

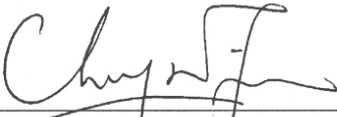
Highways Department

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

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

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

March to May 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 tenth Quarterly Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for the "Route 8 (previously known as Route 9) between Cheung Sha Wan & Sha Tin, Lai Chi Kok Viaduct & Eagle's Nest Tunnel". This summary report documents the findings of EM&A works performed in the period between March and May 2006 for Contract No. HY/2003/01, Route 8 – Lai Chi Kok Viaduct (the Project).
- The major site activities undertaken in the reporting month included construction of abutments and columns, excavation works, drainage works and segment erection works.

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		
<i>March 2006</i>				
1-hr TSP	0	0	0	N/A
24-hr TSP	0	0	0	N/A
Noise	0	2 ^a	2	NOE was issued.
<i>April 2006</i>				
1-hr TSP	0	0	0	N/A
24-hr TSP	0	0	0	N/A
Noise	2 ^b	0	0	Complaint Investigation
<i>May 2006</i>				
1-hr TSP	0	0	0	N/A
24-hr TSP	0	0	0	N/A
Noise	1 ^b	0	0	Complaint Investigation

Remarks:

- (a) Two noise limit level exceedances were recorded, both at Station NM4 (Mei Foo Sun Chuen) on 7 March and 14 March 2006. The Contractor implemented remedial mitigation measures and rectified the construction noise impacts.
- (b) Three noise action level exceedances were recorded due to a noise complaint received on 20 April, 28 April and 22 May 2006.

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	3	3 on noise	Complaint investigation	Closed	---
Changes to the assumptions and key construction / operation activities recorded	0	---	N/A	N/A	---
Status of submissions under EP	0	---	N/A	N/A	---
Notifications of any summons & prosecutions received	0	---	N/A	N/A	---
<p><u>Future Key Issues:</u> Major site activities for the coming month include:</p> <ul style="list-style-type: none"> • Construction of cross head of column at Pier P2; • Bulk excavation works at slope CCR-S1; • Soil nail installation at slope CCR-S4; • Bulk excavation works at slope CCR-S4, CCR-R3, CCR-R4 & CCR-R6; • Retaining wall construction at CCR-R1 to CCR-R6, LCK-R1; • Drainage works at Rest Garden area, Hoi Lai Estate & Piers B1; • Offsite fabrication of pre-cast deck segment mould and segment casting; • Segment erection by launching gantry at night at Pier P20; • Cast in-situ of slip road C; • Cast in-situ and precast segment erection at slip road D; and • Segment erection by lifting crane at pier C6, D3, D8 & Abutment M. <p>The anticipated environmental impacts will be mainly on dust generation and construction noise impact from soil nail installation and excavation works, and water quality impact during rainy days.</p>					

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-IDC Hong Kong Ltd. was appointed as the IEC under Condition 2.1 of the EP. This is the tenth quarterly EM&A report summarizing the EM&A works for the LCKV Project between March and May 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**. The site activities during the reporting period include:
- Construction of abutment M at slip roads C and D, column at P21 and slip roads D;
 - Rock dowel installation and soil nail installation at slopes CCR-S1 and CCR-R2;
 - Bulk excavation works at CCR-R1, CCR-R3, CCR-R6 and CCR-S4;
 - Bulk excavation works and retaining wall construction at CCR-R1 to R6;
 - Drainage works at Rest Garden area, Hoi Lai Estate, Piers B1, P5, P9 and P10;
 - Offsite fabrication of pre-cast deck segment moulds and segment casting;
 - Segment erection by lifting frame at Piers P4, P5, D6, D7 and slip road D;
 - Segment erection by launching gantry works at night at Piers P17, P18/R, P19 and P20;
 - Segment erection by lifting cranes at Piers P1, P5, P17, P18, PA/R, P1/R, P4/R, P18/R, PA/L, D1 to D3, D7 to D9 and Abutment D;
 - Cast in-situ of Slip Road C and D;
 - Cast in-situ and precast segment erection at slip road C and D; and
 - Backfilling slope at CCR-S5.

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/equipments were 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 in this reporting quarter. 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 in this reporting quarter. No Action / Limit Level exceedance was recorded in the reporting quarter.
- 4.4 As noted by the monitoring team, road traffic dust from Ching Cheung Road was identified as the major dust source at the monitoring station during the monitoring.
- 4.5 The monitoring data of 1-hr and 24-hr TSP Levels are attached in the appendices of the Monthly Reports for March to May 2006. The graphical presentations of the monitoring results are shown in **Appendix E**.

Construction Noise

- 4.6 All construction noise monitoring was conducted as scheduled in this reporting quarter. Two limit level exceedances were recorded, both at Station NM4 (Mei Foo Sun Chuen) on 7 March and 14 March 2006, it was considered that the exceedances were due to the Project works. However, the Contractor implemented remedial mitigation measures and rectified.
- 4.7 Three action level exceedances were recorded due to noise complaints were received on 20 April, 28 April and 22 May 2006, triggering noise Action Level exceedances. The details can refer to **Appendix I**.
- 4.8 At Stations NM4, NM8a and NM8b, the measured noise levels during the monitoring exercises were mainly contributed from the road traffic noise. On the other hand, the major noise source for the monitoring at Station NM9 was coming from the construction activities of the Project.
- 4.9 All the Construction Noise Levels (CNLs) reported in this report 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.
- 4.10 The monitoring data of construction noise are attached in the appendices of the Monthly Reports for March to May 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 ET's weekly site audits were conducted on 2, 9, 16, 23 and 30 March 2006, 3, 12, 20 and 26 April 2006, 3, 10, 17, 24 and 29 May 2006. IEC's monthly site audits were conducted on 2 March, 3 April and 8 May 2006 together with ET.
- 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
<i>Water Quality</i>	2-Mar-06	Standing water was observed at various locations (including S4 and Abutment A) of the site. The Contractor was reminded to remove the water as soon as possible to prevent mosquito breeding.	The situation was found improved / rectified during the audit on 9-Mar-06.
	30-Mar-06	Standing water was observed in the sand traps near NTMM. The Contractor was reminded to clear the water as soon as possible to prevent mosquito breeding.	The situation was found improved / rectified during the audit on 3-Apr-06.
	3-Apr-06	The Contractor was reminded to provide proper protection along the open channel especially for P11 to P12 to prevent untreated surface runoff discharging into the channel.	The situation was found improved / rectified during the audit on 12-Apr-06.
	3-Apr-06	Clearance works were undertaken by the Contractor to remove the sediments/mud from the open channel in Wai Man Tsuen. The Contractor was reminded to take precautionary measures during the works to minimize contamination to the channel water.	The situation was found improved / rectified during the audit on 12-Apr-06.
	10-May-06	Standing water was observed in drip tray at site Wan man Tsuen. It should be cleaned up avoid flooding and mosquito breeding.	The situation was found improved / rectified during the audit on 17-May-06.
	29-May-06	Yellow surface runoff directly discharge to public drain was observed at site at C14. De-silting measures should be improved before discharge.	The situation would be followed in June 2006.

Parameters	Date	Observations and Recommendations	Follow-up
<i>Air Quality</i>	2-Mar-06	The Contractor was reminded to provide wheel washing facility and the associated water treatment facilities at the exit at R3.	The situation was found improved / rectified during the audit on 9-Mar-06.
	30-Mar-06	The cement mixing work at NTMM was not properly enclosed. The Contractor was reminded to provide a 3-side and top cover for the works to minimize dust emission.	The situation was found improved / rectified during the audit on 3-Apr-06.
	12-Apr-06	An air compressor at R3 was found operated with doors open. The Contractor was reminded to keep the compressor's doors closed during operation to minimize noise impact.	The situation was found improved / rectified during the audit on 20-Apr-06.
<i>Chemical Management</i>	9-Mar-06	Stain oil was observed on bare ground for the site at Lai Po Road.	The situation was found improved / rectified during the audit on 16-Mar-06.
	16-Mar-06	Leakage diesel oil was observed on bare ground form the generator at Slope 1. Good maintenance should be provided for the generator.	The situation was found improved / rectified during the audit on 23-Mar-06.
	23-Mar-06	Some diesel oil leaked from the air compressor to bare ground was observed in site at Lai Po Road. Good Maintenance and drip tray should be provided for the generator to avoid spillage.	The situation was found improved / rectified during the audit on 30-Mar-06.
	26-Apr-06	A bucket of chemical solvent without cover was observed on bare ground at S4 site area. Cover should be provided and placed at suitable area with drip tray.	The situation will be followed in 3-May-06.
	24-May-06	Two drums of diesel oil without drip tray were observed on bare ground at Mui Kong Tsuen. Drip Tray should be provided to avoid spillage.	The situation was found improved / rectified during the audit on 29-May-06.

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 all 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 Two Limit Level exceedances were recorded, both at Station NM4 (Mei Foo Sun Chuen) on 7 March and 14 March 2006. Three Action Level exceedances were triggered by noise complaints received on 20 April, 28 April and 22 May 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 Three environmental complaints were received in the reporting period.

Log no. 60420 (Received on 20 Apr 06)

7.2 The complaint, which was lodged by a resident of Hoi Lai Estate, was about construction noise due to night works at both Hoi Lai Estate and West Kowloon Highway between 14th and 17th April 2006. According to the RSS's records, the construction works were carried out by the contractor from day time to 2230 hours on 14th April 2006 and from 2000 hours to 0600 hours 16th April 2006 at the area near Hoi Lai Estate. Construction night works were undertaken by the Contractor under valid CNP No. GW-RW0172-06. In addition, the Contractor had implemented mitigation measures such as turned off the alert sound of tractors during backward movement and have strengthened their management on worker's working manner. Finally, night works at the concerned location were completed and no further construction work at night will be carried out. Base on the abovementioned information, the complaint was considered not justifiable. The complaint report was issued to EPD on 28th April 2006.

Log no. 60428 (Received on 28 Apr 06)

7.3 The complaint, which was lodged by resident of Mei Foo Sun Chuen Phase 5, was about tree cutting in the area between Ching Cheung Road and Mei Lai Road (near Phase 5 of Mei Foo Sun Chuen). The complaint was related to the existing traffic noise impact generated from Ching Cheung Road due to the temporary removal of existing trees by this report. 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 was considered not justifiable. Since excavation for cut slopes and construction of slip road D are required at this area, tree cutting is unavoidable. Besides, the tree felling was approved by DLO/KW. No follow up action was required for this complaint.

Log no. 60522 (Received on 22 May 06)

7.4 The complaint, which was lodged by a resident of Hoi Fai House of Hoi Lai Estate, was about the noise produced from construction work during the periods between 2300 hours and 0100 hours every night since three weeks ago. The complainant described the noise being like sound of pouring concrete. According to the RSS's records, only precast segment transportation works at 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 the concerned period. The above night works were undertaken the three construction noise permits CNP No.GW-RW0740-05, GW-RW0145-06, GW-RW0269-06. An ad-hoc inspection was carried out by the Environmental Team at 2300 on 26/5/06. No construction activities were carried out such as segment transportation works near Pier 5L, where the tractor and mobile crane

were throttled down. Based on the information collected, the complaint was considered not justifiable. The complaint report was issued on 1 June 2006.

- 7.5 There were 25 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 6 December 2005, the Contractor was fined \$5,000 by the Kowloon City magistrate's court.

There was 1 successful prosecution received since the Project commencement.

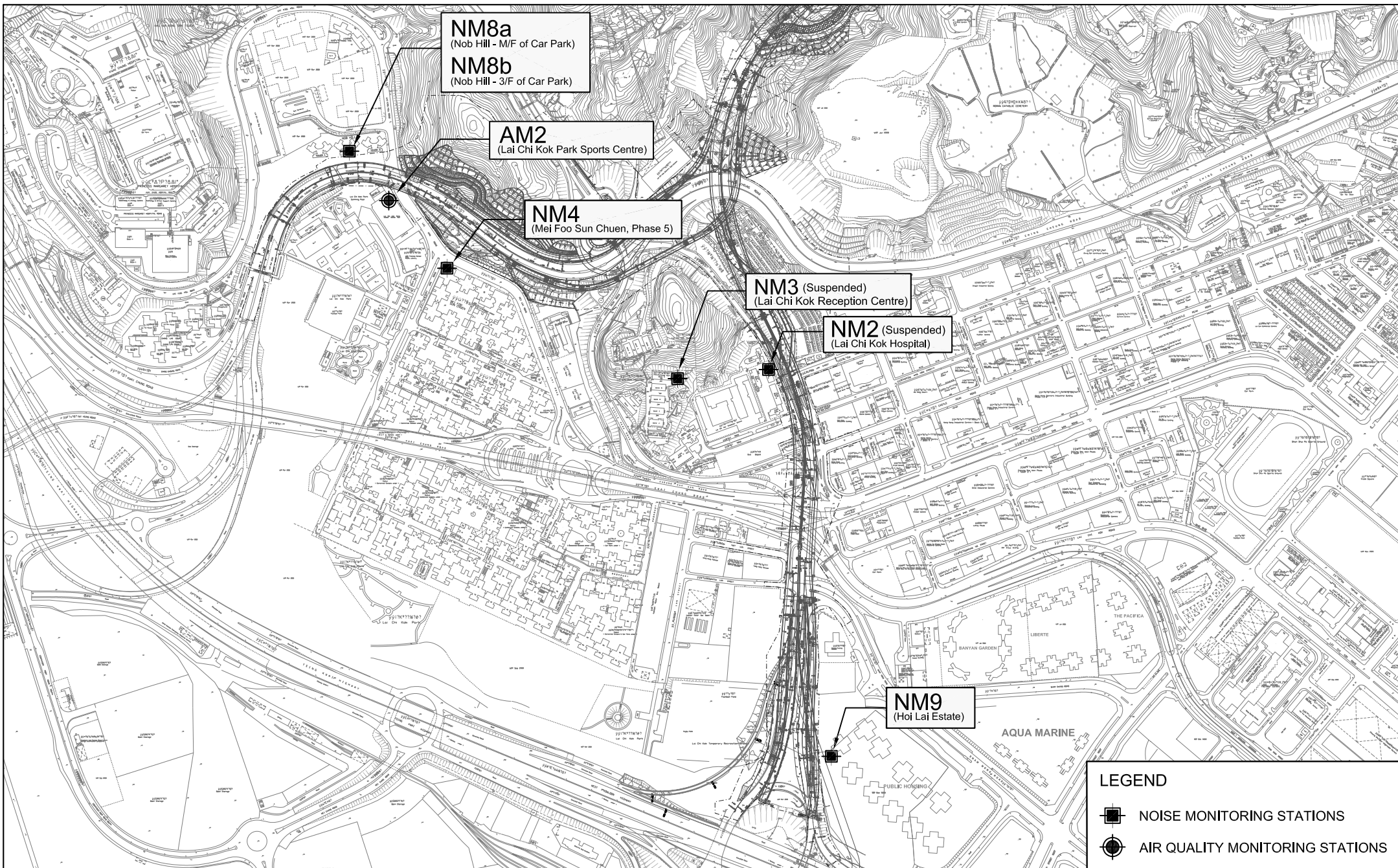
9 COMMENTS, CONCLUSIONS AND RECOMMENDATIONS

9.1 Major site activities for the coming month include:

- Construction of cross head of column at Pier P2;
- Bulk excavation works at slope CCR-S1;
- Soil nail installation at slope CCR-S4;
- Bulk excavation works at slope CCR-S4, CCR-R3, CCR-R4 & CCR-R6;
- Retaining wall construction at CCR-R1 to CCR-R6, LCK-R1;
- Drainage works at Rest Garden area, Hoi Lai Estate & Piers B1;
- Offsite fabrication of pre-cast deck segment mould and segment casting;
- Segment erection by launching gantry at night at Pier P20;
- Cast in-situ of slip road C;
- Cast in-situ and precast segment erection at slip road D; and
- Segment erection by lifting crane at pier C6, D3, D8 & Abutment M.

9.2 The anticipated environmental impacts will be mainly on water quality impact in rainy season, construction noise from excavation works at R1, R2, R3, R6 and S4, as well as nighttime construction noise from segment transportation and erection works.

FIGURES



LEGEND	
	NOISE MONITORING STATIONS
	AIR QUALITY MONITORING STATIONS

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

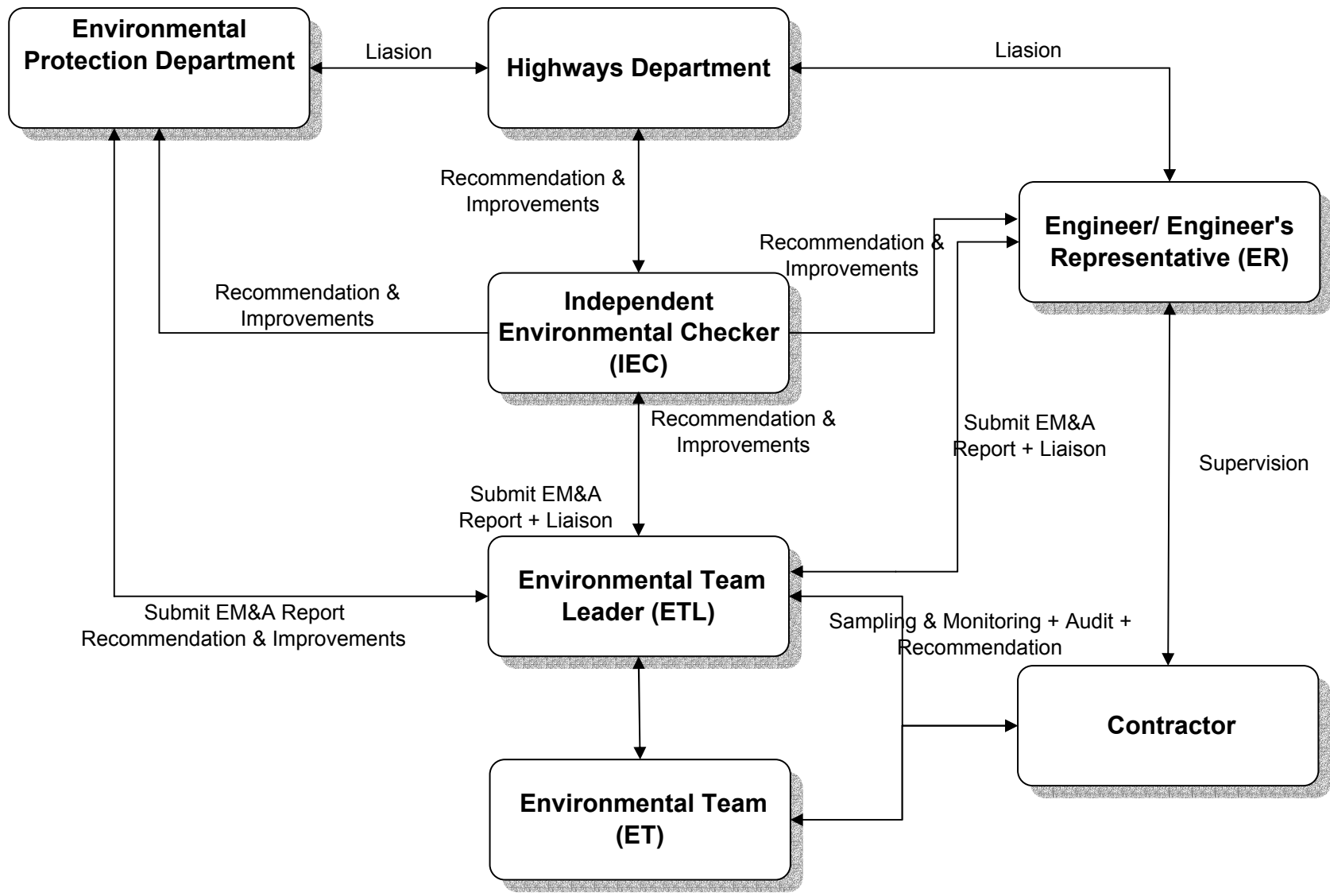
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Date
 2006

Project No.
 MA3024

Figure No.
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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
Date	2006	Figure	2

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**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. K.T. Lee	SE3/R9K	2762 3684	2714 5198
		Mr. Albert Cheung	E6/R9K	2762 3598	
		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. Henry Liu	SRE	2991 1068	
Mr. Joseph Chi	RE	2991 1034			
Cinotech	Environmental Team	Dr. Priscilla Choy	The ET Leader	2151 2089	3107 1388
		Miss. Attle Hui	Audit Team Leader	2151 2077	
		Mr. Henry Leung	Monitoring Team Leader	2151 2087	
CH2M-IDC	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. Rafael Rubio	Project Director	2956 3300	2956 3331
		Mr. Lawrence Kwok	QA/E Manager		
24-hour Emergency Hotline				2370 9200	-

APPENDIX B
CONSTRUCTION PROGRAMME

Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish	2006											
							JAN			FEB			MAR			APR		
							16	23	30	6	13	20	27	6	13	20	27	3
Procurement																		
Segmental Deck Casting (Type A Units)																		
SD2650A	P17/L-Up - Cast 9 Segments Type A	17	09JAN06A	23JAN06	09JAN06A	23SEP05	SD2650A											
SD2660	P17/R-Up - Cast 12 Segments Type A	20	12JAN06A	03FEB06	12JAN06A	28SEP05	SD2660											
SD2650	P17/L-Down - Cast 9 Segments Type A	18	20JAN06	12FEB06	08SEP05	27SEP05	SD2650											
SD2700A	P19/R-Down - Cast 10 Segments Type A	16	24JAN06	13FEB06	15NOV05	01DEC05	SD2700A											
SD2700	P19/R-Up - Cast 10 Segments Type A	17	04FEB06	22FEB06	18NOV05	06DEC05	SD2700											
SD2690A	P19/L-Down - Cast 9 Segments Type A	16	13FEB06	02MAR06	30NOV05	17DEC05	SD2690A											
SD2690	P19/L-Up - Cast 9 Segments Type A	22	14FEB06	10MAR06	02DEC05	26DEC05	SD2690											
SD2720	P20/L-Down - Cast 13 Segments Type A	22	23FEB06	18MAR06	07DEC05	30DEC05	SD2720											
SD2715	P20/R-Down - Cast 12 Segments Type A	26	03MAR06	31MAR06	18DEC05	15JAN06	SD2715											
SD2720A	P20/L-Up - Cast 13 Segments Type A	21	11MAR06	03APR06	27DEC05	18JAN06	SD2720A											
SD2710	P20/R-Up - Cast 12 Segments Type A	17	20MAR06	07APR06	31DEC05	18JAN06	SD2710											
SD2740	P21/R-Down - Cast 9 Segments Type A	17	01APR06	19APR06	16JAN06	07FEB06	SD2740											
SD2730A	P21/L-Up - Cast 8 Segments Type A	14	04APR06	18APR06	19JAN06	07FEB06	SD2730A											
SD2730	P21/L-Down - Cast 8 Segments Type A	12	08APR06	20APR06	19JAN06	04FEB06	SD2730											
SD2740A	P21/R-Up - Cast 9 Segments Type A	14	20APR06	06MAY06	08FEB06	22FEB06	SD2740A											
SD2760	Abutment M/R - Cast 5 Segments Type A	10	19APR06	29APR06	21FEB06	03MAR06	SD2760											
Segmental Deck Casting (Type B Units)																		
SD3290	PA/L (North) - Cast 9 seg Type B	18	20JAN06	12FEB06	18MAY05	06JUN05	SD3290											
SD3430	D2-Pierhead & Up - Cast 14 Segments Type B	22	15JAN06A	06FEB06	15JAN06A	26SEP05	SD3430											
SD3430A	D2-Down - Cast 13 Segments Type B	22	10JAN06A	06FEB06	10JAN06A	26SEP05	SD3430A											
SD3440	D1-Pierhead & Up - Cast 11 Segs Type B	20	17DEC05A	21JAN06	17DEC05A	17SEP05	SD3440											
SD3390	D6-Pierhead & Up - Cast 9 seg Type B	16	30NOV05A	09FEB06	30NOV05A	08OCT05	SD3390											
SD3390A	D6-Pierhead & Down - Cast 9 seg Type B	16	23JAN06	12FEB06	19SEP05	06OCT05	SD3390A											
SD3460	P19 Slip C-Up - Cast 10 Segments Type B	19	07FEB06	27FEB06	27SEP05	19OCT05	SD3460											
SD3460A	P19 Slip C-Down - Cast 10 Segments Type B	19	07FEB06	27FEB06	27SEP05	19OCT05	SD3460A											
SD3470	P19 Slip D-Up - Cast 8 Segments Type B	16	10FEB06	27FEB06	10OCT05	26OCT05	SD3470											
SD3470A	P19 Slip D-Down - Cast 8 Segments Type B	16	13FEB06	02MAR06	07OCT05	24OCT05	SD3470A											
SD3380	D7-Up - Cast 9 seg Type B	18	28FEB06	18MAR06	20OCT05	08NOV05	SD3380											
SD3380A	D7-Down - Cast 9 seg Type B	18	28FEB06	18MAR06	20OCT05	08NOV05	SD3380A											
SD3370	D8-Up - Cast 15 Segments Type B	25	28FEB06	27MAR06	27OCT05	23NOV05	SD3370											
SD3370A	D8-Down - Cast 15 Segments Type B	25	03MAR06	30MAR06	25OCT05	21NOV05	SD3370A											

