po Rd S/B Ch.1+300 - 1+360 - Drainage	12	11SEP06	23SEP06	13AUG05	26AUG05
WR2300	Lai Po Rd S/B Ch.1+300 - 1+360 - Formation	6	25SEP06	03OCT06	27AUG05	02SEP05
WR2310	Lai Po Rd S/B Ch.1+300 - 1+360 - Sub-base	6	04OCT06	10OCT06	03SEP05	09SEP05
WR2320	Lai Po Rd S/B Ch.1+300 - 1+360 - Kerbs	6	11OCT06	17OCT06	10SEP05	16SEP05
WR2330	Lai Po Rd S/B Ch.1+300 - 1+360 - Pavement	6	18OCT06	25OCT06	17SEP05	24SEP05
Lai Po Road (D3) Roadworks - Stage 4						
WE1005	Lai Po Rd N/B - Remove Temp Ramp to Slip Rd. A	6	13SEP06	19SEP06	18JUN05	24JUN05
WE1007	Lai Po Rd N/B -Remove Temp Road Over Slip Rd A	12	13SEP06	26SEP06	18JUN05	02JUL05
WE1010	Lai Po Rd N/B Ch.0+946 - 1+250 - Fill Embankment	36	06OCT06	17NOV06	11JUL05	20AUG05
WR0050	Lai Po Rd N/B - Sign Gantry DS6 Founds	12	18OCT06	01NOV06	15AUG05	27AUG05
WA2400	Lai Po Rd S/B Ch.1+170 - 1+300 Drainage	24	13SEP06	12OCT06	13OCT05	09NOV05
WR2400	Lai Po Rd S/B Ch.1+170 - 1+300 - Formation	12	06OCT06	19OCT06	03NOV05	16NOV05
WR2410	Lai Po Rd S/B Ch.1+170 - 1+300- Sub-base	18	21OCT06	10NOV06	17NOV05	07DEC05
WR2420	Lai Po Rd S/B Ch.1+170 - 1+300- Kerbs	18	28OCT06	17NOV06	24NOV05	14DEC05
WR2430	Lai Po Rd S/B Ch.1+170 - 1+300 - Pavement	6	18NOV06	24NOV06	23FEB06	01MAR06
Lai Po Road Fire Hydrant Pump House						
WH2000	Fire Main at Lai Po Road - at Grade Pipework	18	24JUN06A	01SEP06	24JUN06A	21FEB06
WH2010	Fire Main at Lai Po Road - Pipework up Pier P5/R	12	25SEP06	10OCT06	12OCT06	26OCT06
WH2020	Fire Main at Lai Po Road - Valves & Connections	24	11OCT06	08NOV06	27OCT06	23NOV06
Viaduct - Main Line - Piers P7 to P10						
Superstructure Finishing Works Required for TCSS						
MF2000	P7 to P10 - Parapets P7 to P8 (incl earthing)	36	21AUG06	03OCT06	09DEC05	21JAN06



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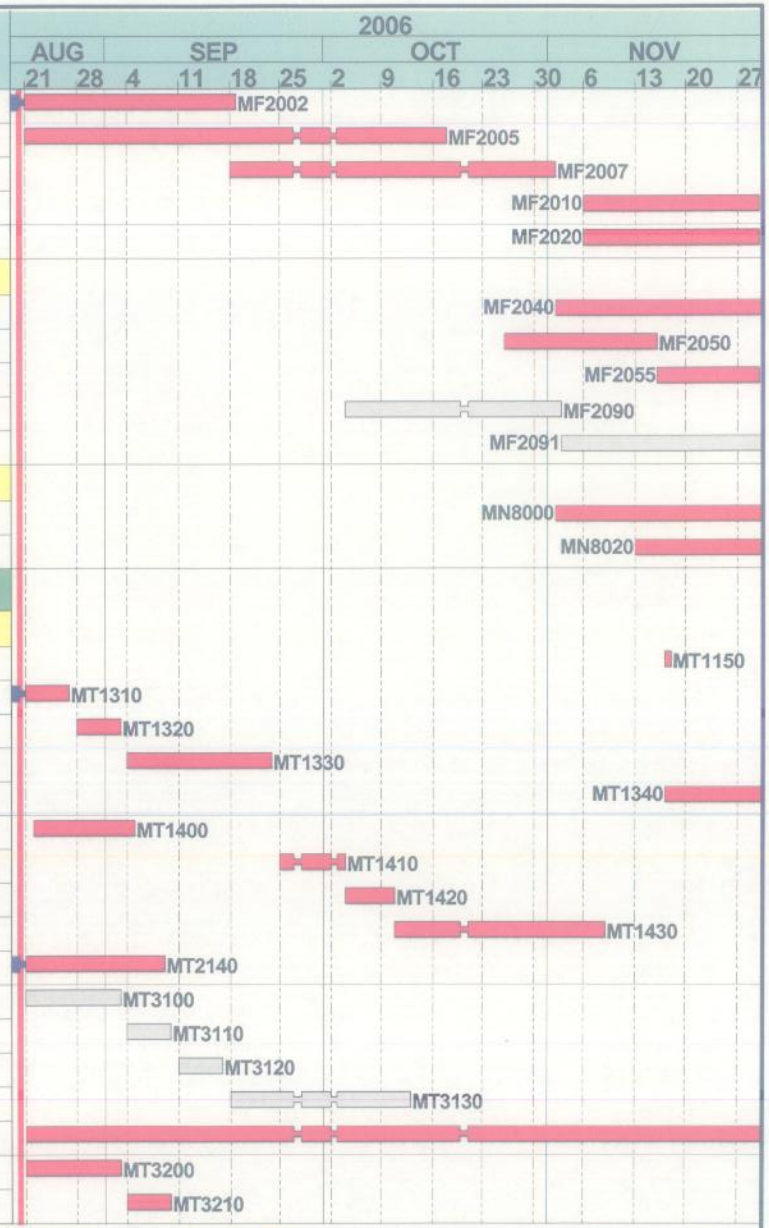
Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish
MF2002	P7 to P10 - Parapets P8 to P10 (incl earthing)	36	02JUN06A	18SEP06	02JUN06A	05DEC05
MF2005	P7 to P10 - Insitu Slab to Under Median Barrier	48	21AUG06	17OCT06	24SEP05	21NOV05
MF2007	P7 to P10 - Median Barrier (incl earthing)	36	18SEP06	01NOV06	25OCT05	05DEC05
MF2010	P7 to P10 - Sign Gantry ??? at P8/L	21	06NOV06	29NOV06	23JAN06	18FEB06
MF2020	P7 to P10 - Sign Gantry FADS2 at P10/R	21	06NOV06	29NOV06	23JAN06	18FEB06
Remaining Superstructure Finishing Works						
MF2040	P7 to P10 - Deck Drainage	48	02NOV06	28DEC06	26SEP06	23NOV06
MF2050	P7 to P10 - Top Rail to Parapets	18	26OCT06	15NOV06	09SEP06	30SEP06
MF2055	P7 to P10 - Install Movement Joint at P7	12	16NOV06	29NOV06	09SEP06	22SEP06
MF2090	P7 to P10 - Landscaping - Planting On Viaduct	25	04OCT06	02NOV06	11OCT06	09NOV06
MF2091	P7 to P10 - Landscape Establish Works on Viaduct	301	03NOV06	02NOV07	24NOV06	23NOV07
Remaining Noise Barriers & Enclosures						
MN8000	Viaduct - Semi Enclosure N/B Ch.980 to 1181	60	02NOV06	12JAN07	06DEC05	18FEB06
MN8020	Viaduct - 3m Reflective Barrier C/L Ch.845 - 980	60	13NOV06	23JAN07	14AUG06	25OCT06
At Grade Works - Lai Chi Kok Interchange						
Temporary Traffic Management Schemes						
MT1150	B.V. Rd - Divert Traffic to Fast & Slow Lanes	1	17NOV06	16NOV06	05SEP05	03SEP05
MT1310	2nd. TTMS Butterfly Valley Rd - CRE Endorsement	6	19MAY06A	26AUG06	19MAY06A	06AUG05
MT1320	2nd. TTMS Butterfly Valley Rd - Roadworks Advice	6	28AUG06	02SEP06	08AUG05	13AUG05
MT1330	2nd. TTMS Butterfly Valley Rd - Prepare	18	04SEP06	23SEP06	15AUG05	03SEP05
MT1340	2nd. TTMS Butterfly Valley Rd - Implementation	47*	17NOV06	12JAN07	05SEP05	01NOV05
MT1400	3rd TTMS Butterfly Valley Rd -Prepare for Review	12	22AUG06	04SEP06	11AUG05	24AUG05
MT1410	3rd. TTMS Butterfly Valley Rd - CRE Endorsement	6	25SEP06	03OCT06	16SEP05	23SEP05
MT1420	3rd. TTMS Butterfly Valley Rd - Roadworks Advice	6	04OCT06	10OCT06	24SEP05	30SEP05
MT1430	3rd. TTMS Butterfly Valley Rd - Prepare	24	11OCT06	08NOV06	03OCT05	31OCT05
MT2140	TTMS for Pier P8/L - Implementation	768*	23FEB04A	08SEP06	23FEB04A	11NOV05
MT3100	2nd. TTMS Kom Tsun Street - Prepare for Review	12	21AUG06	02SEP06	11JUL08	24JUL08
MT3110	2nd. TTMS Kom Tsun Street - CRE Endorsement	6	04SEP06	09SEP06	25JUL08	31JUL08
MT3120	2nd. TTMS Kom Tsun Street - Roadworks Advice	6	11SEP06	16SEP06	01AUG08	07AUG08
MT3130	2nd. TTMS Kom Tsun Street - Site Preparation	20	18SEP06	12OCT06	08AUG08	30AUG08
MT3140	2nd. TTMS Kom Tsun Street - Implementation	117*	21AUG06	09JAN07	14SEP05	18NOV05
MT3200	3rd. TTMS Kom Tsun Street - Prepare for Review	12	21AUG06	02SEP06	16SEP05	30SEP05
MT3210	3rd. TTMS Kom Tsun Street - CRE Endorsement	6	04SEP06	09SEP06	03OCT05	08OCT05



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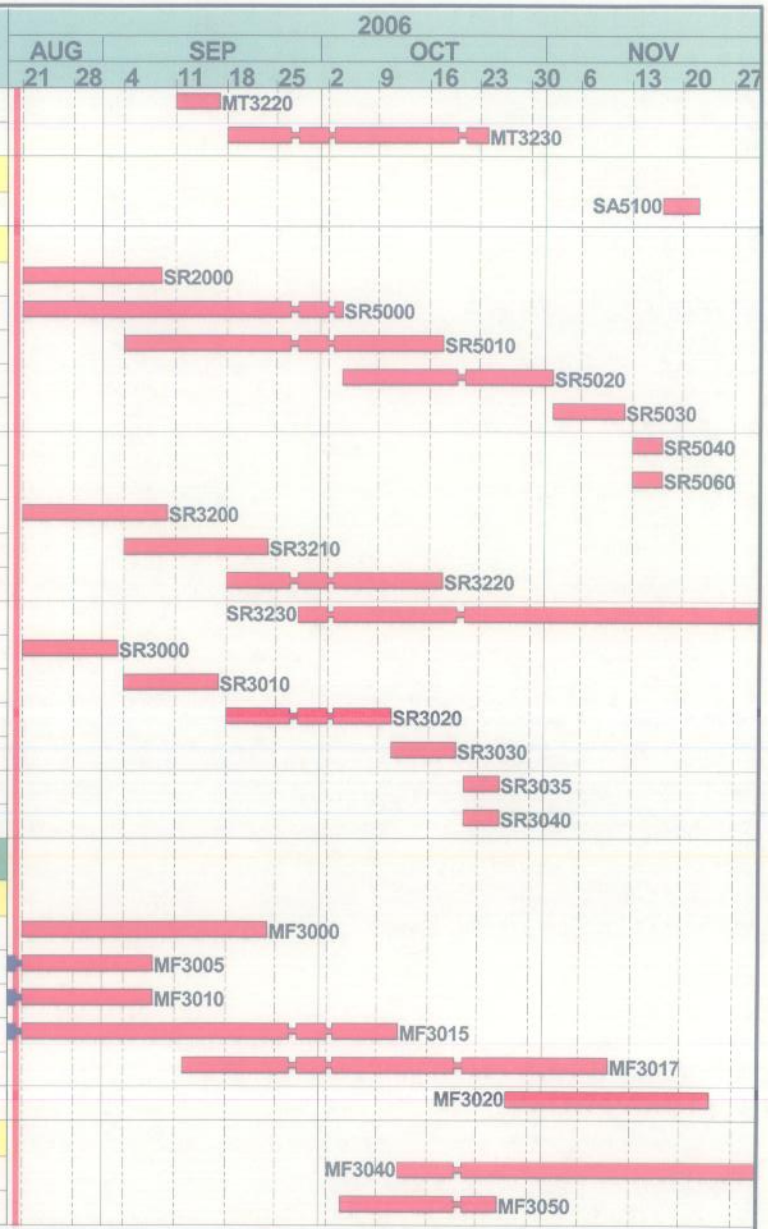
Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish
MT3220	3rd. TTMS Kom Tsun Street - Roadworks Advice	6	11SEP06	16SEP06	10OCT05	17OCT05
MT3230	3rd. TTMS Kom Tsun Street - Site Preparation	28	18SEP06	23OCT06	18OCT05	18NOV05
Drainage Works						
SA5100	Butterfly Valley Rd Stage2 - Stormwater Drainage	36	17NOV06	21NOV06	05SEP05	08SEP05
Utilities & Roadworks						
SR2000	Castle Peak Road - Roadworks Reinstatement	17	21AUG06	08SEP06	24OCT05	11NOV05
SR5000	Butterfly V. Rd (LCKI) Stage1-Excav. & Formation	36	21AUG06	03OCT06	09JUN05	22JUL05
SR5010	Butterfly V. Rd (LCKI) Stage 1 - Sub-base	36	04SEP06	17OCT06	24JUN05	05AUG05
SR5020	Butterfly V. Rd (LCKI) Stage 1 - Kerbs	24	04OCT06	01NOV06	23JUL05	19AUG05
SR5030	Butterfly V. Rd (LCKI) Stage 1 - Pavement	9	02NOV06	11NOV06	20AUG05	30AUG05
SR5040	Butterfly V. Rd (LCKI) Stage 1 - Street Lighting	4	13NOV06	16NOV06	14JAN06	18JAN06
SR5060	Butterfly V. Rd (LCKI) Stage 1 - Road Marking	4	13NOV06	16NOV06	31AUG05	03SEP05
SR3200	Kom Tsun Street Bus Stn. - Excavate & Formation	18	21AUG06	09SEP06	30JUN05	21JUL05
SR3210	Kom Tsun Street bus Stn. - Sub-base	18	04SEP06	23SEP06	15JUL05	04AUG05
SR3220	Kom Tsun Street Bus Stn. - Kerbs	24	18SEP06	17OCT06	29JUL05	25AUG05
SR3230	Kom Tsun Street Bus Stn. - Concrete Pavement	85	28SEP06	09JAN07	08AUG05	17NOV05
SR3000	Kom Tsun Street L/H C/Way - Excavate & Formation	12	21AUG06	02SEP06	14SEP05	28SEP05
SR3010	Kom Tsun Street L/H C/Way - Sub-base	12	04SEP06	16SEP06	29SEP05	14OCT05
SR3020	Kom Tsun Street L/H C/Way - Kerbs	18	18SEP06	10OCT06	15OCT05	04NOV05
SR3030	Kom Tsun Street L/H C/Way - Pavement	8	11OCT06	19OCT06	05NOV05	14NOV05
SR3035	Kom Tsun Street L/H C/Way - Street Lighting	4	21OCT06	25OCT06	15NOV05	18NOV05
SR3040	Kom Tsun Street L/H C/Way - Road Marking	4	21OCT06	25OCT06	15NOV05	18NOV05
Viaduct - Main Line - Piers P11 to P15						
Superstructure Finishing Works Required for TCSS						
MF3000	P11 to P15 - Parapets P10 to P12 (incl earthing)	30	21AUG06	23SEP06	14JUL06	18AUG06
MF3005	P11 to P15 - Parapets P12 to P14 (incl earthing)	24	25MAY06A	07SEP06	25MAY06A	18AUG06
MF3010	P11 to P15 - Parapets P14 to P16 (incl earthing)	24	30MAY06A	07SEP06	30MAY06A	30DEC05
MF3015	P11 to P15 - Insitu Slab to Under Median Barrier	48	14AUG06A	11OCT06	14AUG06A	04JAN06
MF3017	P11 to P15 - Median Barrier (incl earthing)	48	12SEP06	09NOV06	06DEC05	04FEB06
MF3020	P11 to P15 - Provision for E & M and TCSS	24	27OCT06	23NOV06	19JAN06	18FEB06
Remaining Superstructure Finishing Works						
MF3040	P11 to P15 - Deck Drainage	72	12OCT06	06JAN07	29AUG06	23NOV06
MF3050	P11 to P15 - Top Rail to Parapets	18	04OCT06	25OCT06	19AUG06	08SEP06