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Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish	2006																
							JAN			FEB			MAR			APR							
							16	23	30	6	13	20	27	6	13	20	27	3	10	17	24		
NB2020	Noise Barriers - PA to P4 - Materials Purchasing	95	20FEB06	12JUN06	28FEB06	21JUN06																	
NB2100	Noise Barriers - P5 to P8 - Design & Shop Dwgs.	147	05SEP05A	23JAN06	05SEP05A	23JAN06																	
NB2110	Noise Barriers - P5 to P8 - Eng. Review & Appro'	115	20JAN06	14MAY06	20JAN06	14MAY06																	
NB2120	Noise Barriers - P5 to P8 - Materials Purchasing	163	13FEB06	26AUG06	13FEB06	26AUG06																	
NB2200	Noise Barriers - P11 to P13 - Design & Shop Dwgs	82	20JUL05A	23JAN06	20JUL05A	13FEB06																	
NB2210	Noise Barriers - P11 to P13 -Eng Review & Approv	44	20JAN06	04MAR06	10FEB06	25MAR06																	
NB2220	Noise Barriers - P11 to P13 - Materials Purchase	82	21FEB06	29MAY06	14MAR06	19JUN06																	
NB2300	Noise Barriers - ENT Approach -Des'n & Shop Dwgs	82	24AUG05A	07FEB06	24AUG05A	07MAR06																	
NB2310	Noise Barriers - ENT Approach -Eng Rev & Approv	28	20JAN06	16FEB06	21FEB06	20MAR06																	
NB2320	Noise Barriers - ENT Approach -Material Purchase	70	17FEB06	11MAY06	21MAR06	12JUN06																	
NB2400	Noise Barriers - Slip Rd. C - Design & Shop Dwgs	82	20JAN06*	01APR06	09DEC05	21FEB06																	
NB2410	Noise Barriers - Slip Rd. C - Eng Rev & Approv	28	05MAR06	01APR06	25JAN06	21FEB06																	
NB2420	Noise Barriers - Slip Rd. C - Material Purchase	70	04APR06	26JUN06	22FEB06	16MAY06																	
NB2500	Noise Barriers - Slip Rd. D - Design & Shop Dwgs	82	11JUL05A	23JAN06	11JUL05A	28FEB06																	
NB2510	Noise Barriers - Slip Rd. D - Eng Rev & Approv	28	20JAN06	16FEB06	26FEB06	25MAR06																	
NB2520	Noise Barriers - Slip Rd. D - Material Purchase	105	21FEB06	26JUN06	30MAR06	04AUG06																	
Movement Joints																							
MJ1005	Engineer's approval of Proprietary Type of M.J	0	20JAN06		21JAN06																		
MJ1010	Detailed Design & Shop Drawings	75	20JAN06	21APR06	21JAN06	22APR06																	
Signage																							
SG1020	Sign Gantries - Review/Appro of Design & S/Dwgs.	24	28FEB06	27MAR06	09AUG05	05SEP05																	
SG1030	Sign Gantries - Off-Site Fabrication of Gantries	75	28MAR06	26JUN06	06SEP05	05DEC05																	
SG2000	Signage - Award of Sub-contract	0	20JAN06		18FEB05																		
SG2010	Signage - Shop Drawings	50	20JAN06	22MAR06	18FEB05	18APR05																	
SG2020	Signage - Review & Approval of Shop Drawings.	24	23MAR06	20APR06	19APR05	17MAY05																	
High Mast Lighting																							
HM1010	High Mast Lighting - Approval of Found'n Design	24	28FEB06	27MAR06	04NOV05	01DEC05																	
HM1100	High Mast Lighting - Mast Design & Shop Drawings	48	20JAN06	20MAR06	15JUL05	08SEP05																	
HM1110	High Mast Lighting - Approval of Mast Design	56	21MAR06	15MAY06	09SEP05	03NOV05																	
Viaduct - Main Line - Piers PA to P6																							
Substructure																							
MS0100	PA/L - Install Bearings	6	20JAN06	26JAN06	06JUN05	13JUN05																	
MS0110	PA/R - Install Bearings	6	27JAN06	06FEB06	26JUL05	01AUG05																	

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							JAN			FEB			MAR			APR					
							16	23	30	6	13	20	27	6	13	20	27	3	10	17	24
MS1112	P1/R - Temporary Props for Spans - Founds	4	20JAN06	24JAN06	15JUL05	19JUL05	■ MS1112														
MS1114	P1/R - Temporary Props for Spans - Towers	4	25JAN06	28JAN06	20JUL05	23JUL05	■ MS1114														
MS1116	P1/R - Remove Temporary Props for Spans - Towers	4	02MAR06	06MAR06	25SEP08	29SEP08	□ MS1116														
MS1118	P1/R - Remove Temporary Props for Spans - Towers	4	07MAR06	10MAR06	30SEP08	04OCT08	□ MS1118														
Main Line - Segmental Deck Construction (Crane)																					
MD1130	PA/L - 9 Segments Type B on Scaffold	6	20FEB06	25FEB06	14JUN05	20JUN05	■ MD1130														
MD1135	PA/L to P1/L - Insitu Stitch	3	27FEB06	01MAR06	21JUN05	23JUN05	■ MD1135														
MD1020	P4/R - 1st. Pair - 2 Segments Type C	6	20JAN06	26JAN06	22JUN05	28JUN05	■ MD1020														
MD1010	P5/R - 1st. Pair - 1 Type C & 1 Type B	6	27JAN06	06FEB06	29JUN05	06JUL05	■ MD1010														
MD1000	P5 (B4) Slip B - 1st. Pair - 2 Segments Type B	6	07FEB06	13FEB06	07JUL05	13JUL05	■ MD1000														
MD1055	P1/R - 30 Segments Type C	15	20JAN06	09FEB06	15JUL05	01AUG05	■ MD1055														
MD1060	PA/R - 9 Segments Type C on Scaffold	6	20FEB06	25FEB06	02AUG05	08AUG05	■ MD1060														
MD1062	PA/R to P1/R - Insitu Stitch	3	27FEB06	01MAR06	13AUG05	16AUG05	■ MD1062														
Main Line - Segmental Deck Const'n (Lift Frames)																					
MD1065	P1/R to P2/R - Insitu Stitch	3	10FEB06	13FEB06	14SEP05	16SEP05	■ MD1065														
MD1036	P2/R to P3/R - Insitu Stitch	3	20JAN06	23JAN06	23MAR05	25MAR05	■ MD1036														
MD1025	P4/R - 28 Segments Type C	12	27JAN06	13FEB06	31AUG05	13SEP05	■ MD1025														
MD1034	P3/R to P4/R) - Insitu Stitch	3	14FEB06	16FEB06	14SEP05	16SEP05	■ MD1034														
MD1005	P5 (B4) Slip B - 22 Segments Type B	10	14FEB06	24FEB06	14JUL05	25JUL05	■ MD1005														
MD1007	P5/R (B4) Slip B to P6 Slip B - Insitu Stitch	3	25FEB06	28FEB06	26JUL05	28JUL05	■ MD1007														
MD1008	P5/R (B4) Slip B to B3 - Insitu Stitch	3	01MAR06	03MAR06	29JUL05	01AUG05	■ MD1008														
MD1015	P5/R - 11 Type C & 11 Type B	10	25FEB06	08MAR06	23SEP05	05OCT05	■ MD1015														
MD1017	P5/R to P6/R - Insitu Stitch	3	09MAR06	11MAR06	06OCT05	08OCT05	■ MD1017														
MD1033	P4/R to P5/R - Insitu Stitch	3	13MAR06	15MAR06	29OCT05	01NOV05	■ MD1033														
Superstructure Finishing Works Required for TCSS																					
MF1000	PA to P6 - Parapets PA/L to P3/L (incl earthing)	48	02MAR06	27APR06	24JUN05	19AUG05	■ MF1000														
MF1015	PA to P6 - Insitu Slab to Under Median Barrier	36	18FEB06	31MAR06	22OCT05	02DEC05	■ MF1015														
MF1017	PA to P6 - Median Barrier (incl earthing)	36	11MAR06	22APR06	12NOV05	23DEC05	■ MF1017														
Viaduct - Slip Road A																					
Substructure																					
AS1050	Abutment A - Install Bearings	2	20JAN06	21JAN06	21JAN06	23JAN06	□ AS1050														

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							JAN			FEB			MAR			APR		
							16	23	30	6	13	20	27	6	13	20	27	3
Viaduct - Slip Road B																		
Main Line - Segmental Deck Const'n (Lift Frames)																		
BD1035	B3 - 28 seg Type B	12	14JAN06A	24JAN06	14JAN06A	13JUL05	BD1035											
BD1045	B2 - B3 Insitu Stitch	3	25JAN06	27JAN06	05AUG05	08AUG05	BD1045											
Superstructure Finishing Works Required for TCSS																		
BF1010	Slip Rd.B to P7 - Parapets East Face (incl earth)	75	05APR06	04JUL06	09AUG05	07NOV05										BF1010		
At Grade Works - Lai Po Road																		
Temporary Traffic Management Schemes																		
WT3100	3rd. TTMS Lai Po Road - Prepare for Review	18	20JAN06	13FEB06	23APR05	14MAY05	WT3100											
WT3110	3rd. TTMS Lai Po Road - CRE Endorsement	6	21FEB06	27FEB06	25JUN05	02JUL05	WT3110											
WT3120	3rd. TTMS Lai Po Road - Roadworks Advice	6	28FEB06	06MAR06	04JUL05	09JUL05	WT3120											
WT3130	3rd. TTMS Lai Po Rd - Site Preparation for Divsn	18	07MAR06	27MAR06	11JUL05	30JUL05	WT3130											
WT4010	TTMS Deck Erect'n @ Rd D S/B - CRE Endorsement	6	20JAN06	26JAN06	12SEP08	18SEP08	WT4010											
WT4020	TTMS Deck Erect'n @ Rd D S/B - Roadworks Advice	6	27JAN06	06FEB06	19SEP08	26SEP08	WT4020											
WT4030	TTMS Deck Erect'n @ Rd D S/B - Site Preparation	6	07FEB06	13FEB06	27SEP08	04OCT08	WT4030											
WT4040	TTMS Deck Erect'n @ Rd D S/B - Implementation	38*	20JAN06	08MAR06	22JUN05	05OCT05	WT4040											
Earthworks & Slope Works																		
WE1030	Lai Po Road S/B - Remove Segment Storage Area	6	20JAN06	26JAN06	27OCT05	02NOV05	WE1030											
WE2000	Lai Po Road S/B - Fill to Embankment	24	07MAR06	04APR06	26MAR05	23APR05	WE2000											
Retaining Wall LCK-R2																		
WW2020	Ret. Wall LCK-R2 - Walls	42	20JAN06	13MAR06	12FEB05	01APR05	WW2020											
Drainage Works																		
WA2100	Lai Po Road S/B -Ramp @ Slip Rd B Storm Drainage	18	28MAR06	18APR06	16JUN05	07JUL05	WA2100											
WA2200	Lai Po Road S/B - Stormwater Drainage	36	28MAR06	10MAY06	18APR05	30MAY05	WA2200											
Utilities & Roadworks																		
WR2000	Lai Po Road S/B @ Ramp to Slip Rd B - Formation	6	19APR06	25APR06	08JUL05	14JUL05	WR2000											
WR3000	High Mast Lighting (3 No. Mast) - Foundations	36	05APR06	17MAY06	02DEC05	14JAN06	WR3000											
Kiosk at Lai Wan Interchange																		
WK1000	Kiosk at Lai Wan Interchange - Structure	48	02MAR06	27APR06	17AUG05	14OCT05	WK1000											
Lai Po Road Fire Hydrant Pump House																		
WH1000	Lai Po Rd. F/H Pump House - Plate Load Test	6	27JAN06	06FEB06	22JUL06	28JUL06	WH1000											
WH1010	Lai Po Rd. F/H Pump House - Structure	24	07MAR06	04APR06	31JUL06	26AUG06	WH1010											

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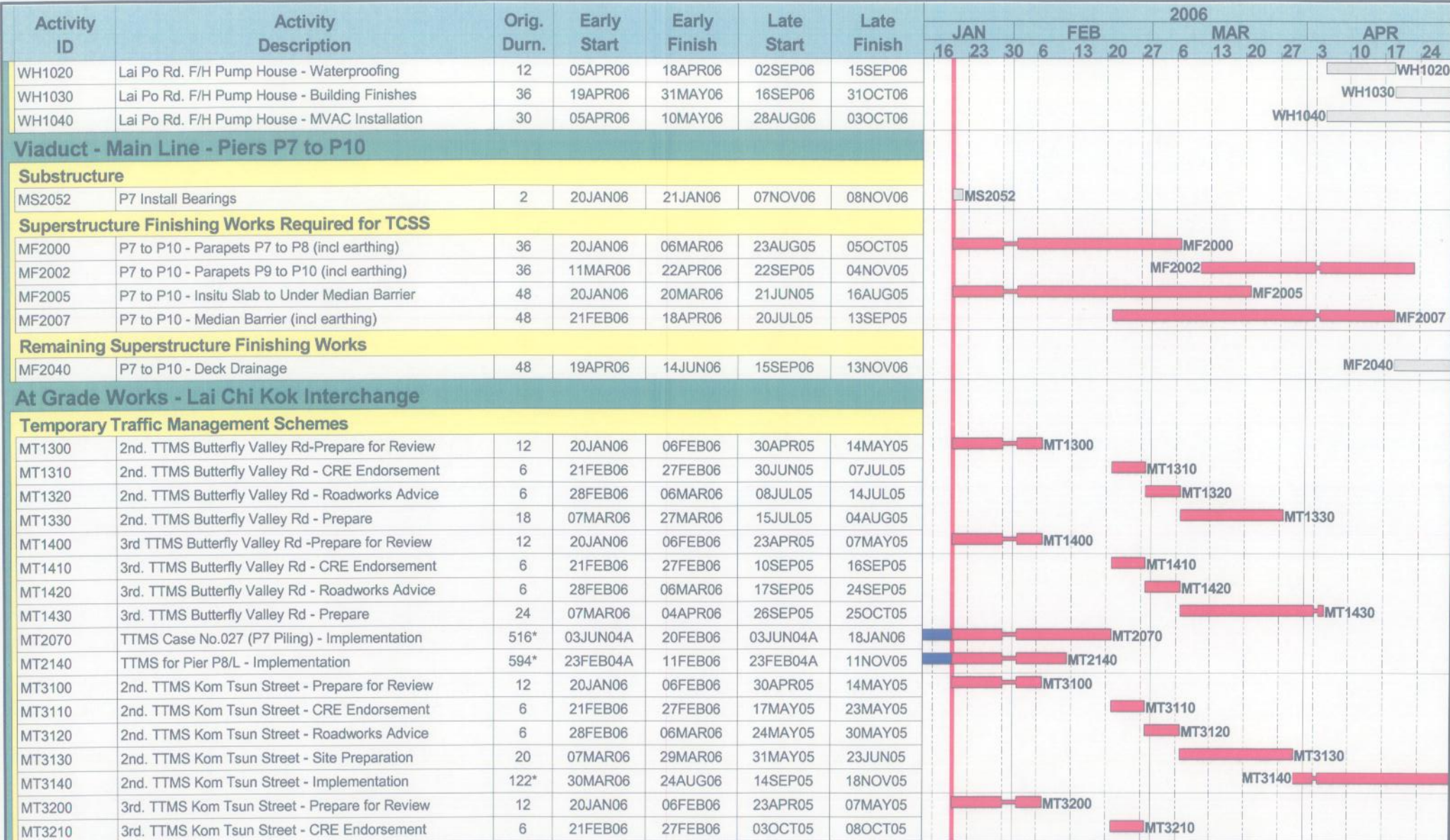
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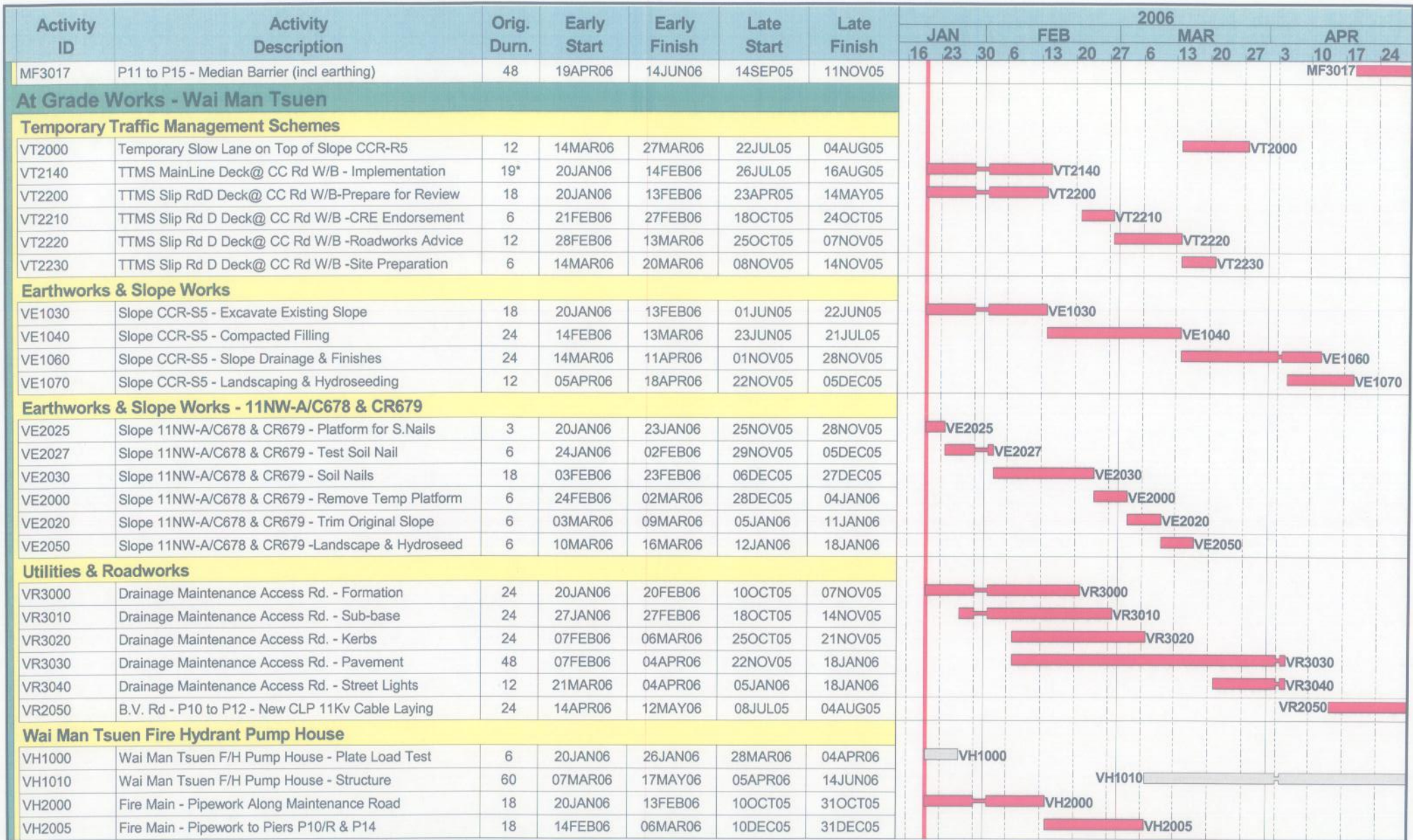


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							JAN			FEB			MAR			APR		
							16	23	30	6	13	20	27	6	13	20	27	3
VH2010	Fire Main - Valves & Connections	18	07MAR06	27MAR06	03JAN06	23JAN06	VH2010											
Landscape Works																		
VX1000	Landscaping - Earthworks & Formation	24	05APR06	03MAY06	22NOV05	19DEC05	VX1000											
Viaduct - Main Line - Piers P16 to P18																		
Substructure																		
MS4055	P16/L - Install Bearings	6	20JAN06	26JAN06	12SEP05	17SEP05	MS4055											
MS4115	P16/R - Install Bearings	6	20JAN06	26JAN06	12SEP05	17SEP05	MS4115											
MS4225	P17/L & P17/R - Cure & Strike Form/Falsework	24	21DEC05A	21JAN06	21DEC05A	20JUN05	MS4225											
Main Line - Segmental Deck Construction (Crane)																		
MD4095	P18 Slip D - 22 Segments Type B	11	20JAN06	04FEB06	30AUG05	10SEP05	MD4095											
MD4030	P17 Slip C - 1st. Pair - 2 Segments Type B	6	04FEB06	10FEB06	15OCT05	21OCT05	MD4030											
MD4035	P17 Slip C - 16 Segments Type B	7	11FEB06	18FEB06	22OCT05	29OCT05	MD4035											
MD4040	C6 Slip C - 3 Segments Type B	2	27MAR06	28MAR06	28NOV05	29NOV05	MD4040											
Main Line - Segmental Deck Const'n (Lift Frames)																		
MD4085	P18/R - 20 Segments Type A	10	06JAN06A	20JAN06	06JAN06A	29OCT05	MD4085											
MD4115A	P18 Slip C - 2nd-4th. Pairs -6 Segments Type B	3	20JAN06	23JAN06	03OCT05	05OCT05	MD4115A											
MD4115	P18 Slip C - 5th-14th Pairs - 20 Segments Type B	7	24JAN06	03FEB06	06OCT05	14OCT05	MD4115											
Main Line - Segmental Deck Construction (Gantry)																		
MD4010	P16 - 1st. Pair - 2 Segments Type A	6	27JAN06	06FEB06	20SEP05	26SEP05	MD4010											
MD4015	P16 - 18 Segments Type A	6	22FEB06	28FEB06	27SEP05	04OCT05	MD4015											
MD4017	P15/L&R to P16/L&R - Insitu Stitches	2	01MAR06	02MAR06	05OCT05	06OCT05	MD4017											
MD4050	P17/L - 1st. Pair - 2 Segments Type A	6	17FEB06	23FEB06	22SEP05	28SEP05	MD4050											
MD4060	P17/R - 1st. Pair - 2 Segments Type A	6	18FEB06	24FEB06	23SEP05	29SEP05	MD4060											
MD4055	P17/L - 16 Segments Type A	12	03MAR06	16MAR06	07OCT05	21OCT05	MD4055											
MD4065	P17/R - 22 Segments Type A	12	03MAR06	16MAR06	14OCT05	27OCT05	MD4065											
MD4056	P17/L&R to P18/L&R - Insitu Stitches	3	17MAR06	20MAR06	31OCT05	02NOV05	MD4056											
MD4057	P16/L to P17/L - Insitu Stitch	3	17MAR06	20MAR06	09NOV05	11NOV05	MD4057											
MD4067	P16/R to P17/R - Insitu Stitch	3	17MAR06	20MAR06	09NOV05	11NOV05	MD4067											
MD4018	Delivery of Segments at P17 Slip C	5	17MAR06	22MAR06	28OCT05	02NOV05	MD4018											
MD4019	Gantry Modifications	0	23MAR06	22MAR06	03NOV05	02NOV05	MD4019											
MD4019A	CLP SHUT DOWN POWER - O/HEAD LINES NORTH &	0	20JAN06*		03NOV05		MD4019A											
MD4020	Launch Gantry to P16/P17/P18 UNDER CLP O/H LINES	2	23MAR06	24MAR06	03NOV05	04NOV05	MD4020											

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							JAN			FEB			MAR			APR								
							16	23	30	6	13	20	27	6	13	20	27	3	10	17	24			
Superstructure Finishing Works Required for TCSS																								
MF4005	P16 to P18 - Insitu Slab to Under Median Barrier	36	17MAR06	28APR06	22OCT05	02DEC05																		
MF4007	P16 to P18 - Median Barrier (incl earthing)	36	15APR06	27MAY06	19NOV05	31DEC05																		
Viaduct - Main Line - Piers 19 to Abutment M																								
Substructure																								
MS5095	P20 - 3rd. Site Access from ENT Contractor	0	20JAN06*		05OCT08		◆	MS5095																
MS5115	P20 - Pier Head - Cure & Strip Falsework	24	06MAR06	01APR06	09DEC05	07JAN06																		
MS5165	P21 - Pier Hammer Head	18	20JAN06	13FEB06	08OCT05	29OCT05																		
MS5170	P21 - Pier Insitu Deck Segment	42	14FEB06	04APR06	31OCT05	17DEC05																		
MS5175	P21 - Pier Head - Cure & Strip Falsework	30	05APR06	10MAY06	19DEC05	24JAN06																		
MS5225	Abutment M - Slope Reinstatement	12	20JAN06	06FEB06	20FEB06	04MAR06																		
MS5230	Abutment M - Install Bearings	6	22MAR06	28MAR06	06MAR06	11MAR06																		
Main Line - Segmental Deck Construction (Crane)																								
MD5010	P19 Slip C - 1st. Pair - 2 Segments Type B	6	20FEB06	25FEB06	03JAN06	09JAN06																		
MD5020	P19/L - 1st. Pair - 2 Segments Type A	6	28FEB06	06MAR06	06JAN06	12JAN06																		
MD5030	P19/R - 1st. Pair - 2 Segments Type A	6	28FEB06	06MAR06	06JAN06	12JAN06																		
MD5040	P19 Slip D - 1st. Pair - 2 Segments Type B	6	27FEB06	04MAR06	06JAN06	12JAN06																		
Main Line - Segmental Deck Construction (Gantry)																								
MD4025	Launch Gantry to P17/P18/P19 UNDER CLP O/H LINES	1	25MAR06	25MAR06	14NOV05	14NOV05																		
MD5000	Launch Gantry to P18/P19/P20 UNDER CLP O/H LINES	1	04APR06	04APR06	09JAN06	09JAN06																		
MD4107	CLP RESUME POWER - O/HEAD LINES NORTH &	0		22MAR06		09JAN06*																		
MD5015	P19 Slip C - 18 Segments Type B	8	07APR06	15APR06	12JAN06	20JAN06																		
MD5022	P19/L - 16 Segments Type A	8	08APR06	17APR06	13JAN06	21JAN06																		
MD5035	P19/R - 18 Segments Type A	8	08APR06	17APR06	13JAN06	21JAN06																		
MD5045	P19 Slip D - 14 Segments Type B	8	07APR06	15APR06	13JAN06	21JAN06																		
MD5055	P19/L&R to P18/L&R - Insitu Stitches	2	18APR06	19APR06	23JAN06	24JAN06																		
MD5060	P20 Slip D - 1st. Pair - 2 Segments Type B	6	07APR06	13APR06	21JAN06	27JAN06																		
MD5070	P20/R - 1st. Pair - 2 Segments Type A	6	05APR06	11APR06	10JAN06	16JAN06																		
MD5080	P20/L - 1st. Pair - 2 Segments Type A	6	05APR06	11APR06	20JAN06	26JAN06																		
MD5090	P20 Slip C - 1st. Pair - 2 Segments Type A	6	10APR06	15APR06	23JAN06	28JAN06																		