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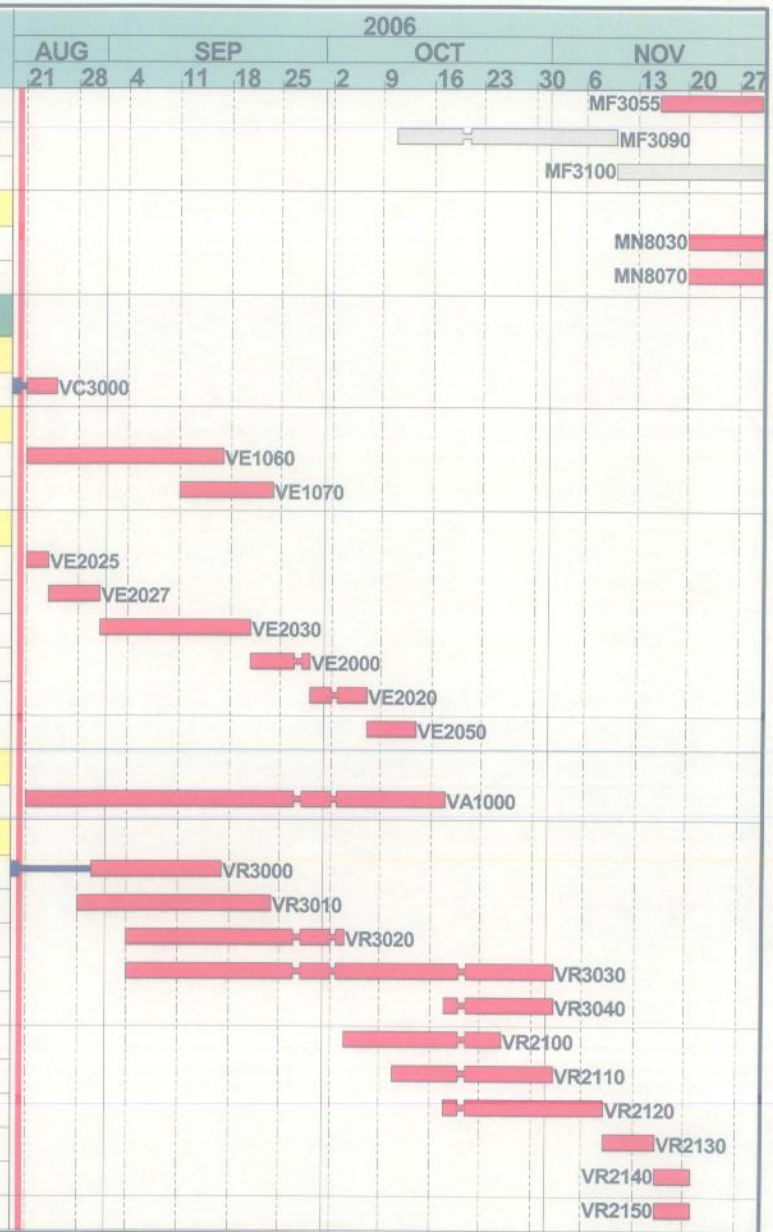
Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish
MF3055	P11 to P15 - Install Movement Joint at P12	12	16NOV06	29NOV06	29AUG06	11SEP06
MF3090	P11 to P15 - Landscaping - Planting 0n Viaduct	25	11OCT06	09NOV06	18OCT06	16NOV06
MF3100	P11 to P15 - Landscape Establish W'ks on Viaduct	301	10NOV06	09NOV07	24NOV06	23NOV07
Remaining Noise Barriers & Enclosures						
MN8030	Viaduct - 3m Reflective Barrier S/B Ch.1181-1302	75	20NOV06	16FEB07	25AUG06	23NOV06
MN8070	Viaduct - 5m Reflective Barrier N/B Ch.1181-1302	75	20NOV06	16FEB07	25AUG06	23NOV06
At Grade Works - Wai Man Tsuen						
Realigned Channel at Wai Man Tsuen						
VC3000	Channel - Modifications to Channel Floor -VO 299	12	30NOV05A	24AUG06	30NOV05A	18JAN06
Earthworks & Slope Works						
VE1060	Slope CCR-S5 - Slope Drainage & Finishes	24	21AUG06	16SEP06	01NOV05	28NOV05
VE1070	Slope CCR-S5 - Landscaping & Hydroseeding	12	11SEP06	23SEP06	22NOV05	05DEC05
Earthworks & Slope Works - 11NW-A/C678 & CR679						
VE2025	Slope 11NW-A/C678 & CR679 - Platform for S.Nails	3	21AUG06	23AUG06	25NOV05	28NOV05
VE2027	Slope 11NW-A/C678 & CR679 - Test Soil Nail	6	24AUG06	30AUG06	29NOV05	05DEC05
VE2030	Slope 11NW-A/C678 & CR679 - Soil Nails	18	31AUG06	20SEP06	06DEC05	27DEC05
VE2000	Slope 11NW-A/C678 & CR679 - Remove Temp Platform	6	21SEP06	28SEP06	28DEC05	04JAN06
VE2020	Slope 11NW-A/C678 & CR679 - Trim Original Slope	6	29SEP06	06OCT06	05JAN06	11JAN06
VE2050	Slope 11NW-A/C678 & CR679 -Landscape & Hydroseed	6	07OCT06	13OCT06	12JAN06	18JAN06
Drainage Works						
VA1000	Butterfly Valley Rd Stage3 - Stormwater Draiange	48	21AUG06	17OCT06	06AUG05	03OCT05
Utilities & Roadworks						
VR3000	Drainage Maintenance Access Rd. - Formation	24	02MAR06A	16SEP06	02MAR06A	04NOV05
VR3010	Drainage Maintenance Access Rd. - Sub-base	24	28AUG06	23SEP06	18OCT05	14NOV05
VR3020	Drainage Maintenance Access Rd. - Kerbs	24	04SEP06	03OCT06	25OCT05	21NOV05
VR3030	Drainage Maintenance Access Rd. - Pavement	48	04SEP06	01NOV06	22NOV05	18JAN06
VR3040	Drainage Maintenance Access Rd. - Street Lights	12	18OCT06	01NOV06	05JAN06	18JAN06
VR2100	Butterfly V. Rd (WMT) Stage3- Excav. & Formation	18	04OCT06	25OCT06	17SEP05	10OCT05
VR2110	Butterfly V. Rd (WMT) Stage 3 - Sub-base	18	11OCT06	01NOV06	26SEP05	18OCT05
VR2120	Butterfly V. Rd (WMT) Stage 3 - Kerbs	18	18OCT06	08NOV06	04OCT05	25OCT05
VR2130	Butterfly V. Rd (WMT) Stage 3 - Pavement	6	09NOV06	15NOV06	26OCT05	01NOV05
VR2140	Butterfly V. Rd (WMT) Stage 3 - Street Lighting	4	16NOV06	20NOV06	02NOV05	05NOV05
VR2150	Butterfly V. Rd (WMT) Stage 3 - Road Marking	4	16NOV06	20NOV06	02NOV05	05NOV05



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Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish
Wai Man Tsuen Fire Hydrant Pump House						
VH1000	Wai Man Tsuen F/H Pump House - Plate Load Test	6	21AUG06	26AUG06	25AUG08	30AUG08
VH1010	Wai Man Tsuen F/H Pump House - Structure	60	02AUG06A	21OCT06	02AUG06A	15JUL06
VH1020	Wai Man Tsuen F/H Pump House - Waterproofing	12	23OCT06	04NOV06	11AUG06	24AUG06
VH1030	Wai Man Tsuen F/H Pump House - Building Works	75	06NOV06	02FEB07	25AUG06	23NOV06
VH1040	Wai Man Tsuen F/H Pump House - MVAC Works	48	23OCT06	16DEC06	17JUL06	11SEP06
VH1050	Wai Man Tsuen F/H Pump House - Electrical Work	48	20NOV06	16JAN07	15AUG06	11OCT06
VH2000	Fire Main - Pipework Along Maintenance Road	18	21AUG06	09SEP06	07OCT05	28OCT05
VH2005	Fire Main - Pipework to Piers P10/R & P14	18	11SEP06	03OCT06	05JAN06	25JAN06
VH2010	Fire Main - Valves & Connections	18	04OCT06	25OCT06	26JAN06	18FEB06
Landscape Works						
VX1000	Landscaping - Earthworks & Formation	24	04OCT06	01NOV06	22NOV05	19DEC05
VX1040	Landscaping - Soiling & Planting	24	02NOV06	29NOV06	20DEC05	18JAN06
Viaduct - Main Line - Piers P16 to P18						
Main Line - Segmental Deck Construction (Crane)						
MD4040	C6 Slip C - 3 Segments Type B	2	04SEP06	05SEP06	15DEC05	16DEC05
MD4042	C6 Slip C to P17 Slip C - Insitu Stitch	2	06SEP06	07SEP06	17DEC05	19DEC05
Superstructure Finishing Works Required for TCSS						
MF4000	P16 to P18 - Parapets at P16 - P18 incl earthing	24	21AUG06	16SEP06	12DEC05	10JAN06
MF4005	P16 to P18 - Insitu Slab to Under Median Barrier	24	21AUG06	16SEP06	14DEC05	12JAN06
MF4007	P16 to P18 - Median Barrier (incl earthing)	24	13SEP06	12OCT06	09JAN06	08FEB06
MF4020	P16 to P18 - Provision for E & M and TCSS	18	03OCT06	24OCT06	26JAN06	18FEB06
Remaining Superstructure Finishing Works						
MF4040	P16 to P18 - Deck Drainage	48	13OCT06	08DEC06	26SEP06	23NOV06
MF4050	P16 to P18 - Top Rail to Parapets	12	18SEP06	03OCT06	05AUG06	18AUG06
MF4055	P16 to P18 - Install Movement Joints at P16/L&R	12	13OCT06	27OCT06	17AUG06	30AUG06
MF4058	P16 to P18 - Waterproofing of Deck	10	28OCT06	08NOV06	31AUG06	11SEP06
MF4060	P16 to P18 - Flexible Pavement	9	14NOV06	23NOV06	24OCT06	02NOV06
MF4090	P16 to P17 - Landscaping - Planting On Viaduct	25	18OCT06	16NOV06	26OCT06	23NOV06
MF4100	P16 to P17 - Landscape Establish W'ks on Viaduct	301	17NOV06	16NOV07	24NOV06	23NOV07

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Viaduct - Main Line - Piers 19 to Abutment M						
Substructure						
MS5177	P21 - Slope Reinstatement	42	21AUG06	10OCT06	16SEP06	07NOV06
MS5230	Abutment M - Install Bearings	6	21AUG06	26AUG06	25AUG08	30AUG08
MS5290	Abutment M - Remove Ground Support For PC Segs	6	21AUG06	26AUG06	03OCT06	09OCT06
MS5225	Abutment M - Slope Reinstatement	24	28AUG06	23SEP06	10OCT06	07NOV06
Main Line - Segmental Deck Construction (Gantry)						
MD5185	Gantry Demobilisation	24	18AUG06A	07SEP06	18AUG06A	07NOV06
Superstructure Finishing Works Required for TCSS						
MF5000	P19 to Abut M -Parapets P18 to Abut M & earthing	42	09SEP06	31OCT06	19DEC05	10FEB06
MF5005	P19 to Abut M - Insitu Slab Under Median Barrier	18	21AUG06	09SEP06	11JAN06	03FEB06
MF5007	P19 to Abut M - Median Barrier (incl earthing)	18	28AUG06	16SEP06	18JAN06	10FEB06
MF5010	P19 to Abut M - Sign Gantry FADS1at Abutment M	12	06NOV06	18NOV06	09MAY06	22MAY06
MF5020	P19 to Abut M - Provision for E & M and TCSS	18	03NOV06	23NOV06	06MAY06	26MAY06
Remaining Superstructure Finishing Works						
MF5040	P19 to Abut M - Deck Drainage	18	17OCT06	07NOV06	14OCT06	04NOV06
MF5050	P19 to Abut M - Top Rail to Parapets	12	28OCT06	10NOV06	23OCT06	04NOV06
MF5055	P19 to Abut M - Install Movement Joint at Abut M	4	16NOV06	20NOV06	09FEB06	13FEB06
MF5058	P19 to Abut M - Waterproofing of Deck	4	20NOV06	23NOV06	13FEB06	16FEB06
MF5070	P19 to Abut M - Viaduct Road Lighting	18	10NOV06	30NOV06	14OCT06	04NOV06
Viaduct - Main Line - Tunnel Approaches						
Noise Barriers & Encl' (Sec.10 Excision)						
MN6100	Semi Enclosure S/B Ch.2005 - 2200 - Frame	60	30OCT06	09JAN07	08DEC05	21FEB06
Remaining Noise Barriers & Enclosures						
MN8080	At Grade - 7m Reflective Barrier S/B Ch1789-1989	75	28OCT06	25JAN07	07AUG06	04NOV06
MN8100	At Grade - 5.5m Reflective Barrier Ch1799-1997	75	28OCT06	25JAN07	07AUG06	04NOV06
At Grade Works - Butterfly Valley						
Temporary Traffic Management Schemes						
QT2130	TTMS Slip RdD Deck@ CC Rd E/B - Site Preparation	2	21AUG06	22AUG06	29AUG08	30AUG08
Earthworks & Slope Works - 11NW-A/FR54 & F55						
QE2000	Slope 11NW-A/FR54 & FR55 - Remove Temp. Platform	18	21AUG06	09SEP06	30JUN05	21JUL05
QE2002	Slope 11NW-A/FR54 & FR55 - Retaining Wall -Bases	36	11SEP06	25OCT06	22JUL05	01SEP05

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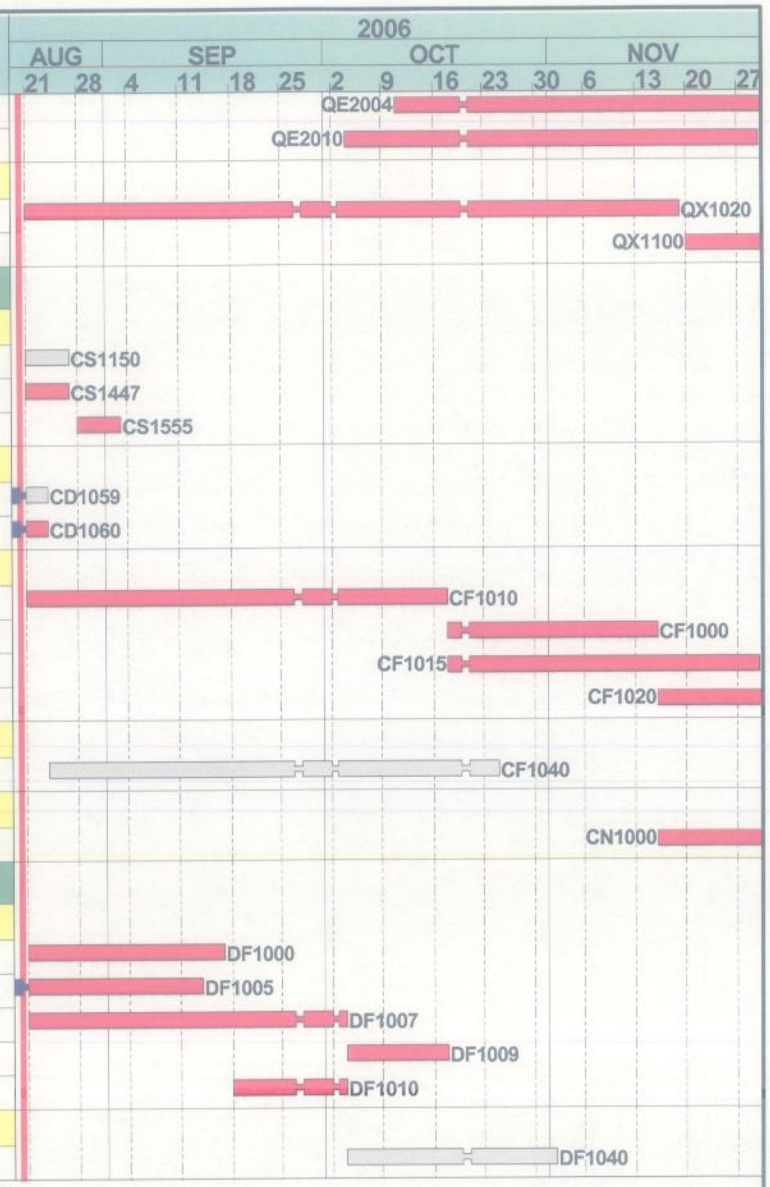
Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish
QE2004	Slope 11NW-A/FR54 & FR55 - Retaining Wall -Walls	48	11OCT06	06DEC06	19AUG05	17OCT05
QE2010	Slope 11NW-A/FR54 & FR55 - Install Temp Works	48	04OCT06	29NOV06	29JUL05	23SEP05
Landscape Works						
QX1020	Landscaping - Soiling & Planting on Slope CCR-S6	75	21AUG06*	18NOV06	21OCT05	18JAN06
QX1100	Landscape Establishment Works	301	20NOV06	19NOV07	04NOV06	03NOV07
Viaduct - Slip Road C						
Substructure						
CS1150	Abutment C - Install Bearings	6	21AUG06	19AUG06	01SEP08	30AUG08
CS1447	C5/L - C5/R Portal - Install Bearings	6	21AUG06	26AUG06	01DEC05	07DEC05
CS1555	C6/R & C6/L - Install Bearings on Portal Frame	6	28AUG06	02SEP06	08DEC05	14DEC05
Slip Road C - Insitu Deck Construction						
CD1059	Slip Rd. C - Deck Span C5 to C6 - Stressing	4	05AUG06A	23AUG06	05AUG06A	30AUG08
CD1060	Slip Rd. C - Deck Span C5 to C6 - Cure & Strip	6	02AUG06A	23AUG06	02AUG06A	11JAN06
Superstructure Finishing Works Required for TCSS						
CF1010	Slip Rd. C - Parapets C2 to C4 (incl earthing)	48	21AUG06	17OCT06	25OCT05	19DEC05
CF1000	Slip Rd. C - Parapets - Abut. C to C2 + earthing	24	18OCT06	15NOV06	20DEC05	18JAN06
CF1015	Slip Rd. C - Parapets C4 to C6 (incl earthing)	36	18OCT06	29NOV06	20DEC05	04FEB06
CF1020	Slip Rd. C - Provision for E & M and TCSS	24	16NOV06	13DEC06	19JAN06	18FEB06
Remaining Superstructure Finishing Works						
CF1040	Slip Rd. C - Deck Drainage	50	24AUG06	24OCT06	04OCT06	01DEC06
Remaining Noise Barriers & Enclosures						
CN1000	Slip Rd. C - 3m Absorptive Barriers Ch.665 - 730	52	16NOV06	17JAN07	02AUG06	03OCT06
Viaduct - Slip Road D						
Superstructure Finishing Works Required for TCSS						
DF1000	Slip Rd. D - Parapets D10 to D8 (incl earthing)	24	21AUG06	16SEP06	05JAN06	04FEB06
DF1005	Slip Rd. D -Parapets D4 to Abut D (incl earthing	42	26JUL06A	13SEP06	26JUL06A	04FEB06
DF1007	Slip Rd. D -Parapets D4 to D8 (incl earthing)	36	21AUG06	03OCT06	20DEC05	04FEB06
DF1009	Slip Rd. D - Sign Gantry ADS4 at D6	12	04OCT06	17OCT06	06FEB06	18FEB06
DF1010	Slip Rd. D - Provision for E & M and TCSS	12	18SEP06	03OCT06	06FEB06	18FEB06
Remaining Superstructure Finishing Works						
DF1040	Slip Rd. D - Deck Drainage	24	04OCT06	01NOV06	04NOV06	01DEC06



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Highways Department Contract No. HY/2003/01
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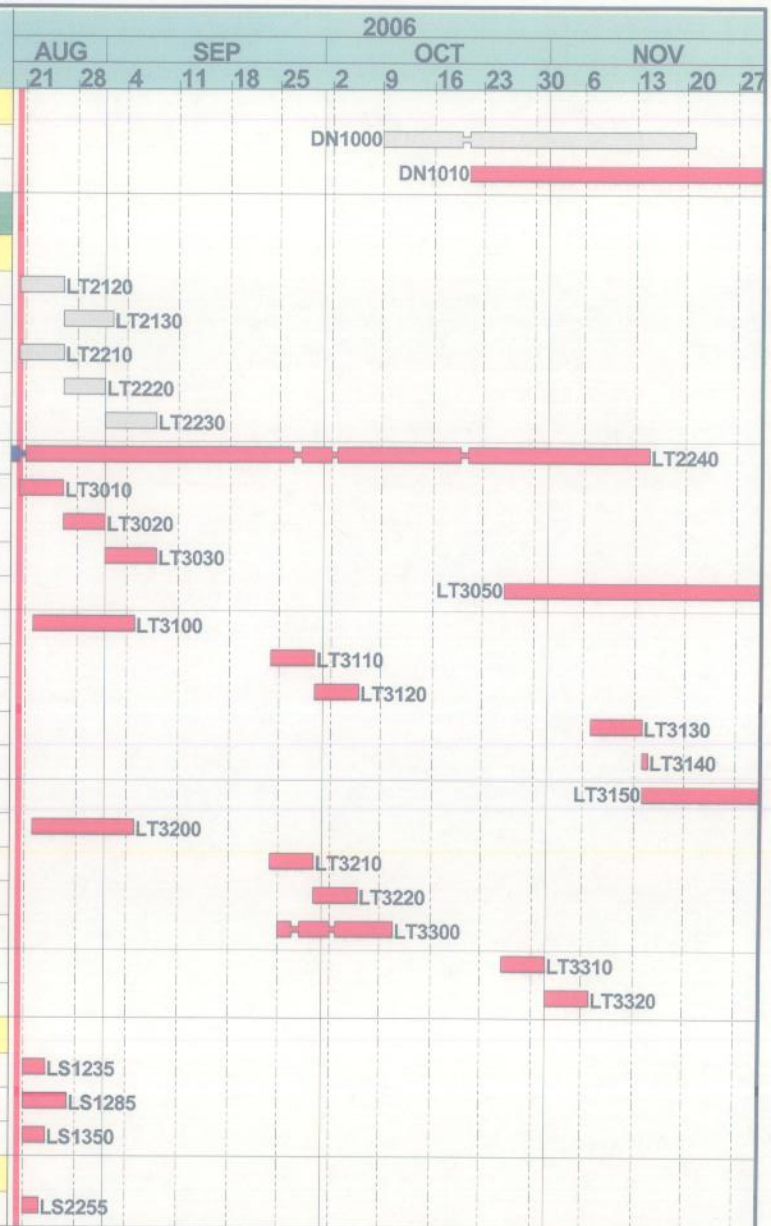
Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish
Remaining Noise Barriers & Enclosures						
DN1000	Slip Rd. D - 3.5m Reflective Barrier Ch.805-881	36	09OCT06	20NOV06	21OCT06	01DEC06
DN1010	Slip Rd. D - 3m Reflective Barriers Ch.680 - 805	36	21OCT06	01DEC06	21OCT06	01DEC06
Lai Wan Road Overpass						
Temporary Traffic Management Schemes						
LT2120	TTMS LW Rd (for W/B Deck) - Roadworks Advice	6	20AUG06	25AUG06	19AUG08	24AUG08
LT2130	TTMS LW Rd (for W/B Deck) - Site Preparation	6	26AUG06	01SEP06	25AUG08	30AUG08
LT2210	TTMS LW Rd (for E/B Deck) - CRE Endorsement	6	20AUG06	25AUG06	13AUG08	18AUG08
LT2220	TTMS LW Rd (for E/B Deck) - Roadworks Advice	6	26AUG06	31AUG06	19AUG08	24AUG08
LT2230	TTMS LW Rd (for E/B Deck) - Site Preparation	6	01SEP06	07SEP06	25AUG08	30AUG08
LT2240	TTMS LW Rd (for E/B Deck) - Implementation	292*	24NOV05A	14NOV06	24NOV05A	28FEB06
LT3010	TTMS CC Rd (on W/B Deck) - CRE Endorsement	6	20AUG06	25AUG06	17NOV05	22NOV05
LT3020	TTMS CC Rd (on W/B Deck) - Roadworks Advice	6	26AUG06	31AUG06	23NOV05	28NOV05
LT3030	TTMS CC Rd (on W/B Deck) - Site Preparation	6	01SEP06	07SEP06	29NOV05	05DEC05
LT3050	TTMS CC Rd (on W/B Deck) - Implementation	120*	26OCT06	20MAR07	06DEC05	24AUG06
LT3100	TTMS CC Rd (on E/B Deck) - Prepare for Review	12	22AUG06	04SEP06	04AUG05	17AUG05
LT3110	TTMS CC Rd (on E/B Deck) - CRE Endorsement	6	24SEP06	29SEP06	05AUG06	10AUG06
LT3120	TTMS CC Rd (on E/B Deck) - Roadworks Advice	6	30SEP06	05OCT06	11AUG06	16AUG06
LT3130	TTMS CC Rd (on E/B Deck) - Site Preparation	6	07NOV06	13NOV06	17AUG06	23AUG06
LT3140	Divert 1No. Lane to New East Bound Bridge	1	14NOV06	14NOV06	28FEB06	28FEB06
LT3150	TTMS CC Rd (on E/B Deck) - Implementation	62*	14NOV06	26JAN07	28FEB06	24AUG06
LT3200	TTMS CC Rd (on Both Decks) - Prepare for Review	12	22AUG06	04SEP06	04AUG05	17AUG05
LT3210	TTMS CC Rd (on Both Decks) - CRE Endorsement	6	24SEP06	29SEP06	07AUG06	12AUG06
LT3220	TTMS CC Rd (on Both Decks) - Roadworks Advice	6	30SEP06	05OCT06	13AUG06	18AUG06
LT3300	TTMS CC Rd (on Both Decks) - Prepare for Review	12	25SEP06	10OCT06	01SEP05	14SEP05
LT3310	TTMS CC Rd (on Both Decks) - CRE Endorsement	6	26OCT06	31OCT06	31AUG06	05SEP06
LT3320	TTMS CC Rd (on Both Decks) - Roadworks Advice	6	01NOV06	06NOV06	06SEP06	11SEP06
West Bound - Substructure						
LS1235	D13 - Install Bearings	3	21AUG06	23AUG06	06OCT05	08OCT05
LS1285	D14 - Install Bearings	6	21AUG06	26AUG06	03OCT05	08OCT05
LS1350	Abutment DA2 - Install Bearings	3	21AUG06	23AUG06	28OCT05	31OCT05
East Bound - Substructure						
LS2255	C14 - Install Bearings	2	21AUG06	22AUG06	03DEC05	05DEC05