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Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish	2006														
							JAN			FEB			MAR			APR					
							16	23	30	6	13	20	27	6	13	20	27	3	10	17	24
At Grade Works - Butterfly Valley																					
Temporary Traffic Management Schemes																					
QT2010	TTMS MainLine Deck@ CC Rd E/B - CRE Endorsement	6	20JAN06	26JAN06	27JUL05	02AUG05	QT2010														
QT2020	TTMS MainLine Deck@ CC Rd E/B - Roadworks Advice	6	27JAN06	06FEB06	03AUG05	09AUG05	QT2020														
QT2030	TTMS MainLine Deck@ CC Rd E/B - Site Preparation	6	07FEB06	13FEB06	10AUG05	16AUG05	QT2030														
QT2040	TTMS MainLine Deck@ CC Rd E/B - Implementation	14*	15FEB06	02MAR06	17AUG05	06OCT05	QT2040														
QT2100	TTMS Slip RdD Deck@ CC Rd E/B-Prepare for Review	18	20JAN06	13FEB06	12SEP08	04OCT08	QT2100														
QT2110	TTMS Slip Rd D Deck@ CC Rd E/B - CRE Endorsement	6	21FEB06	27FEB06	17AUG05	23AUG05	QT2110														
QT2120	TTMS Slip RdD Deck@ CC Rd E/B - Roadworks Advice	12	28FEB06	13MAR06	24AUG05	06SEP05	QT2120														
QT2130	TTMS Slip RdD Deck@ CC Rd E/B - Site Preparation	6	16MAR06	22MAR06	09SEP05	15SEP05	QT2130														
Earthworks & Slope Works - 11NW-A/FR54 & F55																					
QE2000	Slope 11NW-A/FR54 & FR55 - Remove Temp. Platform	18	23JAN06	15FEB06	21JUN05	12JUL05	QE2000														
QE2002	Slope 11NW-A/FR54 & FR55 - Retaining Wall -Bases	36	16FEB06	29MAR06	13JUL05	23AUG05	QE2002														
QE2004	Slope 11NW-A/FR54 & FR55 - Retaining Wall -Walls	48	16MAR06	12MAY06	10AUG05	06OCT05	QE2004														
QE2010	Slope 11NW-A/FR54 & FR55 - Install Temp Works	48	07MAR06	03MAY06	20JUL05	13SEP05	QE2010														
Utilities & Roadworks																					
QR1060	WSD Access Road - Permanent C/Way P18 to P19	36	20JAN06	06MAR06	10OCT05	21NOV05	QR1060														
QR1070	WSD Access Road - Make Good Existing C/Way	24	07MAR06	04APR06	22NOV05	19DEC05	QR1070														
QR2000	WSD Access Road - New CLP 11Kv Cable Laying	36	14APR06	26MAY06	29JUL05	08SEP05	QR2000														
Landscape Works																					
QX1010	Landscaping - Footpath Paving	24	05APR06	03MAY06	20DEC05	18JAN06	QX1010														
QX1020	Landscaping - Soiling & Planting on Slope CCR-S6	75	20JAN06*	21APR06	21OCT05	18JAN06	QX1020														
Viaduct - Slip Road C																					
Substructure																					
CS1150	Abutment C - Install Bearings	6	22MAR06	28MAR06	27SEP08	04OCT08	CS1150														
CS1445	C5/L - C5/R Portal - Cure & Strike Form/Falsewk	14	19JAN06A	03FEB06	19JAN06A	21JUL05	CS1445														
CS1447	C5/L - C5/R Portal - Install Bearings	6	04FEB06	10FEB06	22JUL05	28JUL05	CS1447														
CS1555	C6/R & C6/L - Install Bearings on Portal Frame	4	22MAR06	25MAR06	12SEP05	15SEP05	CS1555														
Slip Road C - Insitu Deck Construction																					
CD1026	Slip Rd. C - Deck Span Abut.C to C2 - 1st. Pour	24	07JAN06A	27JAN06	07JAN06A	09SEP05	CD1026														
CD1028	Slip Rd. C - Deck Span Abut.C to C2 - 2nd. Pour	24	28JAN06	28FEB06	10SEP05	10OCT05	CD1028														
CD1029	Slip Rd. C - Deck Span Abut.C to C3 - Stressing	6	01MAR06	07MAR06	12OCT05	18OCT05	CD1029														

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							JAN			FEB			MAR			APR				
							16	23	30	6	13	20	6	13	20	27	3	10	17	24
CD1030	Slip Rd. C - Deck Span C3 to C4 - Ground Prep.	12	20JAN06	06FEB06	23JUL05	05AUG05	CD1030													
CD1032	Slip Rd. C - Deck Span C3 to C4 - Falsework	18	27JAN06	20FEB06	30JUL05	19AUG05	CD1032													
CD1034	Slip Rd. C - Deck Span C3 to C4 - Soffit	24	14FEB06	13MAR06	13AUG05	09SEP05	CD1034													
CD1036	Slip Rd. C - Deck Span C3 to C4 - 1st. Pour	24	07MAR06	04APR06	03SEP05	03OCT05	CD1036													
CD1038	Slip Rd. C - Deck Span C3 to C4 - 2nd. Pour	24	05APR06	03MAY06	04OCT05	01NOV05	CD1038													
CD1040	Slip Rd. C - Deck Span C4 to C5 - Ground Prep.	12	25JAN06	10FEB06	15JUL05	28JUL05	CD1040													
CD1042	Slip Rd. C - Deck Span C4 to C5 - Falsework	12	04FEB06	17FEB06	22JUL05	04AUG05	CD1042													
CD1044	Slip Rd. C - Deck Span C4 to C5 - Soffit	18	11FEB06	03MAR06	29JUL05	18AUG05	CD1044													
CD1046	Slip Rd. C - Deck Span C4 to C5 - 1st. Pour	24	25FEB06	24MAR06	12AUG05	08SEP05	CD1046													
CD1048	Slip Rd. C - Deck Span C4 to C5 - 2nd. Pour	24	25MAR06	22APR06	09SEP05	08OCT05	CD1048													
CD1050	Slip Rd. C - Deck Span C5 to C6 - Ground Prep.	12	11FEB06	24FEB06	12AUG05	25AUG05	CD1050													
CD1052	Slip Rd. C - Deck Span C5 to C6 - Falsework	18	18FEB06	10MAR06	19AUG05	08SEP05	CD1052													
CD1054	Slip Rd. C - Deck Span C5 to C6 - Soffit	24	20MAR06	17APR06	09SEP05	08OCT05	CD1054													
CD1056	Slip Rd. C - Deck Span C5 to C6 - 1st. Pour	24	17APR06	15MAY06	03OCT05	31OCT05	CD1056													
Superstructure Finishing Works Required for TCSS																				
CF1000	Slip Rd. C - Parapets - Abut. C to C2 + earthing	48	09MAR06	05MAY06	29OCT05	23DEC05	CF1000													
CF1010	Slip Rd. C - Parapets C2 to C4 (incl earthing)	36	19APR06	31MAY06	19OCT05	29NOV05	CF1010													
Viaduct - Slip Road D																				
Substructure																				
DS1045	Abutment D - Install Bearings	6	22MAR06	28MAR06	03NOV05	09NOV05	DS1045													
DS1115	D1 - Install Bearings	6	22MAR06	28MAR06	13OCT05	19OCT05	DS1115													
DS1175	D2 - Install Bearings	6	22MAR06	28MAR06	30SEP05	07OCT05	DS1175													
DS1295	D4 - Install Bearings	6	20JAN06	26JAN06	15AUG05	20AUG05	DS1295													
DS1355	D5 - Install Bearings	6	20JAN06	26JAN06	08AUG05	13AUG05	DS1355													
DS1415	D6 - Install Bearings	6	22MAR06*	28MAR06	18OCT05	24OCT05	DS1415													
DS1530	D8 - Pier Head	24	17FEB06	16MAR06	19AUG05	15SEP05	DS1530													
DS1530A	D8 - Pier Head - Insitu Segment	36	17MAR06	28APR06	16SEP05	31OCT05	DS1530A													
DS1592	D9 - Install Bearings	6	22MAR06	28MAR06	09SEP05	15SEP05	DS1592													
DS1655	D10 - Install Bearings	6	22MAR06	28MAR06	02SEP05	08SEP05	DS1655													
Slip Road D - Segmental Deck Const'n (Crane)																				
DD1015	D10 - 22 seg Type B	10	25FEB06	08MAR06	12SEP05	23SEP05	DD1015													
DD1025	D10 to P18 - Insitu Stitch	2	09MAR06	10MAR06	08DEC05	09DEC05	DD1025													
DD1110	D5 - Pierhead Segment - 1 Segment Type B	6	27JAN06*	06FEB06	15AUG05	20AUG05	DD1110													

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							JAN			FEB			MAR			APR					
							16	23	30	6	13	20	27	6	13	20	27	3	10	17	24
DD1115	D5 - 28 seg Type B	7	14FEB06	21FEB06	25OCT05	01NOV05	DD1115														
DD1130	D4 - Pierhead Segment - 1 Segment Type B	6	07FEB06	13FEB06	22AUG05	27AUG05	DD1130														
DD1135	D4 - 28 Segments Type B	7	17FEB06	24FEB06	01SEP05	08SEP05	DD1135														
DD1137	D4 to D5 - Insitu Stitch	3	25FEB06	28FEB06	02NOV05	04NOV05	DD1137														
Slip Road D - Segmntal Deck Const'n (L/Frames)																					
DD1090	D6 - Pierhead Segments - 2 Segments Type B	6	29MAR06	05APR06	25OCT05	31OCT05	DD1090														
DD1095	D6 - 16 seg Type B	7	10APR06	17APR06	04NOV05	11NOV05	DD1095														
DD1117	D5-D6 Insitu Stitch	2	18APR06	19APR06	01DEC05	02DEC05	DD1117														
DD1070	D7 - 1st. pair - 2 seg Type B	6	06APR06	12APR06	05NOV05	11NOV05	DD1070														
DD1075	D7 - 16 seg Type B	8	18APR06	26APR06	12NOV05	21NOV05	DD1075														
Lai Wan Road Overpass																					
Temporary Traffic Management Schemes																					
LT2120	TTMS LW Rd (for W/B Deck) - Roadworks Advice	6	20JAN06	25JAN06	21SEP08	26SEP08	LT2120														
LT2130	TTMS LW Rd (for W/B Deck) - Site Preparation	6	26JAN06	04FEB06	27SEP08	04OCT08	LT2130														
LT2200	TTMS LW Rd (for E/B Deck) - Prepare for Review	12	20JAN06	06FEB06	23APR05	07MAY05	LT2200														
LT2210	TTMS LW Rd (for E/B Deck) - CRE Endorsement	6	21FEB06	26FEB06	15SEP08	20SEP08	LT2210														
LT2220	TTMS LW Rd (for E/B Deck) - Roadworks Advice	6	27FEB06	04MAR06	21SEP08	26SEP08	LT2220														
LT2230	TTMS LW Rd (for E/B Deck) - Site Preparation	6	06MAR06	11MAR06	27SEP08	04OCT08	LT2230														
LT3000	TTMS CC Rd (on W/B Deck) - Prepare for Review	12	20JAN06	06FEB06	23APR05	07MAY05	LT3000														
LT3010	TTMS CC Rd (on W/B Deck) - CRE Endorsement	6	21FEB06	26FEB06	24OCT05	29OCT05	LT3010														
LT3020	TTMS CC Rd (on W/B Deck) - Roadworks Advice	6	27FEB06	04MAR06	30OCT05	04NOV05	LT3020														
LT3030	TTMS CC Rd (on W/B Deck) - Site Preparation	6	06MAR06	11MAR06	05NOV05	11NOV05	LT3030														
LT3100	TTMS CC Rd (on E/B Deck) - Prepare for Review	12	20JAN06	06FEB06	23APR05	07MAY05	LT3100														
LT3110	TTMS CC Rd (on E/B Deck) - CRE Endorsement	6	21FEB06	26FEB06	16JUL06	21JUL06	LT3110														
LT3120	TTMS CC Rd (on E/B Deck) - Roadworks Advice	6	27FEB06	04MAR06	22JUL06	27JUL06	LT3120														
LT3200	TTMS CC Rd (on Both Decks) - Prepare for Review	12	21MAR06	04APR06	06DEC05	19DEC05	LT3200														
LT3210	TTMS CC Rd (on Both Decks) - CRE Endorsement	6	18APR06	23APR06	04AUG06	09AUG06	LT3210														
LT3300	TTMS CC Rd (on Both Decks) - Prepare for Review	12	18APR06	02MAY06	11JAN06	24JAN06	LT3300														
West Bound - Substructure																					
LS1235	D13 - Install Bearings	3	20JAN06	23JAN06	10SEP05	13SEP05	LS1235														
LS1270	D14 - Backfill & Remove Temporary Works	3	14DEC05A	20JAN06	14DEC05A	04OCT08	LS1270														
LS1285	D14 - Install Bearings	6	20JAN06	26JAN06	07SEP05	13SEP05	LS1285														
LS1286	Abutment DA2 - Remove Existig Rockfall Fence	3	20JAN06	23JAN06	16MAY05	18MAY05	LS1286														

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							JAN			FEB			MAR			APR							
							16	23	30	6	13	20	27	6	13	20	27	3	10	17	24		
LS1287	Abutment DA2 - Remove Existing Footpath	6	24JAN06	02FEB06	19MAY05	25MAY05																	
LS1288	Abutment DA2 - Re-instate Rockfall Fence	3	03FEB06	06FEB06	26MAY05	28MAY05																	
LS1290	Abutment DA2 - Utility Trial Trenches	3	03FEB06	06FEB06	26MAY05	28MAY05																	
LS1310	Abutment DA2 - Excavation in Rock for Footing	24	07FEB06	06MAR06	30MAY05	27JUN05																	
LS1320	Abutment DA2 - Mass Concrete Fill Under Footing	12	07MAR06	20MAR06	28JUN05	12JUL05																	
LS1330	Abutment DA2 - Footing	18	21MAR06	11APR06	13JUL05	02AUG05																	
LS1340	Abutment DA2 - Bearing Shelf & Walls	24	12APR06	10MAY06	03AUG05	30AUG05																	
East Bound - Substructure																							
LS2205	C13 - Install Bearings	6	20JAN06	26JAN06	10AUG05	16AUG05																	
LS2220	C14 - Excavate for Footing	12	23FEB06	08MAR06	06JUL05	19JUL05																	
LS2230	C14 - Footing & Pier Kicker	12	09MAR06	22MAR06	20JUL05	02AUG05																	
LS2240	C14 - Backfill & Remove Temporary Works	4	23MAR06	27MAR06	03AUG05	06AUG05																	
LS2250	C14 - Pier (incl. Pier Head)	18	28MAR06	18APR06	08AUG05	27AUG05																	
LS2255	C14 - Install Bearings	2	19APR06	20APR06	29AUG05	30AUG05																	
LS2260	Abutment CA2 - Excavation in Rock for Footing	12	23FEB06	08MAR06	16JUL05	29JUL05																	
LS2270	Abutment CA2 - Footing	12	09MAR06	22MAR06	30JUL05	12AUG05																	
LS2280	Abutment CA2 - Bearing Shelf & Walls	24	23MAR06	20APR06	13AUG05	09SEP05																	
West Bound - Insitu Deck																							
LD1019	Lai Wan O/pass W/B - Span St. 2 - Stressing	6	20JAN06	26JAN06	05NOV05	11NOV05																	
LD1040	Lai Wan O/pass W/B - Demolish F/p for Stage 3	24	20JAN06	20FEB06	03AUG05	30AUG05																	
East Bound - Insitu Deck																							
LD2052	Lai Wan O/Pass E/B - Span St.3 - Falsework	18	30NOV05A	02FEB06	30NOV05A	23AUG05																	
LD2054	Lai Wan O/Pass E/B - Span St.3 - Soffit	24	07APR06	05MAY06	17AUG05	13SEP05																	
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	20JAN06	06FEB06	23APR05	07MAY05																	
NT2060	2nd. TTMS CC Rd (E/B C/Way) - CRE Endorsement	6	21FEB06	26FEB06	19OCT06	24OCT06																	
NT2070	2nd. TTMS CC Rd (E/B C/Way) - Roadworks Advice	6	27FEB06	04MAR06	25OCT06	30OCT06																	
NT2080	2nd. TTMS CC Rd (E/B C/Way) - Site Preparation	6	06MAR06	11MAR06	31OCT06	06NOV06																	
NT2100	3rd. TTMS CC Rd (E/B C/Way) - Prepare for Review	12	21MAR06	04APR06	06DEC05	19DEC05																	
NT2110	3rd. TTMS CC Rd (E/B C/Way) - CRE Endorsement	6	18APR06	23APR06	20JUL06	25JUL06																	
Retaining Wall CCR-R1 West Bound																							
NW1120	W/B Ret. Wall CCR-R1B - Excavate	15	07NOV05A	23JAN06	07NOV05A	18SEP08																	

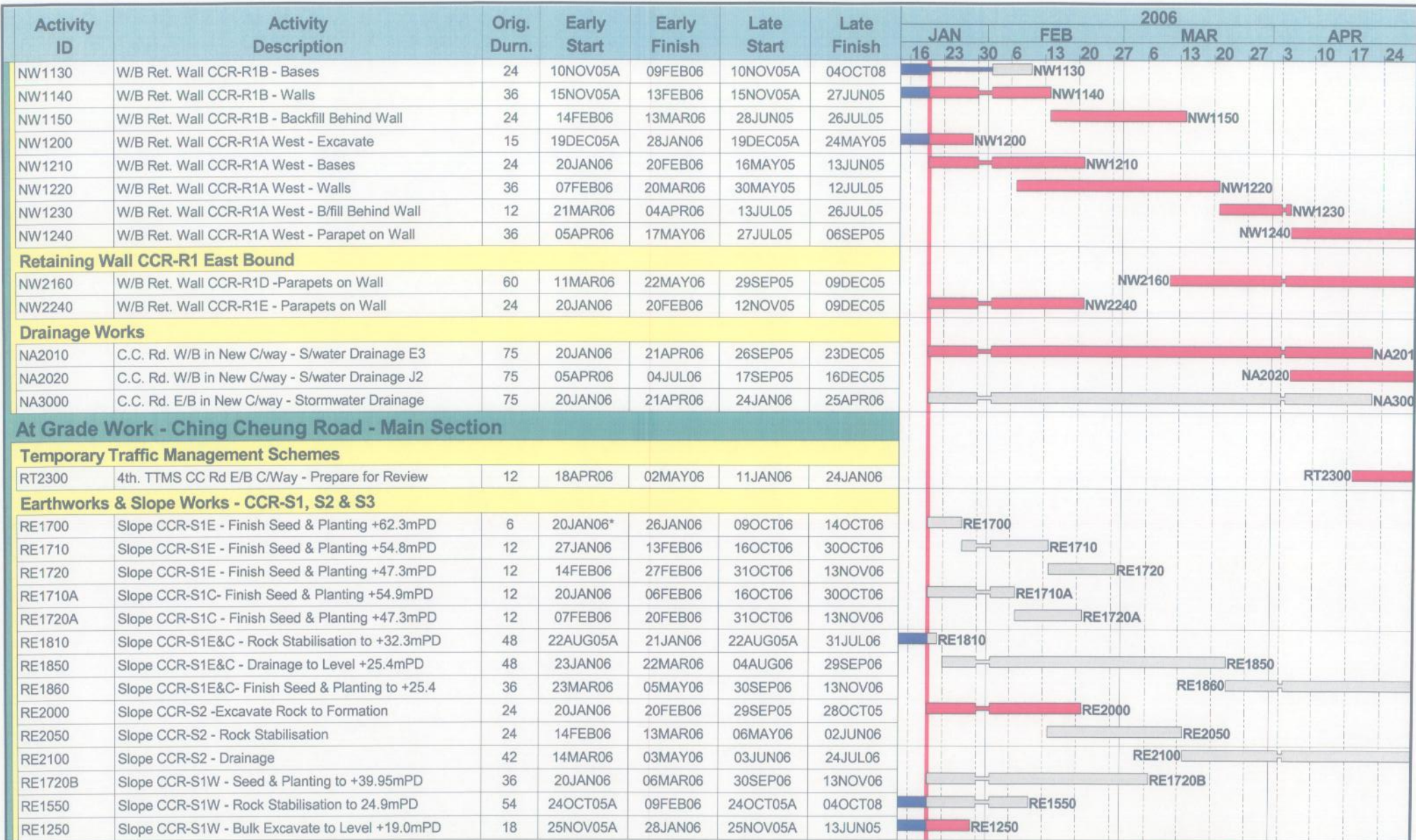
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							JAN			FEB			MAR			APR						
							16	23	30	6	13	20	6	13	20	27	3	10				
RE1250A	Slope CCR-S1W -Detailed Excavate to Level +19.0m	18	02FEB06	22FEB06	11AUG06	31AUG06																
RE1257	Slope CCR-S1W -Platform for Soil Nail R. 1 & 2	6	23FEB06	01MAR06	27SEP08	04OCT08																
RE1260A	Slope CCR-S1W - Soil Nails (R. 1 & 2) Working	12	20JAN06	06FEB06	08SEP06	21SEP06																
RE1560	Slope CCR-S1W - Rock Stabilisation to 19.0mPD	48	02FEB06	29MAR06	27JUL06	21SEP06																
RE1660	Slope CCR-S1W - Drainage to Level +19.0mPD	24	16MAR06	13APR06	08SEP06	07OCT06																
RE1270	Slope CCR-S1W - Excavate to Lai Wan Road O/pass	18	02FEB06	22FEB06	14JUN05	05JUL05																
RE16604	Slope CCR-S1W - Drainage to Level +16.8mPD	18	14APR06	05MAY06	09OCT06	30OCT06																
RE1665	Slope CCR-S1W - Seed & Planting to +32.4mPD	24	20JAN06	20FEB06	11AUG06	07SEP06																
RE1670	Slope CCR-S1W - Seed & Planting to +24.9mPD	24	21FEB06	20MAR06	08SEP06	07OCT06																
RE1675	Slope CCR-S1W - Seed & Planting to +19.0mPD	18	14APR06	05MAY06	09OCT06	30OCT06																
Retaining Wall CCR-R2 (Value Engineering Design)																						
RW1200	Ch 02.13 to 41.71 -Excavate & Rock Stabilisation	36	04APR05A	27JAN06	04APR05A	04OCT08																
RW1220	Ch 02.13 to 41.71 - Mass Concrete Facing Wall	24	24OCT05A	08FEB06	24OCT05A	07MAY05																
RW1230	Ch 02.13 to 41.71 - Retaining Wall Base Slabs	12	09FEB06	22FEB06	09MAY05	21MAY05																
RW1240	Ch 02.13 to 41.71 - Retaining Wall Stem & Coping	27	23FEB06	25MAR06	23MAY05	23JUN05																
RW1300	Ch 50.71 to 78.27 -Excavate & Rock Stabilisation	24	21OCT05A	25JAN06	21OCT05A	21DEC05																
RW1320	Ch 50.71 to 78.27 - Mass Concrete Facing Wall	27	26JAN06	01MAR06	22DEC05	24JAN06																
RW1330	Ch 50.71 to 78.27 - Retaining Wall Base Slabs	12	02MAR06	15MAR06	25JAN06	10FEB06																
RW1340	Ch 50.71 to 78.27 - Retaining Wall Stem & Coping	24	16MAR06	13APR06	11FEB06	10MAR06																
RW1400	Ch 00.00 to 02.13 -Excavate & Rock Stabilisation	12	21FEB06	06MAR06	04MAR06	17MAR06																
RW1420	Ch 00.00 to 02.13 - Mass Concrete Facing Wall	6	07MAR06	13MAR06	18MAR06	24MAR06																
RW1430	Ch 00.00 to 02.13 - Retaining Wall Base Slabs	6	14MAR06	20MAR06	25MAR06	31MAR06																
RW1440	Ch 00.00 to 02.13 - Retaining Wall Stem & Coping	16	21MAR06	08APR06	01APR06	20APR06																
Slope Works Above Retaining Wall CCR-R2																						
RE4000	Ch 00.00 to 78.27 - Excavate in Benches	48	27MAR06	23MAY06	24JUN05	19AUG05																
RE4010	Ch 00.00 to 78.27 - Filter Layer	48	11APR06	06JUN06	09JUL05	02SEP05																
Retaining Wall CCR-R3 Type D, E & F																						
RW2070	Ret. Wall CCR-R3E - Break Down Top of Piles	24	20JAN06	20FEB06	20MAY05	17JUN05																
RW2090	Ret. Wall CCR-R3E - Capping beam	24	27JAN06	27FEB06	27MAY05	24JUN05																
RW2110	Ret. Wall CCR-R3E - Stem Walls	24	24FEB06	23MAR06	22JUN05	20JUL05																
RW2190	Ret. Wall CCR-R3F - Break Down Top of Piles	12	03NOV05A	25JAN06	03NOV05A	22SEP08																
RW2200	Ret. Wall CCR-R3F - Capping beam	12	12NOV05A	08FEB06	12NOV05A	04OCT08																
RW2210	Ret. Wall CCR-R3F - Stem Walls	12	30NOV05A	02FEB06	30NOV05A	20JUL05																

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Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish	2006														
							JAN			FEB			MAR			APR					
							16	23	30	6	13	20	27	6	13	20	27	3	10	17	24
RW2560	Ret. Wall CCR-R3D - 10No Bored Piles Piles	46	04NOV05A	21JAN06	04NOV05A	13APR06	RW2560														
RW2570	Ret. Wall CCR-R3D - Pile Testing	24	20JAN06	20FEB06	30MAR06	27APR06	RW2570														
RW2590	Ret. Wall CCR-R3D - Erect Noise Barriers	12	07FEB06	20FEB06	14APR06	27APR06	RW2590														
RW2600	Ret. Wall CCR-R3D - Break Down Top of Piles	24	21FEB06	20MAR06	28APR06	26MAY06	RW2600														
RW2610	Ret. Wall CCR-R3D - Capping beam	12	21MAR06	04APR06	27MAY06	09JUN06	RW2610														
RW2630	Ret. Wall CCR-R3D - Stem Walls	24	30MAR06	27APR06	06JUN06	05JUL06	RW2630														
Retaining Wall CCR-R3 Type A																					
RW3040	Ret. Wall CCR-R3A - Backfill & Form Platform	18	20JAN06	13FEB06	27SEP05	19OCT05	RW3040														
Retaining Wall CCR-R3 Type B																					
RW4020	Ret. Wall CCR-R3B - Bases	24	03JAN06A	27JAN06	03JAN06A	17AUG05	RW4020														
RW4040	Ret. Wall CCR-R3B - Backfill & Form Platform	18	01MAR06	21MAR06	15SEP05	07OCT05	RW4040														
Retaining Wall CCR-R3 Type C																					
RW5010	Ret. Wall CCR-R3C - Excavation & Blinding	6	15APR06	21APR06	30SEP05	07OCT05	RW5010														
Slope Works Above Retaining Walls CCR-R3D, E & F																					
RE4205	Slope above CCR-R3E&F -Remove Piling Platform	6	24MAR06	30MAR06	21JUL05	27JUL05	RE4205														
RE4207	Slope above CCR-R3E&F -Excavate Slope	12	31MAR06	14APR06	28JUL05	10AUG05	RE4207														
RE4210	Slope above CCR-R3E&F- Filter - Btm. to 1st Berm	6	15APR06	21APR06	11AUG05	17AUG05	RE4210														
Earthworks & Slope Works - CCR-S4																					
RE4268	Slope CCR-S4 - Excavate & Bench Upper Slope	24	03JAN06A	03FEB06	03JAN06A	10FEB06	RE4268														
RE4280	Slope CCR-S4 - Fill and Compact	24	04FEB06	03MAR06	11FEB06	10MAR06	RE4280														
RE4285	Slope CCR-S4 - Form New Access Road at Footpath	24	04FEB06	03MAR06	11FEB06	10MAR06	RE4285														
RE4290	Slope CCR-S4 - Upper Slope Drainage	18	04MAR06	24MAR06	04JUL06	24JUL06	RE4290														
RE4300	Slope CCR-S4 - Upper Slope Finishes	18	25MAR06	15APR06	25JUL06	15AUG06	RE4300														
RE4310	Slope CCR-S4 - Excavate Lower Slope	24	17APR06	15MAY06	25AUG06	21SEP06	RE4310														
Ching Cheung Road NTMM Retaining Wall A																					
RW5990	NNTM Wall A - Excavate to Formation	36	09JAN06A	16FEB06	09JAN06A	19MAY06	RW5990														
RW6000	NNTM Wall A - Bases	12	17FEB06	02MAR06	20MAY06	02JUN06	RW6000														
RW6010	NNTM Wall A - Walls	18	03MAR06	23MAR06	03JUN06	24JUN06	RW6010														
RW6020	NNTM Wall A - Drainage & Fill Behind Walls	12	24MAR06	07APR06	26JUN06	10JUL06	RW6020														
RW6030	NNTM Wall A - Excavate to +20.5mPD	12	08APR06	21APR06	11JUL06	24JUL06	RW6030														
Drainage Works																					
RR1015	1200 dia. Stormwater Diversion at Pier D4	58	21JUN05A	16FEB06	21JUN05A	04OCT08	RR1015														

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Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish	2006																
							JAN			FEB			MAR			APR							
							16	23	30	6	13	20	27	6	13	20	27	3	10	17	24		
Utilities & Roadworks																							
RA3070	Ching Cheung Rd. New E/B - Sign Gantry Founds	18	21FEB06	13MAR06	10DEC05	31DEC05																	
RA4000	Ching Cheung Rd. New E/B Slip Road - E&M +TCSS	75	20JAN06	21APR06	26OCT05	23JAN06																	
RA4030	Ching Cheung Rd. New E/B - N/B Founds Base	75	21FEB06	20MAY06	05MAY06	03AUG06																	
RA7000	Lai Wan Road - Watermains & Hydrants FH4 & FH5	24	23MAR06	20APR06	11FEB06	10MAR06																	
At Grade Works - Butterfly Valley Interchange																							
Earthworks & Slopeworks - 11NW-A/C26																							
PE1040	Slope 11NW-A/C26 - Finishing Works	12	20JAN06	06FEB06	31OCT06	13NOV06																	
Retaining Wall CCR-R5 (Pre-bored "H" Piles)																							
PW2150	Ret. Wall CCR-R5 - R.C. Wall CCR-R5A	48	20JAN06	20MAR06	08AUG08	04OCT08																	
PW2040	Ret. Wall CCR-R5 - Stage 1 - Fill Behind Wall	24	20JAN06	20FEB06	05SEP08	04OCT08																	
PW2130	Ret. Wall CCR-R5 - Stage 2 - Install "H" Piles	18	20JAN06	13FEB06	01NOV05	21NOV05																	
PW2225	Ret. Wall CCR-R5 - Complete Coping & Facing	12	14FEB06	27FEB06	22NOV05	05DEC05																	
PW2140	Ret. Wall CCR-R5 - Complete Fill Behind Wall	12	28FEB06	13MAR06	14FEB06	27FEB06																	
PW2230	Ret. Wall CCR-R5 - Slope Works Behind Wall	36	14MAR06	25APR06	30SEP06	13NOV06																	
Retaining Wall CCR-R6 (Pre-bored "H" Piles)																							
PW3037	Ret. Wall CCR-R6 - Temporary Piling Platform	50	20JAN06	22MAR06	02DEC04	31JAN05																	
PW3040	Ret. Wall CCR-R6 - "H" Piles A60-A63 & A1-A23	75	23MAR06	21JUN06	01FEB05	04MAY05																	
Utilities & Roadworks																							
PR1110	CLP Slew 2No.132kva No.5 Behind Wall CCR-R5	18	21DEC05A	28JAN06	21DEC05A	14NOV05																	
Kiosk at Slip Road C																							
PK1000	Kiosk at Slip Rd. C - Structure	24	21FEB06	20MAR06	29OCT05	25NOV05																	
PK1010	Kiosk at Slip Rd. C - Building Finishes	48	21MAR06	17MAY06	26NOV05	23JAN06																	
PK1020	Kiosk at Slip Rd. C - MVAC Installation	24	21MAR06	18APR06	26NOV05	23DEC05																	
PK1030	Kiosk at Slip Rd. C - Electrical Works	24	05APR06	03MAY06	10DEC05	09JAN06																	
PK1040	Kiosk at Slip Rd. C - Drainage Works	24	19APR06	17MAY06	24DEC05	23JAN06																	

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							MAR			APR			MAY			JUN								
							13	20	27	3	10	17	24	1	8	15	22	29	5	12	19	26		
Main Line - Segmental Deck Construction (Crane)																								
MD4030	P17 Slip C - 1st. Pair - 2 Segments Type B	4	20MAR06	23MAR06	01DEC05	05DEC05																		
MD4035	P17 Slip C - 16 Segments Type B	7	24MAR06	31MAR06	06DEC05	13DEC05																		
MD4040	C6 Slip C - 3 Segments Type B	2	04APR06	05APR06	14DEC05	15DEC05																		
MD4042	C6 Slip C to P17 Slip C - Insitu Stitch	2	06APR06	07APR06	16DEC05	17DEC05																		
MD4095	P18 Slip D - 22 Segments Type B	11	06APR06	18APR06	07DEC05	19DEC05																		
DD1025	D10 to P18 - Insitu Stitch	2	19APR06	20APR06	31DEC05	03JAN06																		
Main Line - Segmental Deck Const'n (Lift Frames)																								
MD4112	P18 Slip C - Install Lifting Frames	8	20MAR06	28MAR06	15NOV05	23NOV05																		
MD4115A	P18 Slip C - 2nd-4th. Pairs -6 Segments Type B	9	29MAR06	08APR06	24NOV05	03DEC05																		
MD4115	P18 Slip C - 5th-14th Pairs - 20 Segments Type B	7	10APR06	17APR06	05DEC05	12DEC05																		
Main Line - Segmental Deck Construction (Gantry)																								
MD4018	Delivery of Segments at P17 Slip C	4	20MAR06	23MAR06	26MAY08	29MAY08																		
MD4020	Launch Gantry to P16/P17/P18 UNDER CLP O/H LINES	2	14MAR06A	20MAR06	14MAR06A	21NOV05																		
Superstructure Finishing Works Required for TCSS																								
MF4000	P16 to P18 - Parapets at P16 - P18 incl earthing	24	15JUN06	14JUL06	27DEC05	24JAN06																		
MF4005	P16 to P18 - Insitu Slab to Under Median Barrier	24	18APR06	16MAY06	13DEC05	11JAN06																		
MF4007	P16 to P18 - Median Barrier (incl earthing)	24	12MAY06	08JUN06	07JAN06	07FEB06																		
Viaduct - Main Line - Piers 19 to Abutment M																								
Substructure																								
MS5115	P20 - Pier Head - Cure & Strip Falsework	30	02MAR06A	22MAR06	02MAR06A	25NOV05																		
MS5165	P21 - Pier Hammer Head	30	18MAR06A	21APR06	18MAR06A	01DEC05																		
MS5170	P21 - Pier Insitu Deck Segment	60	22APR06	04JUL06	02DEC05	15FEB06																		
MS5230	Abutment M - Install Bearings	6	20MAR06	25MAR06	23MAY08	29MAY08																		
MS5240	Abutment M - Insitu Deck Segment	60	14FEB06A	21APR06	14FEB06A	07DEC05																		
MS5250	Abutment M - Cure & Strip Falsework	24	22APR06	20MAY06	08DEC05	06JAN06																		
MS5260	Abutment M - End Wall and Wing Walls	36	22MAY06	04JUL06	07JAN06	21FEB06																		
Main Line - Segmental Deck Construction (Gantry)																								
MD4025	Launch Gantry to P17/P18/P19 UNDER CLP O/H LINES	1	21MAR06	21MAR06	22NOV05	22NOV05																		
MD5000	Launch Gantry to P18/P19/P20 UNDER CLP O/H LINES	1	22MAR06	22MAR06	23NOV05	23NOV05																		
MD4107	CLP RESUME POWER - O/HEAD LINES NORTH &	0		31MAR06		29MAY08																		
MD5015	P19 Slip C - 18 Segments Type B	8	23MAR06	31MAR06	24NOV05	02DEC05																		
MD5022	P19/L - 16 Segments Type A	8	24MAR06	01APR06	25NOV05	03DEC05																		

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Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish	2006																	
							MAR			APR			MAY			JUN								
							13	20	27	3	10	17	24	1	8	15	22	29	5	12	19	26		
MD5035	P19/R - 18 Segments Type A	8	24MAR06	01APR06	25NOV05	03DEC05																		
MD5045	P19 Slip D - 14 Segments Type B	8	23MAR06	31MAR06	25NOV05	03DEC05																		
MD5055	P19/L&R to P18/L&R - Insitu Stitches	2	04APR06	05APR06	05DEC05	06DEC05																		
MD5060	P20 Slip D - 1st. Pair - 2 Segments Type B	4	19APR06	22APR06	11FEB06	15FEB06																		
MD5070	P20/R - 1st. Pair - 2 Segments Type A	4	05APR06	08APR06	25JAN06	28JAN06																		
MD5080	P20/L - 1st. Pair - 2 Segments Type A	4	10APR06	13APR06	02FEB06	06FEB06																		
MD5090	P20 Slip C - 1st. Pair - 2 Segments Type A	4	14APR06	18APR06	07FEB06	10FEB06																		
MD5065	P20 Slip D - 22 Segments Type B	15	24APR06	11MAY06	16FEB06	04MAR06																		
MD5075	P20/R - 22 Segments Type A	15	24APR06	11MAY06	16FEB06	04MAR06																		
MD5085	P20/L - 24 Segments Type A	15	25APR06	12MAY06	17FEB06	06MAR06																		
MD5095	P20 Slip C - 24 Segments Type B	15	25APR06	12MAY06	17FEB06	06MAR06																		
MD5097	P20/L&R to P19/L&R - Insitu Stitches	3	12MAY06	15MAY06	21MAR06	23MAR06																		
MD5100	Launch Gantry to P20/P21/Abut M	2	22MAY06	23MAY06	07MAR06	08MAR06																		
Viaduct - Main Line - Tunnel Approaches																								
Noise Barriers & Encl' (Sec.10 Excision)																								
MN6100	Semi Enclosure S/B Ch.2005 - 2200 - Frame	60	19JUN06	30AUG06	08DEC05	21FEB06																		
At Grade Works - Butterfly Valley																								
Temporary Traffic Management Schemes																								
QT2130	TTMS Slip RdD Deck@ CC Rd E/B - Site Preparation	2	20MAR06	21MAR06	28MAY08	29MAY08																		
QT2140	TTMS Slip Rd D Deck @ CC Rd E/B - Implementation	18*	28FEB06A	20MAR06	28FEB06A	30DEC05																		
Earthworks & Slope Works - 11NW-A/FR54 & F55																								
QE2000	Slope 11NW-A/FR54 & FR55 - Remove Temp. Platform	18	24MAR06	14APR06	21JUN05	12JUL05																		
QE2002	Slope 11NW-A/FR54 & FR55 - Retaining Wall -Bases	36	15APR06	27MAY06	13JUL05	23AUG05																		
QE2004	Slope 11NW-A/FR54 & FR55 - Retaining Wall -Walls	48	15MAY06	11JUL06	10AUG05	06OCT05																		
QE2010	Slope 11NW-A/FR54 & FR55 - Install Temp Works	48	03MAY06	28JUN06	20JUL05	13SEP05																		
Utilities & Roadworks																								
QR2000	WSD Access Road - New CLP 11Kv Cable Laying	36	20MAR06	02MAY06	17APR08	29MAY08																		
Landscape Works																								
QX1020	Landscaping - Soiling & Planting on Slope CCR-S6	75	20MAR06*	16JUN06	21OCT05	18JAN06																		
QX1100	Landscape Establishment Works	301	17JUN06	18JUN07	04NOV06	03NOV07																		

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Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish	2006														
							MAR			APR			MAY			JUN					
							13	20	27	3	10	17	24	1	8	15	22	29	5	12	19
Viaduct - Slip Road C																					
Substructure																					
CS1150	Abutment C - Install Bearings	6	20MAR06	18MAR06	26OCT05	25OCT05	CS1150														
CS1447	C5/L - C5/R Portal - Install Bearings	6	20MAR06	25MAR06	06OCT05	13OCT05	CS1447														
CS1555	C6/R & C6/L - Install Bearings on Portal Frame	6	27MAR06	01APR06	14OCT05	20OCT05	CS1555														
Slip Road C - Insitu Deck Construction																					
CD1032	Slip Rd. C - Deck Span C3 to C4 - Falsework	12	27JAN06A	21MAR06	27JAN06A	26AUG05	CD1032														
CD1034	Slip Rd. C - Deck Span C3 to C4 - Soffit	6	22MAR06	28MAR06	27AUG05	02SEP05	CD1034														
CD1036	Slip Rd. C - Deck Span C3 to C4 - 1st. Pour	20	29MAR06	21APR06	03SEP05	27SEP05	CD1036														
CD1038	Slip Rd. C - Deck Span C3 to C4 - 2nd. Pour	20	22APR06	16MAY06	28SEP05	22OCT05	CD1038														
CD1039	Slip Rd. C - Deck Span C3 to C4 - Stressing	4	17MAY06	20MAY06	24OCT05	27OCT05	CD1039														
CD1041	Slip Rd. C - Deck Span C3 to C4 - Cure & Strip	6	22MAY06	27MAY06	28OCT05	03NOV05	CD1041														
CD1040	Slip Rd. C - Deck Span C4 to C5 - Ground Prep.	9	20MAR06	29MAR06	16SEP05	27SEP05	CD1040														
CD1042	Slip Rd. C - Deck Span C4 to C5 - Falsework	10	30MAR06	11APR06	30SEP05	13OCT05	CD1042														
CD1044	Slip Rd. C - Deck Span C4 to C5 - Soffit	6	12APR06	18APR06	21OCT05	27OCT05	CD1044														
CD1046	Slip Rd. C - Deck Span C4 to C5 - 1st. Pour	20	19APR06	12MAY06	28OCT05	19NOV05	CD1046														
CD1048	Slip Rd. C - Deck Span C4 to C5 - 2nd. Pour	20	13MAY06	05JUN06	21NOV05	13DEC05	CD1048														
CD1049	Slip Rd. C - Deck Span C4 to C5 - Stressing	4	06JUN06	09JUN06	14DEC05	17DEC05	CD1049														
CD1051	Slip Rd. C - Deck Span C4 to C5 - Cure & Strip	6	10JUN06	16JUN06	11JAN06	17JAN06	CD1051														
CD1050	Slip Rd. C - Deck Span C5 to C6 - Ground Prep.	12	30MAR06	13APR06	28SEP05	13OCT05	CD1050														
CD1052	Slip Rd. C - Deck Span C5 to C6 - Falsework	18	14APR06	05MAY06	14OCT05	03NOV05	CD1052														
CD1054	Slip Rd. C - Deck Span C5 to C6 - Soffit	6	29MAY06	03JUN06	04NOV05	10NOV05	CD1054														
CD1056	Slip Rd. C - Deck Span C5 to C6 - 1st. Pour	20	05JUN06	28JUN06	11NOV05	03DEC05	CD1056														
Superstructure Finishing Works Required for TCSS																					
CF1010	Slip Rd. C - Parapets C2 to C4 (incl earthing)	48	15APR06	10JUN06	24OCT05	17DEC05	CF1010														
CF1000	Slip Rd. C - Parapets - Abut. C to C2 + earthing	24	12JUN06	11JUL06	19DEC05	17JAN06	CF1000														
Viaduct - Slip Road D																					
Substructure																					
DS1045	Abutment D - Install Bearings	6	20MAR06	25MAR06	26OCT05	01NOV05	DS1045														
DS1115	D1 - Install Bearings	6	20MAR06	25MAR06	29OCT05	04NOV05	DS1115														
DS1175	D2 - Install Bearings	6	20MAR06	25MAR06	05NOV05	11NOV05	DS1175														
DS1295	D4 - Install Bearings	6	20MAR06	25MAR06	23MAY08	29MAY08	DS1295														

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							MAR			APR			MAY			JUN						
							13	20	27	3	10	17	24	1	8	15	22	29	5	12	19	26
DS1355	D5 - Install Bearings	6	20MAR06	25MAR06	23MAY08	29MAY08																
DS1530	D8 - Pier Head	24	03MAR06A	13APR06	03MAR06A	10OCT05																
DS1530A	D8 - Pier Head - Insitu Segment	36	14APR06	26MAY06	12OCT05	22NOV05																
DS1531	D8 - Pier Head - Cure & Strike Form/Falsework	12	27MAY06	09JUN06	23NOV05	06DEC05																
DS1592	D9 - Install Bearings	6	20MAR06	25MAR06	23MAY08	29MAY08																
DS1655	D10 - Install Bearings	6	20MAR06	25MAR06	23MAY08	29MAY08																
Slip Road D - Segmental Deck Const'n (Crane)																						
DD1035	D9 - 6 seg Type B	5	28FEB06A	20MAR06	28FEB06A	30DEC05																
DD1037	D9 to D10 - Insitu Stitch	2	21MAR06	22MAR06	31DEC05	03JAN06																
DD1050	D8 - 1st. Pair - 2 Segments Type B	6	10JUN06	16JUN06	07DEC05	13DEC05																
DD1055	D8 - 28 Segments Type B	14	17JUN06	05JUL06	14DEC05	30DEC05																
DD1115	D5 - 26 seg Type B	7	17MAR06A	24MAR06	17MAR06A	25NOV05																
DD1137	D4 to D5 - Insitu Stitch	3	25MAR06	28MAR06	08DEC05	10DEC05																
DD1172	Install Segment Sliding System Abut. D to D3	24	09MAR06A	10APR06	09MAR06A	01NOV05																
DD1200	Abut D - 3 Segments Type B on scaff	3	11APR06	13APR06	02NOV05	04NOV05																
DD1195	D1 - 21 Segments Type B (incl. Pierhead Seg)	6	14APR06	20APR06	05NOV05	11NOV05																
DD1205	D1 to Abut D - Insitu Stitch	3	21APR06	24APR06	21DEC05	23DEC05																
DD1175	D2 - 27 Segments Type B (incl. Pier Head Seg)	10	21APR06	03MAY06	12NOV05	23NOV05																
DD1197	D1 to D2 - Insitu Stitch	3	04MAY06	06MAY06	08DEC05	10DEC05																
DD1150	D3 - 1st. Pair - 2 Segments Type B	6	04MAY06	10MAY06	24NOV05	30NOV05																
DD1155	D3 - 18 Segments Type B	6	11MAY06	17MAY06	01DEC05	07DEC05																
DD1167	D3 to D4 - Insitu Stitch	3	18MAY06	20MAY06	08DEC05	10DEC05																
DD1177	D2 to D3 - Insitu Stitch	3	18MAY06	20MAY06	08DEC05	10DEC05																
DD1179	Dismantle Segment Sliding System (Abut. D to D3)	12	08MAY06	20MAY06	24JUN06	08JUL06																
Slip Road D - Segmental Deck Const'n (L/Frames)																						
DD1095	D6 - 16 seg Type B	7	25MAR06	01APR06	26NOV05	03DEC05																
DD1117	D5-D6 Insitu Stitch	2	04APR06	05APR06	16DEC05	17DEC05																
DD1070	D7 - 1st. pair - 2 seg Type B	6	10APR06	15APR06	28NOV05	03DEC05																
DD1075	D7 - 16 seg Type B	8	18APR06	26APR06	05DEC05	13DEC05																
DD1077	D7-D8 Insitu Stitch	2	27APR06	28APR06	16DEC05	17DEC05																
DD1097	D6-D7 Insitu Stitch	2	27APR06	28APR06	16DEC05	17DEC05																
Superstructure Finishing Works Required for TCSS																						
DF1005	Slip Rd. D -Parapets D4 to Abut D (incl earthing)	42	22MAY06	11JUL06	12DEC05	03FEB06																

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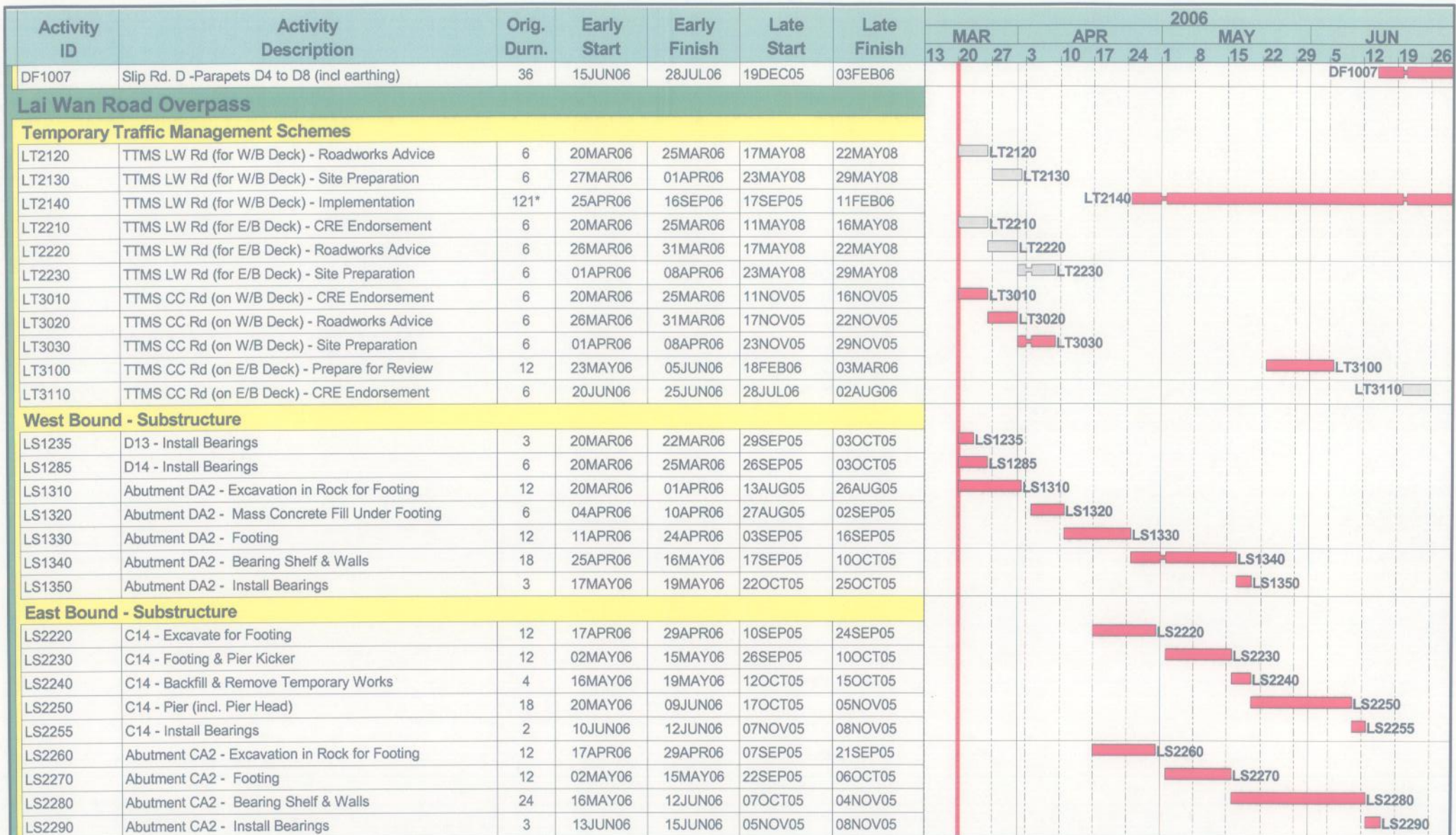
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Highways Department Contract No. HY/2003/01
Route 8 - Lai Chi Kok Viaduct
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Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish	2006																
							MAR			APR			MAY			JUN							
							13	20	27	3	10	17	24	1	8	15	22	29	5	12	19	26	
West Bound - Insitu Deck																							
LD1040	Lai Wan O/pass W/B - Demolish F/p for Stage 3	24	20MAR06	17APR06	20AUG05	16SEP05																	
LD1050	Lai Wan O/pass W/B - Span St.3 - Ground Prep.	18	25APR06	16MAY06	17SEP05	10OCT05																	
LD1052	Lai Wan O/pass W/B - Span St.3 - Falsework	18	03MAY06	23MAY06	26SEP05	18OCT05																	
LD1054	Lai Wan O/pass W/B - Span St.3 - Soffit	24	10MAY06	06JUN06	04OCT05	01NOV05																	
LD1056	Lai Wan O/pass W/B - Span St.3 - 1st. Pour	24	31MAY06	28JUN06	26OCT05	22NOV05																	
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	18APR06	02MAY06	11JAN06	24JAN06																	
NT2060	2nd. TTMS CC Rd (E/B C/Way) - CRE Endorsement	6	23MAY06	28MAY06	29OCT06	03NOV06																	
NT2070	2nd. TTMS CC Rd (E/B C/Way) - Roadworks Advice	6	29MAY06	03JUN06	04NOV06	09NOV06																	
NT2080	2nd. TTMS CC Rd (E/B C/Way) - Site Preparation	6	05JUN06	10JUN06	10NOV06	16NOV06																	
Retaining Wall CCR-R1 West Bound																							
NW1070	W/B Ret. Wall CCR-R1A East - Parapet on Wall	24	20MAR06	17APR06	31OCT05	26NOV05																	
NW1150	W/B Ret. Wall CCR-R1B - Backfill Behind Wall	12	20MAR06	01APR06	27SEP05	12OCT05																	
NW1152	W/B Ret. Wall CCR-R1B - Parapet on Wall	18	18APR06	09MAY06	28NOV05	17DEC05																	
NW1210	W/B Ret. Wall CCR-R1A West - Bases	18	27FEB06A	01APR06	27FEB06A	10SEP05																	
NW1220	W/B Ret. Wall CCR-R1A West - Walls	24	13MAR06A	17APR06	13MAR06A	26SEP05																	
NW1230	W/B Ret. Wall CCR-R1A West - B/fill Behind Wall	12	18APR06	02MAY06	27SEP05	12OCT05																	
NW1240	W/B Ret. Wall CCR-R1A West - Parapet on Wall	18	10MAY06	30MAY06	19DEC05	10JAN06																	
Retaining Wall CCR-R1 East Bound																							
NW2070	W/B Ret. Wall CCR-R1C - Parapets on Wall	48	07JAN06A	29APR06	07JAN06A	22OCT05																	
NW2160	W/B Ret. Wall CCR-R1D -Parapets on Wall	60	02MAY06	12JUL06	24OCT05	03JAN06																	
NW2240	W/B Ret. Wall CCR-R1E - Parapets on Wall	24	20MAR06	17APR06	05DEC05	03JAN06																	
Drainage Works																							
NA2010	C.C. Rd. W/B in New C/way - S/water Drainage E3	75	20MAR06	16JUN06	13OCT05	10JAN06																	
NA2020	C.C. Rd. W/B in New C/way - S/water Drainage J2	75	03MAY06	01AUG06	13OCT05	10JAN06																	
NA3000	C.C. Rd. E/B in New C/way - Stormwater Drainage	75	20MAR06	16JUN06	05OCT05	03JAN06																	
Utilities & Roadworks																							
NR1000	C.C. Rd. W/B in Portion E3 - Formation	18	03JUN06	24JUN06	27DEC05	17JAN06																	
NR1010	C.C. Rd. W/B in Portion E3 - Sub-base	12	17JUN06	03JUL06	11JAN06	24JAN06																	
NR2000	C.C. Rd. E/B - Foundations to Sign Gantry ADS3	18	17JUN06	10JUL06	04JAN06	24JAN06																	
NR3000	C.C. Rd. E/B - Formation	24	17JUN06	17JUL06	27APR06	25MAY06																	