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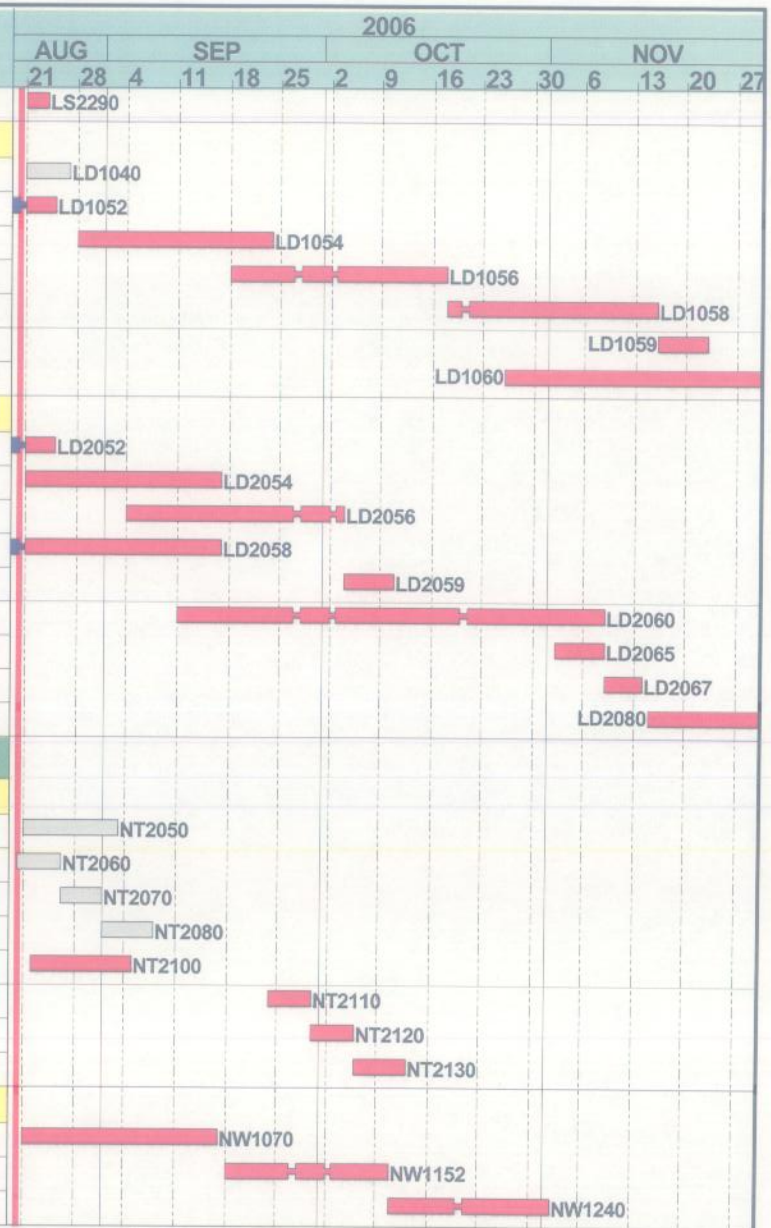
Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish
LS2290	Abutment CA2 - Install Bearings	3	21AUG06	23AUG06	09DEC05	12DEC05
West Bound - Insitu Deck						
LD1040	Lai Wan O/pass W/B - Demolish F/p for Stage 3	6	21AUG06	26AUG06	25AUG08	30AUG08
LD1052	Lai Wan O/pass W/B - Span St.3 - Falsework	18	24JUL06A	24AUG06	24JUL06A	14OCT05
LD1054	Lai Wan O/pass W/B - Span St.3 - Soffit	24	28AUG06	23SEP06	10OCT05	07NOV05
LD1056	Lai Wan O/pass W/B - Span St.3 - 1st. Pour	24	18SEP06	17OCT06	01NOV05	28NOV05
LD1058	Lai Wan O/pass W/B - Span St.3 - 2nd. Pour	24	18OCT06	15NOV06	29NOV05	27DEC05
LD1059	Lai Wan O/pass W/B - Span St.3 - Stressing	6	16NOV06	22NOV06	28DEC05	04JAN06
LD1060	Lai Wan Overpass W/B - Parapets	48	26OCT06	20DEC06	06DEC05	04FEB06
East Bound - Insitu Deck						
LD2052	Lai Wan O/Pass E/B - Span St.3 - Falsework	18	24JUL06A	24AUG06	24JUL06A	25NOV05
LD2054	Lai Wan O/Pass E/B - Span St.3 - Soffit	24	21AUG06	16SEP06	22NOV05	19DEC05
LD2056	Lai Wan O/Pass E/B - Span St.3 - 1st. Pour	24	04SEP06	03OCT06	06DEC05	04JAN06
LD2058	Lai Wan O/Pass E/B - Span St.3 - 2nd. Pour	24	15APR06A	16SEP06	15APR06A	04JAN06
LD2059	Lai Wan O/Pass E/B - Span St.3 - Stressing	6	04OCT06	10OCT06	05JAN06	11JAN06
LD2060	Lai Wan O/Pass E/B - Insitu Span - Parapets	48	11SEP06	08NOV06	13DEC05	11FEB06
LD2065	Lai Wan O/Pass E/B - Movement Joints at CA1&2	6	02NOV06	08NOV06	16FEB06	22FEB06
LD2067	Lai Wan O/Pass E/B - Flexible Pavement	4	09NOV06	13NOV06	23FEB06	27FEB06
LD2080	Lai Wan O/Pass E/B - Demolish Existing Flanges	36	15NOV06	27DEC06	01MAR06	12APR06
At Grade Works - Ching Cheung Road at LCK Park						
Temporary Traffic Management Schemes						
NT2050	2nd. TTMS CC Rd (E/B C/Way) - Prepare for Review	12	21AUG06	02SEP06	18AUG08	30AUG08
NT2060	2nd. TTMS CC Rd (E/B C/Way) - CRE Endorsement	6	20AUG06	25AUG06	06NOV06	11NOV06
NT2070	2nd. TTMS CC Rd (E/B C/Way) - Roadworks Advice	6	26AUG06	31AUG06	12NOV06	17NOV06
NT2080	2nd. TTMS CC Rd (E/B C/Way) - Site Preparation	6	01SEP06	07SEP06	18NOV06	24NOV06
NT2100	3rd. TTMS CC Rd (E/B C/Way) - Prepare for Review	12	22AUG06	04SEP06	04AUG05	17AUG05
NT2110	3rd. TTMS CC Rd (E/B C/Way) - CRE Endorsement	6	24SEP06	29SEP06	07AUG06	12AUG06
NT2120	3rd. TTMS CC Rd (E/B C/Way) - Roadworks Advice	6	30SEP06	05OCT06	13AUG06	18AUG06
NT2130	3rd. TTMS CC Rd (E/B C/Way) - Site Preparation	6	06OCT06	12OCT06	19AUG06	25AUG06
Retaining Wall CCR-R1 West Bound						
NW1070	W/B Ret. Wall CCR-R1A East - Parapet on Wall	24	21AUG06	16SEP06	01NOV05	28NOV05
NW1152	W/B Ret. Wall CCR-R1B - Parapet on Wall	18	18SEP06	10OCT06	29NOV05	19DEC05
NW1240	W/B Ret. Wall CCR-R1A West - Parapet on Wall	18	11OCT06	01NOV06	20DEC05	11JAN06



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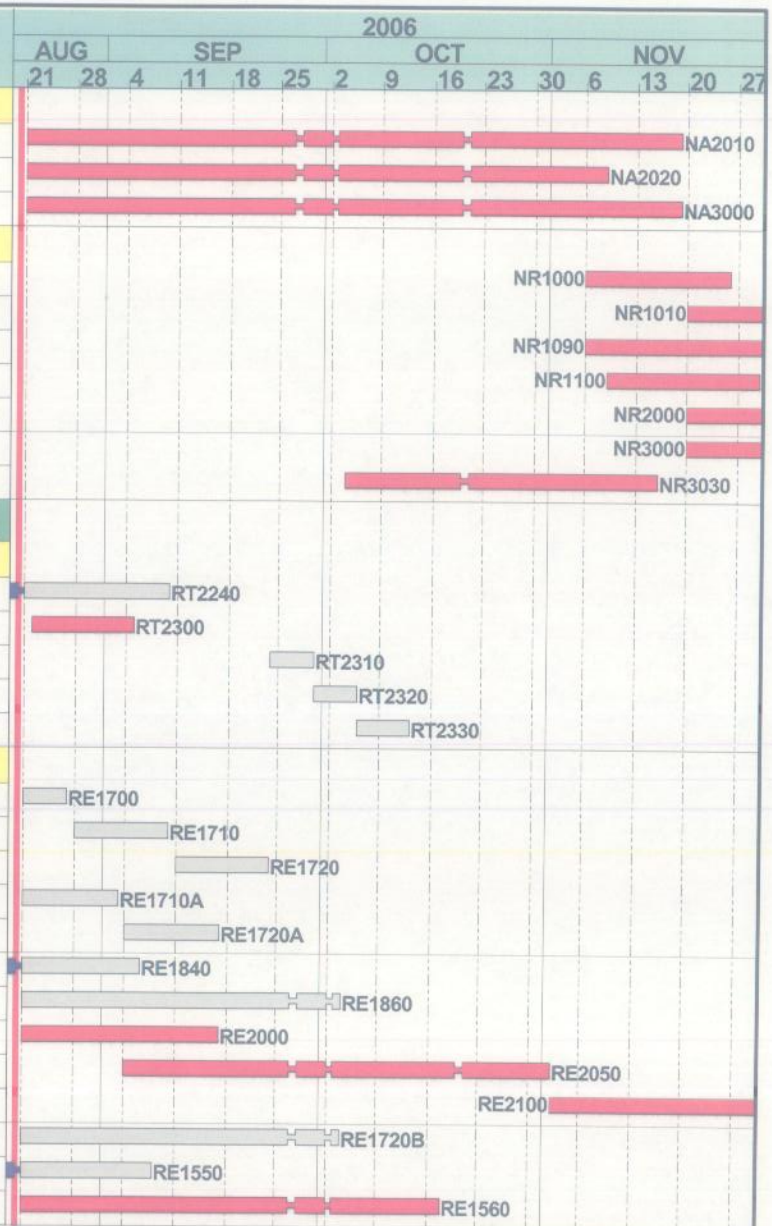
Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish
Drainage Works						
NA2010	C.C. Rd. W/B in New C/way - S/water Drainage E3	75	21AUG06	18NOV06	14OCT05	11JAN06
NA2020	C.C. Rd. W/B in New C/way - S/water Drainage J2	66	21AUG06	08NOV06	25OCT05	11JAN06
NA3000	C.C. Rd. E/B in New C/way - Stormwater Drainage	75	21AUG06	18NOV06	06OCT05	04JAN06
Utilities & Roadworks						
NR1000	C.C. Rd. W/B in Portion E3 - Formation	18	06NOV06	25NOV06	28DEC05	18JAN06
NR1010	C.C. Rd. W/B in Portion E3 - Sub-base	12	20NOV06	02DEC06	12JAN06	25JAN06
NR1090	C.C. Rd. W/B in Portion J2 - Sign Gantry	24	06NOV06	02DEC06	19JAN06	18FEB06
NR1100	C.C. Rd. W/B Portion J2 - Formation	18	09NOV06	29NOV06	12JAN06	04FEB06
NR2000	C.C. Rd. E/B - Foundations to Sign Gantry ADS3	18	20NOV06	09DEC06	05JAN06	25JAN06
NR3000	C.C. Rd. E/B - Formation	24	20NOV06	16DEC06	25MAY06	22JUN06
NR3030	C.C. Rd. E/B - E & M and TCSS Provision	36	04OCT06	15NOV06	05JAN06	18FEB06
At Grade Work - Ching Cheung Road - Main Section						
Temporary Traffic Management Schemes						
RT2240	3rd. TTMS CC Rd (Slewing) - Implementation	512*	28DEC04A	09SEP06	28DEC04A	01DEC06
RT2300	4th. TTMS CC Rd E/B C/Way - Prepare for Review	12	22AUG06	04SEP06	04AUG05	17AUG05
RT2310	4th. TTMS CC Rd E/B C/Way - CRE Endorsement	6	24SEP06	29SEP06	01OCT06	06OCT06
RT2320	4th. TTMS CC Rd E/B C/Way - Roadworks Advice	6	30SEP06	05OCT06	07OCT06	12OCT06
RT2330	4th. TTMS CC Rd E/B C/Way - Site Preparation	6	06OCT06	12OCT06	13OCT06	19OCT06
Earthworks & Slope Works - CCR-S1, S2 & S3						
RE1700	Slope CCR-S1E - Finish Seed & Planting +62.3mPD	6	21AUG06*	26AUG06	28OCT06	03NOV06
RE1710	Slope CCR-S1E - Finish Seed & Planting +54.8mPD	12	28AUG06	09SEP06	04NOV06	17NOV06
RE1720	Slope CCR-S1E - Finish Seed & Planting +47.3mPD	12	11SEP06	23SEP06	18NOV06	01DEC06
RE1710A	Slope CCR-S1C- Finish Seed & Planting +54.9mPD	12	21AUG06	02SEP06	04NOV06	17NOV06
RE1720A	Slope CCR-S1C - Finish Seed & Planting +47.3mPD	12	04SEP06	16SEP06	18NOV06	01DEC06
RE1840	Slope CCR-S1E&C- Rock Stabilisation to +25.4mPD	48	24OCT05A	05SEP06	24OCT05A	30AUG08
RE1860	Slope CCR-S1E&C- Finish Seed & Planting to +25.4	36	21AUG06	03OCT06	21OCT06	01DEC06
RE2000	Slope CCR-S2 -Excavate Rock to Formation	24	21AUG06	16SEP06	25OCT05	21NOV05
RE2050	Slope CCR-S2 - Rock Stabilisation	48	04SEP06	01NOV06	06MAY06	03JUL06
RE2100	Slope CCR-S2 - Drainage	42	02NOV06	20DEC06	04JUL06	22AUG06
RE1720B	Slope CCR-S1W - Seed & Planting to +39.95mPD	36	21AUG06	03OCT06	21OCT06	01DEC06
RE1550	Slope CCR-S1W - Rock Stabilisation to 24.9mPD	54	24OCT05A	07SEP06	24OCT05A	30AUG08
RE1560	Slope CCR-S1W - Rock Stabilisation to 19.0mPD	48	21AUG06	17OCT06	16AUG06	12OCT06