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Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish	2006														
							MAR			APR			MAY			JUN					
							13	20	27	3	10	17	24	1	8	15	22	29	5	12	19
At Grade Work - Ching Cheung Road - Main Section																					
Temporary Traffic Management Schemes																					
RT2240	3rd. TTMS CC Rd (Slewing) - Implementation	385*	28DEC04A	10APR06	28DEC04A	23NOV06	RT2240														
Earthworks & Slope Works - CCR-S1, S2 & S3																					
RE1700	Slope CCR-S1E - Finish Seed & Planting +62.3mPD	6	20MAR06*	25MAR06	19OCT06	26OCT06	RE1700														
RE1710	Slope CCR-S1E - Finish Seed & Planting +54.8mPD	12	27MAR06	10APR06	27OCT06	09NOV06	RE1710														
RE1720	Slope CCR-S1E - Finish Seed & Planting +47.3mPD	12	11APR06	24APR06	10NOV06	23NOV06	RE1720														
RE1710A	Slope CCR-S1C- Finish Seed & Planting +54.9mPD	12	20MAR06	01APR06	27OCT06	09NOV06	RE1710A														
RE1720A	Slope CCR-S1C - Finish Seed & Planting +47.3mPD	12	04APR06	17APR06	10NOV06	23NOV06	RE1720A														
RE1840	Slope CCR-S1E&C- Rock Stabilisation to +25.4mPD	48	24OCT05A	07APR06	24OCT05A	11SEP06	RE1840														
RE1850	Slope CCR-S1E&C - Drainage to Level +25.4mPD	48	24JAN06A	06MAY06	24JAN06A	11OCT06	RE1850														
RE1860	Slope CCR-S1E&C- Finish Seed & Planting to +25.4	36	08MAY06	17JUN06	12OCT06	23NOV06	RE1860														
RE2000	Slope CCR-S2 -Excavate Rock to Formation	24	20MAR06	17APR06	20OCT05	16NOV05	RE2000														
RE2050	Slope CCR-S2 - Rock Stabilisation	48	04APR06	30MAY06	08APR06	03JUN06	RE2050														
RE2100	Slope CCR-S2 - Drainage	42	31MAY06	20JUL06	05JUN06	25JUL06	RE2100														
RE1720B	Slope CCR-S1W - Seed & Planting to +39.95mPD	36	20MAR06	02MAY06	12OCT06	23NOV06	RE1720B														
RE1550	Slope CCR-S1W - Rock Stabilisation to 24.9mPD	54	24OCT05A	04MAY06	24OCT05A	29MAY08	RE1550														
RE1250	Slope CCR-S1W - Bulk Excavate to Level +19.0mPD	18	25NOV05A	24MAR06	25NOV05A	16AUG05	RE1250														
RE1250A	Slope CCR-S1W -Detailed Excavate to Level +19.0m	18	20MAR06	28MAR06	08NOV05	16NOV05	RE1250A														
RE1560	Slope CCR-S1W - Rock Stabilisation to 19.0mPD	48	25MAR06	22MAY06	08AUG06	04OCT06	RE1560														
RE1660	Slope CCR-S1W - Drainage to Level +19.0mPD	24	09MAY06	05JUN06	19SEP06	18OCT06	RE1660														
RE1270	Slope CCR-S1W - Excavate to Lai Wan Road O/pass	18	25MAR06	15APR06	17AUG05	06SEP05	RE1270														
RE16604	Slope CCR-S1W - Drainage to Level +16.8mPD	18	06JUN06	27JUN06	19OCT06	09NOV06	RE16604														
RE1665	Slope CCR-S1W - Seed & Planting to +32.4mPD	24	20MAR06	17APR06	22AUG06	18SEP06	RE1665														
RE1670	Slope CCR-S1W - Seed & Planting to +24.9mPD	24	18APR06	16MAY06	19SEP06	18OCT06	RE1670														
RE1675	Slope CCR-S1W - Seed & Planting to +19.0mPD	18	06JUN06	27JUN06	19OCT06	09NOV06	RE1675														
RE3200	Slope CCR-S3 - Additional Soil Nails (VO166)	24	20MAR06	17APR06	27OCT06	23NOV06	RE3200														
Retaining Wall CCR-R2 (Value Engineering Design)																					
RW1200	Ch 02.13 to 41.71 -Excavate & Rock Stabilisation	36	04APR05A	30MAR06	04APR05A	29MAY08	RW1200														
RW1220	Ch 02.13 to 41.71 - Mass Concrete Facing Wall	24	24OCT05A	28MAR06	24OCT05A	29MAY08	RW1220														
RW1230	Ch 02.13 to 41.71 - Retaining Wall Base Slabs	12	06FEB06A	28MAR06	06FEB06A	27AUG05	RW1230														
RW1240	Ch 02.13 to 41.71 - Retaining Wall Stem & Coping	27	29MAR06	29APR06	29AUG05	29SEP05	RW1240														
RW1300	Ch 50.71 to 78.27 -Excavate & Rock Stabilisation	24	21OCT05A	30MAR06	21OCT05A	29MAY08	RW1300														

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							MAR			APR			MAY			JUN								
							13	20	27	3	10	17	24	1	8	15	22	29	5	12	19	26		
RW1320	Ch 50.71 to 78.27 - Mass Concrete Facing Wall	27	12NOV05A	11APR06	12NOV05A	25JAN06																		
RW1330	Ch 50.71 to 78.27 - Retaining Wall Base Slabs	12	12APR06	25APR06	26JAN06	11FEB06																		
RW1340	Ch 50.71 to 78.27 - Retaining Wall Stem & Coping	24	26APR06	24MAY06	13FEB06	11MAR06																		
RW1400	Ch 00.00 to 02.13 -Excavate & Rock Stabilisation	12	20MAR06	01APR06	06MAR06	18MAR06																		
RW1420	Ch 00.00 to 02.13 - Mass Concrete Facing Wall	6	04APR06	10APR06	20MAR06	25MAR06																		
RW1430	Ch 00.00 to 02.13 - Retaining Wall Base Slabs	6	11APR06	17APR06	27MAR06	01APR06																		
RW1440	Ch 00.00 to 02.13 - Retaining Wall Stem & Coping	16	18APR06	06MAY06	04APR06	21APR06																		
Slope Works Above Retaining Wall CCR-R2																								
RE4000	Ch 00.00 to 78.27 - Excavate in Benches	48	02MAY06	27JUN06	30SEP05	26NOV05																		
RE4010	Ch 00.00 to 78.27 - Filter Layer	48	16MAY06	12JUL06	17OCT05	10DEC05																		
RE4020	Ch 02.13 to 41.71 - General Filling & Compaction	36	06JUN06	19JUL06	07NOV05	17DEC05																		
RE4022	Ch 50.71 to 78.27 - General Filling & Compaction	36	06JUN06	19JUL06	19JAN06	04MAR06																		
RE4025	Ch 00.00 to 2.13 - General Filling & Compaction	6	08MAY06	13MAY06	22APR06	28APR06																		
RE4027	Excavate & Demolish Existing Retaining Wall	12	15MAY06	27MAY06	29APR06	13MAY06																		
RE4028	Fill & Compact to Form Toe of Berm	6	29MAY06	03JUN06	15MAY06	20MAY06																		
Retaining Wall CCR-R3 Type D, E & F																								
RW2190	Ret. Wall CCR-R3F - Break Down Top of Piles	36	03NOV05A	22MAR06	03NOV05A	27FEB06																		
RW2200	Ret. Wall CCR-R3F - Capping beam	42	12NOV05A	08APR06	12NOV05A	09MAR06																		
RW2210	Ret. Wall CCR-R3F - Stem Walls	48	30NOV05A	22APR06	30NOV05A	23MAR06																		
RW2070	Ret. Wall CCR-R3E - Break Down Top of Piles	12	07FEB06A	21MAR06	07FEB06A	09MAR06																		
RW2090	Ret. Wall CCR-R3E - Capping beam	18	27FEB06A	28MAR06	27FEB06A	16MAR06																		
RW2110	Ret. Wall CCR-R3E - Stem Walls	18	06MAR06A	05APR06	06MAR06A	23MAR06																		
RW2590	Ret. Wall CCR-R3D - Erect Noise Barriers	12	20MAR06	01APR06	16MAY08	29MAY08																		
RW2600	Ret. Wall CCR-R3D - Break Down Top of Piles	24	25FEB06A	10APR06	25FEB06A	06JUN06																		
RW2610	Ret. Wall CCR-R3D - Capping beam	12	11APR06	24APR06	07JUN06	21JUN06																		
RW2630	Ret. Wall CCR-R3D - Stem Walls	24	20APR06	18MAY06	16JUN06	15JUL06																		
Retaining Wall CCR-R3 Type A																								
RW3040	Ret. Wall CCR-R3A - Backfill & Form Platform	18	20MAR06	10APR06	15SEP05	07OCT05																		
Retaining Wall CCR-R3 Type B																								
RW4040	Ret. Wall CCR-R3B - Backfill & Form Platform	18	20MAR06	10APR06	28NOV05	17DEC05																		
Retaining Wall CCR-R3 Type C																								
RW5010	Ret. Wall CCR-R3C - Temporary Works & Excavation	24	25JAN06A	24MAR06	25JAN06A	23NOV06																		
RW5020	Ret. Wall CCR-R3C - Bases	24	22MAY06	17JUN06	10JUL06	07AUG06																		

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Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish	2006																
							MAR			APR			MAY			JUN							
							13	20	27	3	10	17	24	1	8	15	22	29	5	12	19	26	
RW5030	Ret. Wall CCR-R3C - Walls	30	05JUN06	11JUL06	24JUL06	28AUG06																	
Slope Works Above Retaining Walls CCR-R3D, E & F																							
RE4107	Slope above CCR-R3D-Excavate Slope	12	19MAY06	01JUN06	17JUL06	31JUL06																	
RE4110	Slope above CCR-R3D- Filter - Bottom to 1st Berm	6	02JUN06	08JUN06	01AUG06	07AUG06																	
RE4111	Slope above CCR-R3D- Rockfill - Bt'm to 1st Berm	12	09JUN06	23JUN06	08AUG06	21AUG06																	
RE4205	Slope above CCR-R3E&F -Remove Piling Platform	6	24APR06	29APR06	24MAR06	30MAR06																	
RE4207	Slope above CCR-R3E&F -Excavate Slope	12	02MAY06	15MAY06	31MAR06	14APR06																	
RE4210	Slope above CCR-R3E&F- Filter - Btm. to 1st Berm	6	16MAY06	22MAY06	15APR06	21APR06																	
RE4211	Slope above CCR-R3E&F -Rockfill-Bt'm to 1st Berm	12	23MAY06	05JUN06	22APR06	06MAY06																	
RE4213	Slope above CCR-R3E&F -Filter-1st Berm to +24mPD	6	06JUN06	12JUN06	15AUG06	21AUG06																	
RE4214	Slope above CCR-R3E&F-Rockfil-1st Berm to +24mPD	12	13JUN06	27JUN06	22AUG06	04SEP06																	
Earthworks & Slope Works - CCR-S4																							
RE4268	Slope CCR-S4 - Excavate & Bench Upper Slope	48	03JAN06A	10APR06	03JAN06A	11FEB06																	
RE4280	Slope CCR-S4 - Fill and Compact	24	23MAY06	19JUN06	13FEB06	11MAR06																	
RE4285	Slope CCR-S4 - Form New Access Road at Footpath	24	23MAY06	19JUN06	13FEB06	11MAR06																	
Ching Cheung Road NTMM Retaining Wall A																							
RW5990	NNTM Wall A - Excavate to Formation	36	09JAN06A	30MAR06	09JAN06A	20MAY06																	
RW6000	NNTM Wall A - Bases	12	31MAR06	14APR06	22MAY06	03JUN06																	
RW6010	NNTM Wall A - Walls	18	15APR06	06MAY06	05JUN06	26JUN06																	
RW6020	NNTM Wall A - Drainage & Fill Behind Walls	12	08MAY06	20MAY06	27JUN06	11JUL06																	
RW6030	NNTM Wall A - Excavate to +20.5mPD	12	22MAY06	03JUN06	12JUL06	25JUL06																	
RW6040	NNTM Wall A - Debris Collection Area Drainage	12	05JUN06	17JUN06	26JUL06	09AUG06																	
RW6050	NNTM Wall A - Debris Collection Area Access Ramp	12	19JUN06	04JUL06	10AUG06	23AUG06																	
Drainage Works																							
RR3100	Ching Cheung Rd. E/B -S/Water S300-01 to S300-07	60	13JUN06	24AUG06	22MAR06	01JUN06																	
Utilities & Roadworks																							
RA2000	Lai Wan Road - Footpath below Slope CCR-S4	24	19MAY06	15JUN06	27OCT06	23NOV06																	
RA2100	CLP Cable Trough - CC Rd. Rest Garden to CCR-R3D	48	20MAR06	16MAY06	10MAR06	06MAY06																	
RA2110	CLP Cable Trough - Behind CCR-R3D	24	06JUN06	05JUL06	08MAY06	03JUN06																	
RA3000	Ching Cheung Rd. W/B New C/Way -N/B Founds Bases	60	16DEC05A	25MAR06	16DEC05A	05NOV05																	
RA3002	Ching Cheung Rd. W/B New C/Way -N/B Founds Walls	72	07FEB06A	05JUN06	07FEB06A	03DEC05																	
RA3003	Ching Cheung Rd. W/B New C/Way - Filling	60	11APR06	21JUN06	08OCT05	17DEC05																	
RA3005	Ching Cheung Rd. W/B - S/Gantry FADS4 Founds	18	31MAY06	21JUN06	22DEC05	13JAN06																	

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							MAR			APR			MAY			JUN					
							13	20	27	3	10	17	24	1	8	15	22	29	5	12	19
RA4000	Ching Cheung Rd. New E/B Slip Road - E&M +TCSS	75	18APR06	17JUL06	17NOV05	17FEB06	RA4000														
RA4030	Ching Cheung Rd. New E/B - N/B Founds Base	75	20MAR06	16JUN06	08SEP05	07DEC05	RA4030														
RA4040	Ching Cheung Rd. New E/B - Fill Behind N/B Base	48	17MAY06	13JUL06	07NOV05	03JAN06	RA4040														
RA7000	Lai Wan Road - Watermains & Hydrants FH4 & FH5	24	16MAY06	12JUN06	22FEB06	21MAR06	RA7000														
At Grade Works - Butterfly Valley Interchange																					
Temporary Traffic Management Schemes																					
PT2200	TTMS CP Rd-KC S/B for Paving -Prepare for Review	18	18APR06	09MAY06	11JAN06	03FEB06	PT2200														
PT2210	TTMS CP Rd-KC S/B for Paving - CRE Endorsement	6	23MAY06	28MAY06	05FEB06	10FEB06	PT2210														
PT2220	TTMS CP Rd-KC S/B for Paving - Roadworks Advice	7	29MAY06	04JUN06	11FEB06	17FEB06	PT2220														
PT2230	TTMS CP Rd-KC S/B for Paving - Site Preparation	6	05JUN06	10JUN06	18FEB06	24FEB06	PT2230														
Earthworks & Slopeworks - 11NW-A/C26																					
PE1040	Slope 11NW-A/C26 - Finishing Works	12	20MAR06	01APR06	10NOV06	23NOV06	PE1040														
Retaining Wall CCR-R5 (Pre-bored "H" Piles)																					
PW2150	Ret. Wall CCR-R5 - R.C. Wall CCR-R5A	48	20MAR06	02MAY06	17APR08	29MAY08	PW2150														
PW2040	Ret. Wall CCR-R5 - Stage 1 - Fill Behind Wall	60	20MAR06	30MAY06	19MAR08	29MAY08	PW2040														
PW2130	Ret. Wall CCR-R5 - Stage 2 - Install "H" Piles	18	20MAR06	10APR06	12DEC05	03JAN06	PW2130														
PW2225	Ret. Wall CCR-R5 - Complete Coping & Facing	12	11APR06	24APR06	04JAN06	17JAN06	PW2225														
PW2140	Ret. Wall CCR-R5 - Complete Fill Behind Wall	12	25APR06	09MAY06	26SEP06	11OCT06	PW2140														
PW2230	Ret. Wall CCR-R5 - Slope Works Behind Wall	36	10MAY06	21JUN06	12OCT06	23NOV06	PW2230														
Retaining Wall CCR-R6 (Value Engineering Design)																					
PW3220	Ret. Wall CCR-R6 - Excavate Slope	48	06MAR06A	06MAY06	06MAR06A	29OCT05	PW3220														
PW3230	Ret. Wall CCR-R6 - Reinstate Soil Nail Heads	48	08APR06*	03JUN06	30SEP05	26NOV05	PW3230														
PW3240	Ret. Wall CCR-R6 - Install T40 Tie Back Anchors	48	08MAY06*	04JUL06	31OCT05	24DEC05	PW3240														
PW3250	Ret. Wall CCR-R6 - Bases to R.C. Walls	48	05JUN06*	02AUG06	28NOV05	24JAN06	PW3250														
Utilities & Roadworks																					
PR1110	CLP Slew 2No.132kva No.5 Behind Wall CCR-R5	36	21DEC05A	25MAR06	21DEC05A	24DEC05	PR1110														
PR1115	New CLP 11Kv Cable Laying behind CCR-R5	12	27MAR06	10APR06	28FEB06*	13MAR06	PR1115														
PR5000	C.P.Rd-K.C. S/B to C.C.Rd E/B - Excavate Road	18	17JUN06	10JUL06	18JAN06	10FEB06	PR5000														
PR5100	C.C. Rd. W/B - Sign Gantry FADS7 at P15-P16	6	18APR06	24APR06	23MAY08	29MAY08	PR5100														
Kiosk at Slip Road C																					
PK1000	Kiosk at Slip Rd. C - Structure	24	18APR06	16MAY06	21NOV05	17DEC05	PK1000														
PK1010	Kiosk at Slip Rd. C - Building Finishes	48	17MAY06	13JUL06	19DEC05	17FEB06	PK1010														
PK1020	Kiosk at Slip Rd. C - MVAC Installation	24	17MAY06	13JUN06	19DEC05	17JAN06	PK1020														

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Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish	2006															
							MAR			APR			MAY			JUN						
							13	20	27	3	10	17	24	1	8	15	22	29	5	12	19	26
PK1030	Kiosk at Slip Rd. C - Electrical Works	24	31MAY06	28JUN06	04JAN06	03FEB06																
PK1040	Kiosk at Slip Rd. C - Drainage Works	24	14JUN06	13JUL06	18JAN06	17FEB06																

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Route 8 - Lai Chi Kok Viaduct
3 Month Rolling Programme
from 20 March 2006



Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish	2006																		
							MAR			APR			MAY			JUN									
							13	20	27	3	10	17	24	1	8	15	22	29	5	12	19	26			
Preliminaries & General Requirements																									
Portion Access Dates																									
PD1140	Access to Portion F1	0	17APR06*		17APR06*																				
PD1150	Access to Portion F2	0	17APR06*		17APR06*																				
PD1160	Anticipated Access to Portion F3	0	20MAR06*		08DEC05*																				
Design of Temporary Works																									
TW1280	Design of Temp Works for Retaining Wall CCR-R4	36	20MAR06	02MAY06	13APR06	25MAY06																			
TW1370	Design of Temp Works for Feature 11NW-A/C66	36	20MAR06	02MAY06	27APR06	08JUN06																			
TW1380	Design of Temp Works for Feature 11NW-A/FR54&55	36	20MAR06	02MAY06	06JUN05	19JUL05																			
TW1440	Design of Temporary Works for Pumping Stations	36	20MAR06	02MAY06	21FEB06	04APR06																			
TW1450	Design of T/Works for Erection of Noise Encl'res	36	20MAR06	02MAY06	28SEP05	10NOV05																			
TW1460	Design of T/Works for Erection of Noise Barriers	36	20MAR06	02MAY06	09JUN06	22JUL06																			
Monitoring & Instrumentation - New Works																									
IM3010	Install Instrumentation @ Cut Slope CCR-S1	12	20MAR06	01APR06	16MAY08	29MAY08																			
IM3015	Monitoring @ Cut Slope CCR-S1	387*	20MAR06	03JUL07	16MAY08	15MAY08																			
IM3020	Install Instrumentation @ Cut Slope CCR-S2	12	18APR06	02MAY06	16MAY08	29MAY08																			
IM3025	Monitoring @ Cut Slope CCR-S2	363*	18APR06	03JUL07	16MAY08	15MAY08																			
IM3030	Install Instrumentation @ Cut Slope CCR-S3	12	20MAR06	01APR06	16MAY08	29MAY08																			
IM3035	Monitoring @ Cut Slope CCR-S3	387*	20MAR06	03JUL07	16MAY08	15MAY08																			
IM3050	Install Instrumentation @ Cut Slope CCR-S5	12	20MAR06	01APR06	16MAY08	29MAY08																			
IM3055	Monitoring @ Cut Slope CCR-S5	387*	20MAR06	03JUL07	16MAY08	15MAY08																			
IM3060	Install Instrumentation @ Cut Slope CCR-S6	12	20MAR06	01APR06	16MAY08	29MAY08																			
IM3065	Monitoring @ Cut Slope CCR-S6	387*	20MAR06	03JUL07	16MAY08	15MAY08																			
IM3080	Install Instrumentation @ Slope 11NW-A/C26	12	20MAR06	01APR06	16MAY08	29MAY08																			
IM3085	Monitoring @ Slope 11NW-A/C26	387*	20MAR06	03JUL07	16MAY08	15MAY08																			
IM3130	Install Instrumentation @ Piers P1 to P6	12	20MAR06	01APR06	16MAY08	29MAY08																			
IM3135	Monitoring @ Piers P1 to P6	387*	20MAR06	03JUL07	16MAY08	15MAY08																			
IM3140	Install Instrumentation @ Piers P7 to P10	12	20MAR06	01APR06	16MAY08	29MAY08																			
IM3145	Monitoring @ Piers P7 to P10	387*	20MAR06	03JUL07	16MAY08	15MAY08																			
IM3150	Install Instrumentation @ Piers P11 to P15	12	20MAR06	01APR06	16MAY08	29MAY08																			
IM3155	Monitoring @ Piers P11 to P15	387*	20MAR06	03JUL07	16MAY08	15MAY08																			
IM3160	Install Instrumentation @ Piers P16 to P18	12	20MAR06	01APR06	16MAY08	29MAY08																			
IM3165	Monitoring @ Piers P16 to P18	387*	20MAR06	03JUL07	16MAY08	15MAY08																			

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Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish	2006														
							MAR			APR			MAY			JUN					
							13	20	27	3	10	17	24	1	8	15	22	29	5	12	19
IM3170	Install Instrumentation @ Piers P19 to Abut. M	12	20MAR06	01APR06	16MAY08	29MAY08	IM3170														
IM3175	Monitoring @ Piers P19 to Abut. M	387*	20MAR06	03JUL07	16MAY08	15MAY08	IM3175														
IM3180	Install Instrumentation @ Piers on Slip Road A	12	20MAR06	01APR06	16MAY08	29MAY08	IM3180														
IM3185	Monitoring @ Piers on Slip Road A	387*	20MAR06	03JUL07	16MAY08	15MAY08	IM3185														
IM3190	Install Instrumentation @ Piers on Slip Road B	12	20MAR06	01APR06	16MAY08	29MAY08	IM3190														
IM3195	Monitoring @ Piers on Slip Road B	387*	20MAR06	03JUL07	16MAY08	15MAY08	IM3195														
IM3200	Install Instrumentation @ Piers on Slip Road C	12	20MAR06	01APR06	16MAY08	29MAY08	IM3200														
IM3205	Monitoring @ Piers on Slip Road C	387*	20MAR06	03JUL07	16MAY08	15MAY08	IM3205														
IM3210	Install Instrumentation @ Piers on Slip Road D	12	20MAR06	01APR06	16MAY08	29MAY08	IM3210														
IM3215	Monitoring @ Piers on Slip Road D	387*	20MAR06	03JUL07	16MAY08	15MAY08	IM3215														
Temporary Traffic Management Schemes																					
TT1245	30th. TMLG Meeting	1	17APR06	17APR06	05MAR05	05MAR05	TT1245														
TT1250	31st. TMLG Meeting	1	22MAY06	22MAY06	04FEB06	04FEB06	TT1250														
TT1255	32nd. TMLG Meeting	1	19JUN06	19JUN06	11MAR06	11MAR06	TT1255														
Procurement																					
Segmental Deck Casting (Type A Units)																					
SD2720	P20/L (North)-Down - Cast 13 seg Type A	22	09MAR06A	30MAR06	09MAR06A	04FEB06	SD2720														
SD2720A	P20/L (North)-Up - Cast first 6 seg Type A	9	12MAR06A	21MAR06	12MAR06A	11JAN06	SD2720A														
SD2715	P20/R (South)-Down - Cast 12 seg Type A	20	03MAR06A	23MAR06	03MAR06A	28JAN06	SD2715														
SD2710	P20/R (South)-Up - Cast 12 seg Type A	19	22MAR06	11APR06	12JAN06	04FEB06	SD2710														
SD2720B	P20/L (North)-Up - Cast last 7 seg Type A	14	24MAR06	08APR06	06FEB06	20FEB06	SD2720B														
SD2740A	P21/R (South)-Up - Cast 9 seg Type A	16	31MAR06	17APR06	06FEB06	22FEB06	SD2740A														
SD2740	P21/R (South)-Down - Cast 9 seg Type A	16	09APR06	26APR06	01MAR06	17MAR06	SD2740														
SD2730A	P21/L (North)-Up - Cast 8 seg Type A	15	12APR06	28APR06	23FEB06	11MAR06	SD2730A														
SD2730	P21/L (North)-Down - Cast 8 seg Type A	15	18APR06	05MAY06	23FEB06	11MAR06	SD2730														
SD2750	Abutment M/L (South) - Cast 5 seg Type A	12	27APR06	10MAY06	22MAR06	04APR06	SD2750														
SD2760	Abutment M/R (North) - Cast 4 seg Type A	9	29APR06	09MAY06	25MAR06	04APR06	SD2760														
Segmental Deck Casting (Type B Units)																					
SD3490A	P20 Slip C-Down - Cast 13 Segments Type B	20	04MAR06A	28MAR06	04MAR06A	22NOV05	SD3490A														
SD3480	P20 Slip D-Up - Cast 12 Segments Type B	19	03MAR06A	20MAR06	03MAR06A	19JAN06	SD3480														
SD3480A	P20 Slip D-Down - Cast 12 Segments Type B	19	06MAR06A	25MAR06	06MAR06A	11NOV05	SD3480A														
SD3290	PA/L (North) - Cast 8 seg Type B	16	03MAR06A	20MAR06	03MAR06A	25OCT05	SD3290														
SD3490	P20 Slip C-Up - Cast 13 Segments Type B	20	21MAR06	11APR06	20JAN06	14FEB06	SD3490														

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Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish	2006														
							MAR			APR			MAY			JUN					
							13	20	27	3	10	17	24	1	8	15	22	29	5	12	19
SD3380	D7-Up - Cast 12 segments Type B	19	21MAR06	10APR06	26OCT05	16NOV05	SD3380														
SD3380A	D7-Down - Cast 9 segments Type B	16	27MAR06	12APR06	12NOV05	29NOV05	SD3380A														
SD3370	D8-Up - Cast 12 Segments Type B	19	29MAR06	18APR06	23NOV05	14DEC05	SD3370														
SD3370A	D8-Down - Cast 12 Segments Type B	19	11APR06	03MAY06	17NOV05	07DEC05	SD3370A														
SD3500	P21 Slip C-Down - Cast 8 Segments Type B	15	11APR06	27APR06	07MAR06	22MAR06	SD3500														
SD3510	P21 Slip D-Down - Cast 8 Segments Type B	15	13APR06	29APR06	06MAR06	21MAR06	SD3510														
Precast Parapet Panel Casting																					
PP2000	CASTING Type I & VII Parapet Units 1 - 150	55	20OCT05A	06APR06	20OCT05A	19OCT05	PP2000														
PP2010	CASTING Type I & VII Parapet Units 151 - 350	35	07APR06	18MAY06	01NOV05	10DEC05	PP2010														
PP2020	CASTING Type I & VII Parapet Units 351 - 550	35	19MAY06	29JUN06	23DEC05	07FEB06	PP2020														
PP2110	CASTING Type II Parapet Units 266 - 515	55	11FEB06A	13APR06	11FEB06A	16NOV05	PP2110														
PP2120	CASTING Type II Parapet Units 516 - 765	45	14APR06	06JUN06	17NOV05	10JAN06	PP2120														
PP2130	CASTING Type II Parapet Units 766 - 1099	60	07JUN06	18AUG06	11JAN06	24MAR06	PP2130														
PP2200	CASTING Type III Parapet Units 1 - 22	22	20MAR06	14APR06	23SEP05	20OCT05	PP2200														
PP2300	CASTING Type IV Parapet Units 1 - 227	80	20OCT05A	10JUN06	20OCT05A	15OCT05	PP2300														
PP2310	CASTING Type IV Parapet Units 228 - 455	75	12JUN06	09SEP06	17OCT05	13JAN06	PP2310														
PP2400	CASTING Type V & VI Parapet Units 1 - 260	65	21OCT05A	04MAY06	21OCT05A	13OCT05	PP2400														
PP2410	CASTING Type V & VI Parapet Units 2611 - 520	65	05MAY06	21JUL06	14OCT05	29DEC05	PP2410														
PP2420	CASTING Type V & VI Parapet Units 521 - 780	65	19MAY06	05AUG06	28OCT05	13JAN06	PP2420														
Noise Barriers & Enclosures																					
NB1020	Noise Encl' - Slip Rd A - Eng. Review & Approval	28	20MAR06	16APR06	24OCT05	20NOV05	NB1020														
NB1030	Noise Encl' - Slip Rd A - Materials Purchasing	23	28FEB06A	21MAR06	28FEB06A	28SEP05	NB1030														
NB1040	Noise Encl' - Slip Rd A - Off-site Fabrication	64	22MAR06	06JUN06	29SEP05	14DEC05	NB1040														
NB1050	Noise Encl' - Slip Rd A - Delivery to Site	45	26APR06	17JUN06	04NOV05	27DEC05	NB1050														
NB1070	Erection of Noise barrier Mock Up Sample	18	04MAY06	24MAY06	14NOV05	03DEC05	NB1070														
NB1110	Noise Encl' - Slip Rd B - Eng. Review & Approval	28	20MAR06	16APR06	26NOV05	23DEC05	NB1110														
NB1120	Noise Encl' - Slip Rd B - Materials Purchasing	26	20MAR06	21MAR06	29SEP05	30SEP05	NB1120														
NB1130	Noise Encl' - Slip Rd B - Off-site Fabrication	70	22MAR06	13JUN06	03OCT05	23DEC05	NB1130														
NB1140	Noise Encl' - Slip Rd B - Delivery to Site	65	27APR06	14JUL06	08NOV05	24JAN06	NB1140														
NB1200	Noise Encl' - P8 to P11 - Design & Shop Drawings	74	10SEP05A	19MAY06	10SEP05A	08NOV05	NB1200														
NB1210	Noise Encl' - P8 to P11 - Eng. Review & Approval	28	20MAY06	16JUN06	09NOV05	06DEC05	NB1210														
NB1220	Noise Encl' - P8 to P11 - Materials Purchasing	30	28FEB06A	20APR06	28FEB06A	27SEP05	NB1220														
NB1230	Noise Encl' - P8 to P11 - Off-site Fabrication	78	21APR06	24JUL06	28SEP05	30DEC05	NB1230														

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Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish	2006														
							MAR			APR			MAY			JUN					
							13	20	27	3	10	17	24	1	8	15	22	29	5	12	19
NB1240	Noise Encl' - P8 to P11 - Delivery to Site	41	13JUN06	02AUG06	21NOV05	09JAN06													NB1240		
NB1300	Noise Encl' - ENT Approach - Design & Shop Dwgs.	23	07JUL05A	24MAR06	07JUL05A	15NOV05		NB1300													
NB1310	Noise Encl' - ENT Approach - Eng. Review & Appro	28	25MAR06	21APR06	16NOV05	13DEC05					NB1310										
NB1320	Noise Encl' - ENT Approach - Material Purchasing	27	28FEB06A	10MAY06	28FEB06A	29OCT05							NB1320								
NB1330	Noise Encl' - ENT Approach - Off-site Fabricat'n	57	11MAY06	18JUL06	31OCT05	06JAN06							NB1330								
NB1340	Noise Encl' - ENT Approach - Delivery to Site	41	15JUN06	04AUG06	05DEC05	23JAN06												NB1340			
NB2000	Noise Barriers - PA to P4 - Design & Shop Dwgs.	147	19AUG05A	29MAR06	19AUG05A	24JUN06			NB2000												
NB2010	Noise Barriers - PA to P4 - Eng. Review & Appro'	28	30MAR06	26APR06	25JUN06	22JUL06							NB2010								
NB2020	Noise Barriers - PA to P4 - Materials Purchasing	39	28FEB06A	20APR06	28FEB06A	22MAR06					NB2020										
NB2030	Noise Barriers - PA to P4 - Off-site Fabrication	120	21APR06	12SEP06	23MAR06	15AUG06					NB2030										
NB2100	Noise Barriers - P5 to P8 - Design & Shop Dwgs.	147	05SEP05A	22MAR06	05SEP05A	11JUL06		NB2100													
NB2110	Noise Barriers - P5 to P8 - Eng. Review & Appro'	47	23MAR06	08MAY06	12JUL06	27AUG06								NB2110							
NB2120	Noise Barriers - P5 to P8 - Materials Purchasing	40	28FEB06A	20APR06	28FEB06A	11MAY06							NB2120								
NB2130	Noise Barriers - P5 to P8 - Off-site Fabrication	110	21APR06	31AUG06	12MAY06	20SEP06							NB2130								
NB2200	Noise Barriers - P11 to P13 - Design & Shop Dwgs	82	20JUL05A	29APR06	20JUL05A	12JUN06								NB2200							
NB2210	Noise Barriers - P11 to P13 -Eng Review & Approv	28	30APR06	27MAY06	13JUN06	10JUL06									NB2210						
NB2220	Noise Barriers - P11 to P13 - Materials Purchase	28	28FEB06A	10MAY06	28FEB06A	21JUN06								NB2220							
NB2230	Noise Barriers - P11 to P13 - Off-site Fabric'n	35	11MAY06	21JUN06	22JUN06	03AUG06								NB2230							
NB2300	Noise Barriers - ENT Approach -Des'n & Shop Dwgs	82	24AUG05A	12APR06	24AUG05A	03JUL06								NB2300							
NB2310	Noise Barriers - ENT Approach -Eng Rev & Approv	28	13APR06	10MAY06	04JUL06	31JUL06									NB2310						
NB2320	Noise Barriers - ENT Approach -Material Purchase	65	28FEB06A	30MAY06	28FEB06A	27JUN06										NB2320					
NB2330	Noise Barriers - ENT Approach -Off-site Fabric'n	48	31MAY06	27JUL06	28JUN06	24AUG06										NB2330					
NB2400	Noise Barriers - Slip Rd. C - Design & Shop Dwgs	10	20MAR06	30MAR06	20MAY06	31MAY06									NB2400						
NB2410	Noise Barriers - Slip Rd. C - Eng Rev & Approv	28	31MAR06	27APR06	01JUN06	28JUN06									NB2410						
NB2420	Noise Barriers - Slip Rd. C - Material Purchase	29	28FEB06A	20APR06	28FEB06A	06JUN06									NB2420						
NB2430	Noise Barriers - Slip Rd.C - Off-site Fabricat'n	38	21APR06	05JUN06	07JUN06	22JUL06											NB2430				
NB2440	Noise Barriers - Slip Rd. C - Delivery to Site	17	25MAY06	13JUN06	20JUL06	09AUG06												NB2440			
NB2500	Noise Barriers - Slip Rd. D - Design & Shop Dwgs	82	11JUL05A	22MAR06	11JUL05A	10MAY06								NB2500							
NB2510	Noise Barriers - Slip Rd. D - Eng Rev & Approv	125	23MAR06	25JUL06	11MAY06	12SEP06															
NB2520	Noise Barriers - Slip Rd. D - Material Purchase	90	28FEB06A	20MAY06	28FEB06A	21AUG06												NB2520			
Bearings																					
BE1040	Shipping of Bearings to Site	72	12JAN05A	12APR06	12JAN05A	31MAR05															

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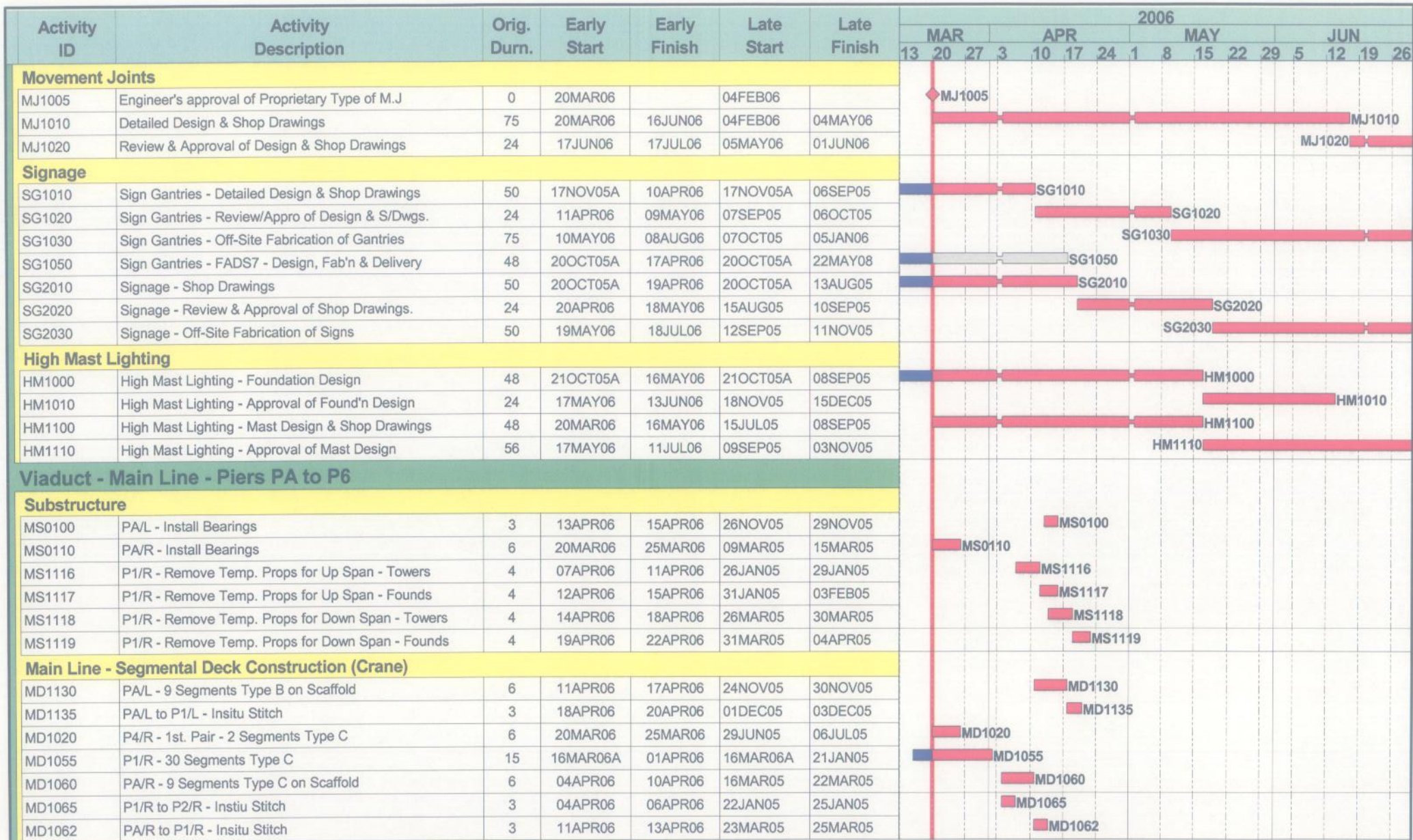
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Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish	2006																		
							MAR			APR			MAY			JUN									
							13	20	27	3	10	17	24	1	8	15	22	29	5	12	19	26			
Main Line - Segmental Deck Const'n (Lift Frames)																									
MD1036	P2/R to P3/R - Insitu Stitch	3	20MAR06	22MAR06	14NOV05	16NOV05																			
MD1025	P4/R - 28 Segments Type C	13	27MAR06	11APR06	07JUL05	21JUL05																			
MD1033	P4/R to P5/R - Insitu Stitch	3	12APR06	14APR06	28NOV05	30NOV05																			
MD1034	P3/R to P4/R - Insitu Stitch	3	12APR06	14APR06	17OCT05	19OCT05																			
Superstructure Finishing Works Required for TCSS																									
MF1005	P3L to P6 - Parapets P3/L to P7/L (incl earthing)	48	05MAY06	30JUN06	21NOV05	17JAN06																			
MF1000	PA to P6 - Parapets PA/L to P3/L (incl earthing)	48	21APR06	16JUN06	05DEC05	03FEB06																			
MF1010	PA to P6 - Parapets PA/R to P3/R (incl earthing)	48	15APR06	10JUN06	20OCT05	14DEC05																			
MF1015	PA to P6 - Insitu Slab to Under Median Barrier	36	20MAR06	02MAY06	14NOV05	24DEC05																			
MF1017	PA to P6 - Median Barrier (incl earthing)	36	11APR06	23MAY06	05DEC05	17JAN06																			
Viaduct - Slip Road A																									
Substructure																									
AS1050	Abutment A - Install Bearings	2	20MAR06	21MAR06	09NOV06	10NOV06																			
Superstructure Finishing Works Required for TCSS																									
AF1010	Slip Rd.A to P7 -Parapets East Face (incl earth)	60	06JAN06A	18APR06	06JAN06A	10NOV05																			
AF1020	Slip Rd.A to P7- Parapets West Face (incl earth)	60	17JAN06A	24APR06	17JAN06A	23NOV05																			
Noise Barriers & Encl' (Sec.15 Excision)																									
AN1000	Slip Rd. A - Full Enclosure Ch.1070 - Pier A2	48	04MAY06	29JUN06	11NOV05	07JAN06																			
AN1010	Slip Rd. A - Full Enclosure Pier A2 - 1280	48	10JUN06	08AUG06	19DEC05	17FEB06																			
Viaduct - Slip Road B																									
Superstructure Finishing Works Required for TCSS																									
BF1010	Slip Rd.B to P7 - Parapets East Face (incl earth)	60	11APR06	21JUN06	08OCT05	17DEC05																			
BF1015	Slip Rd.B to P7 - Parapets West Face (incl earth)	60	24MAY06	04AUG06	24NOV05	07FEB06																			
Remaining Noise Barriers & Enclosures																									
BN1000	Slip Road B - Full Enclosure Ch.1038 - Pier B2	48	17MAY06	13JUL06	14NOV05	10JAN06																			
BN1005	Slip Road B - Full Enclosure Pier B2 - Ch. 1258	48	14JUN06	11AUG06	12DEC05	10FEB06																			
At Grade Works - Lai Po Road																									
Temporary Traffic Management Schemes																									
WT3140	Divert N/B & S/B Traffic to Divs'n No.1 (for B3)	1	20MAR06	20MAR06	29MAY08	29MAY08																			
WT3250	4th. TTMS Lai Po Rd (P4R,P5R,B4) -Implementation	61*	02FEB06A	14APR06	02FEB06A	30NOV05																			
WT3300	5th. TTMS Lai Po Rd (for N/B C/W)-Prepare Review	18	20MAR06	10APR06	12FEB05	04MAR05																			

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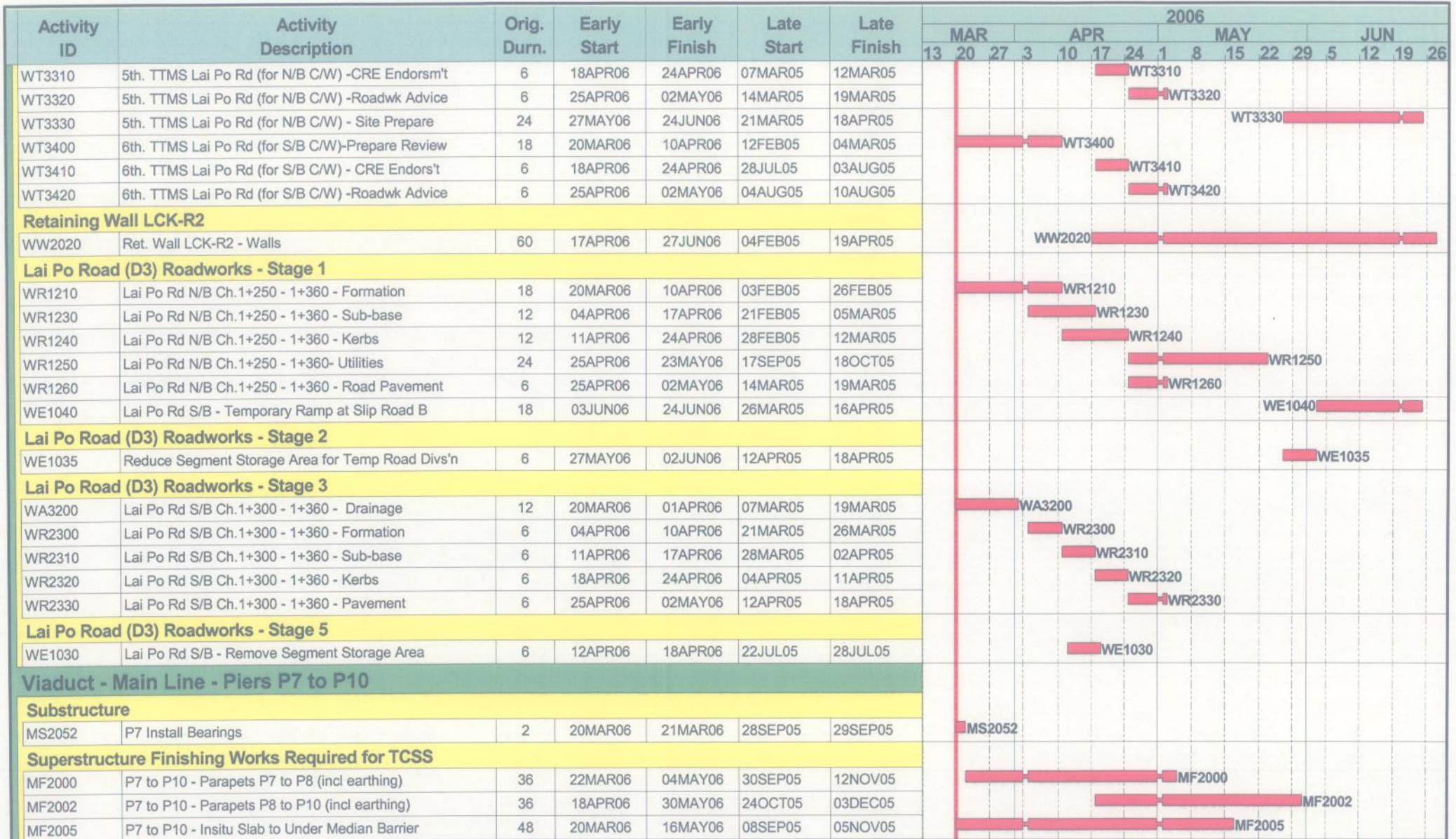
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							MAR			APR			MAY			JUN					
							13	20	27	3	10	17	24	1	8	15	22	29	5	12	19
MF2007	P7 to P10 - Median Barrier (incl earthing)	48	18APR06	13JUN06	08OCT05	03DEC05	MF2007														
Remaining Superstructure Finishing Works																					
MF2040	P7 to P10 - Deck Drainage	48	14JUN06	11AUG06	26SEP06	23NOV06	MF2040														
At Grade Works - Lai Chi Kok Interchange																					
Temporary Traffic Management Schemes																					
MT1300	2nd. TTMS Butterfly Valley Rd-Prepare for Review	12	20MAR06	01APR06	19FEB05	04MAR05	MT1300														
MT1310	2nd. TTMS Butterfly Valley Rd - CRE Endorsement	6	18APR06	24APR06	16JUN05	22JUN05	MT1310														
MT1320	2nd. TTMS Butterfly Valley Rd - Roadworks Advice	6	25APR06	02MAY06	23JUN05	29JUN05	MT1320														
MT1330	2nd. TTMS Butterfly Valley Rd - Prepare	18	03MAY06	23MAY06	30JUN05	21JUL05	MT1330														
MT1400	3rd TTMS Butterfly Valley Rd -Prepare for Review	12	20MAR06	01APR06	12FEB05	25FEB05	MT1400														
MT1410	3rd. TTMS Butterfly Valley Rd - CRE Endorsement	6	18APR06	24APR06	10SEP05	16SEP05	MT1410														
MT1420	3rd. TTMS Butterfly Valley Rd - Roadworks Advice	6	25APR06	02MAY06	17SEP05	24SEP05	MT1420														
MT1430	3rd. TTMS Butterfly Valley Rd - Prepare	24	03MAY06	30MAY06	26SEP05	25OCT05	MT1430														
MT2070	TTMS Case No.027 (P7 Piling) - Implementation	563*	03JUN04A	17APR06	03JUN04A	18JAN06	MT2070														
MT2140	TTMS for Pier P8/L - Implementation	641*	23FEB04A	08APR06	23FEB04A	11NOV05	MT2140														
MT3100	2nd. TTMS Kom Tsun Street - Prepare for Review	12	20MAR06	01APR06	19FEB05	04MAR05	MT3100														
MT3110	2nd. TTMS Kom Tsun Street - CRE Endorsement	6	04APR06	10APR06	23MAY05	28MAY05	MT3110														
MT3120	2nd. TTMS Kom Tsun Street - Roadworks Advice	6	11APR06	17APR06	30MAY05	04JUN05	MT3120														
MT3130	2nd. TTMS Kom Tsun Street - Site Preparation	20	18APR06	11MAY06	06JUN05	29JUN05	MT3130														
MT3140	2nd. TTMS Kom Tsun Street - Implementation	117*	15MAY06	03OCT06	14SEP05	18NOV05	MT3140														
MT3200	3rd. TTMS Kom Tsun Street - Prepare for Review	12	20MAR06	01APR06	12FEB05	25FEB05	MT3200														
MT3210	3rd. TTMS Kom Tsun Street - CRE Endorsement	6	04APR06	10APR06	03OCT05	08OCT05	MT3210														
MT3220	3rd. TTMS Kom Tsun Street - Roadworks Advice	6	11APR06	17APR06	10OCT05	17OCT05	MT3220														
MT3230	3rd. TTMS Kom Tsun Street - Site Preparation	28	18APR06	20MAY06	18OCT05	18NOV05	MT3230														
Drainage Works																					
SA5000	Butterfly Valley Rd Stage1 - Stormwater Drainage	54	15JUN05A	06MAY06	15JUN05A	23MAY05	SA5000														
SA2000	Kom Tsun St. & Bus Terminal - St/water Drainage	54	14FEB05A	13MAY06	14FEB05A	29JUN05	SA2000														
Utilities & Roadworks																					
SR4000	Kwai Chung Road (Pier 7) - Reinstatement	24	20MAR06	17APR06	20DEC05	18JAN06	SR4000														
SR2000	Castle Peak Road - Roadworks Reinstatement	17	20MAR06	08APR06	24OCT05	11NOV05	SR2000														
SR5000	Butterfly V. Rd (LCKI) Stage1-Excav. & Formation	36	08APR06	20MAY06	25APR05	06JUN05	SR5000														
SR5010	Butterfly V. Rd (LCKI) Stage 1 - Sub-base	36	22APR06	03JUN06	10MAY05	21JUN05	SR5010														
SR5020	Butterfly V. Rd (LCKI) Stage 11 - Kerbs	24	22MAY06	17JUN06	07JUN05	06JUL05	SR5020														

Start Date 23SEP03
 Finish Date 29MAY08
 Data Date 20MAR06

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



Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish	2006															
							MAR			APR			MAY			JUN						
							13	20	27	3	10	17	24	1	8	15	22	29	5	12	19	26
SR5030	Butterfly V. Rd (LCKI) Stage 1 - Pavement	9	19JUN06	29JUN06	07JUL05	16JUL05																
SR3200	Kom Tsun Street Bus Stn. - Excavate & Formation	18	15MAY06	03JUN06	30JUN05	21JUL05																
SR3210	Kom Tsun Street bus Stn. - Sub-base	18	29MAY06	17JUN06	15JUL05	04AUG05																
SR3220	Kom Tsun Street Bus Stn. - Kerbs	24	12JUN06	11JUL06	29JUL05	25AUG05																
SR3000	Kom Tsun Street L/H C/Way - Excavate & Formation	12	15MAY06	27MAY06	14SEP05	28SEP05																
SR3010	Kom Tsun Street L/H C/Way - Sub-base	12	29MAY06	10JUN06	29SEP05	14OCT05																
SR3020	Kom Tsun Street L/H C/Way - Kerbs	18	12JUN06	04JUL06	15OCT05	04NOV05																
Viaduct - Main Line - Piers P11 to P15																						
Substructure																						
MS3115	P12 - Bearings	7	20MAR06	27MAR06	29SEP05	07OCT05																
Superstructure Finishing Works Required for TCSS																						
MF3000	P11 to P15 - Parapets P10 to P12 (incl earthing)	30	28MAR06	03MAY06	08OCT05	12NOV05																
MF3005	P11 to P15 - Parapets P12 to P14 (incl earthing)	24	04MAY06	31MAY06	14NOV05	10DEC05																
MF3010	P11 to P15 - Parapets P14 to P16 (incl earthing)	24	01JUN06	29JUN06	12DEC05	10JAN06																
MF3015	P11 to P15 - Insitu Slab to Under Median Barrier	48	20MAR06	16MAY06	08SEP05	05NOV05																
MF3017	P11 to P15 - Median Barrier (incl earthing)	48	18APR06	13JUN06	08OCT05	03DEC05																
MF3020	P11 to P15 - Provision for E & M and TCSS	24	14JUN06	13JUL06	18JAN06	17FEB06																
Remaining Superstructure Finishing Works																						
MF3040	P11 to P15 - Deck Drainage	72	17MAY06	11AUG06	29AUG06	23NOV06																
At Grade Works - Wai Man Tsuen																						
Temporary Traffic Management Schemes																						
VT2000	Temporary Slow Lane on Top of Slope CCR-R5	12	07APR06	20APR06	22JUL05	04AUG05																
VT2010	B.V. Rd - Divert Traffic to Slow & Fast Lanes	1	21APR06	21APR06	05AUG05	05AUG05																
VT2200	TTMS Slip Rd D Deck@ CC Rd W/B-Prepare for Review	18	20MAR06	10APR06	12FEB05	04MAR05																
VT2210	TTMS Slip Rd D Deck@ CC Rd W/B -CRE Endorsement	6	18APR06	24APR06	09NOV05	15NOV05																
VT2220	TTMS Slip Rd D Deck@ CC Rd W/B -Roadworks Advice	12	25APR06	09MAY06	16NOV05	29NOV05																
VT2230	TTMS Slip Rd D Deck@ CC Rd W/B -Site Preparation	6	10MAY06	16MAY06	30NOV05	06DEC05																
VT2240	TTMS Slip Rd D Deck@ CC Rd W/B - Implementation	22*	10JUN06	07JUL06	07DEC05	03JAN06																
Earthworks & Slope Works																						
VE1040	Slope CCR-S5 - Compacted Filling	24	27FEB06A	06APR06	27FEB06A	21JUL05																
VE1060	Slope CCR-S5 - Slope Drainage & Finishes	24	07APR06	05MAY06	01NOV05	28NOV05																
VE1070	Slope CCR-S5 - Landscaping & Hydroseeding	12	28APR06	12MAY06	22NOV05	05DEC05																