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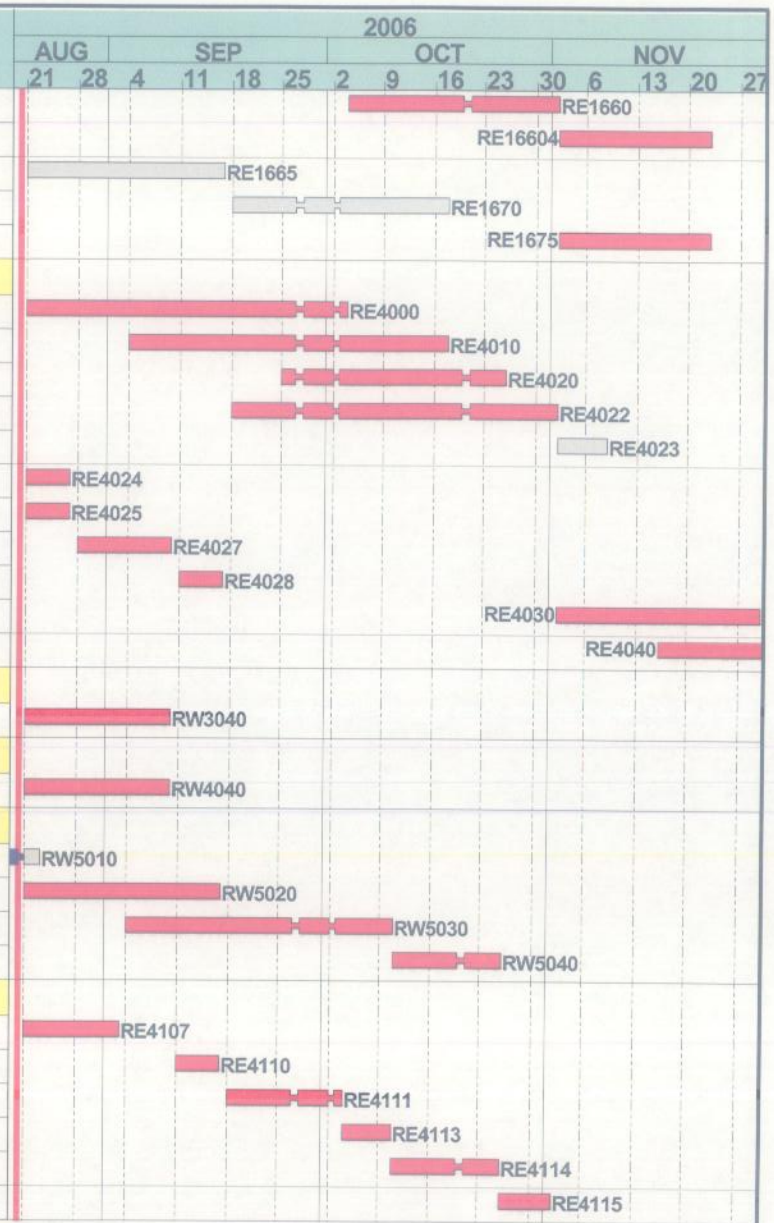
Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish
RE1660	Slope CCR-S1W - Drainage to Level +19.0mPD	24	04OCT06	01NOV06	28SEP06	27OCT06
RE16604	Slope CCR-S1W - Drainage to Level +16.8mPD	18	02NOV06	22NOV06	28OCT06	17NOV06
RE1665	Slope CCR-S1W - Seed & Planting to +32.4mPD	24	21AUG06	16SEP06	30AUG06	26SEP06
RE1670	Slope CCR-S1W - Seed & Planting to +24.9mPD	24	18SEP06	17OCT06	28SEP06	27OCT06
RE1675	Slope CCR-S1W - Seed & Planting to +19.0mPD	18	02NOV06	22NOV06	28OCT06	17NOV06
Slope Works Above Retaining Wall CCR-R2						
RE4000	Ch 00.00 to 78.27 - Excavate in Benches	36	21AUG06	03OCT06	18OCT05	28NOV05
RE4010	Ch 00.00 to 78.27 - Filter Layer	36	04SEP06	17OCT06	01NOV05	12DEC05
RE4020	Ch 02.13 to 41.71 - General Filling & Compaction	24	25SEP06	25OCT06	22NOV05	19DEC05
RE4022	Ch 50.71 to 78.27 - General Filling & Compaction	36	18SEP06	01NOV06	06MAY06	16JUN06
RE4023	Remove Access Road	6	02NOV06	08NOV06	25AUG08	30AUG08
RE4024	Ch 41.71 to 50.71 - General Filling & Compaction	6	21AUG06	26AUG06	10JUN06	16JUN06
RE4025	Ch 00.00 to 2.13 - General Filling & Compaction	6	21AUG06	26AUG06	20MAY06	26MAY06
RE4027	Excavate & Demolish Existing Retaining Wall	12	28AUG06	09SEP06	27MAY06	09JUN06
RE4028	Fill & Compact to Form Toe of Berm	6	11SEP06	16SEP06	10JUN06	16JUN06
RE4030	Slope Drainage above R/W CCR-R2	24	02NOV06	29NOV06	17JUN06	17JUL06
RE4040	Slope Finishes above R/W CCR-R2	24	16NOV06	13DEC06	04JUL06	01AUG06
Retaining Wall CCR-R3 Type A						
RW3040	Ret. Wall CCR-R3A - Backfill & Form Platform	18	21AUG06	09SEP06	29NOV05	19DEC05
Retaining Wall CCR-R3 Type B						
RW4040	Ret. Wall CCR-R3B - Backfill & Form Platform	18	21AUG06	09SEP06	29NOV05	19DEC05
Retaining Wall CCR-R3 Type C						
RW5010	Ret. Wall CCR-R3C - Temporay Works & Excavation	24	25JAN06A	22AUG06	25JAN06A	01DEC06
RW5020	Ret. Wall CCR-R3C - Bases	24	21AUG06	16SEP06	18JUL06	15AUG06
RW5030	Ret. Wall CCR-R3C - Walls	30	04SEP06	10OCT06	02AUG06	05SEP06
RW5040	Ret. Wall CCR-R3C - Backfill & Remove Temp Works	12	11OCT06	25OCT06	06SEP06	19SEP06
Slope Works Above Retaining Walls CCR-R3D, E & F						
RE4107	Slope above CCR-R3D-Excavate Slope	12	21AUG06	02SEP06	25JUL06	08AUG06
RE4110	Slope above CCR-R3D- Filter - Bottom to 1st Berm	6	11SEP06	16SEP06	09AUG06	15AUG06
RE4111	Slope above CCR-R3D- Rockfill - Bt'm to 1st Berm	12	18SEP06	03OCT06	16AUG06	29AUG06
RE4113	Slope above CCR-R3D- Filter - 1st Berm to F/Path	6	04OCT06	10OCT06	30AUG06	05SEP06
RE4114	Slope above CCR-R3D- Rockfill-1st Berm to F/Path	12	11OCT06	25OCT06	06SEP06	19SEP06
RE4115	Slope above CCR-R3D- Filter - F/Path to 3rd Berm	6	26OCT06	01NOV06	20SEP06	26SEP06



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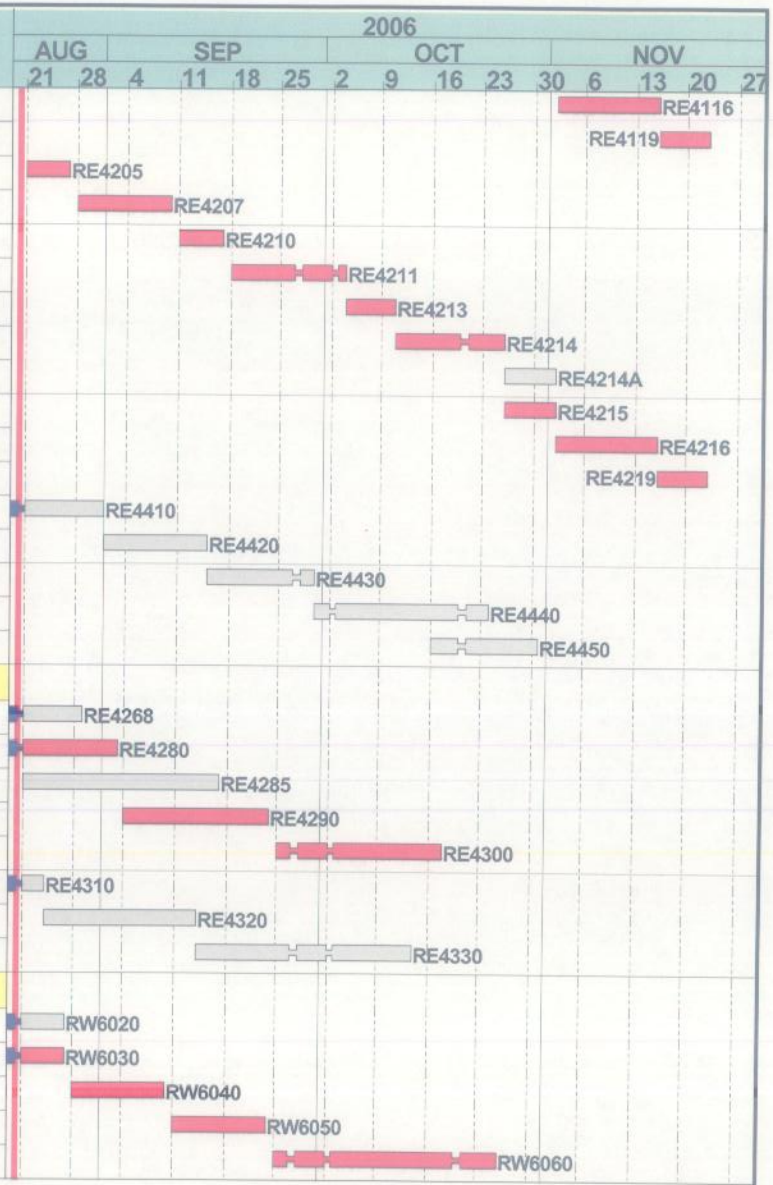
Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish
RE4116	Slope above CCR-R3D - Rockfill-F/Path to3rd Berm	12	02NOV06	15NOV06	28SEP06	12OCT06
RE4119	Slope above CCR-R3D- Filter - 3rd Berm to Top	6	16NOV06	22NOV06	13OCT06	19OCT06
RE4205	Slope above CCR-R3E&F -Remove Piling Platform	6	21AUG06	26AUG06	18JUL06	24JUL06
RE4207	Slope above CCR-R3E&F -Excavate Slope	12	28AUG06	09SEP06	25JUL06	08AUG06
RE4210	Slope above CCR-R3E&F- Filter - Btm. to 1st Berm	6	11SEP06	16SEP06	09AUG06	15AUG06
RE4211	Slope above CCR-R3E&F -Rockfill-Bt'm to 1st Berm	12	18SEP06	03OCT06	16AUG06	29AUG06
RE4213	Slope above CCR-R3E&F -Filter-1st Berm to +24mPD	6	04OCT06	10OCT06	30AUG06	05SEP06
RE4214	Slope above CCR-R3E&F-Rockfil-1st Berm to +24mPD	12	11OCT06	25OCT06	06SEP06	19SEP06
RE4214A	Slope above CCR-R3E&F- Form Crane Platform	6	26OCT06	01NOV06	25AUG08	30AUG08
RE4215	Slope above CCR-R3E&F-Filter- +24mPD to 3rd Berm	6	26OCT06	01NOV06	20SEP06	26SEP06
RE4216	Slope above CCR-R3E&F -Rockfil-+24mPD to3rd Berm	12	02NOV06	15NOV06	28SEP06	12OCT06
RE4219	Slope above CCR-R3E&F- Filter - 3rd Berm to Top	6	16NOV06	22NOV06	13OCT06	19OCT06
RE4410	Slope Above CC Rest Garden - Excavate Slope	12	14JUL06A	31AUG06	14JUL06A	05OCT06
RE4420	Slope Above CC Rest Garden - Benching	12	01SEP06	14SEP06	06OCT06	19OCT06
RE4430	Slope Above CC Rest Garden - Rock Filling	12	15SEP06	29SEP06	21OCT06	03NOV06
RE4440	Slope Above CC Rest Garden - Slope Drainage	18	30SEP06	23OCT06	04NOV06	24NOV06
RE4450	Slope Above CC Rest Garden - Slope Finishes	12	16OCT06	30OCT06	18NOV06	01DEC06
Earthworks & Slope Works - CCR-S4						
RE4268	Slope CCR-S4 - Excavate & Bench Upper Slope	48	03JAN06A	28AUG06	03JAN06A	30AUG08
RE4280	Slope CCR-S4 - Fill and Compact	24	23FEB06A	02SEP06	23FEB06A	01AUG06
RE4285	Slope CCR-S4 - Form New Access Road at Footpath	24	21AUG06	16SEP06	04AUG08	30AUG08
RE4290	Slope CCR-S4 - Upper Slope Drainage	18	04SEP06	23SEP06	02AUG06	22AUG06
RE4300	Slope CCR-S4 - Upper Slope Finishes	18	25SEP06	17OCT06	23AUG06	12SEP06
RE4310	Slope CCR-S4 - Excavate Lower Slope	24	01MAR06A	23AUG06	01MAR06A	12OCT06
RE4320	Slope CCR-S4 - Lower Slope Drainage	18	24AUG06	13SEP06	13OCT06	03NOV06
RE4330	Slope CCR-S4 - Lower Slope Finishes	24	14SEP06	13OCT06	04NOV06	01DEC06
Ching Cheung Road NTMM Retaining Wall A						
RW6020	NNTM Wall A - Drainage & Fill Behind Walls	12	21JUN06A	26AUG06	21JUN06A	30AUG08
RW6030	NNTM Wall A - Excavate to +20.5mPD	12	21JUN06A	26AUG06	21JUN06A	22AUG06
RW6040	NNTM Wall A - Debris Callection Area Drainage	12	28AUG06	09SEP06	23AUG06	05SEP06
RW6050	NNTM Wall A - Debris Callection Area Access Ramp	12	11SEP06	23SEP06	06SEP06	19SEP06
RW6060	NNTM Wall A - Debris Callection Area Finishes	24	25SEP06	25OCT06	20SEP06	19OCT06



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3 Month Rolling Programme
from 20 August 2006

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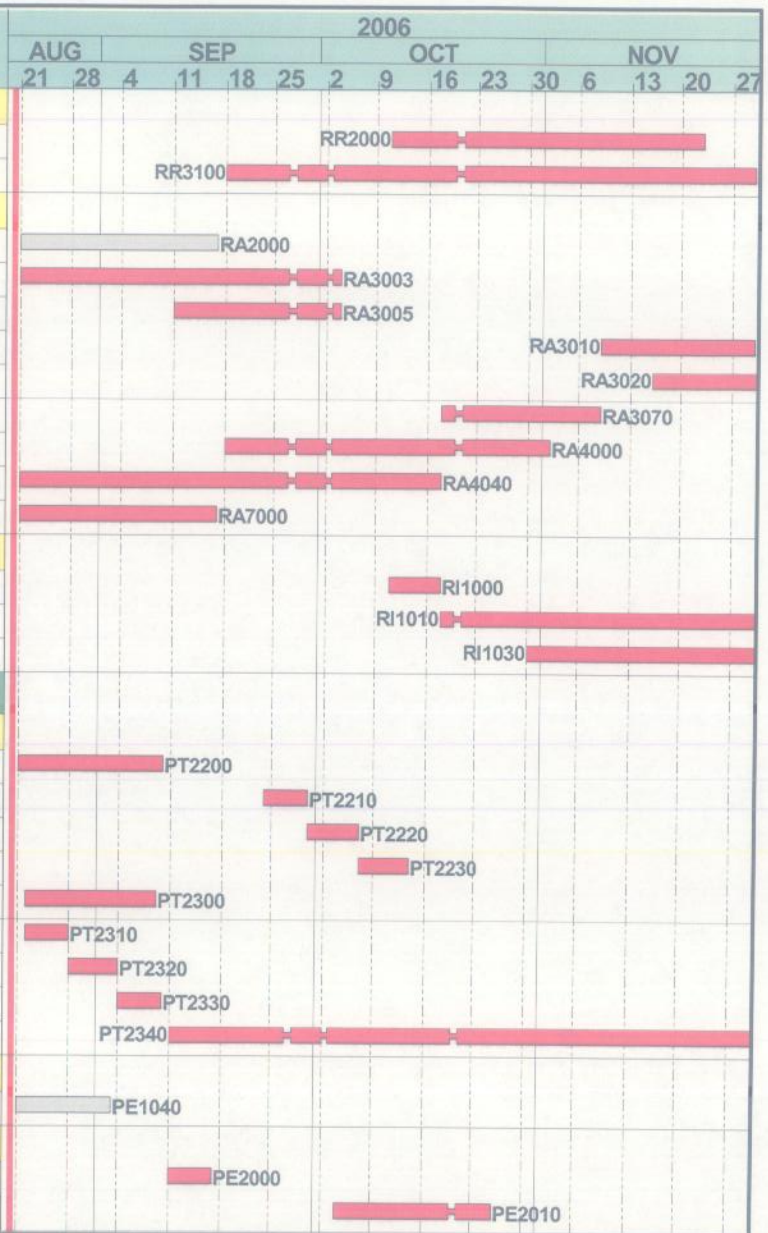
Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish
Drainage Works						
RR2000	Ching Cheung Rd. W/B - Stormwater in New C/way	36	11OCT06	22NOV06	06DEC05	18JAN06
RR3100	Ching Cheung Rd. E/B -S/Water S300-01 to S300-07	60	18SEP06	29NOV06	30MAR06	09JUN06
Utilities & Roadworks						
RA2000	Lai Wan Road - Footpath below Slope CCR-S4	24	21AUG06	16SEP06	04NOV06	01DEC06
RA3003	Ching Cheung Rd. W/B New C/Way - Filling	36	21AUG06	03OCT06	08NOV05	19DEC05
RA3005	Ching Cheung Rd. W/B - S/Gantry FADS4 Founds	18	11SEP06	03OCT06	23DEC05	14JAN06
RA3010	Ching Cheung Rd. W/B New C/Way - Formation	18	09NOV06	29NOV06	05JAN06	25JAN06
RA3020	Ching Cheung Rd. W/B New C/Way - Sub-base	18	16NOV06	06DEC06	12JAN06	04FEB06
RA3070	Ching Cheung Rd. New E/B -Sign Gantry DS3 Founds	18	18OCT06	08NOV06	05JAN06	25JAN06
RA4000	Ching Cheung Rd. New E/B Slip Road - E&M +TCSS	36	18SEP06	01NOV06	05JAN06	18FEB06
RA4040	Ching Cheung Rd. New E/B - Fill Behind N/B Base	48	21AUG06	17OCT06	08NOV05	04JAN06
RA7000	Lai Wan Road - Watermains & Hydrants FH4 & FH5	24	21AUG06	16SEP06	02MAR06	29MAR06
Lai Wan Overpass Irrigation Pump House						
RI1000	Lai Wan O/pass Irig Pump House - Plate Load Test	6	11OCT06	17OCT06	13MAY06	19MAY06
RI1010	Lai Wan O/pass Irig Pump House - Structure	48	18OCT06	13DEC06	20MAY06	17JUL06
RI1030	Lai Wan O/pass Irig Pump House - Building Works	75	30OCT06	26JAN07	31MAY06	29AUG06
At Grade Works - Butterfly Valley Interchange						
Temporary Traffic Management Schemes						
PT2200	TTMS CP Rd-KC S/B for Paving -Prepare for Review	18	21AUG06	09SEP06	04AUG05	24AUG05
PT2210	TTMS CP Rd-KC S/B for Paving - CRE Endorsement	6	24SEP06	29SEP06	13AUG06	18AUG06
PT2220	TTMS CP Rd-KC S/B for Paving - Roadworks Advice	7	30SEP06	06OCT06	19AUG06	25AUG06
PT2230	TTMS CP Rd-KC S/B for Paving - Site Preparation	6	07OCT06	13OCT06	26AUG06	01SEP06
PT2300	TTMS CP Rd-KC N/B for 11NW-A/C66-Prep for Review	16	22AUG06	08SEP06	06AUG05	24AUG05
PT2310	TTMS CP Rd-KC N/B for 11NW-A/C66 - CRE Endorse	6	22AUG06	27AUG06	21MAY06	26MAY06
PT2320	TTMS CP Rd-KC N/B for 11NW-AC66 - Roadwks Advice	7	28AUG06	03SEP06	27MAY06	02JUN06
PT2330	TTMS CP Rd-KC N/B for 11NW-A/C66 - Site Prepare	6	04SEP06	09SEP06	03JUN06	09JUN06
PT2340	TTMS CP Rd-KC N/B for 11NW-A/C66 - Implement	156*	11SEP06	20MAR07	10JUN06	01DEC06
Earthworks & Slopeworks - 11NW-A/C26						
PE1040	Slope 11NW-A/C26 - Finishing Works	12	21AUG06	02SEP06	18NOV06	01DEC06
Earthworks & Slopeworks - 11NW-A/C66						
PE2000	Slope 11NW-A/C66 - Hoardings / Fencing	6	11SEP06	16SEP06	10JUN06	16JUN06
PE2010	Slope 11NW-A/C66 - Trim Slope	18	04OCT06	25OCT06	17JUN06	10JUL06



Start Date 23SEP03
Finish Date 30AUG08
Data Date 20AUG06

P3 File : LU35

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

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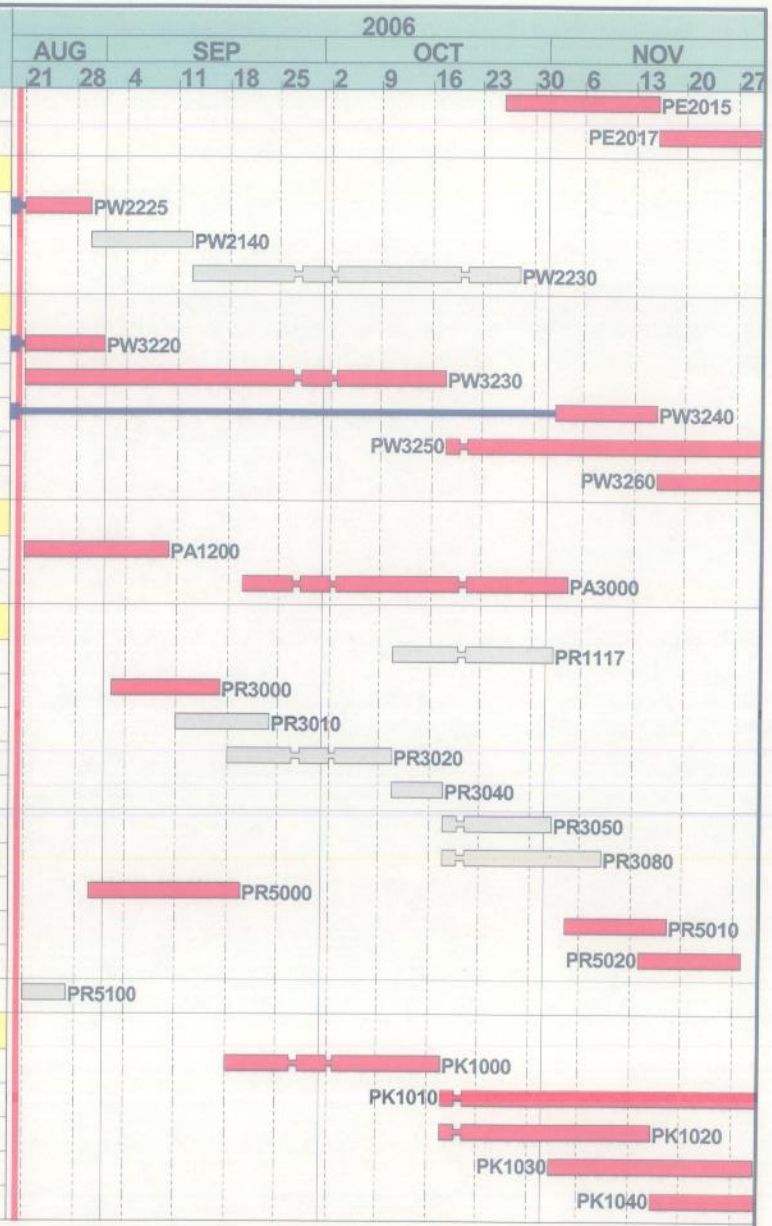
Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish
PE2015	Slope 11NW-A/C66 - Platform for Soil Nailing	18	26OCT06	15NOV06	11JUL06	01AUG06
PE2017	Slope 11NW-A/C66 - Soil Nails - Test Nail	12	16NOV06	29NOV06	02AUG06	15AUG06
Retaining Wall CCR-R5 (Pre-bored "H" Piles)						
PW2225	Ret. Wall CCR-R5 - Complete Coping & Facing	12	27APR06A	29AUG06	27APR06A	05JUL06
PW2140	Ret. Wall CCR-R5 - Complete Fill Behind Wall	12	30AUG06	12SEP06	06OCT06	19OCT06
PW2230	Ret. Wall CCR-R5 - Slope Works Behind Wall	36	13SEP06	27OCT06	21OCT06	01DEC06
Retaining Wall CCR-R6 (Value Engineering Design)						
PW3220	Ret. Wall CCR-R6 - Excavate Slope	48	06MAR06A	31AUG06	06MAR06A	07APR06
PW3230	Ret. Wall CCR-R6 - Reinstate Soil Nail Heads	48	21AUG06*	17OCT06	27MAR06	23MAY06
PW3240	Ret. Wall CCR-R6 - Install T40 Tie Back Anchors	48	26JUN06A	15NOV06	26JUN06A	21JUN06
PW3250	Ret. Wall CCR-R6 - Bases to R.C. Walls	48	18OCT06*	13DEC06	07JUN06	04AUG06
PW3260	Ret. Wall CCR-R6 - R.C. Walls	48	16NOV06	12JAN07	07JUL06	01SEP06
Drainage Works						
PA1200	C.P.Rd Loop to Slip Road C - Stormwater Drainage	18	21AUG06	09SEP06	28DEC05	18JAN06
PA3000	C.P.Rd.-K.C S/B to C.C. Rd E/B - Storm Drainage	36	20SEP06	03NOV06	27JUL06	07SEP06
Utilities & Roadworks						
PR1117	New CLP 11Kv Cable Laying in front of CCR-R5	18	11OCT06	01NOV06	11NOV06	01DEC06
PR3000	C.P.Rd. Loop to Slip Road C - Formation	13	02SEP06	16SEP06	11JAN06	25JAN06
PR3010	C.P.Rd. Loop to Slip Road C - Sub-base	12	11SEP06	23SEP06	28SEP06	12OCT06
PR3020	C.P.Rd. Loop to Slip Road C - Kerbs	18	18SEP06	10OCT06	06OCT06	27OCT06
PR3040	C.P.Rd. Loop to Slip Road C - Pavement	6	11OCT06	17OCT06	04NOV06	10NOV06
PR3050	C.P.Rd. Loop to Slip Road C - Street Lighting	12	18OCT06	01NOV06	18NOV06	01DEC06
PR3080	C.P.Rd. Loop to Slip Road C - Crash Barriers	18	18OCT06	08NOV06	11NOV06	01DEC06
PR5000	C.P.Rd-K.C. S/B to C.C.Rd E/B - Excavate Road	18	30AUG06	19SEP06	06JUL06	26JUL06
PR5010	C.P.Rd-K.C. S/B to C.C.Rd E/B - Formation	12	04NOV06	17NOV06	08SEP06	21SEP06
PR5020	C.P.Rd-K.C. S/B to C.C.Rd E/B - Sub-base	12	14NOV06	27NOV06	18SEP06	03OCT06
PR5100	C.C. Rd. W/B - Sign Gantry FADS7 at P15-P16	6	21AUG06	26AUG06	25AUG08	30AUG08
Kiosk at Slip Road C						
PK1000	Kiosk at Slip Rd. C - Structure	24	18SEP06	17OCT06	22NOV05	19DEC05
PK1010	Kiosk at Slip Rd. C - Building Finishes	48	18OCT06	13DEC06	20DEC05	18FEB06
PK1020	Kiosk at Slip Rd. C - MVAC Installation	24	18OCT06	15NOV06	20DEC05	18JAN06
PK1030	Kiosk at Slip Rd. C - Electrical Works	24	02NOV06	29NOV06	05JAN06	04FEB06
PK1040	Kiosk at Slip Rd. C - Drainage Works	24	16NOV06	13DEC06	19JAN06	18FEB06