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



Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	Late Start	Late Finish	2006																		
							MAR			APR			MAY			JUN									
							13	20	27	3	10	17	24	1	8	15	22	29	5	12	19	26			
Earthworks & Slope Works - 11NW-A/C678 & CR679																									
VE2025	Slope 11NW-A/C678 & CR679 - Platform for S.Nails	3	20MAR06	22MAR06	25NOV05	28NOV05																			
VE2027	Slope 11NW-A/C678 & CR679 - Test Soil Nail	6	23MAR06	29MAR06	29NOV05	05DEC05																			
VE2030	Slope 11NW-A/C678 & CR679 - Soil Nails	18	30MAR06	20APR06	06DEC05	27DEC05																			
VE2000	Slope 11NW-A/C678 & CR679 - Remove Temp Platform	6	10JUN06	16JUN06	28DEC05	04JAN06																			
VE2020	Slope 11NW-A/C678 & CR679 - Trim Original Slope	6	17JUN06	24JUN06	05JAN06	11JAN06																			
Drainage Works																									
VA1000	Butterfly Valley Rd Stage3 - Stormwater Drainage	48	22APR06	17JUN06	06AUG05	03OCT05																			
Utilities & Roadworks																									
VR3000	Drainage Maintenance Access Rd. - Formation	24	02MAR06A	17APR06	02MAR06A	07NOV05																			
VR3010	Drainage Maintenance Access Rd. - Sub-base	24	27MAR06	24APR06	18OCT05	14NOV05																			
VR3020	Drainage Maintenance Access Rd. - Kerbs	24	04APR06	02MAY06	25OCT05	21NOV05																			
VR3030	Drainage Maintenance Access Rd. - Pavement	48	04APR06	30MAY06	22NOV05	18JAN06																			
VR3040	Drainage Maintenance Access Rd. - Street Lights	12	17MAY06	30MAY06	05JAN06	18JAN06																			
VR2100	Butterfly V. Rd (WMT) Stage3- Excav. & Formation	18	05JUN06	26JUN06	17SEP05	10OCT05																			
VR2110	Butterfly V. Rd (WMT) Stage 3 - Sub-base	18	12JUN06	04JUL06	26SEP05	18OCT05																			
VR2120	Butterfly V. Rd (WMT) Stage 3 - Kerbs	18	19JUN06	11JUL06	04OCT05	25OCT05																			
Wai Man Tsuen Fire Hydrant Pump House																									
VH1000	Wai Man Tsuen F/H Pump House - Plate Load Test	6	20MAR06	25MAR06	28MAR06	04APR06																			
VH1010	Wai Man Tsuen F/H Pump House - Structure	60	03MAY06	13JUL06	05APR06	14JUN06																			
VH2000	Fire Main - Pipework Along Maintenance Road	18	20MAR06	10APR06	10OCT05	31OCT05																			
VH2005	Fire Main - Pipework to Piers P10/R & P14	18	11APR06	02MAY06	04JAN06	24JAN06																			
VH2010	Fire Main - Valves & Connections	18	03MAY06	23MAY06	25JAN06	17FEB06																			
Landscape Works																									
VX1000	Landscaping - Earthworks & Formation	24	03MAY06	30MAY06	22NOV05	19DEC05																			
VX1040	Landscaping - Soiling & Planting	24	31MAY06	28JUN06	20DEC05	18JAN06																			
Viaduct - Main Line - Piers P16 to P18																									
Substructure																									
MS4055	P16/L - Install Bearings	6	20MAR06	25MAR06	04JAN06	10JAN06																			
MS4115	P16/R - Install Bearings	6	20MAR06	25MAR06	05DEC05	10DEC05																			
MS4225	P17/L & P17/R - Cure & Strike Form/Falsework	24	21DEC05A	23MAR06	21DEC05A	20JUN05																			

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Data Date

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Highways Department Contract No. HY/2003/01
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3 Month Rolling Programme
from 20 March 2006



**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	<ul style="list-style-type: none"> AM2 (Lai Chi Kok Park Sports Centre) 	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> NM2 (Lai Chi Kok Reception Centre)⁽²⁾ NM3 (Lai Chi Kok Hospital)⁽³⁾ NM4 (Mei Foo Sun Chuen, Phase 5) NM8a (M/F of Nob Hill) NM8b (3/F of Nob Hill) NM9 (Hoi Lai Estate) 	<ul style="list-style-type: none"> 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
	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⁾ – Renovation work was undertaken at the Lai Chi Kok Reception Centre (NM2) and the centre was found vacated. The noise monitoring was suspended since December 2004. Approval for the change of EM&A Programme was granted by EPD on 30 December 2004.

⁽³⁾ - 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, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
AM2	301	500

24-Hour TSP

Location	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
AM2	177	260

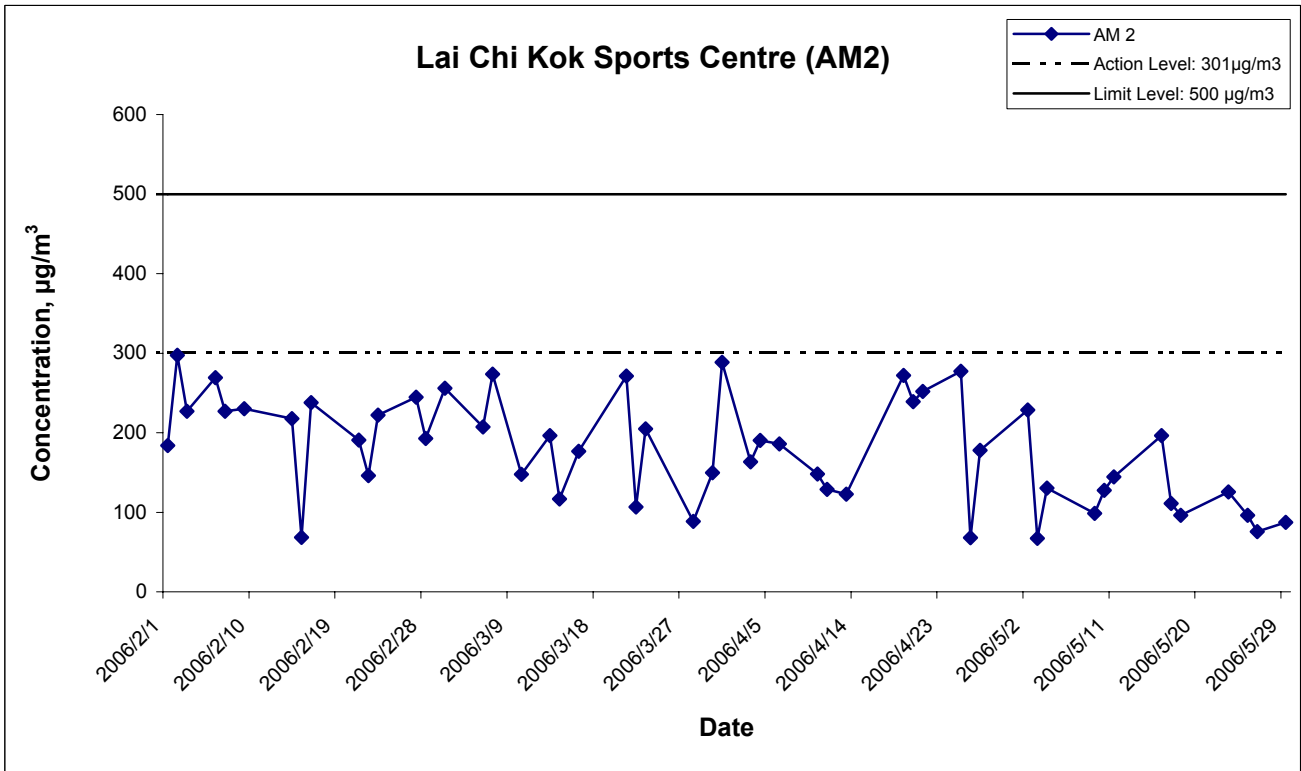
Construction Noise

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

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

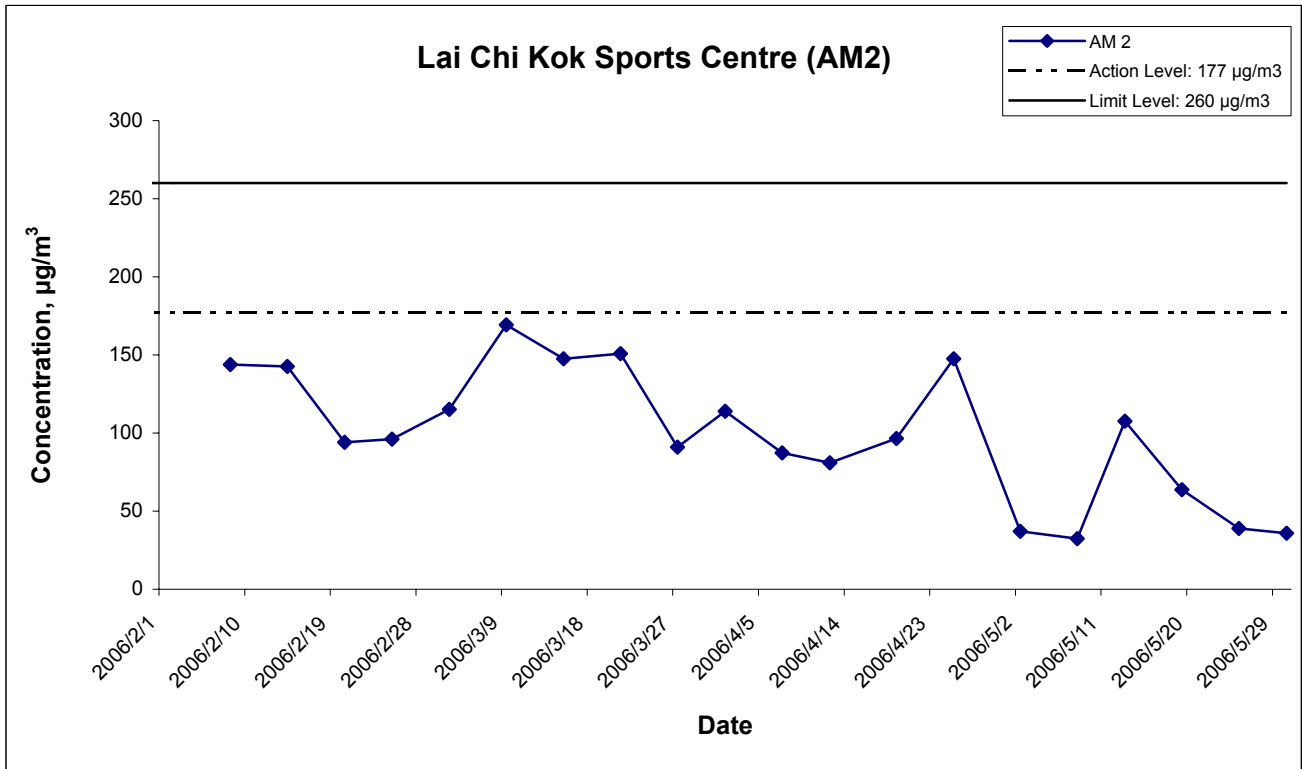
**APPENDIX E
GRAPHICAL PRESENTATION OF AIR
QUALITY MONITORING RESULTS**

1-hr TSP Levels



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

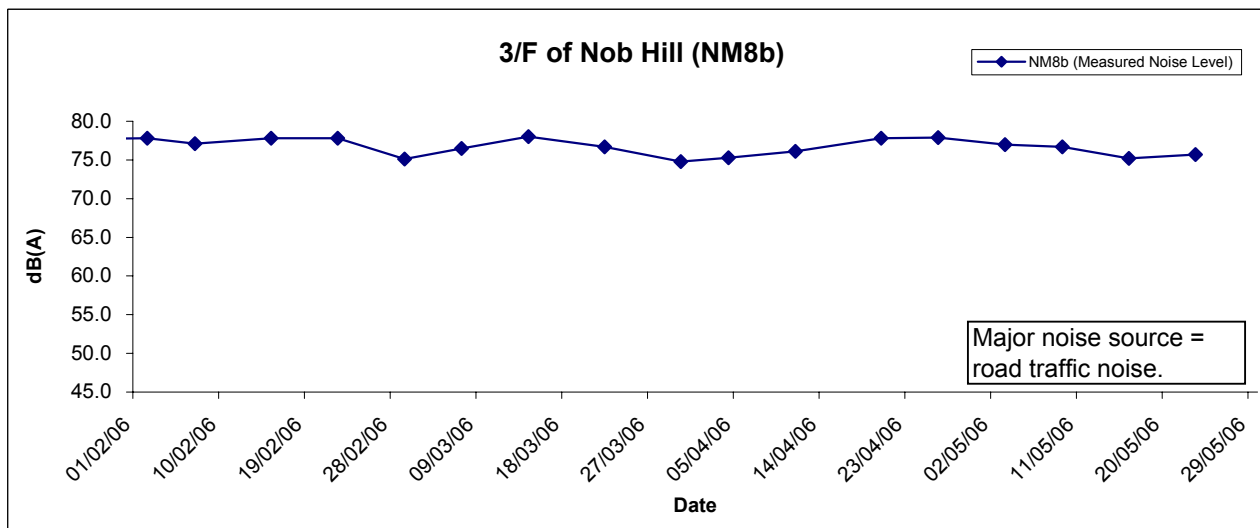
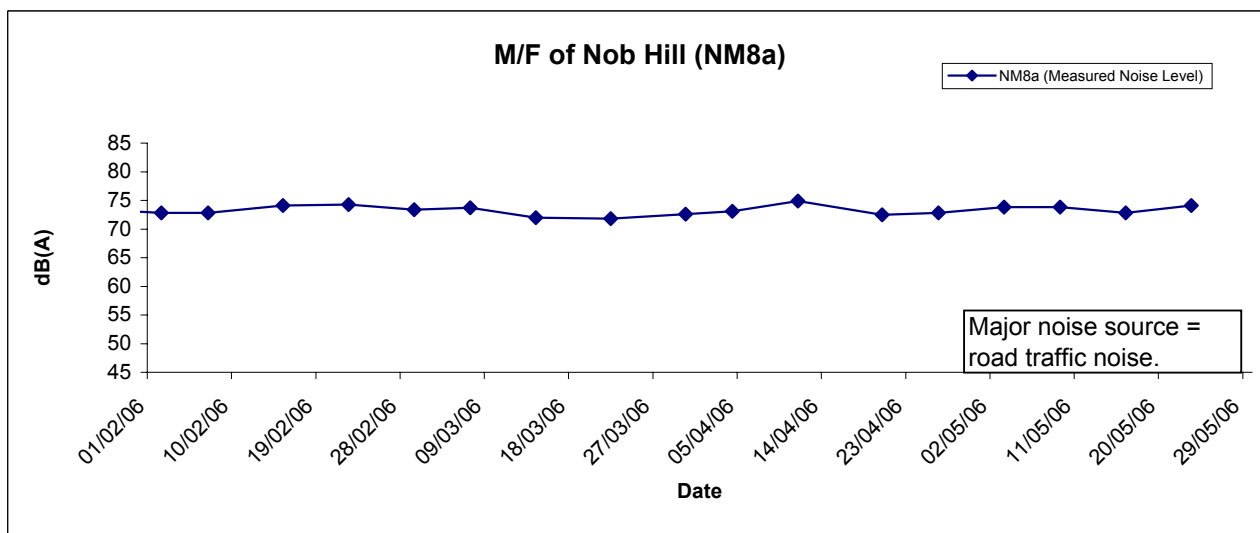
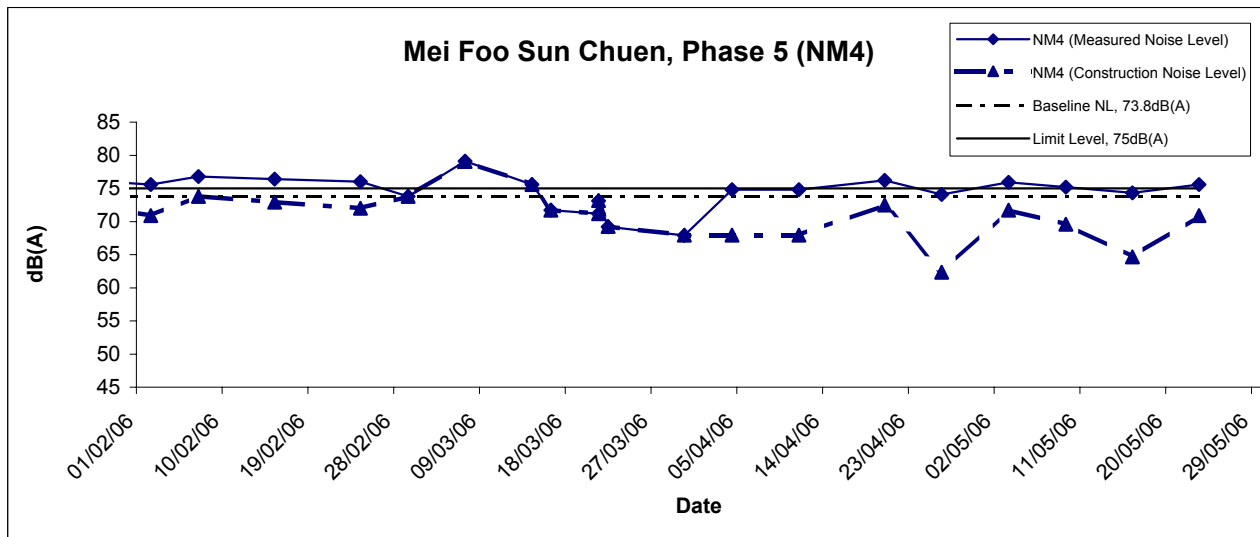
24-hr TSP Levels



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	Project No. MA3024	
	Date May 06	Appendix E	

**APPENDIX F
GRAPHICAL PRESENTATION OF
NOISE MONITORING RESULTS**

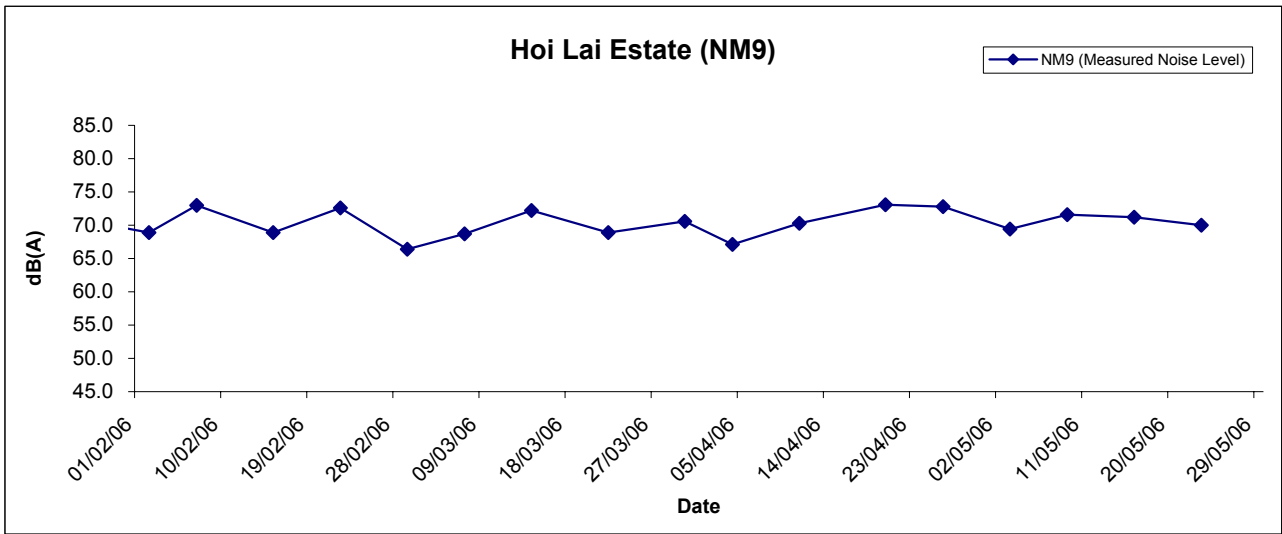
Noise Levels



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

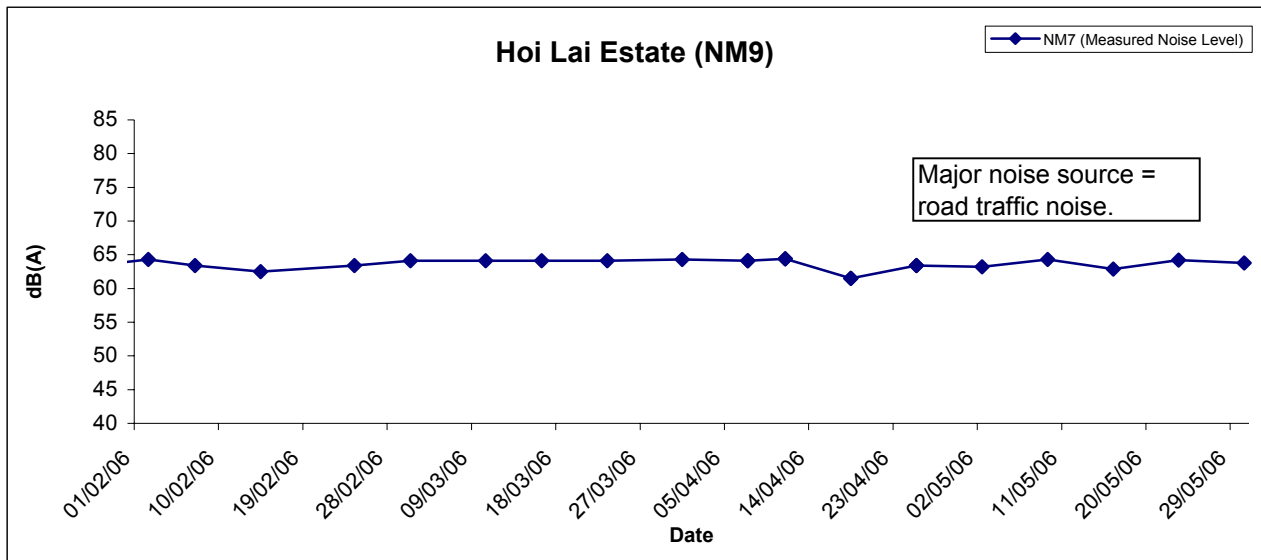
Title Route 8 (previously known as Route 9) between Cheung Sha Wan and Sha Tin Contract HY/2003/01 - Lai Chi Kok Viaduct Graphical Presentation of Construction Noise Monitoring Results	Scale	Project No.	
	Date	Appendix F	
	N.T.S	MA3024	
	May 06		

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	Project No. MA3024	CINOTECH
	Date May 06	Appendix F	

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	Project No. MA3024	
	Date May 06	Appendix F	

**APPENDIX G
IMPLEMENTATION SCHEDULE OF
ENVIRONMENTAL MITIGATION
MEASURES (EMIS)**

Appendix G - Summary of Environmental Mitigation Implementation Schedule

Types of Impacts	Mitigation Measures	Status
Construction Dust	<ul style="list-style-type: none"> • 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 by 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. 	<p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p>
Construction Noise	<ul style="list-style-type: none"> • 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 known 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 quiet plant and Working Method 	<p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p>

Types of Impacts	Mitigation Measures	Status
	<ul style="list-style-type: none"> • Reduce the number of plant operating in critical areas close NSRs. • Construct temporary and movable noise barriers 	<p style="text-align: center;">^</p> <p style="text-align: center;">^</p>
Water Quality	<i>Construction Runoff and Drainage</i>	
	<ul style="list-style-type: none"> • 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. 	<p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p>
	<i>Tunnelling Work</i>	
	<ul style="list-style-type: none"> • 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. • 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. 	<p style="text-align: center;">N/A</p> <p style="text-align: center;">N/A</p>

Types of Impacts	Mitigation Measures	Status
	<ul style="list-style-type: none"> • Spent 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
	<i>General Construction Activities</i>	
	<ul style="list-style-type: none"> • 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). 	^
	<i>Sewage Effluent</i>	
	<ul style="list-style-type: none"> • Construction work force sewage discharges from 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 from 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	<i>General</i>	
	<ul style="list-style-type: none"> • 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. 	^
	<i>Storage, Collection and Transportation of Waste</i>	
	<ul style="list-style-type: none"> • 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. 	^ ^ ^ ^ ^ ^ ^
	<ul style="list-style-type: none"> • Maintain records of the quantities of wastes generated, recycled and disposed. 	^

Types of Impacts	Mitigation Measures	Status
	<i>Surplus Excavated Materials</i>	
	<ul style="list-style-type: none"> • 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. 	^
	<i>Construction and Demolition (C&D) Waste</i>	
	<ul style="list-style-type: none"> • 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 ^
	<i>Chemical Waste</i>	
	<ul style="list-style-type: none"> • 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: <ol style="list-style-type: none"> 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: <ol style="list-style-type: none"> 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). 	^ ^ ^ ^
	<i>General Refuse</i>	