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APPENDIX C
MONITORING REQUIREMENTS

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

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

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

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

APPENDIX D
ENVIRONMENTAL QUALITY PERFORMANCE (ACTION/LIMIT) LEVELS

Appendix D - Action and Limit Levels (LCKV)

1-Hour TSP

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

24-Hour TSP

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

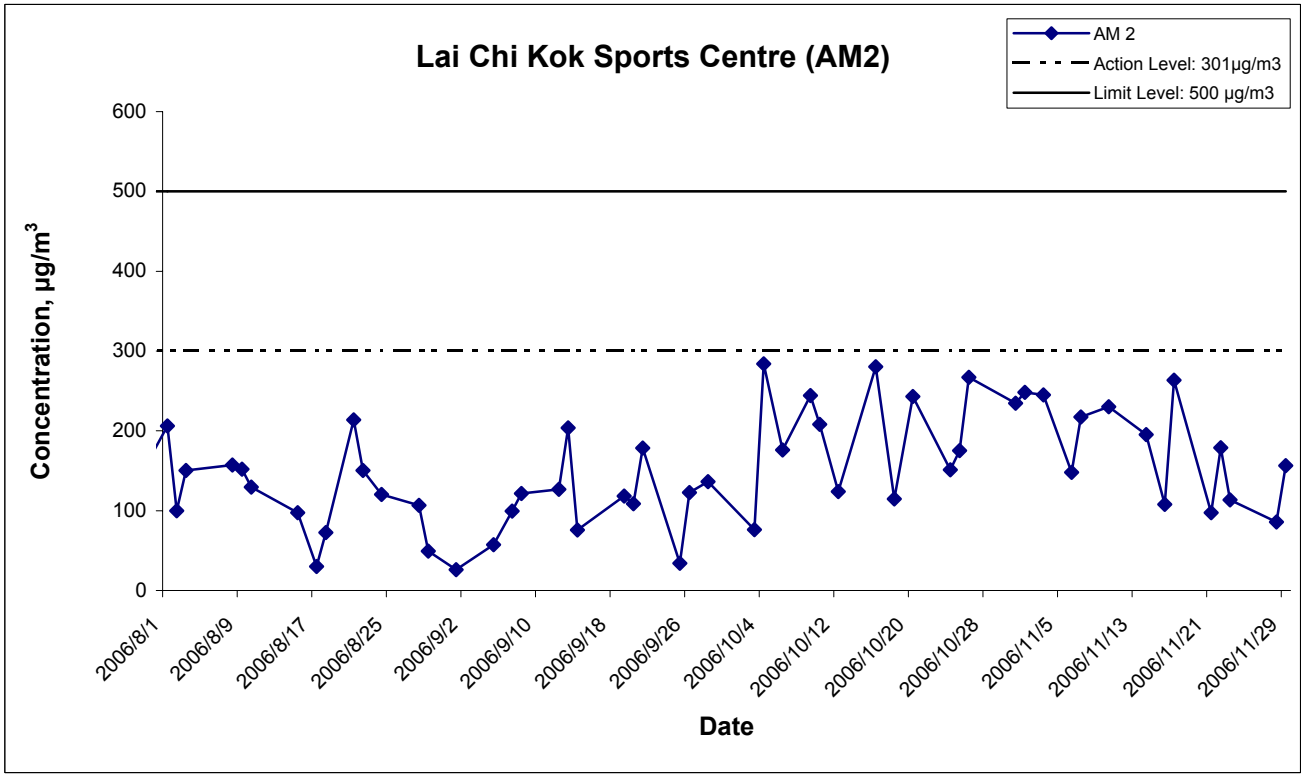
Construction Noise

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

(*) The Area Sensitivity Rating for the noise monitoring stations (NM3, NM4, NM8a, NM8b and NM9) is taken as C, according to Table 1 of EPD's Technical Memorandum on Noise from Construction Work other than Percussive Piling.

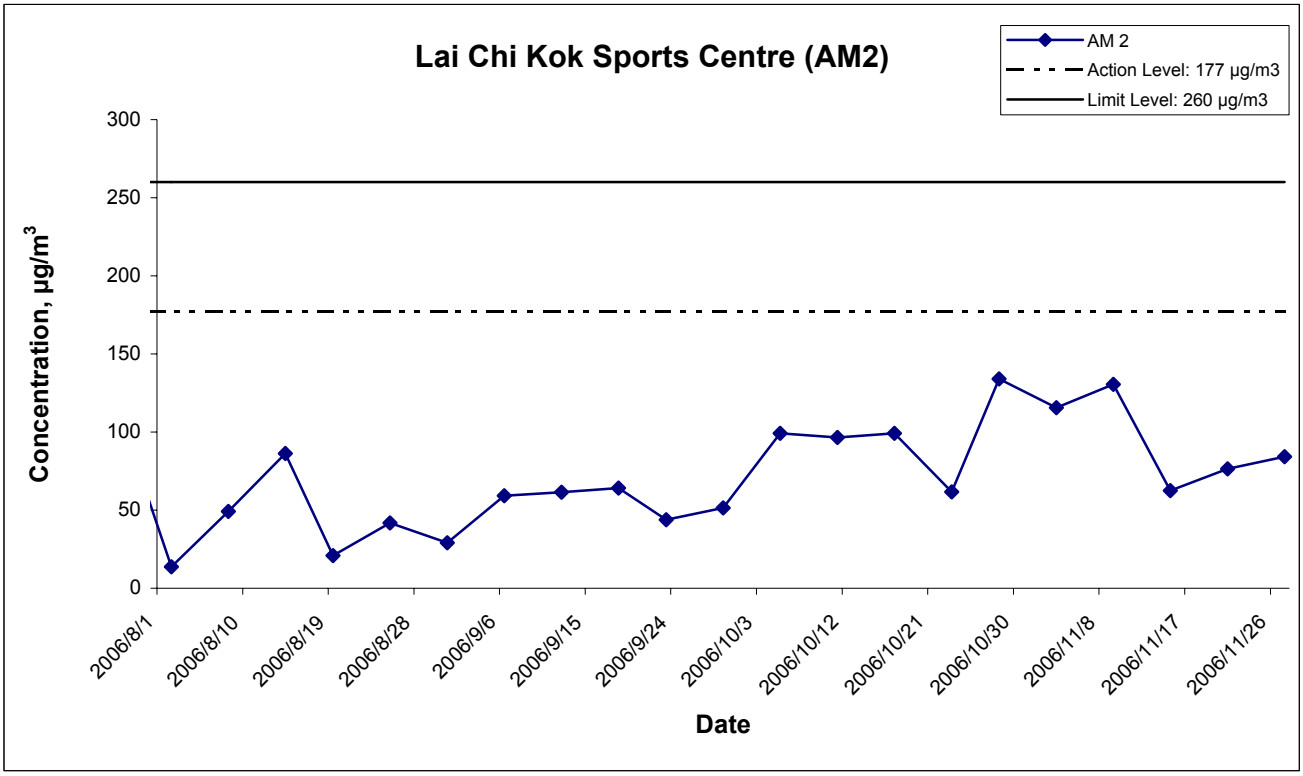
APPENDIX E
GRAPHICAL PRESENTATION OF AIR QUALITY MONITORING RESULTS

1-hr TSP Levels



Title Route 8 (previously known as Route 9) between Cheung Sha Wan & Sha Tin Contract HY/2003/01 - Lai Chi Kok Viaduct Graphical Presentation of 1-hour TSP Impact Monitoring Results	Scale N.T.S Date Nov 06	Project No. MA3024 Appendix E	CINOTECH

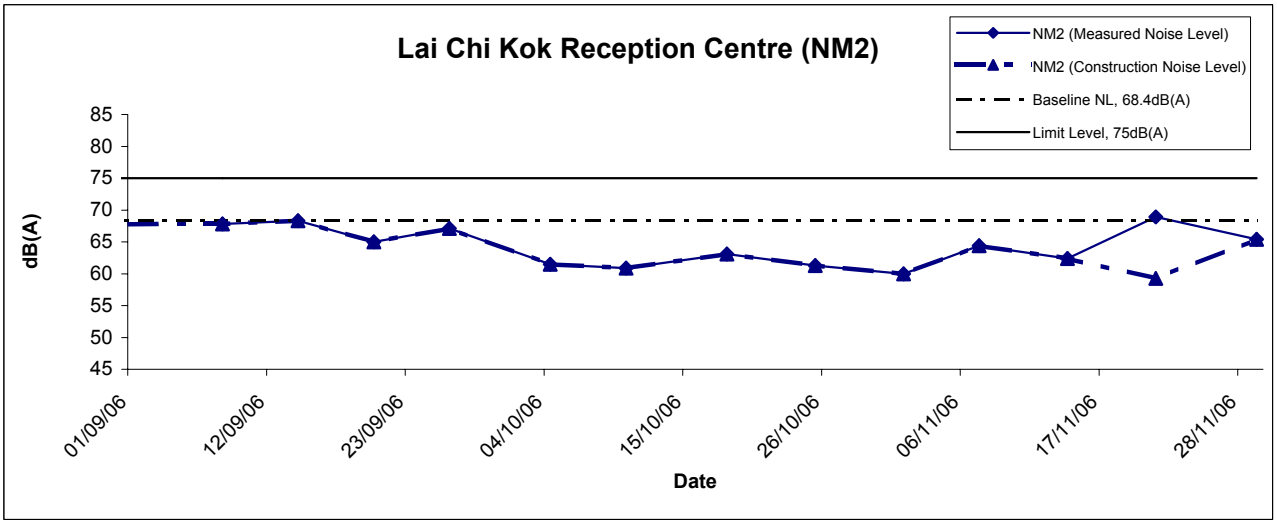
24-hr TSP Levels

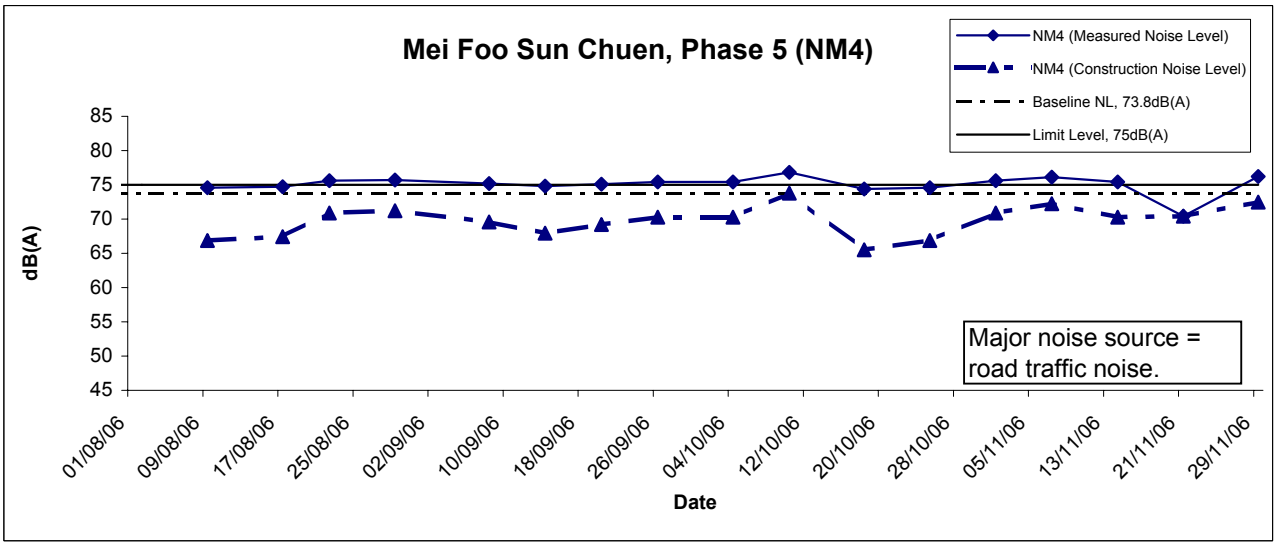


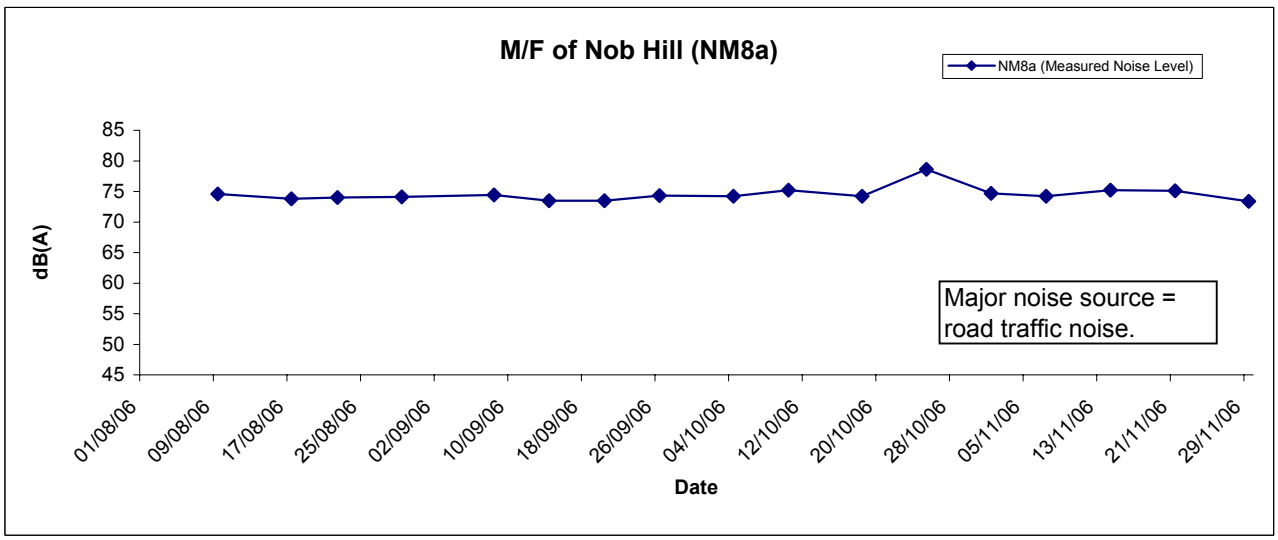
Title: Route 8 (previously known as Route 9) between Cheung Sha Wan & Sha Tin Contract HY/2003/01 - Lai Chi Kok Viaduct Graphical Presentation of 24-hour TSP Impact Monitoring Results	Scale: N.T.S Date: Nov 06	Project No.: MA3024 Appendix: E	CINOTECH

APPENDIX F
GRAPHICAL PRESENTATION OF NOISE MONITORING RESULTS

Noise Levels



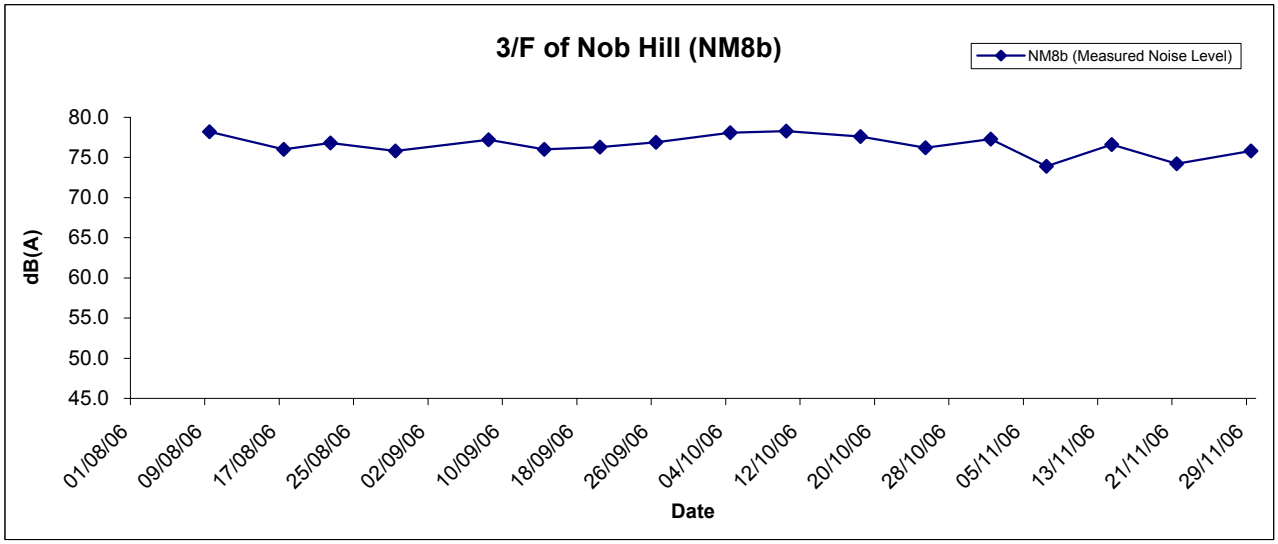


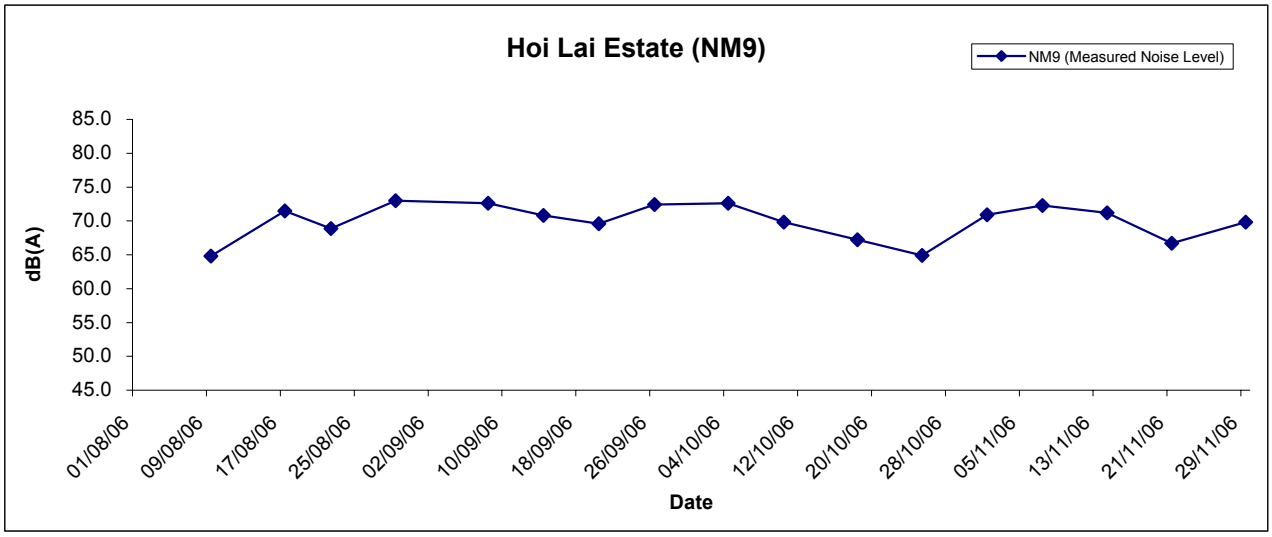


* Construction Noise Level = Measured Noise Level - Baseline Level
(If the measured noise level is lower than the baseline level, the construction noise level will be taken as the meaured one)

Title: Route 8 (previously known as Route 9) between Cheung Sha Wan and Sha Tin Contract HY/2003/01 - Lai Chi Kok Viaduct Graphical Presentation of Construction Noise Monitoring Results	Scale: N.T.S	Project No.: MA3024	CINOTECH
	Date: Nov 06	Appendix: F	

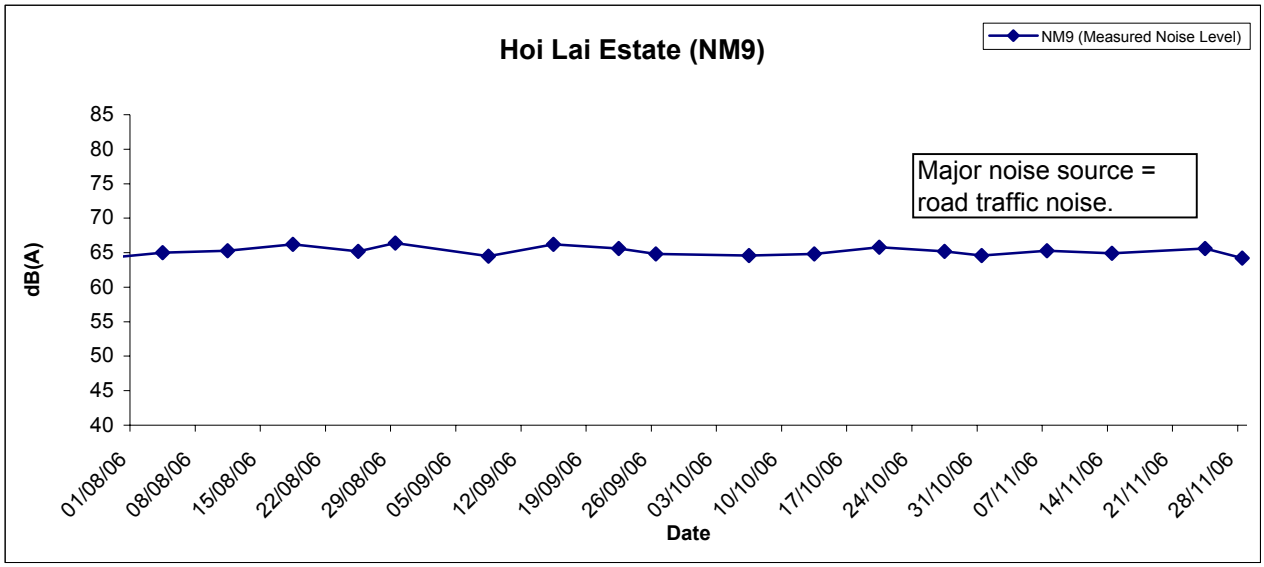
Noise Levels





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: Nov 06	Project No.: MA3024 Appendix: F	CINOTECH

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



Title: Route 8 (previously known as Route 9) between Cheung Sha Wan and Sha Tin Contract HY/2003/01 - Lai Chi Kok Viaduct Graphical Presentation of Construction Noise Monitoring Results	Scale: N.T.S Date: Nov 06	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; (c) The permanent slope works above the northern portal of the Eagle's Nest Tunnel; (d) The architectural works (including fitting out and furnishings) of the portal buildings of the Sha Tin Heights Tunnel.	Valid
Registration of 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-RW0311-06	6/6/06	5/12/06	*Location:* Butterfly Valley near O Pui Shan Boys' Home *Time Period:* General holiday (including Sundays) between 0700-2300 hours and any day not being a general holiday between 1900-2300 hours.	Valid
GW-RW0381-06	17/7/06	16/12/06	*Location:* Kwai Chung Road near Lai Chi Kok Interchange *Time Period:* Any day not being a general holiday between 2100-2400 (immediately following a general holiday) and 2100-0700 (not immediately following a general holiday).	Valid
GW-RW0393-06	27/7/06	25/1/07	*Location:* Lai Wan Road *Time Period:* Any day not being a general holiday between 2100-2400 (immediately following a general holiday) and 2100-0700 (not immediately following a general holiday).	Valid
GW-RW0408-06	02/8/06	30/12/06	*Location:* Lai Po Road near Hoi Lai Estate *Time Period:* Any day not being a general holiday between 2100-2400 (immediately following a general holiday) and 2100-0700 (not immediately following a general holiday).	Valid
GW-RW0421-06	3/8/06	2/1/07	*Location:* Lai Po Road near Sham Mong Road *Time Period:* Any day not being a general holiday between 19:00 - 07:00 and 00:00 - 24:00 (general holiday including Sundays).	Valid

Permit No.	Valid Period		Details	Status
	From	To		
GW-RW0468-06	7/9/06	5/2/07	*Location:* Ching Cheung Road near Castle Peak Road *Time Period:* 0700-2300 (general holiday including Sundays) and 1900-2300 (any day not being a general holiday).	Valid
GW-RW0498-06	16/9/06	15/3/07	*Location:* Butterfly Valley *Time Period:* 0700-2300 (general holiday including Sundays) and 1900-2300 (any day not being a general holiday).	Valid
GW-RW0508-06	13/9/06	12/3/07	*Location*: Butterfly Valley Interchange *Time Period* Any day not being a general holiday between 2100-2400 hours (immediately following a general holiday) and between 2100-0700 hours (not immediately following a general holiday).	Valid
GW-RW0513-06	17/9/06	11/3/07	*Location:* Junction of Castle Peak Road and Ching Cheung Road *Time Period:* 0900-1900 (general holiday including Sundays).	Valid
GW-RW0515-06	24/9/06	26/12/06	*Location:* Ching Cheung Road near Butterfly Valley *Time Period:* 0900-2100 (general holiday including Sundays) and 2100-0700 (any day not being a general holiday).	Valid
GW-RW0558-06	1/10/06	31/3/07	*Location:* Butterfly Valley Road *Time Period:* 0700-2300 (general holiday including Sundays) and 1900-2300 (any day not being a general holiday).	Valid
GW-RW0563-06	2/10/06	1/4/07	*Location:* Ching Cheung Road - Lai Wan Road Overpass near Nob Hill *Time Period:* 0900-2300 (general holiday including Sundays) and 1900-2300 (any daynot being a general holiday).	Valid
GW-RW0565-06	4/10/06	3/4/07	*Location:* Castle Peak Road near Ching Cheung Road *Time Period:* 0700-2300 (general holiday including Sundays) and 1900-2300 (any daynot being a general holiday).	Valid
GW-RW0580-06	9/10/06	9/3/07	*Location:* Castle Peak Road and Butterfly Road *Time Period:* Any day not being a general holiday for 2100-2400 (immediately following a general holiday) and 2100-0700 hours (not immediately following a general holiday).	Valid
GW-RW0581-06	7/10/06	6/4/07	*Location:* 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-RW0582-06	9/10/06	8/3/07	*Location:* Butterfly Valley Interchange *Time Period:* Any day not being a general holiday for 2100-2400 (immediately following a general holiday) and 2100-0700 hours (not immediately following a general holiday).	Valid
GW-RW0596-06	17/10/06	16/3/07	*Location:* Ching Cheung Road near Butterfly Valley *Time Period:* Any day not being a general holiday for 2100-2400 (immediately following a general holiday) and 2100-0700 hours (not immediately following a general holiday).	Valid

Permit No.	Valid Period		Details	Status
	From	To		
GW-RW0624-06	27/10/06	26/4/07	*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 hours (not immediately following a general holiday).	Valid
GW-RW0625-06	31/10/06	28/4/07	*Location:* Butterfly Valley Road near Lai Chi Kok Reception Centre *Time Period:* Any day not being a general holiday for 2100-2400 (immediately following a general holiday) and 2100-0700 hours (not immediately following a general holiday).	Valid
GW-RW0642-06	13/11/06	11/4/07	*Location:* Butterfly Valley Road near Lai Chi Kok Interchange *Time Period:* Any day not being a general holiday between 2100-2400 hours (immediately following a general holiday) and between 0000-0700 hours & 2100-2400 hours (not immediately following a general holiday).	Valid (New)
GW-RW0643-06	8/11/06	7/5/07	*Location:* Ching Cheung Road near Butterfly Valley *Time Period:* 0000-2400 (general holiday including Sundays) and 0000-0700 & 1900-2400 (any day not being a general holiday).	Valid (New)

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	

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				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.	

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

- Five noise action level exceedances were recorded due to noise complaints received on 25th September, 25th October, 3rd November and 21st November 2006. The details of the complaint can refer to Appendix I.
- No Limit Level exceedances were recorded in the reporting period.