Types of Impacts	Mitigation Measures	Status
	<ul style="list-style-type: none"> • 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. 	<p style="text-align: center;">^</p> <p style="text-align: center;">N/A</p>
Ecology	<ul style="list-style-type: none"> • A sediment barrier shall be erected to minimize stream sedimentation at downstream of the project boundary of the Toll Plaza. • Conduct a tree survey before commencement of the construction work. • 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. • Loss of the adjacent woodland due to temporary land take shall be returned to the original status immediately. • Wild and uncontrolled fire shall be strictly prohibited • 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. 	<p style="text-align: center;">N/A</p> <p style="text-align: center;">^</p> <p style="text-align: center;">N/A</p> <p style="text-align: center;">N/A</p> <p style="text-align: center;">^</p> <p style="text-align: center;">N/A</p>
Landscape and Visual Impact	<ul style="list-style-type: none"> • Landscape mitigation measure 1 (LMM1) – Construction programming and management. The periphery of the works areas at street level shall be managed so that they do not appear cluttered, untidy and unattractive and inconvenient to pedestrians. For example, all hoarding shall be colorfully designed with interesting motifs demonstrating the work of Highways Department. Hoardings with bland colours shall be avoided. • Landscape 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. • Measurement of vibration would also be carried out on a need basis during the piling work 	<p style="text-align: center;">N/A</p> <p style="text-align: center;">N/A</p> <p style="text-align: center;">^</p>

Remarks:

^
N/A

Compliance of mitigation measure;
Not Applicable;

X
•

Non-compliance of mitigation measure;
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	<p><u>Construction and operation of</u></p> <p>(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;</p> <p>(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;</p> <p>(c) The permanent slope works above the northern portal of the Eagle's Nest Tunnel;</p> <p>(d) The architectural works (including fitting out and furnishings) of the portal buildings of the Sha Tin Heights Tunnel.</p>	Valid
Registration of Chemical Waste Producer				
WPN 5213-261-N2413-0 4	17/11/03	N/A	N/A	Valid
Water Discharge Licence				
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-RW0563-05	02/09/05	01/03/06	<p><i>Location:</i> Ching Cheung Road near Mei Foo Sun Chuen</p> <p><i>Time Period:</i> General holidays (including Sundays) between 0700-2300 hours and any other days between 1900-2300 hours</p>	Expired
GW-RW0648-05	07/10/05	06/04/06	<p><i>Location:</i> Junction of Ching Cheung Road and Castle Peak Road</p> <p><i>Time Period:</i> General holidays (including Sundays) between 0700-2300 hours and any other days between 1900-2300 hours</p>	Expired
GW-RW0662-05	17/10/05	16/03/06	<p><i>Location:</i> Junction of Ching Cheung Road and Castle Peak Road</p> <p><i>Time Period:</i> Any day not being a general holiday between 2100-0700 hours</p>	Expired
GW-RW0699-05	7/11/05	5/5/06	<p><i>Location:</i> Lai Po Road near West Kowloon Highway</p> <p><i>Time Period:</i> Any day not being a general holiday between 2100-0700 hours</p>	Expired
GW-RW0716-05	9/11/05	31/3/06	<p><i>Location:</i> Kwai Chung Road and Butterfly Valley Road</p> <p><i>Time Period:</i> Whole day of general holidays (including Sundays) and any other days between 1900-0700 hours on next day</p>	Expired

Permit No.	Valid Period		Details	Status
	From	To		
GW-RW0738-05 (replaced by GW-RW0270-06)	15/11/05	14/05/06	<i>Location:</i> Lai Po Road near Hoi Lai Estate <i>Time Period:</i> General holidays (including Sundays) between 0700-2300 hours and any other days between 1900-2300 hours	Expired
GW-RW0739-05	19/11/05	31/03/06	<i>Location:</i> Yuet Lun Street, Kwai Chung Road & Butterfly Valley Road <i>Time Period:</i> Any day not being a general holiday between 2100-0700 hours	Expired
GW-RW0740-05 (replaced by GW-RW0269-06)	16/11/05	14/05/06	<i>Location:</i> Lai Po Road near Yuet Lun Street <i>Time Period:</i> Whole day of general holidays (including Sundays) and any other days between 1900-0700 hours on next day	Expired
GW-RW0745-05	18/11/05	17/05/06	<i>Location:</i> Ching Cheung Road near LCK Swimming Pool <i>Time Period:</i> Whole day of general holidays (including Sundays) and any other days between 1900-0700 hours on next day	Expired
GW-RW0757-05	23/11/05	31/03/06	<i>Location:</i> Ching Cheung Road near LCK Power Substation <i>Time Period:</i> Whole day of general holidays (including Sundays) and any other days between 1900-0700 hours on next day	Expired
GW-RW0780-05 (replaced by GW-RW0135-06)	5/12/05	4/5/06	<i>Location:</i> Butterfly Valley, Lai Chi Kok <i>Time period:</i> general holiday including Sundays between 0900-2300 hrs and any day not being a general holiday between 0000-0700 hrs and 1900-2400	Expired
GW-RW0824-05	25/12/05	23/04/06	<i>Location:</i> Kwai Chung Road <i>Time Period:</i> General holidays (including Sundays) between 0900-2100 hrs	Expired
GW-RW0825-05	20/12/05	19/05/06	<i>Location:</i> Butterfly Valley <i>Time Period:</i> General holidays (including Sundays) between 0000-2400 hours from 20/12/05 to 9/1/06, general holidays (including Sundays) between 0000-2300 hours from 10/1/06 to 19/5/06 and any other days between 1900-0700 hours on next day	Expired
GW-RW0844-05 (replaced by GW-RW0258-06)	15/1/06	14/06/06	<i>Location:</i> Butterfly Valley <i>Time Period:</i> Whole day of general holidays (including Sundays) and any other days between 1900-0700 hours on next day	Valid
GW-RW0867-05	3/2/06	2/8/06	<i>Location:</i> Hing Wah Street West (Jetty Area) <i>Time Period:</i> Whole day of general holidays (including Sundays) and any other days between 1900-0700 hours on next day	Valid
GW-RW0083-06 (replaced by GW-RW0121-06)	18/2/06	17/8/06	<i>Location:</i> Ching Cheung Road near Mei Foo Sun Chuen <i>Time Period:</i> General holidays (including Sundays) between 0700-2300 hours and any other days between 1900-2300 hours	Valid
GW-RW0091-06	19/2/06	13/8/06	<i>Location:</i> Ching Cheung Road near CLP Substation <i>Time Period:</i> General holidays (including Sundays) between 0900-2100 hrs	Valid

Permit No.	Valid Period		Details	Status
	From	To		
GW-RW0093-06 (replaced by GW-RW0244-06)	26/2/06	21/5/06	<i>Location:</i> Ching Cheung Road near Lai Wan Road <i>Time Period:</i> General holidays (including Sundays) between 0700-1900 hrs	Expired
GW-RW0121-06	11/3/06	6/9/06	<i>Location:</i> Ching Cheung Road near Castle Peak Road <i>Time Period:</i> Whole day of general holidays (including Sundays) and any other days between 1900-0700 hrs on next day	Valid
GW-RW0135-06	16/3/06	15/9/06	<i>Location:</i> Butterfly Valley <u>20/03/06 to 31/03/06</u> <i>Time Period:</i> Whole day of general holidays (including Sundays) and any other days between 1900-0700 hrs on next day <u>1/4/06 to 15/9/06</u> <i>Time Period:</i> General holidays (including Sundays) between 0900-2300 hrs and any other days between 1900-0700 hrs on next day	Valid
GW-RW0142-06	22/3/06	15/9/06	<i>Location:</i> Lai Wan Road <i>Time Period:</i> Any day not being a general holiday between 2100-0700 hrs on next day	Valid
GW-RW0145-06	31/3/06	30/9/06	<i>Location:</i> Lai Po Road and Yuet Lun Street <i>Time Period:</i> Any day not being a general holiday between 2100-0700 hrs on next day	Valid
GW-RW0146-06	22/3/06	19/9/06	<i>Location:</i> Lai Wan Road <i>Time Period:</i> Whole day of general holidays (including Sundays) and any other days between 1900-0700 hrs on next day	Valid
GW-RW0172-06	5/4/06	17/4/06	<i>Location:</i> Lai Po Road near Hoi Lai Estate <i>Time period:</i> General holiday including Sundays between 0000-2400 hrs	Expired
GW-RW0173-06	31/3/06	30/9/06	<i>Location:</i> Butterfly Valley Road, Lai Chi Kok <i>Time period:</i> General holiday including Sundays between 0000-2300 hrs and any day not being a general holiday between 1900-2300	Valid
GW-RW0192-06	7/4/06	6/10/06	<i>Location:</i> Junction of Ching Cheung Road and Castle Peak Road <i>Time Period:</i> General holidays (including Sundays) between 0700-2300 hours and any other days between 1900-2300 hours	Valid
GW-RW0244-06	27/4/06	26/9/06	<i>Location:</i> Ching Cheung Road near Mei Foo Sun Chuen <i>Time Period:</i> General holiday (included Sundays) between 0700-2300 hours and any day not being a general holiday between 1900-2300 hours.	Valid (new)
GW-RW0257-06	4/5/06	3/10/06	<i>Location:</i> Castle Peak Road near Ching Cheung Road <i>Time Period:</i> General holiday (includes Sundays) between 0700-2300 hours and any day not being a general holiday between 1900-2300 hours.	Valid (new)
GW-RW0258-06	5/5/06	4/10/06	<i>Location:</i> Butterfly Valley <i>Time Period:</i> General holiday (includes Sundays) between 0000-2400 hours and any day not being a general holiday between 1900-0700 hours.	Valid (new)

Permit No.	Valid Period		Details	Status
	From	To		
GW-RW0269-06	15/5/06	14/11/06	<i>Location:</i> Lai Po Road near Yuet Lun Street <i>Time Period:</i> General holiday (includes Sundays) between 0000-2400 hours and any day not being a general holiday between 1900-0700 hours.	Valid (new)
GW-RW0270-06	15/5/06	14/11/06	<i>Location:</i> Lai Po Road near Hoi Lai Estate <i>Time Period:</i> General holiday (includes Sundays) between 0000-2400 hours and any day not being a general holiday between 1900-0700 hours.	Valid (new)
GW-RW0271-06	15/5/06	10/11/06	<i>Location:</i> Ching Cheung Road near Butterfly Valley Road <i>Time Period:</i> Any day not being a general holiday between 2100-2400 hours (immediately following a general holiday) and between 2100-0700 hours (not immediately following a general holiday).	Valid (new)
GW-RW0276-06	15/5/06	11/11/06	<i>Location:</i> Butterfly Valley Road near Lai Chi Kok Interchange <i>Time Period:</i> Any day not being a general holiday between 2100-2400 hours (immediately following a general holiday) and between 2100-0700 hours (not immediately following a general holiday).	Valid (new)
GW-RW0319-06	30/5/06	26/11/06	<i>Location:</i> Ching Cheung Road near Butterfly Valley Road <i>Time Period:</i> General holiday (includes Sundays) between 0000-2400 hours and any day not being a general holiday between 1900-0700 hours.	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	<p>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.</p> <p>The complaint was raised by the Citybase Property Management Ltd. (the management company of Nob Hill) and the Secretary 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.</p>	<p>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:</p> <ul style="list-style-type: none"> ▪ 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) <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				<p>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).</p> <p>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:</p> <ul style="list-style-type: none"> • 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. <p>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.</p>	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
40330	Site Areas near Nob Hill	30 March 2004	<p>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.</p> <p>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.</p>	<p>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.</p> <p>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:</p> <ul style="list-style-type: none"> • 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	<p>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.</p> <p>NECSO referred the complaint to the RSS and subsequently referred to the ET Leader of the Project on 6 April 2004</p>	<p>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.</p> <p>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.</p> <p>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</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				<p>Road in front of Nob Hill.</p> <p>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.</p> <p>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).</p> <p>Based on the information obtained, this noise complaint is considered not due to the construction activities of the Project.</p> <p>Nevertheless, the Contractor was recommended to adopt good site practice to minimize the construction noise, such as</p> <ul style="list-style-type: none"> • 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	<p>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.</p> <p>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.</p>	<p>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.</p> <p>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.</p> <p>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</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			<p>The complaint was raised by Mr. Chan, regarding the washout of muddy water from the works area of the R8-LCKV Project onto Lai Chi Kok Road. The washout caused nuisance to the drivers utilizing the road, and may also cause danger to the motorbikes.</p>	<p>also noted that the back of profile barriers along the site boundary had been sealed up by cement as preventive measures.</p> <p>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.</p> <p>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.</p> <p>Nevertheless, the Contractor was recommended to adopt the following measures to avoid re-occurrence of similar incidents:</p> <ul style="list-style-type: none"> • 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	<p>22-Jul-04 (by EPD)</p> <p>09-Aug-04 (by ET Leader)</p>	<p>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.</p> <p>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:</p> <p>1. Area A: Works area between Nob</p>	<p>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.</p> <p>Area A:</p> <ul style="list-style-type: none"> ▪ 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) <p>Area B: No construction activity was undertaken in the concerned period.</p> <p>Review of Environmental Monitoring Results</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			<p>Hill and Lai Chi Kok Park Swimming Pool</p> <p>2. Area B: Works area between Ching Cheung Road and Mei Lai Road / Lai Wan Road opposite to Mei Foo Sun Cheung (Phase 5) and Lai Chi Kok Public Library.</p>	<p>The routine monitoring stations, which are in the vicinity of the concerned works areas, include:</p> <p><u>Noise Monitoring</u> NM4: R/F of Mei Foo Sun Chuen (Phase 5) NM8a: M/F of Nob Hill NM8b: 3/F of Nob Hill</p> <p><u>Air Quality (1-hr TSP / 24-hr TSP) Monitoring</u> AM2: R/F of Lai Chi Kok Sports Centre</p> <p>No Action / Limit level exceedance was identified in July 2004.</p> <p>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.</p> <p>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:</p> <ul style="list-style-type: none"> • To space out noisy equipment and position it as far away as possible from the sensitive receivers; • To avoid concurrent uses of noisy equipment near the sensitive area; • To ensure the equipment are maintaining in good operation condition; • To turn off any idle equipment on site. • To cover excavated dusty materials by impervious sheeting; • To provide water spray for haul roads, loading/unloading and concrete breaking operations; • To perform wheel wash for every vehicle immediately before leaving the site. 	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
50215	Mei Foo Sun Chuen, Phase 5 (Retaining Wall CC-R3)	15-Feb-05 (by ET Leader)	<p>A public complaint was raised on 8th Feb 2005 regarding construction noise from the site area of the Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project near Mei Foo Sun Chuen. The complaint was referred to the Resident Site Staff on 14th Feb 2005 and subsequently referred to the ET Leader of the Project on 15th Feb 2005.</p> <p>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.</p>	<p>Construction Activities</p> <p>During the weekly site inspection on 17 Feb 05, piling work was being conducted at the concerned. The major powered mechanical equipment (PME) in operation included a mobile crane, an air compressor, a reverse circulation drill and a generator.</p> <p>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.</p> <p>Environmental Monitoring</p> <p>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)).</p> <p>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).</p> <p>Conclusions</p> <p>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.</p> <p>Nevertheless, the Contractor was recommended to adopt good site practice to minimize the construction noise impacts.</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
50322	Seung Lai House, Wah Lai Estate (Slope S1)	11-Mar-05 (by EPD) 22-Mar-05 (by ET Leader)	<p>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 complaint to the Environmental Team (ET) Leader of the Project on 22 Mar 05.</p> <p>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.</p>	<p>Construction Activities</p> <p>As advised by the RSS, the major construction work during 25 Feb 05 to 11 Mar 05 (2 weeks before the date of complaint) in the vicinity of Wah Lai Estate included excavation work, soil nail work and installation of u-channel and manholes. The major powered mechanical equipment included excavators, drilling machine and air compressor.</p> <p>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.</p> <p>Environmental Monitoring</p> <p>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.</p> <p>Conclusion</p> <p>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.</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
50330, 50331, 50404 & 50407	Wah Lai Estate	30-Mar-05, 31-Mar-05, 4-Apr-05 & 7-Apr-05 (by ET Leader via RSS)	<p>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 referred by the Resident Site Staff to the Environmental Team (ET) Leader on 30th, 31st March, 4th and 7th April 2005, respectively.</p>	<p>Construction Activities</p> <p>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.</p> <p>Environmental Monitoring</p> <p>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.</p> <p>Conclusion</p> <p>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.</p> <p>Mitigation</p> <p>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).</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
50404-v2	Mei Foo Sun Chuen	4-Apr-05 (by ET Leader via RSS)	<p>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 April 2005.</p>	<p>Construction Activities</p> <p>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.</p> <p>Environmental Monitoring</p> <p>According to the EM&A Manual, Mei Foo Sun Chuen, Phase 5 (NM4) is designated as one of the noise monitoring stations.</p> <p>Since the commencement of the impact monitoring programme, the construction noise levels recorded at this station were all below the noise criterion.</p> <p>Conclusion</p> <p>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.</p> <p>Mitigation</p> <p>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.</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
50613	Mei Foo Sun Chuen	7-Jun-05 (by EPD) 13-Jun-05 (by ET Leader)	<p>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.</p> <p>The complainant was particularly concerned about the fugitive dust emission during rock / concrete breaking activities.</p>	<p><i>Site Activities</i></p> <p>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.</p> <p><i>Observations</i></p> <p>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.</p> <p>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.</p> <p>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.</p> <p><i>Conclusion</i></p> <p>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.</p> <p>However, corrective action had been taken by the Contractor and the situation was found improved during the follow-up inspections.</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
50721	Hei Lai House, Wah Lai Estate	21-Jul-05 (by ET Leader)	<p>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.</p> <p>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.</p> <p>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.</p>	<p><i>Site Activities</i></p> <p>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.</p> <p>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.</p> <p><i>Noise Measurement</i></p> <p>Ad-hoc measurements were carried out on the roof of Hei Lai House on 25 July 2005.</p> <p>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.</p> <p><i>Conclusion</i></p> <p>Since the noise measurement results at Wah Lai Estate were below 75 dB(A), the complaint was considered not justifiable.</p> <p>Nevertheless, noise mitigation measures have been implemented by the Contractor to minimize the noise impact arising from the breaking activities:</p> <ol style="list-style-type: none"> 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. 	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
51107	Ching Cheung Road near Mei Foo Sun Chuen	7-Nov-05 (by the ET Leader)	<p>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.</p> <p>According to EPD, the complaint was raised by a resident of Mei Foo Sun Chuen. The complaint was about dark smoke, dust and noise nuisance caused by the construction work of R8-LCKV near Mei Foo Sun Chuen.</p>	<p>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.</p> <p>Site Inspection</p> <p>After receipt of the complaint, an ad-hoc site inspection was carried by ET on 9 November 2005 and the following observations were made:</p> <ol style="list-style-type: none"> 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. <p>Environmental Monitoring</p> <p>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.</p> <p>Conclusion</p> <p>Based on the ad-hoc site inspection and the environmental monitoring results, this complaint was considered not justifiable.</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
60118	Lai Po Road near Hoi Lai Estate	18-Jan-06 (by the ET Leader)	<p>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.</p> <p>According to EPD, the complaint was lodged by a resident of Hoi Ming House of Hoi Lai Estate. The complaint was about construction noise nuisance caused by construction work of R8-LCKV carried out at Lai Po Road near Hoi Lai Estate. The noise nuisance was noted since 14 January 2006 during the periods from 2330 hrs to 0600 hrs.</p>	<p>Site Activities</p> <p>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:</p> <ul style="list-style-type: none"> • 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. <p>The above night works, which involved operation of tractor, mobile crane, lifting frame and generator, were undertaken under the two construction noise permits CNP no. GW-RW0739-05 and GW-RW0740-05.</p> <p>Environmental Monitoring</p> <p>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).</p> <p>Conclusion</p> <p>Based on the information collected and the monitoring results, the complaint is considered not justifiable.</p> <p>Nevertheless, the Contractor was reminded to take sufficient noise mitigation measures to minimize the environmental impact on the nearby community.</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
60119	Mei Foo Sun Chuen (Phase 5)	18-Jan-06 (by the ET Leader)	<p>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.</p> <p>According to EPD, the complaint was raised by a resident of Mei Foo Sun Chuen via a Sham Shui Po District Council Member’s Office. The complaint mentioned that residents of Mei Foo Sun Chuen Stage 5 were adversely affected by construction dust caused by the Route 8 work carried out at the slopes adjacent to Ching Cheung Road.</p>	<p>Site Activities</p> <p>The site of concern was likely to be CCR-S4, CCR-R2 and CCR-R3. According to RSS’s records, site activities included:</p> <ul style="list-style-type: none"> • 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. <p>Site Inspection</p> <p>After receipt of the complaint, an ad-hoc site inspection was carried by ET on 19 January 2006. No environmental deficiency regarding construction dust was identified during the inspection.</p> <p>Environmental Monitoring</p> <p>All monitoring results in Jan 06 revealed that no exceedance was recorded for the air quality (1-hr and 24-hr TSP) criteria.</p> <p>Contractor’s Action</p> <p>The Contractor of R8-LCKV had implemented several dust mitigation measures:</p> <ul style="list-style-type: none"> • 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. <p>Conclusion</p> <p>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.</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
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)	<p>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.</p> <p>All about construction noise due to night works at Lai Po Road near Hoi Lai Estate.</p>	<p>Site Activities</p> <p>Since around mid-January 2006, segments were transported to Piers P15 and B4, under the permission of construction noise permit (CNP).</p> <p>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.</p> <p>Site Inspection</p> <p>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).</p> <p>Conclusion</p> <p>Based on the information collected and the monitoring results, the complaints are considered not justifiable.</p> <p>It was suspected that the nuisance was caused by the alert sound of tractors during backward movement which serves 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.</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
60420	Near both Hoi Lai Estate and West Kowloon Highway	20-Apr-06 (by the ET Leader)	<p>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.</p> <p>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.</p>	<p>Site Activities</p> <p>According to the Resident Site Staff (RSS)'s records, the construction works were carried out by the Contractor from daytime to 2230 hours on 14 April and from 2000 hours to 0600 hours 16 April 2006.</p> <p>The construction activities near Hoi Lai estate included: -</p> <ul style="list-style-type: none"> • 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. <p>The above construction activities were undertaken under a construction noise permit CNP no. GW-RW0172-06.</p> <p>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.</p> <p>Contractor's Action</p> <p>The Contractor had implemented a short term mitigation measures:-</p> <ul style="list-style-type: none"> • Turned off the alert sound of tractors during backward movement in order to reduce the potential for noise impact; • Strengthened their management on worker's working manner such as avoid dropping of material on ground, wrapping up of hammering equipment and etc.; and • Conducted training of worker in order to reducing noise nuisance during the night works. 	Close

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				<p>Conclusion</p> <p>Based on the information collected and the monitoring results, the complaints are considered not justified.</p> <p>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.</p> <p>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.</p>	
60428	Between Ching Cheung Road and Mei Lai Road (near Phase 5 of Mei Foo Sun Chuen)	28-Apr-06 (by the ET Leader)	<p>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.</p> <p>The complaint was about the Contractor cut 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.</p>	<p>Site Activities</p> <p>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.</p> <p>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.</p> <p>Contractor Action</p> <p>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.</p> <p>No follow up action was required for this complaint.</p> <p>Conclusion</p> <p>Under the EP conditions and EIAO, there is no need for this</p>	Close

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				<p>project to mitigate the traffic noise barrier effect due to the removal of trees.</p> <p>Based on the information collected, the complaint is considered not justifiable.</p> <p>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.</p> <p>Compensatory planting will be provided at the concerned area after completion of the construction works in order to improve the landscape and visual impacts.</p> <p>No follow up action will be required for this complaint.</p>	
60522	Hoi Lai Estate (Hoi Fai House)	22-May-06 (by ET Leader)	<p>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.</p> <p>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.</p>	<p>Site Activities</p> <p>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.</p> <p>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).</p> <p>Contractor Action</p> <p>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.</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				<p><i>Site Inspection</i></p> <p>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.</p> <p>Conclusion</p> <p>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.</p> <p>Based on the information collected, the complaint is considered not justifiable.</p> <p>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.</p>	

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**

- Three noise action level exceedances were recorded due to a noise complaint received on 20 April, 28 April and 22 May 2006. The details of the complaint can refer to Appendix I.
- Two noise limit level exceedances were recorded on 7 March and 14 March 2006, both at Station NM4 (Mei Foo Sun Chuen).

Report No. 60307_NM4**Date of Measurement:** 7 March 2006**Time of Measurement:** 11:00

Station No.	Parameter	Measured Level (Leq dB(A))	Baseline Level (Leq dB(A))	Construction Noise Level (Leq dB(A))	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level (Leq dB(A))	Level exceeded
NM4	Construction Noise	80.2	73.8	79.1	When one documented complaint is received	75.0	Limit
		80.1		78.9			Limit

(a) Statement of exceedance(s)

Construction noise at NM4 (Mei Foo Sun Chuen) exceeded the Limit level.

(b) Cause of exceedance(s)

The exceedance was considered related to the Project works:

- According to our field observation, the dominated noise source was from the operation of 2 excavator mounted breakers (one at S1 and one at NTMM) and drilling works at S1.

(c) Action required under the action plan

The Contractor is required to (1) implement mitigation measures; and (2) prove to the Environmental Team and ER the effectiveness of measures applied.

The Environmental Team is required to (1) notify the relevant parties of the exceedance; and (2) increase monitoring frequency to check mitigation effectiveness.

(d) Action taken under the action plan

Notification by ET is given through this exceedance report.

(e) ET's conclusions and recommendations for mitigation

The exceedance was considered related to the Project works. The Contractor is required to implement noise mitigation measures to rectify the problem. The Contractor is recommended to revise the works schedule to reduce the number of noisy equipment in concurrent use.

Report No. 603014_NM4**Date of Measurement:** 14 March 2006**Time of Measurement:** 14:20 & 14:55

Station No.	Parameter	Measured Level (Leq dB(A))	Baseline Level (Leq dB(A))	Construction Noise Level (Leq dB(A))	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level (Leq dB(A))	Level exceeded
NM4	Construction Noise	77.8	73.8	75.6	When one documented complaint is received	75.0	Limit
		79.5		78.1			Limit

(a) Statement of exceedance(s)

Construction noise at NM4 (Mei Foo Sun Chuen) exceeded the Limit level.

(b) Cause of exceedance(s)

The exceedance was considered related to the Project works:

Observations during the 1st measurement:

- 1 excavator mounted breakers were operated at S1 and temporary noise barrier was provided;
- Soil nailing works was carried out at S1 and was identified as the dominant noise source for the measurement.

Observations during the 2nd measurement:

- 2 excavator mounted breakers were operated (1 at S1 and 1 at S4) and temporary noise barriers were provided;
- Soil nailing works was carried out at S1 and was identified as the dominant noise source for the measurement.

(c) Action required under the action plan

The Contractor is required to (1) implement mitigation measures; and (2) prove to the Environmental Team and ER the effectiveness of measures applied.

The Environmental Team is required to (1) notify the relevant parties of the exceedance; and (2) increase monitoring frequency to check mitigation effectiveness.

(d) Action taken under the action plan

Notification by ET is given through this exceedance report.

(e) ET's conclusions and recommendations for mitigation

The exceedance was considered related to the Project works. The Contractor is required to implement noise mitigation measures to rectify the problem. The Contractor is recommended to revise the works schedule to reduce the number of noisy equipment in concurrent operation.